MACHINE CPUSM15 PRESENT PN 5554814 EC 824887 VERSION 000 RUN 1998
BOARD 01A-B2 PREVIOUS PN 5554814 EC 824810 VERSION 000 01-29-75
PROBE SIDE SMA_OW DE_ETE TOO_

DEFINITION OF PRINT CHARACTERS USED ON THIS PACKAGE
X IN CHECK COLUMN INDICATES A PIN LOGICALLY DELETED FROM A NET
0* IN PROBE DELETE COL. DENOTES DISCRETE WIRE CONN. MAY EXIST ON PROBE SIDE
* FOLLOWING THE PIN LOCATION INDICATES AN I/O PIN
THE DISCRETE WIRE MNEUMONICS USED IN THE TYPE COLUMN ARE AS FOL_OWS
WIRE TYPE MNEUMONIC
YEL
END OF DEFINITIONS FOR THIS PACKAGE

CHECK DEL	DELETE COL	PINS IN NET	NET IMAGE	RELOCATED SUB-NETS	ADD COL	WIRE TYPE	WIRE LGTH	FROM PIN	TO PIN	NET ID
	0*	1	C1B13*	C	XXX	YEL	11.0	A6E02*	C3B03	001
	0*	2	C2B03	C C	XXX	YEL	9.0	C3B03	K2D09	
	0*	2	C3B03	C C	XXX	YEL	9.0	K2D09	C2B03	
	1		A6E02*	A	XXX	YEL	4.0	C2B03	C1B13*	
								C1B13*		
	0*	1	K3B04	C	XXX	YEL	7.0	M4B12	K3B04	002
	0*	1	M4B12	C				K3B04		
A	0*	1	K2D05	C	XXX	YEL	8.0	K3D13	S2D05	003
	0*	1	K3D13	C				S2D05		
					XXX	YEL	7.0	N1B13*	K2D12	004
					XXX	YEL	8.0	K2D12	G4D13	
								G4D13		
					XXX	YEL	9.0	M5B08	K2D10	005
								K2D10		
					XXX	YEL	9.0	K2D13	M5D11	006
								M5D11		
					XXX	YEL	10.0	M5D09	K2D06	C07
								K2D06		

CHECK	PROBE CARD	PINS	NET IMAGE	NET ID
			RN111BL6	
			KT561AH2	
			KT701AK6	
			WB107AN4	
			KT621BE2	
			KT361AC2	
			KT621AT6	

*** CONTINUED ON NEXT PAGE ***

MACHINE CPUSM15 PRESENT PN 5554814 EC 824887 VERSION 000 RUN 1998
BOARD 01A-B2 PREVIOUS PN 5554814 EC 824810 VERSION 000 01-29-75
PROBE SIDE SMA_LOW DE_ETE TOOL

CHECK DEL	DE_ETE COL	PINS IN NET	NET IMAGE	RELOCATED SUB-NETS	ADD COL	WIRE TYPE	WIRE LGTH	FROM PIN	TO PIN	NET ID
					XXX	YE_	10.0	K2B07	M5D12	008
								M5D12		
					XXX	YE_	9.0	K2B13	M5B11	009
								M5B11		
					XXX	YE_	7.0	C4B10*	G4D12	010
								G4D12		

CHECK	PROBE	CARD	PINS	NET IMAGE	NET ID
				KT561BR4	
				KT561BJ6	
				WB207AF4	
TOTALS	1	7			

ADD	TYPE	LGTH	FROM	TO	ID
14					

END OF REWORK FOR BOARD 01A-B2

END OF REWORK FOR BOARD 01A-B2

ADD-DELETE REWORK PAGE 1

MACHINE CPU15FST PRESENT PN 4835280 EC 828457 VERSION 006 RUN 2494

BOARD 01A-B3 PREVIOUS PN 4835280 EC 828425 VERSION 006 09-30-77

PROBE SIDE SHALLOW DELETE TOOL

DELETE					ADD				
CHECK DEL	DELETE COL	PINS IN NET	NET IMAGE	RELOCATED SUB-NETS	ADD COL	WIRE TYPE	WIRE LGTH	FROM PIN	TO PIN	NET ID

DEFINITION OF PRINT CHARACTERS USED ON THIS PACKAGE

x IN CHECK COLUMN INDICATES A PIN LOGICALLY DELETED FROM A NET

0* IN PROBE DELETE COL. DENOTES DISCRETE WIRE CONN. MAY EXIST ON PROBE SIDE FOLLOWING THE PIN LOCATION INDICATES AN OLD PIN

THE DISCRETE WIRE MNEUMONICS USED IN THE TYPE COLUMN ARE AS FOLLOWS

WIRE TYPE MNEUMONIC

YEL

END OF DEFINITIONS FOR THIS PACKAGE

CHECK	PROBE	CARD	PINS	NET IMAGE KL111RL2	NET ID	ADD	TYPE	LGTH	FROM	TO	ID
			E2D05	P		XXX	YEL	8.0	P5D07	L3D03	001
	1		G3D05	P W		XXX	YEL	7.0	L3D03	G3D05	
	1		P5D07	W			YEL	8.0	G3D05	E2D05	
									F2D05		
TOTALS	2	0				2					

END OF REWORK FOR BOARD 01A-B3

CARD ADD-DELETE LIST RUN 2694 09-30-77 PAGE 1

MACHINE CPU15FST PRESENT PN 4835280 EC 828457 VERS 006 XFER 828457 AA

LOCATION 01A-B3 PREVIOUS PN 4835280 EC 828425 VERS 006 XFER 828425 AD

DELETE					ADD				
SOCKET	TYPE NO	PART NO. DELETES	SIZE	ACC	SOCKET	TYPE	PART NO. NO ADDS	SIZE	ACC

END OF LIST

CARD ADD-DELETE LIST RUN 1998 01-29-75 PAGE 1

MACHINE CPUSM15 PRESENT PN 5554814 EC 824887 VERS 000 XFER 824887 AE

LOCATION 01A-B2 PREVIOUS PN 5554814 EC 824810 VERS 000 XFER 824810 AC

DELETE

SOCKET	TYPE	PART NO.	SIZE	ACC
K2	9270	8211449	14-05	
M2	Y567	8234487	56-05	
K3	Y625	8234545	14-05	

ADD

SOCKET	TYPE	PART NO.	SIZE	ACC
K2	Y665	8239466	28-05	
M2	Y567	8239470	56-05	
S2	9270	8211449	14-05	

END OF LIST

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

PIN ID: #-I/O PIN *-I/O & LOGIC T-TERMINATING RES. V-VOLTAGE/GROUND
PLANES: 1-CARD SIDE SHALLOW 2-PROBE SIDE SHALLOW 3-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW W-DISCRETE OVERFLOW
WIRE TYPES: YEL-YELLOW,30, AG TWL-TWIN LEAD WRAP TW -TWIST PR CONNECT FIR-50 OHM TRI-LEAD NTR-90 OHM TRI-LEAD FTW-50 OHM TWIN LEAD NTW-90 OHM TWIN HEAD CX -COAX CONNECTOR

NOTES: WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
AV144AK2	D6E04#	1	K4B04	2	YEL	11.0
	K4B04	2	H3B05	2	YEL	7.0
AV144AL2	K5B11	2	H4D07	1	YEL	7.0
	K5B11	1	E6B04#	1	YEL	8.0
AV144AM2	H5D05	2	K4D02	1	YEL	7.0
	E6C04#	2	K4D02	1	YEL	11.0
AV144AN2	E6D04#	2	K5D10	2	YEL	8.0
	K5D10	2	H4B03	2	YEL	8.0
AV144AP2	K4B02	1	F6A04#	1	YEL	10.0
	K4B02	2	H3B13	2	YEL	5.0
AV144AQ2	F6B04#	1	K5B12	2	YEL	7.0
	K5B12	2	H5B03	2	YEL	6.0
AV144AR2	H4B12	2	K4B09	2	YEL	5.0
	K4B09	1	F6C04#	1	YEL	9.0
AV144AS2	H4B10	1	F6E04#	1	YEL	8.0
AV144AT2	G6A04#	1	H4B11	2	YEL	7.0
CR101BD2	E3D04	1	E2D04	1	YEL	5.5
	N1E13#	1	E2D04	2	YEL	9.0
	S4B03	2	E3D04	2	YEL	13.0
CS101AK2	S4D05	2	D6E02#	1	YEL	13.0
KA101AS2	E3D07	2	S5B09	2	YEL	13.0
	E2D07	2	E3D07	2	YEL	5.5
	E2D07	2	E1B13#	2	YEL	7.0
KA101AT2	S5D07	2	T6A04#	2	YEL	5.0
KA202AX6	H4D11	1	T6C04#	1	YEL	13.0
KA202DE4	H3D09	1	T6D04#	1	YEL	13.0
KA212AW2	K5B02	1	J6E02#	1	YEL	5.5
KA212AX2	J6D02#	2	K5D12	2	YEL	4.5
KA212AY2	K6B02#	1	K5D02	1	YEL	5.5
KA222BS6	E3D03	2	U6C04#	1	YEL	14.0
	E2D03	2	F1E13#	1	YEL	4.5
	E2D03	2	E3D03	2	YEL	5.5
KA232BL6	E3B03	1	E2B03	1	YEL	5.5
	E3B03	2	K3D07	2	YEL	8.0
	F1C13#	2	E2B03	1	YEL	5.0
	F6D02#	1	K3D07	1	YEL	11.0
KB141AS6	E3B11	2	G6A02#	1	YEL	10.0
	E3B11	1	E2B11	1	YEL	5.5
	E2B11	2	F1A13#	1	YEL	5.5
KC102AP2	P6E02#	2	C3D10	2	YEL	13.0
	C2D10	1	C3D10	1	YEL	5.5
	C2D10	1	A1D13#	1	YEL	7.0
KC102AU2	F1B13#	1	E2D05	1	YEL	4.5
	E3D05	1	E2D05	1	YEL	5.5
	Q6A02#	1	E3D05	1	YEL	13.0
KC102CW2	T6E04#	2	K3B07	1	YEL	13.0
	E3D12	2	K3B07	2	YEL	7.0
	E2D12	2	G1A13#	1	YEL	6.0
	E3D12	1	E2D12	1	YEL	5.5
KC122AA2	K3B09	2	F2D10	1	YEL	9.0
	D1E11#	1	F2D10	1	YEL	7.0
	F3D10	2	K3B09	2	YEL	8.0
	P6E04#	1	F3D10	2	YEL	14.0
KC122AC2	F3D07	2	Q6B04#	1	YEL	13.0
	F3D07	2	F2D07	2	YEL	5.5
	F2D07	2	E1A11#	1	YEL	5.5
KC122AC6	H5B05	1	Q6C02#	1	YEL	10.0
KC122AE2	F2B12	1	F3B12	1	YEL	5.5
	F2B12	1	E1C11#	1	YEL	6.0
	Q6C04#	1	F3B12	2	YEL	13.0
KC122AG2	F3B07	1	Q6D04#	1	YEL	13.0
	F2B07	1	E1D11#	1	YEL	5.0
	F3B07	1	F2B07	1	YEL	5.5
KC122AG6	H5D07	1	Q6D02#	1	YEL	9.0
KC122AJ2	E1E11#	2	F2B11	2	YEL	8.0
	R6A04#	1	F3B11	2	YEL	13.0
	F2B11	1	F3B11	2	YEL	5.5
KC122AL2	F2D05	1	F3D05	1	YEL	5.5
	F1B11#	2	F2D05	2	YEL	5.5
	M5D07	2	F3D05	1	YEL	11.0
	R6B04#	1	M5D07	1	YEL	8.0
KC122AL6	Q6E02#	W	H5B04	W	YEL	9.0
KC122AN2	R6C04#	1	F3B03	2	YEL	13.0
	F2B03	1	F1C11#	1	YEL	4.5
	F2B03	2	F3B03	2	YEL	5.5
KC122AQ2	F3D03	W	M4B02	W	YEL	9.0
	F2D03	W	F3D03	W	YEL	9.0
	F2D03	1	F1D11#	1	YEL	5.0
	M4B02	2	R6E04#	1	YEL	10.0
KC122AQ6	H4B09	1	R6B02#	1	YEL	12.0
KC122AS2	F3D04	2	S6A04#	2	YEL	13.0
	G1A11#	1	F2D04	1	YEL	4.5
	F2D04	1	F3D04	1	YEL	5.5
KC132AJ2	H5B11	1	S6A02#	1	YEL	10.0
KC132AV6	R6D02#	W	H3D05	W	YEL	11.0
KC132BA6	M6B02#	W	H5D10	W	YEL	6.0
KC132BC6	M5D04	1	M6C02#	1	YEL	5.5
	K3D06	W	M5D04	W	YEL	11.0
	J4B07	W	K3D06	W	YEL	6.0
KC132BF6	J5D10	2	L6D02#	1	YEL	5.5
KC132BR2	L6E02#	1	H4D12	1	YEL	8.0
KC142AP6	M6D02#	W	H2D03	W	YEL	11.0
KC142BD2	H5D04	2	K6A04#	1	YEL	6.0
KC152AQ6	D4B04	1	J3B05	2	YEL	9.0
	G3D05	2	D4B04	2	YEL	8.0
	N6A02#	1	G3D05	2	YEL	12.0
KC152AR6	N6B02#	1	G3B07	1	YEL	13.0
	D4B02	W	G3B07	W	YEL	9.0
	J3B03	2	D4B02	2	YEL	9.0
KC152AS4	N6C02#	1	J3B13	1	YEL	10.0
KC152AT4	J4B08	2	N6E02#	2	YEL	10.0
KD121AF2	B1B13#	1	C2B12	2	YEL	5.5
	C3B12	1	C2B12	1	YEL	5.5
	C6A02#	1	C3B12	1	YEL	8.0
	M5B09	2	C6A02#	2	YEL	11.0
KD121AV2	M5B02	2	C3B11	1	YEL	13.0
	B1E13#	1	C2B11	1	YEL	5.5
	C2B11	2	M5B02	2	YEL	13.0
	C6B02#	1	C3B11	1	YEL	8.0
KD121AW2	M5B03	2	C3B07	2	YEL	13.0
	C6C02#	1	C3B07	1	YEL	9.0
	M5B03	1	C2B07	1	YEL	14.0
	B1C13#	1	C2B07	1	YEL	5.0
KD121BD2	C2D07	1	B1A13#	1	YEL	5.5
	C3D07	1	C2D07	1	YEL	5.5
	B6D02#	1	M5D06	2	YEL	12.0
	B6D02#	1	C3D07	2	YEL	10.0
KD141AG2	E2B12	2	M4D05	2	YEL	11.0
	E3B12	2	M4D05	2	YEL	10.0
	E2B12	1	E1C13#	1	YEL	5.5
KE121AH2	L6D04#	1	J2D02	1	YEL	12.0
KE121AJ2	J3B07	1	M6A04#	1	YEL	10.0
KE121AK2	M6B04#	1	J2D11	1	YEL	11.0
KE121AL2	M6C04#	1	J3D03	2	YEL	11.0
KE121AM2	J2D13	2	M6E04#	2	YEL	12.0
KE121AN2	N6A04#	1	J3B04	1	YEL	11.0
KE121AP2	N6B04#	1	J4D03	1	YEL	10.0
KE121AQ2	J3D04	1	N6D04#	1	YEL	12.0
KE121AR2	N6E04#	2	J4D05	2	YEL	10.0
KE141AW6	J5B03	2	K6B04#	2	YEL	6.0
KE161AQ2	J6C04#	1	J4D07	1	YEL	7.0
KE161AT2	J5D03	1	U6D04#	1	YEL	12.0
KE161CC6	J4D02	2	H6A02#	2	YEL	8.0
KE161CE4	D4D06	W	J4B03	W	YEL	7.0
	G2B12	2	J4B03	2	YEL	7.0
	D4D06	2	J6D04#	1	YEL	11.0
KE201AY2	H6B02#	W	H3D11	W	YEL	8.0
KE251AY4	D3B11	2	D2B11	1	YEL	6.0
	D3B11	2	B1D11#	1	YEL	9.0
	H3B07	2	M4B05	1	YEL	10.0
	H3B07	1	B1D11#	1	YEL	11.0
KE251AZ4	M4D04	2	H2B09	2	YEL	11.0
	C1A11#	1	H2B09	1	YEL	9.0
	D3D05	1	D2D05	1	YEL	5.5
	D2D05	1	C1A11#	2	YEL	5.5
KE251BA4	M4D11	2	C1B11#	1	YEL	13.0
	D3B03	1	M4D11	2	YEL	13.0
	H2B10	2	D2B03	2	YEL	7.0
	D3B03	1	D2B03	1	YEL	5.5
KE251BB4	M4D10	2	D2D03	2	YEL	13.0
	C1C11#	1	D2D03	1	YEL	5.0
	D3D03	W	M4D10	W	YEL	10.0
	H2D11	2	D3D03	2	YEL	7.0
KE251BC4	H3D04	2	D3D04	2	YEL	9.0
	M4D09	2	D3D04	2	YEL	12.0
	D2D04	2	M4D09	2	YEL	13.0
	C1E11#	1	D2D04	1	YEL	5.0
KE251BM4	D2D10	1	H2B11	2	YEL	9.0
	D2D10	1	M4B08	2	YEL	12.0
	D3D10	2	A1D11#	1	YEL	10.0
	D3D10	W	M4B08	W	YEL	9.0
KE251BN4	H2D09	2	D2D07	2	YEL	7.0
	M4D07	2	D2D07	2	YEL	12.0
	M4D07	2	D3D07	2	YEL	10.0
	D3D07	2	A1E11#	2	YEL	8.0
KE251BP4	D2B12	2	M4D12	2	YEL	13.0
	D3B12	W	M4D12	W	YEL	10.0
	D3B12	1	B1B11#	1	YEL	9.0
	H2B07	2	D2B12	2	YEL	7.0
KE251BQ4	D2B07	2	M4D06	2	YEL	12.0
	M4D06	2	D3B07	2	YEL	11.0
	B1C11#	2	D3B07	2	YEL	8.0
	H2D07	2	D2B07	2	YEL	7.0
KE261AL6	H6D02#	W	H3D07	W	YEL	9.0
KE261AT2	M5B04	W	E3B07	W	YEL	9.0
	E1D13#	1	E2B07	2	YEL	5.0
	E2B07	W	M5B04	W	YEL	11.0
	H4D03	1	E3B07	2	YEL	8.0
KE271AK4	A4D02#	2	J4B09	2	YEL	10.0

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

PIN ID: #-I/O PIN *-I/O & LOGIC T-TERMINATING RES. V-VOLTAGE/GROUND
PLANES: 1-CARD SIDE SHALLOW 2-PROBE SIDE SHALLOW 3-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW W-DISCRETE OVERFLOW
WIRE TYPES: YEL-YELLOW,30, AG TWL-TWIN LEAD WRAP TW -TWIST PR CONNECT FTR-50 OHM TRI-LEAD NTR-90 OHM TRI-LEAD FTW-50 OHM TWIN LEAD NTW-90 OHM TWIN LEAD CX -COAX CONNECTOR

NOTES: WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
	H3D03	2	J4B09	2	YEL	7.0
KE271AL4	A4D03#	1	J4B11	1	YEL	13.0
	H2D13	2	J4B11	2	YEL	7.0
KE271AM4	H5B02	1	J2D10	2	YEL	10.0
	A4D05#	2	J2D10	2	YEL	12.0
KE271AN4	J3D06	1	H4B13	2	YEL	7.0
	A4D06#	W	J3D06	W	YEL	9.0
KE271AP4	J2B11	1	H4D10	1	YEL	9.0
	J2B11	1	A4D07#	1	YEL	13.0
KE271AQ4	J3D02	2	A4D09#	2	YEL	11.0
	J3D02	2	H3D02	2	YEL	4.5
KE271AR4	A4D10#	W	J4B05	W	YEL	9.0
	H3B04	1	J4B05	1	YEL	6.0
KE271AS4	J2D12	2	H3B09	2	YEL	5.5
	A4D11#	2	J2D12	2	YEL	12.0
KE271AT4	A4D13#	2	H3B10	2	YEL	11.0
KE271AU2	H2D12	1	V5D09	1	YEL	16.0
KE271AW2	H5B12	2	V5B09	2	YEL	12.0
KE271AX2	H2B12	W	V5B11	W	YEL	13.0
KE271AY2	H2B13	W	V5B13	W	YEL	13.0
KE271AZ2	V5D05	2	H3B02	2	YEL	19.0
KE271BA2	H2D02	2	V5B10	2	YEL	17.0
KE271BB2	H2B02	2	V5D13	2	YEL	18.0
KE271BC2	H3B08	2	U5D02	2	YEL	12.0
KE271BD2	H3B03	2	U5D03	1	YEL	12.0
KE281AK2	H5D13	2	V5B02	2	YEL	11.0
KE281AL2	H5D09	W	V5B07	W	YEL	11.0
KE281AM2	H5D11	W	V5B05	W	YEL	11.0
KE281AN2	H3D06	2	V5D03	2	YEL	12.0
KE281AP2	V5D04	2	H3D10	2	YEL	12.0
KE281AQ2	H2B04	2	V5D02	2	YEL	17.0
KE281AR2	H2D10	2	V5D06	2	YEL	16.0
KE281AS2	H4D02	W	V5D07	W	YEL	12.0
KE281AT2	V5D10	2	H2D04	2	YEL	17.0
KE295AU4	A4B08#	2	J2B05	2	YEL	13.0
	J2B05	1	H3B12	1	YEL	7.0
KE295AV4	A4B02#	W	J4D10	W	YEL	9.0
	J4D10	2	H5B13	2	YEL	8.0
KE295AW4	H5B09	2	J3D12	2	YEL	8.0
	A4B04#	W	J3D12	W	YEL	9.0
KE295AX4	A4B05#	2	J3B08	2	YEL	10.0
	J3B08	W	H5D12	W	YEL	8.0
KE295AZ4	A4B06#	W	J3B10	W	YEL	9.0
	H2B05	2	J3B10	2	YEL	7.0
KE295BA4	A4B09#	2	J3D10	2	YEL	11.0
	J3D10	2	H2B03	2	YEL	7.0
KE295BB4	H2D06	2	J2B09	2	YEL	4.5
	J2B09	2	A4B10#	2	YEL	12.0
KE295BC4	J4D11	2	H4B02	2	YEL	5.5
	A4B12#	W	J4D11	W	YEL	9.0
KE295BD4	H2D05	2	A4B13#	2	YEL	13.0
KE311AM6	J2B04	W	D4D07	W	YEL	9.0
KE311AP4	D4D10	1	J5B12	1	YEL	10.0
	G2B11	2	D4D10	2	YEL	9.0
	B6A04#	1	J5B12	1	YEL	10.0
KE311AQ4	J5D13	2	D4D05	2	YEL	10.0
	D4D05	2	G3B10	2	YEL	6.0
	J5D13	2	C6A04#	2	YEL	8.0
KE311AR4	J5D02	1	B6B04#	2	YEL	11.0
	D4D04	2	J5D02	2	YEL	8.0
	D4D04	W	G3B12	W	YEL	5.5
KE311AS4	D4D03	2	J5B11	2	YEL	11.0
	B6D04#	W	J5B11	W	YEL	8.0
	D4D03	2	G3D11	2	YEL	6.0
KE311AT4	J5B09	1	D4D02	1	YEL	9.0
	D4D02	2	G3B13	2	YEL	5.5
	B6D04#	1	J5B09	1	YEL	9.0
KE401BU2	G2B13	1	C6D04#	1	YEL	12.0
KE401BV6	G3B05	2	J2D07	2	YEL	7.0
KE401BZ6	A6D04#	2	G2D02	2	YEL	13.0
KT201AC6	K4B12	W	V4D04	W	YEL	11.0
KT201AD6	K4D10	2	V4D03	2	YEL	10.0
KT201AE6	K4B07	2	V4B05	2	YEL	10.0
KT201AF6	V4B07	2	K4B13	2	YEL	10.0
KT201AG6	K4D13	2	V4D02	2	YEL	10.0
KT201AH6	K4D11	2	V4D07	2	YEL	10.0
KT201AJ6	V4B02	2	K5D06	2	YEL	10.0
KT201AN6	K4D12	2	V4D05	2	YEL	10.0
KT201AP6	V4D09	2	K5D07	2	YEL	10.0
KT201AQ6	V4B13	1	K5B05	2	YEL	10.0
KT201AR6	V4B11	2	K5B09	2	YEL	10.0
KT201AS6	K5B13	2	V4B10	2	YEL	11.0
KT201AT6	K5D13	2	V4D13	2	YEL	10.0
KT201AU6	V4D10	2	K5D11	2	YEL	11.0
KT501AH6	M3B03	W	M3B08	W	YEL	4.5
KT511AH6	M3D03	2	M2D09	2	YEL	4.5
KT521AH6	M2B04	2	K3D11	2	YEL	7.0
KT551AF6	K3B09	1	M4B11	1	YEL	6.0
KT551AG6	K3D05	1	M4B09	2	YEL	6.0
KT551AH6	K3B11	W	M4B10	W	YEL	6.0
KT551AN2	K3D04	2	M5B05	2	YEL	8.0
KT551BA2	M4D03	2	M3D11	2	YEL	5.0
KT561AC2	K2D13	W	M5D11	W	YEL	9.0
KT561AE2	M5B07	1	K3B03	1	YEL	9.0
KT561AH2	K3B04	W	M4B12	W	YEL	7.0
KT561AM6	K3D03	2	M5D05	2	YEL	8.0
KT561BJ6	K2B13	W	M5B11	W	YEL	9.0
KT561BR4	K2B07	W	M5D12	W	YEL	10.0
KT571AA6	M2B11	2	M5D10	2	YEL	9.0
KT571AB6	M2D10	W	M5B13	W	YEL	10.0
KT571AE2	M5B10	1	K3B02	1	YEL	9.0
KT571AG6	M2D03	2	M3D10	2	YEL	7.0
KT571AL4	M2D07	2	M2B10	2	YEL	4.0
	M2D12	2	M2B10	2	YEL	4.0
	M2D05	2	M2D07	2	YEL	4.0
	M3B02	2	M2D12	2	YEL	4.5
	M2D02	1	M2D05	1	YEL	4.0
	M3D09	2	M3D12	2	YEL	5.0
	M3B11	2	M3D12	2	YEL	4.0
	M3B11	1	M3B02	1	YEL	5.0
KT571AM6	M2D06	W	M4B07	W	YEL	8.0
KT571AR2	M3B09	2	K3D02	2	YEL	5.0
KT601AH6	K3B12	1	K3B13	1	YEL	4.0
KT601AN6	M4B03	2	K3B10	2	YEL	5.5
KT611AV6	K3B05	W	M4B13	W	YEL	7.0
KT621AT6	K2D06	W	M5D09	W	YEL	10.0
KT621AZ2	M3B12	2	K3D10	2	YEL	5.0
KT621BE2	K2D10	W	M5B08	W	YEL	9.0
KT701AK6	K3D13	1	S2D05	2	YEL	9.0
KY131CF2	E2D10	2	D1E13#	1	YEL	5.5
	E3D10	W	E2D10	W	YEL	5.5
	J6B04#	W	E3D10	W	YEL	9.0
MC101AE6	B2D02#	1	F2B09	2	YEL	7.0
MC101AF6	B2D03#	2	F2D11	2	YEL	7.0
MC101AG6	B2D05#	2	F2D06	2	YEL	7.0
MC101AH6	F2B13	1	B2D06#	1	YEL	7.0
MC101AJ6	F2B10	1	B2D07#	2	YEL	11.0
MC101AK6	B2D09#	W	F2B04	W	YEL	6.0
MC101AL6	F2B02	2	B2D10#	1	YEL	8.0
MC101AM6	B2D11#	2	F2D02	2	YEL	7.0
MC101AN6	F2B05	2	B2D13#	2	YEL	7.0
MC111AE6	B2B02#	1	E2B09	1	YEL	7.0
MC111AF6	B2B04#	W	E2D11	W	YEL	6.0
MC111AG6	E2D06	2	B2B05#	2	YEL	6.0
MC111AH6	B2B06#	W	E2B13	W	YEL	6.0
MC111AJ6	B2B08#	W	E2B10	W	YEL	5.5
MC111AK6	E2B04	2	B2B09#	2	YEL	6.0
MC111AL6	E2B02	2	B2B10#	2	YEL	8.0
MC111AM6	B2B12#	2	E2D02	2	YEL	7.0
MC111AN6	E2B05	2	F4D12	2	YEL	11.0
	F4D12	1	C4B13#	1	YEL	6.0
MC111AP6	B2B13#	2	E2D13	2	YEL	6.0
MC121AE6	A2D02#	2	D2B09	2	YEL	6.0
MC121AF6	A2D03#	2	D2D11	2	YEL	6.0
MC121AG6	A2D05#	2	D2D06	1	YEL	7.0
MC121AH6	D2B13	2	A2D06#	2	YEL	7.0
MC121AJ6	A2D07#	2	D2B10	2	YEL	5.5
MC121AK6	D2B04	2	A2D09#	2	YEL	6.0
MC121AL6	A2D10#	2	D2B02	1	YEL	7.0
MC121AM6	A2D11#	1	D2D02	1	YEL	7.0
MC121AN6	A2D13#	W	D2B05	W	YEL	5.5
MC131AE6	A2B02#	2	C2B09	2	YEL	5.5
MC131AF6	A2B04#	2	C2D11	2	YEL	6.0
MC131AG6	A2B05#	2	C2D06	2	YEL	5.5
MC131AH6	A2B06#	1	C2B13	1	YEL	5.5
MC131AJ6	A2B08#	1	C2B10	2	YEL	7.0
MC131AK6	A2B09#	2	C2B04	2	YEL	5.5
MC131AL6	C2B02	2	A2B10#	2	YEL	6.0
MC131AM6	A2B12#	W	C2D02	W	YEL	5.5
MC131AN6	A2B13#	2	C2B05	2	YEL	5.5
MC201AE6	B3D02#	2	F3B09	2	YEL	7.0
MC201AF6	F3D11	2	B3D03#	2	YEL	7.0
MC201AG6	B3D05#	2	F3D06	2	YEL	7.0
MC201AH6	F3B13	1	B3D06#	1	YEL	8.0
MC201AJ6	B3D07#	2	F3B10	2	YEL	6.0
MC201AK6	B3D09#	2	F3B04	2	YEL	7.0
MC201AL6	B3D10#	2	F3B02	2	YEL	7.0
MC201AM6	F3D02	2	B3D11#	2	YEL	8.0
MC201AN6	B3D13#	2	F3B05	2	YEL	7.0
MC211AE6	E3B09	2	B3B02#	2	YEL	6.0
MC211AF6	B3B04#	W	E3D11	W	YEL	6.0
MC211AG6	B3B05#	2	E3D06	2	YEL	6.0
MC211AH6	E3B13	1	B3B06#	1	YEL	7.0
MC211AJ6	B3B08#	W	E3B10	W	YEL	5.5
MC211AK6	B3B09#	2	E3B04	2	YEL	6.0
MC211AL6	B3B10#	2	E3B02	2	YEL	6.0
MC211AM6	B3B12#	2	E3D02	2	YEL	7.0
MC211AN6	E3B05	W	F5D12	W	YEL	8.0
	C5B13#	1	F5D12	1	YEL	6.0
MC211AP6	B3B13#	2	E3D13	2	YEL	6.0

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

PIN ID: #-I/O PIN
*-I/O & LOGIC
T-TERMINATING RES.
V-VOLTAGE/GROUND

PLANES: 1-CARD SIDE SHALLOW 3-PROBE SIDE SHALLOW
2-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW
W-DISCRETE OVERFLOW

WIRE TYPES: YEL-YELLOW,30, AG
TWL-TWIN LEAD WRAP
TW -TWIST PR CONNECT
FTR-50 OHM TRI-LEAD
NTR-90 OHM TRI-LEAD
FTW-50 OHM TWIN LEAD
NTW-90 OHM TWIN LEAD
CX -COAX CONNECTOR

NOTES: WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
MC221AE6	D3B09	2	A3D02#	2	YEL	7.0
MC221AF6	A3D03#	2	D3D11	2	YEL	7.0
MC221AG6	A3D05#	W	D3D06	W	YEL	5.5
MC221AH6	D3B13	2	A3D06#	2	YEL	6.0
MC221AJ6	A3D07#	2	D3B10	2	YEL	5.5
MC221AK6	A3D09#	W	D3B04	W	YEL	5.5
MC221AL6	A3D10#	W	D3B02	W	YEL	5.5
MC221AM6	A3D11#	1	D3D02	1	YEL	7.0
MC221AN6	A3D13#	W	D3B05	W	YEL	5.5
MC231AE6	A3B02#	2	C3B09	2	YEL	5.5
MC231AF6	C3D11	1	A3B04#	1	YEL	7.0
MC231AG6	C3D06	2	A3B05#	2	YEL	5.5
MC231AH6	A3B06#	1	C3B13	1	YEL	5.5
MC231AJ6	A3B08#	1	C3B10	2	YEL	7.0
MC231AK6	A3B09#	2	C3B04	2	YEL	5.5
MC231AL6	C3B02	2	A3B10#	2	YEL	6.0
MC231AM6	C3D02	1	A3B12#	2	YEL	7.0
MC231AN6	A3B13#	2	C3B05	2	YEL	5.5
MD201AP6	E5D13	1	J6A02#	2	YEL	6.0
MD221AP6	J6C02#	1	G5D13	1	YEL	5.0
PA111AP4	J4D09	2	V3D02	2	YEL	11.0
PA111AQ4	V3B04	2	J3B11	2	YEL	11.0
PA111AR4	J3D09	1	V3B02	1	YEL	11.0
PA111AS4	J3B12	2	V3B05	2	YEL	11.0
PA111AT4	J4B10	2	V3B09	2	YEL	11.0
PA111AU4	J4B12	W	V3D09	W	YEL	11.0
PA111AV4	J2D09	2	V3D11	2	YEL	11.0
PA111AW4	V3B10	2	J3D05	2	YEL	11.0
PA111BF4	J2B07	2	V3D05	2	YEL	11.0
PA111BG4	V3D03	2	J3D07	2	YEL	11.0
PA111BH4	V3D06	2	J2B10	2	YEL	11.0
PA111BJ4	J2D06	2	V3D07	2	YEL	11.0
PA111BK4	J2B13	2	V3D10	2	YEL	11.0
PA111BL4	V3D13	2	J3D11	2	YEL	11.0
PA111BM4	V3B12	2	J3B02	2	YEL	11.0
PA111BN4	V3B13	2	J2B12	1	YEL	11.0
PC101AU4	U5D07	1	V6A04#	1	YEL	5.5
PC101AV4	U5B09	2	V6B04#	2	YEL	5.5
PC101AW4	T6A02#	2	U5D10	2	YEL	5.5
PC101AX4	H3B11	2	U5B10	2	YEL	13.0
	T6B02#	1	H3B11	2	YEL	13.0
PC101BJ4	T6D02#	1	U5D06	2	YEL	5.5
PC101BK4	T6E02#	1	U5B05	1	YEL	5.0
PC101BL4	U6A02#	1	U5D05	1	YEL	5.0
PC101BM4	U6C02#	1	U5D09	1	YEL	4.5
PC101BN4	H3D12	W	U5B12	W	YEL	11.0
PC101BP4	U6D02#	2	U5D11	2	YEL	4.5
PC101BQ4	U6E02#	1	U5D13	2	YEL	4.0
PC101BR4	U5B13	2	V6B02#	2	YEL	4.5
PC111AW4	S4B12	2	U6B04#	2	YEL	7.0
RN111BD2	C2D03	2	M4D13	2	YEL	16.0
	C2D03	1	C1D13#	1	YEL	4.0
	A6D02#	1	C3D03	2	YEL	12.0
	C3D03	W	M4D13	W	YEL	10.0
RN111BL6	K2D09	W	C3B03	W	YEL	9.0
	C2B03	W	K2D09	W	YEL	9.0
	C3B03	1	A6E02#	2	YEL	11.0
	C1B13#	1	C2B03	1	YEL	4.0
RN111BM2	M5D03	2	C3D05	2	YEL	13.0
	M5D03	1	C2D05	2	YEL	14.0
	C2D05	1	C1A13#	1	YEL	4.5
	B6B02#	1	C3D05	1	YEL	9.0
	B6C02#	1	C3D04	1	YEL	10.0
	M5C02	2	C3D04	2	YEL	13.0
	M5C02	2	C2D04	2	YEL	14.0
	C1E13#	2	C2D04	2	YEL	4.5
WB101AK4	M2D04	2	J5B10	2	YEL	12.0
	E4D11	1	H1A11#	1	YEL	11.0
	E5D11	1	E4D11	1	YEL	5.5
	E5D11	W	J5B10	W	YEL	6.0
WB101AL4	J5D07	2	M2D13	2	YEL	12.0
	E4B09	2	E5B09	1	YEL	5.5
	E5B09	W	J5D07	W	YEL	7.0
	H1B11#	W	E4B09	W	YEL	9.0
WB101AM4	J5D04	W	M2B13	W	YEL	8.0
	E5D06	W	J5D04	W	YEL	7.0
	E4D06	1	E5D06	1	YEL	5.5
	E4D06	2	H1D11#	1	YEL	11.0
WB101AN4	E4B10	1	E5B10	1	YEL	5.5
	E4B10	1	H1E11#	1	YEL	11.0
	E5B10	2	J5D06	2	YEL	7.0
	J5D06	2	M2B12	2	YEL	11.0
WB101AP4	M3D02	2	J5B05	2	YEL	10.0
	E4B13	2	J5B05	2	YEL	7.0
	E5B13	1	E4B13	1	YEL	5.5
	J1A11#	W	E5B13	W	YEL	12.0
WB101AQ4	J5B13	2	E5B04	2	YEL	7.0
	F4B04	1	E5B04	2	YEL	5.5
	M2B03	W	J5B13	W	YEL	11.0
	J1C11#	W	E4B04	W	YEL	9.0
WB101AR4	J5D12	W	M2B02	W	YEL	11.0
	E5B02	W	J5D12	W	YEL	7.0
	J1D11#	1	E4B02	2	YEL	12.0
	E4B02	1	E5B02	2	YEL	5.5
WB101AS4	M4D02	1	J1E11#	1	YEL	10.0
	J5D11	2	E5D02	2	YEL	8.0
	E4D02	W	E5D02	W	YEL	5.5
	M4D02	2	J5D11	2	YEL	9.0
WB101AT4	E4B05	W	J3B09	W	YEL	7.0
	E5B05	W	E4B05	W	YEL	5.5
	K1B11#	W	E5B05	W	YEL	11.0
	M2B05	2	J3B09	2	YEL	8.0
WB103AK4	J2D03	1	N1C11#	1	YEL	7.0
	G5D02	2	J2D03	2	YEL	10.0
	G5D02	1	G4D02	1	YEL	5.5
WB103AL4	H5B10	2	G5B05	2	YEL	4.5
	N1E11#	1	H5B10	1	YEL	14.0
	G4B05	1	G5B05	1	YEL	5.5
WB103AM4	H6A04#	2	F5D11	2	YEL	5.0
	H1A13#	2	F4D11	2	YEL	10.0
	F4D11	1	F5D11	1	YEL	5.5
WB103AN4	F5B05	2	R6C02#	2	YEL	12.0
	M1E13#	1	F4B05	1	YEL	12.0
	F5B05	1	F4B05	1	YEL	5.5
WB103AP4	J1B13#	1	J2B02	1	YEL	4.0
WB103AQ4	J2B03	1	J1C13#	1	YEL	4.5
WB103AR4	J1D13#	1	J2D04	1	YEL	4.5
WB103AS4	J2D05	2	K1A13#	1	YEL	4.5
WB103AT4	K1B13#	W	J4B02	W	YEL	8.0
WB105AK4	F4B09	1	H1C13#	1	YEL	10.0
	H6C04#	1	F5B09	1	YEL	6.0
	F4B09	2	F5B09	2	YEL	5.5
WB105AL4	F4D06	W	F5D06	W	YEL	5.5
	H1D13#	W	F4D06	W	YEL	9.0
	H6D04#	1	F5D06	2	YEL	6.0
WB105AM4	H6E04#	1	F5B10	2	YEL	6.0
	F4B10	2	F5B10	2	YEL	5.5
	H1E13#	1	F4B10	2	YEL	10.0
WB105AN4	J4B04	2	L1D13#	2	YEL	10.0
	F4B13	1	F5B13	2	YEL	9.0
	J4B04	W	F5B13	W	YEL	7.0
WB105AP4	G4D11	2	H4D04	2	YEL	5.0
	H4D04	W	G5D11	W	YEL	7.0
	L1D11#	1	G5D11	2	YEL	14.0
WB105AQ4	G5B09	2	L1E11#	2	YEL	13.0
	H4B04	2	G4B09	2	YEL	4.5
	G5B09	2	H4B04	2	YEL	7.0
WB105AR4	H4B05	2	G5D06	2	YEL	5.5
	G4D06	2	H4B05	2	YEL	4.0
	M1B11#	2	G5D06	2	YEL	13.0
WB105AS4	G5B10	1	M1C11#	1	YEL	14.0
	G4B10	2	H4B07	2	YEL	4.5
	G5B10	2	H4B07	2	YEL	7.0
WB105AT4	G5B13	1	G4B13	1	YEL	5.5
	H4D05	2	G5B13	2	YEL	7.0
	M1D11#	1	H4D05	1	YEL	11.0
WB107AF4	M1C13#	1	F4D02	1	YEL	11.0
	F5D02	1	F4D02	1	YEL	5.5
	E5D02#	1	E5D02	1	YEL	6.0
WB107AG4	E6E02#	1	F5B04	2	YEL	5.5
	M1A13#	W	F4B04	W	YEL	9.0
	F5B04	1	F4B04	1	YEL	5.5
WB107AH4	M1B13#	2	F4B02	2	YEL	11.0
	F5B02	2	F4B02	2	YEL	5.5
	E6C02#	1	F5B02	1	YEL	6.0
WB107AJ4	G4B04	W	G5B04	W	YEL	5.5
	M3D13	2	N1A11#	1	YEL	8.0
	F6B02#	1	G5B04	2	YEL	7.0
	G4B04	2	M3D13	2	YEL	10.0
WB107AK4	G4B02	2	M3B13	2	YEL	7.0
	G4B02	1	G5B02	1	YEL	5.5
	N1B11#	1	M3B13	1	YEL	8.0
	F6C02#	1	G5B02	2	YEL	5.5
WB107AL4	H6E02#	1	N1A13#	1	YEL	13.0
WB107AN4	K2D12	W	G4D13	W	YEL	8.0
	N1B13#	1	K2D12	1	YEL	7.0
WB201AA4	B4D02#	1	E4D07	1	YEL	6.0
WB201AB4	B4D03#	2	E4D10	2	YEL	6.0
WB201AC4	B4D05#	W	E4B12	W	YEL	5.5
WB201AD4	E4B11	2	B4D06#	1	YEL	7.0
WB201AE4	B4D07#	2	E4B07	2	YEL	5.5
WB201AF4	E4D05	2	B4D09#	2	YEL	6.0
WB201AG4	B4D10#	2	E4B03	2	YEL	6.0
WB201AH4	B4D11#	2	E4D03	2	YEL	7.0
WB201AJ4	B4D13#	2	E4D04	2	YEL	7.0
WB203AA4	C4D11#	2	G4D03	2	YEL	7.0
WB203AB4	C4D13#	2	G4D04	2	YEL	7.0
WB203AC4	B4B02#	2	F4D07	2	YEL	7.0
WB203AD4	C4B08#	2	F4D04	2	YEL	6.0
WB203AP4	B4B08#	2	D4D11	2	YEL	5.5

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

VOLTAGE PINS

P6C05	GND	Q1A13	GND	Q1B11	GND	Q1E13	GND	Q2D08	GND		
Q3D08	GND	Q4D08	GND	Q5D08	GND	Q6A04	GND	Q6B02	GND		
Q6E04	GND	R1A11	GND	R1D13	GND	R1E11	GND	R2D08	GND		
R3D08	GND	R4D08	GND	R5D08	GND	R6A02	GND	R6D04	GND		
R6E02	GND	S1C10	GND	S1D13	GND	S2D08	GND	S3D08	GND		
S4D08	GND	S5D08	GND	S6C02	GND	S6D05	GND	T1B13	GND		
T1C11	GND	T2C03	GND	T2C04	GND	T2C07	GND	T2C11	GND		
T2C12	GND	T2D08	GND	T3C03	GND	T3C04	GND	T3C07	GND		
T3C11	GND	T3C12	GND	T3D08	GND	T4C03	GND	T4C04	GND		
T4C07	GND	T4C11	GND	T4C12	GND	T4D08	GND	T5C03	GND		
T5C04	GND	T5C07	GND	T5C11	GND	T5C12	GND	T5D08	GND		
T6B04	GND	T6C02	GND	U1A13	GND	U1B11	GND	U1E13	GND		
U2C03	GND	U2C04	GND	U2C07	GND	U2C11	GND	U2C12	GND		
U2D08	GND	U2E14	GND	U3A01	GND	U3C03	GND	U3C04	GND		
U3C07	GND	U3C11	GND	U3C12	GND	U3D08	GND	U3E14	GND		
U4A01	GND	U4C03	GND	U4C04	GND	U4C07	GND	U4C11	GND		
U4C12	GND	U4D08	GND	U4E14	GND	U5A01	GND	U5C03	GND		
U5C04	GND	U5C07	GND	U5C11	GND	U5C12	GND	U5D08	GND		
U6A04	GND	U6B02	GND	U6E04	GND	V1A11	GND	V2C03	GND		
V2C04	GND	V2C07	GND	V2C11	GND	V2C12	GND	V2D08	GND		
V3C03	GND	V3C04	GND	V3C07	GND	V3C11	GND	V3C12	GND		
V3D08	GND	V4C03	GND	V4C04	GND	V4C07	GND	V4C11	GND		
V4C12	GND	V4D08	GND	V5C03	GND	V5C04	GND	V5C07	GND		
V5C11	GND	V5C12	GND	V5D08	GND	V6A02	GND				

FOR ANY VOLTAGE PIN NOT INDICATED IN THE VOLTAGE PIN LIST, USE THE NET NUMBER TO LOCATE THE ALD PAGE FOR DETERMINING THE VOLTAGE INFORMATION

END OF LIST

PART NO. 4835280 E.C. NO. 828457 VERSION DD6 SIZE SINGLE MACHINE CPU15FST LOCATION D1A-33

PIN IDD *-I/O PIN PLANESD 1-CARD SIDE SHALLOW 3-PROBE SIDE SHALLOW WIRE TYPESD YEL-YELLOW,3D, AS NTR-9D OHM TRI-LEAD
*-I/O & LOGIC 2-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW TWL-TWIN LEAD WRAP FTW-5D OHM TWIN LEAD
T-TERMINATING RES. W-DISCRETE OVERFLOW TW -TWIST PR CONNECT NTW-9D OHM TWIN LEAD
V-VOLTAGE/GROUND FTR-5D OHM TRI-LEAD CX -COAX CONNECTOR

NOTESD WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
KA312CE6	E5D07	W	U4D03	W	YEL	13.0
KA322AE2	M6E04=	1	U4D07	1	YEL	11.0
KA322AG2	U4D09	1	N6B04=	1	YEL	11.0
KA322AH6	D4B11	W	U4B05	W	YEL	13.0
KA322AJ6	D4D10	W	U4D05	W	YEL	13.0
KA322AK6	D3B08	W	U4B02	W	YEL	13.0
KA322AW6	D5D06	2	U5D09	2	YEL	14.0
KB1D1AA2	K5D06	W	V2B02	W	YEL	12.0
KB141AF4	K3B12	W	R3B09	W	YEL	8.0
KB141AJ2	K3D04	W	R5B07	W	YEL	9.0
KB141AS6	K3D13	2	G1A11=	1	YEL	10.0
KB141AW2	K4D02	W	V4D04	W	YEL	10.0
KB141BK2	K5D04	W	U4D11	W	YEL	10.0
KC1D2AJ6	S4D05	2	T2D11	2	YEL	7.0
	K5B13	2	S4D05	2	YEL	11.0
	C4B09	2	K5B13	2	YEL	10.0
KC1D2AN6	R2D09	W	S3D10	W	YEL	5.5
	S3D10	1	T5D13	2	YEL	8.0
KC1D2AP2	P1E11=	1	T5B11	1	YEL	13.0
KC1D2AU2	Q1A11=	1	T5B13	1	YEL	13.0
KC1D2AZ2	P3D03	2	T3B02	2	YEL	6.0
KC1D2CW2	T1E13=	1	T5D12	1	YEL	11.0
KC1D2CZ2	K5D07	2	G5D12	2	YEL	6.0
	T5B08	2	S5B07	2	YEL	4.5
	R5B02	1	S5B07	1	YEL	5.0
	Q4D12	2	R5B02	1	YEL	4.5
	K5D07	W	Q4D12	W	YEL	7.0
KC122AA2	P1E13=	1	T5B09	2	YEL	12.0
KC122AA6	S5B12	1	K4B10	2	YEL	12.0
	K4B10	W	U5D03	W	YEL	10.0
	V2D13	1	U5D03	2	YEL	9.0
	T2D05	2	V2D13	2	YEL	6.0
	G3D10	W	R4D09	W	YEL	10.0
	S5B12	1	G3D10	2	YEL	13.0
KC122AC2	Q1B13=	1	T3D07	1	YEL	9.0
KC122AC6	Q1C11=	1	R2B07	2	YEL	5.0
	R2B07	2	V2B10	2	YEL	9.0
	T3D05	2	V2B10	2	YEL	5.5
KC122AE2	Q1C13=	1	T4B02	2	YEL	9.0
KC122AE6	R3D04	2	T3B13	2	YEL	5.5
	Q5D04	2	V2D05	1	YEL	12.0
	R3D04	W	P4D12	W	YEL	9.0
	K4B13	W	Q5D04	W	YEL	7.0
	V2D05	2	P4D12	2	YEL	12.0
KC122AG2	Q1D13=	1	T4B12	1	YEL	11.0
KC122AG6	T2D13	2	V2B09	2	YEL	5.0
	P3B02	1	V2B09	1	YEL	9.0
	P3B02	W	S3B11	W	YEL	11.0
	S3B11	1	Q1D11=	1	YEL	8.0
KC122AJ2	R1A13=	1	T4D02	1	YEL	9.0
KC122AJ6	E4B09	2	C5D10	2	YEL	11.0
	U5D05	2	P3D02	2	YEL	11.0
	V2B13	W	U5D05	W	YEL	9.0
	C5D10	W	R3B08	W	YEL	13.0
	T4D07	2	S4D06	2	YEL	4.5
	V2B13	2	S4D06	2	YEL	9.0
	E4B09	W	P3D02	W	YEL	13.0
KC122AL2	R1B13=	1	T3D13	1	YEL	9.0
KC122AL6	R4D06	2	V2B11	2	YEL	11.0
	R4D06	2	E4D11	2	YEL	11.0
	D3D10	W	E4D11	W	YEL	9.0
	V2B11	2	T2D10	2	YEL	5.0
	G2B04	2	D3D10	1	YEL	8.0
	G2B04	W	S2D09	W	YEL	13.0
	S2D09	1	G1E11=	1	YEL	6.5
KC122AN2	R1C13=	1	T4B08	1	YEL	9.0
KC122AN6	U4D12	W	V2D09	W	YEL	9.0
	T2D07	2	V2D09	2	YEL	5.0
	Q3D09	W	U4D12	W	YEL	9.0
	K4B03	W	Q3D09	W	YEL	9.0
	P5B02	W	K4B03	W	YEL	9.0
	P5B02	2	R4B09	2	YEL	5.5
KC122AQ2	Q4D13	2	R1E13=	1	YEL	10.0
	Q4D13	2	T4D11	2	YEL	6.0
KC122AQ6	R1B11=	1	R3D12	1	YEL	8.0
	T4B11	2	V2D10	2	YEL	9.0
	R3D12	2	V2D10	2	YEL	9.0
KC122AS2	S1A13=	2	T3B12	2	YEL	8.0
KC122AS6	T3D06	2	S3B10	2	YEL	6.0
	G5B12	2	K5B07	2	YEL	6.0
	S3B10	W	V2D07	W	YEL	9.0
	N2B09	1	V2D07	1	YEL	11.0
	R4B12	W	G5B12	W	YEL	11.0
	E4D06	W	R4B12	W	YEL	11.0
	P4B13	W	E4D06	W	YEL	11.0
	N2B09	W	P4B13	W	YEL	9.0
KC122AU6	V2D06	2	R3D05	2	YEL	7.0
	R3D05	W	T4B05	W	YEL	6.0
KC132AA6	P3D04	W	T2B03	W	YEL	7.0
	N3D10	1	P3D04	2	YEL	4.5
KC132AB6	G3D13	W	N3B10	W	YEL	9.0
	N3B10	2	T2D02	2	YEL	10.0
	M3D11	W	G3D13	W	YEL	9.0
	L3B05	W	M3D11	W	YEL	9.0
	L3B05	2	P2B12	2	YEL	6.0
KC132AC6	N2D11	1	M5B07	1	YEL	9.0
	N2D11	2	T4B10	2	YEL	10.0
KC132AD6	Q5B11	2	M5B08	2	YEL	9.0
	K5B09	W	M5B08	W	YEL	5.0
	Q5B11	1	N3B03	1	YEL	10.0
	N3B03	2	S2D13	2	YEL	7.0
	S2D13	1	T4B09	1	YEL	7.0
KC132AJ2	S1A11=	1	T3B05	2	YEL	7.0
KC132AL2	T2B11	2	R3B04	2	YEL	6.0
	E3D04	W	R3B04	W	YEL	11.0
KC132AP6	M3D02	W	T3D02	W	YEL	8.0
KC132AQ2	M3D05	2	P4B12	2	YEL	7.0
	M3D05	2	T4D05	2	YEL	9.0
KC132AR6	F5D11	2	M2B11	2	YEL	13.0
	M2B11	W	T4B03	W	YEL	9.0
KC132AS2	H4D03	2	M2B13	2	YEL	7.0
	M2B13	2	T3D09	2	YEL	8.0
KC132AV6	R1D11=	1	T3B11	1	YEL	8.0
KC132AY6	K4B02	W	T3D10	W	YEL	9.0
KC132BA6	M1B11=	1	T4D09	2	YEL	13.0
KC132BC6	Q5B10	1	M1C11=	1	YEL	13.0
	T5D02	2	Q5B10	2	YEL	7.0
KC132BF6	L1D11=	2	T3B08	2	YEL	11.0
KC132BL2	N6E02=	1	T5D05	1	YEL	8.0
KC132BM6	N6C02=	1	U5B04	1	YEL	9.0
KC132BQ6	J5B04	2	T3D03	2	YEL	8.0
	K4D12	W	T2D03	W	YEL	11.0
KC132BR2	L1E11=	1	T5B03	2	YEL	13.0
KC142AB2	P3B09	W	T3D04	W	YEL	7.0
KC142AD2	P2B02	W	T4D04	W	YEL	9.0
KC142AF2	N4B05	W	T2B05	W	YEL	9.0
KC142AG2	N4D05	W	T5D07	W	YEL	8.0
KC142AL2	M3B10	W	T3B14	W	YEL	8.0
KC142AM6	S5D06	1	T4D13	1	YEL	5.0
KC142AN2	Q4D11	2	T3D11	2	YEL	8.0
	C3B07	W	Q4D11	W	YEL	12.0
	B2D11	2	C3B07	1	YEL	5.0
KC142AP6	M1D11=	W	T4B13	W	YEL	11.0
KC142AT6	K4B09	W	T4D12	W	YEL	9.0
KC142BD2	K1A13=	1	T5D11	1	YEL	13.0
KC142BK6	P2D07	W	Q5B12	W	YEL	12.0
	Q5B12	2	T4D10	2	YEL	8.0
KC142BP6	Q5D13	2	T4B07	2	YEL	7.0
	P2D09	2	Q5D13	1	YEL	11.0
KC152AD2	R4D12	2	T4D06	2	YEL	5.0
KC152AQ6	T5B04	2	M1A11=	1	YEL	13.0
KC152AR6	M1B11=	1	T3B07	1	YEL	12.0
KC152AS4	M1C11=	1	T2B07	2	YEL	8.0
KC152AT4	M1E11=	2	T2D04	2	YEL	8.0
KC1523F2	P2D10	2	T5D04	2	YEL	11.0
KD111AV6	S4B04	W	U2D03	W	YEL	13.0
	M3D06	W	S4B04	W	YEL	9.0
	S3B13	W	M3D06	W	YEL	6.0
	U2D03	2	M2D12	2	YEL	11.0
	P3B11	W	T5B05	W	YEL	8.0
	E5D05	W	P3B11	W	YEL	13.0
	M2D12	W	E5D05	W	YEL	10.0
KD111DA6	M4B09	W	P4B03	W	YEL	5.0
	M3D11	2	P4B03	1	YEL	4.5
	S3D04	2	M3D11	2	YEL	7.0
KD121A36	P4D06	2	U2B13	2	YEL	8.0
	U2B13	1	S2B13	1	YEL	5.0
KD121AC6	P2D11	2	U2D07	2	YEL	7.0
	S2B04	2	U2D07	2	YEL	5.5
KD121AF2	C1A11=	2	S3D02	2	YEL	13.0
KD121AG6	P4B09	2	S2B03	1	YEL	13.0
	R2D06	2	S2B03	2	YEL	10.0
	U2B09	2	P4B09	2	YEL	10.0
	M4D06	W	U2B09	W	YEL	9.0
	M4D06	2	S4D07	2	YEL	7.0
KD121AH6	P3B08	2	S4D12	2	YEL	7.0
	P3B08	W	U2B11	W	YEL	7.0
KD121AJ6	P3B12	2	S4B08	1	YEL	6.0
	P3B12	W	U2D10	W	YEL	8.0
KD121AK6	S4B07	W	Q5D03	W	YEL	9.0
	R4B05	W	S4B07	W	YEL	11.0
	U2B10	W	R4B05	W	YEL	9.0
	Q5D03	1	S5D13	2	YEL	6.0
	P3B13	W	U2B10	W	YEL	9.0
	N3B07	2	P3B13	2	YEL	4.5
KD121AL6	S2B05	W	U2D06	W	YEL	5.5
	U2D06	2	P3D09	2	YEL	8.0
KD121AM6	P3D10	W	U2D02	W	YEL	8.0
KD121AN6	S2B03	2	U2D02	2	YEL	5.5
	E5D12	W	U2D04	W	YEL	15.0

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

PIN ID: #-I/O PIN *-I/O & LOGIC T-TERMINATING RES. V-VOLTAGE/GROUND

PLANES: 1-CARD SIDE SHALLOW 2-PROBE SIDE SHALLOW W-DISCRETE OVERFLOW 3-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW

WIRE TYPES: YEL-YELLOW,30, AG TWL-TWIN LEAD WRAP TW -TWIST PR CONNECT FTR-50 OHM TRI-LEAD NTR-90 OHM TRI-LEAD FTW-50 OHM TWIN LEAD NTW-90 OHM TWIN LEAD CX -COAX CONNECTOR

NOTES: WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH		FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH		FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
MC221AE6	D3B09	2	A3D02#	2	YEL	7.0		C2D05	1	C1A13#	1	YEL	4.5		H6C04#	1	F5B09	1	YEL	6.0
MC221AF6	A3D03#	2	D3D11	2	YEL	7.0		B6B02#	1	C3D05	1	YEL	9.0		F4B09	2	F5BC9	2	YEL	5.5
MC221AG6	A3D05#	W	D3D06	W	YEL	5.5	RN111BS2	B6C02#	1	C3D04	1	YEL	10.0	WB105AL4	F4D06	W	F5D06	W	YEL	5.5
MC221AH6	D3B13	2	A3D06#	2	YEL	6.0		M5C02	2	C3D04	2	YEL	13.0		H1D13#	W	F4D06	W	YEL	9.0
MC221AJ6	A3D07#	2	D3B10	2	YEL	5.5		M5D02	2	C2D04	2	YEL	14.0		H6D04#	1	F5D06	2	YEL	6.0
MC221AK6	A3D09#	W	D3B04	W	YEL	5.5		C1E13#	2	C2D04	2	YEL	4.5	WB105AM4	H6EC4#	1	F5B10	2	YEL	6.0
MC221AL6	A3D10#	W	D3B02	W	YEL	5.5	WB101AK4	M2D04	2	J5B10	2	YEL	12.0		F4B10	2	F5B10	2	YEL	5.5
MC221AM6	A3D11#	1	D3D02	1	YEL	7.0		E4D11	1	H1A11#	1	YEL	11.0		H1E13#	1	F4B10	2	YEL	10.0
MC221AN6	A3D13#	W	D3B05	W	YEL	5.5		E5D11	1	E4D11	1	YEL	5.5	WB105AN4	J4B04	2	L1D13#	2	YEL	10.0
MC231AE6	A3B02#	2	C3B09	2	YEL	5.5		E5D11	W	J5B10	W	YEL	6.0		F4B13	1	F5B13	2	YEL	9.0
MC231AF6	C3D11	1	A3B04#	1	YEL	7.0	WB101AL4	J5D07	2	M2D13	2	YEL	12.0		J4B04	W	F5B13	W	YEL	7.0
MC231AG6	C3D06	2	A3B05#	2	YEL	5.5		E4B09	2	E5B09	1	YEL	5.5	WB105AP4	G4D11	2	H4D04	2	YEL	5.0
MC231AH6	A3B06#	1	C3B13	1	YEL	5.5		E5B09	W	J5D07	W	YEL	7.0		H4D04	W	G5D11	W	YEL	7.0
MC231AJ6	A3B08#	1	C3B10	2	YEL	7.0		H1B11#	W	E4B09	W	YEL	9.0		L1D11#	1	G5D11	2	YEL	14.0
MC231AK6	A3B09#	2	C3B04	2	YEL	5.5	WB101AM4	J5D04	W	M2B13	W	YEL	8.0	WB105AQ4	G5B09	2	L1E11#	2	YEL	13.0
MC231AL6	C3B02	2	A3B10#	2	YEL	6.0		E5D06	W	J5D04	W	YEL	7.0		H4B04	2	G4BC9	2	YEL	4.5
MC231AM6	C3D02	1	A3B12#	2	YEL	7.0		E4D06	1	E5D06	1	YEL	5.5		G5B09	2	H4B04	2	YEL	7.0
MC231AN6	A3B13#	2	C3B05	2	YEL	5.5		E4D06	2	H1D11#	1	YEL	11.0	WB105AR4	H4B05	2	G5D06	2	YEL	5.5
MD201AP6	E5D13	1	J6A02#	2	YEL	6.0	WB101AN4	E4B10	1	E5B10	1	YEL	5.5		G4D06	2	H4B05	2	YEL	4.0
MD221AP6	J6C02#	1	G5D13	1	YEL	5.0		E4B10	1	H1E11#	1	YEL	11.0		M1B11#	2	G5D06	2	YEL	13.0
PA111AP4	J4D09	2	V3D02	2	YEL	11.0		E5B10	2	J5D06	2	YEL	7.0	WB105AS4	G5B10	1	M1C11#	1	YEL	14.0
PA111AQ4	V3B04	2	J3B11	2	YEL	11.0		J5D06	2	M2B12	2	YEL	11.0		G4B10	2	H4B07	2	YEL	4.5
PA111AR4	J3D09	1	V3B02	1	YEL	11.0	WB101AP4	M3D02	2	J5B05	2	YEL	10.0		G5B10	2	H4B07	2	YEL	7.0
PA111AS4	J3B12	2	V3B05	2	YEL	11.0		E4B13	2	J5B05	2	YEL	7.0	WB105AT4	G5B13	1	G4B13	1	YEL	5.5
PA111AT4	J4B10	2	V3B09	2	YEL	11.0		E5B13	1	E4B13	1	YEL	5.5		H4D05	2	G5B13	2	YEL	7.0
PA111AU4	J4B12	W	V3D09	W	YEL	11.0		J1A11#	W	E5B13	W	YEL	12.0		M1D11#	1	H4D05	1	YEL	11.0
PA111AV4	J2D09	2	V3D11	2	YEL	11.0	WB101AQ4	J5B13	2	E5B04	2	YEL	7.0	WB107AF4	M1C13#	1	F4D02	1	YEL	11.0
PA111AW4	V3B10	2	J3D05	2	YEL	11.0		F4B04	1	E5B04	2	YEL	5.5		F5D02	1	F4D02	1	YEL	5.5
PA111BF4	J2B07	2	V3D05	2	YEL	11.0		M2B03	W	J5B13	W	YEL	11.0		E5D02	1	F5D02	1	YEL	6.0
PA111BG4	V3D03	2	J3D07	2	YEL	11.0		J1C11#	W	E4B04	W	YEL	9.0	WB107AG4	E6E02#	1	F5B04	2	YEL	5.5
PA111BH4	V3D06	2	J2B10	2	YEL	11.0	WB101AR4	J5D12	W	M2B02	W	YEL	11.0		M1A13#	W	F4B04	W	YEL	9.0
PA111BJ4	J2D06	2	V3D07	2	YEL	11.0		E5B02	W	J5D12	W	YEL	7.0		F5B04	1	F4B04	1	YEL	5.5
PA111BK4	J2B13	2	V3D10	2	YEL	11.0		J1D11#	1	E4B02	2	YEL	12.0	WB107AH4	M1B13#	2	F4B02	2	YEL	11.0
PA111BL4	V3D13	2	J3D11	2	YEL	11.0		E4B02	1	E5B02	2	YEL	5.5		F5B02	2	F4B02	2	YEL	5.5
PA111BM4	V3B12	2	J3B02	2	YEL	11.0	WB101AS4	M4D02	1	J1E11#	1	YEL	10.0		E6C02#	1	F5B02	1	YEL	6.0
PA111BN4	V3B13	2	J2B12	1	YEL	11.0		J5D11	2	E5D02	2	YEL	8.0	WB107AJ4	G4B04	W	G5B04	W	YEL	5.5
PC101AU4	U5D07	1	V6A04#	1	YEL	5.5		E4D02	W	E5D02	W	YEL	5.5		M3D13	2	N1A11#	1	YEL	8.0
PC101AV4	U5B09	2	V6B04#	2	YEL	5.5		M4D02	2	J5D11	2	YEL	9.0		F6B02#	1	G5B04	2	YEL	7.0
PC101AW4	T6A02#	2	U5D10	2	YEL	5.5	WB101AT4	E4B05	W	J3B09	W	YEL	7.0		G4B04	2	M3D13	2	YEL	10.0
PC101AX4	H3B11	2	U5B10	2	YEL	13.0		E5B05	W	E4B05	W	YEL	5.5	WB107AK4	G4B02	2	M3B13	2	YEL	7.0
	T6B02#	1	H3B11	2	YEL	13.0		K1B11#	W	E5B05	W	YEL	11.0		G4B02	1	G5B02	1	YEL	5.5
PC101BJ4	T6D02#	1	U5D06	2	YEL	5.5		M2B05	2	J3B09	2	YEL	8.0		N1B11#	1	M3B13	1	YEL	8.0
PC101BK4	T6E02#	1	U5B05	1	YEL	5.0	WB103AK4	J2C03	1	N1C11#	1	YEL	7.0		F6C02#	1	G5B02	2	YEL	5.5
PC101BL4	U6A02#	1	U5D05	1	YEL	5.0		G5D02	2	J2D03	2	YEL	10.0	WB107AL4	H6E02#	1	N1A13#	1	YEL	13.0
PC101BM4	U6C02#	1	U5D09	1	YEL	4.5		G5D02	1	G4D02	1	YEL	5.5	WB107AN4	K2D12	W	G4D13	W	YEL	8.0
PC101BN4	H3D12	W	U5B12	W	YEL	11.0	WB103AL4	H5B10	2	G5B05	2	YEL	4.5		N1B13#	1	K2D12	1	YEL	7.0
PC101BP4	U6D02#	2	U5D11	2	YEL	4.5		N1E11#	1	H5B10	1	YEL	14.0	WB201AA4	B4D02#	1	E4D07	1	YEL	6.0
PC101BQ4	U6E02#	1	U5D13	2	YEL	4.0		G4B05	1	G5B05	1	YEL	5.5	WB201AB4	B4D03#	2	E4D10	2	YEL	6.0
PC101BR4	U5B13	2	V6B02#	2	YEL	4.5	WB103AM4	H6A04#	2	F5D11	2	YEL	5.0	WB201AC4	B4D05#	W	E4B12	W	YEL	5.5
PC111AW4	S4B12	2	U6B04#	2	YEL	7.0		H1A13#	2	F4D11	2	YEL	10.0	WB201AD4	E4B11	2	B4D06#	1	YEL	7.0
RN111BD2	C2D03	2	M4D13	2	YEL	16.0		F4D11	1	F5D11	1	YEL	5.5	WB201AE4	B4D07#	2	E4B07	2	YEL	5.5
	C2D03	1	C1D13#	1	YEL	4.0	WB103AN4	F5B05	2	R6C02#	2	YEL	12.0	WB201AF4	E4D05	2	B4D09#	2	YEL	6.0
	A6D02#	1	C3D03	2	YEL	12.0		M1E13#	1	F4B05	1	YEL	12.0	WB201AG4	B4D10#	2	E4B03	2	YEL	6.0
	C3D03	W	M4D13	W	YEL	10.0		F5B05	1	F4B05	1	YEL	5.5	WB201AH4	B4D11#	2	E4D03	2	YEL	7.0
RN111BL6	K2D09	W	C3B03	W	YEL	9.0	WB103AP4	J1B13#	1	J2B02	1	YEL	4.0	WB201AJ4	B4D13#	2	E4D04	2	YEL	7.0
	C2B03	W	K2D09	W	YEL	9.0	WB103AQ4	J2B03	1	J1C13#	1	YEL	4.5	WB203AA4	C4D11#	2	G4D03	2	YEL	7.0
	C3B03	1	A6E02#	2	YEL	11.0	WB103AR4	J1D13#	1	J2D04	1	YEL	4.5	WB203AB4	C4D13#	2	G4D04	2	YEL	7.0
	C1B13#	1	C2B03	1	YEL	4.0	WB103AS4	J2D05	2	K1A13#	1	YEL	4.5	WB203AC4	B4B02#	2	F4D07	2	YEL	7.0
RN111BM2	M5D03	2	C3D05	2	YEL	13.0	WB103AT4	K1B13#	W	J4B02	W	YEL	8.0	WB203AD4	C4B08#	2	F4D04	2	YEL	6.0
	M5D03	1	C2D05	2	YEL	14.0	WB105AK4	F4B09	1	H1C13#	1	YEL	10.0	WB203AP4	B4B08#	2	D4D11	2	YEL	5.5

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

PIN ID: #-I/O PIN *-I/O & LOGIC T-TERMINATING RES. V-VOLTAGE/GROUND
PLANES: 1-CARD SIDE SHALLOW 2-PROBE SIDE SHALLOW 3-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW W-DISCRETE OVERFLOW
WIRE TYPES: YEL-YELLOW,30, AG TWL-TWIN LEAD WRAP TW -TWIST PR CONNECT FTR-50 OHM TRI-LEAD NTR-90 OHM TRI-LEAD FTW-50 OHM TWIN LEAD NTW-90 OHM TWIN LEAD CX -COAX CONNECTOR

NOTES: WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	LNGTH
WB203AQ4	B4B09#	2	D4B10	2	YEL	5.0
WB203AR4	B4B10#	2	D4B11	2	YEL	5.0
WB203AS4	B4B12#	2	D4D13	2	YEL	5.5
WB203AT4	B4B13#	2	D4B13	2	YEL	5.0
WB205AA4	B4B04#	W	F4D10	W	YEL	7.0
WB205AB4	B4B05#	2	F4B12	2	YEL	7.0
WB205AC4	B4B06#	W	F4B11	W	YEL	7.0
WB205AD4	C4B02#	2	F4B07	2	YEL	6.0
WB205AE4	C4D02#	2	G4D07	2	YEL	7.0
WB205AF4	C4D03#	2	G4D10	2	YEL	7.0
WB205AG4	C4D05#	2	G4B12	2	YEL	7.0
WB205AH4	C4D06#	W	G4B11	W	YEL	6.0
WB205AJ4	G4B07	2	C4D07#	2	YEL	6.0
WB207AA4	C4B06#	W	F4D03	W	YEL	6.0
WB207AB4	C4B04#	2	F4D05	2	YEL	6.0
WB207AC4	F4B03	2	C4B05#	2	YEL	5.5
WB207AD4	G4D05	2	C4D09#	2	YEL	7.0
WB207AE4	C4D10#	2	G4B03	2	YEL	7.0
WB207AF4	C4B10#	W	G4D12	W	YEL	7.0
WB301AA4	B5D02#	2	E5D07	2	YEL	6.0
WB301AB4	B5D03#	2	E5D10	2	YEL	6.0
WB301AC4	B5D05#	2	E5B12	2	YEL	6.0
WB301AD4	B5D06#	2	E5B11	2	YEL	5.5
WB301AE4	B5D07#	2	E5B07	2	YEL	5.5
WB301AF4	B5D09#	2	E5D05	2	YEL	5.5
WB301AG4	B5D10#	2	E5B03	2	YEL	6.0
WB301AH4	B5D11#	2	E5D03	2	YEL	7.0
WB301AJ4	B5D13#	2	E5D04	2	YEL	7.0
WB303AA4	G5D03	2	C5D11#	2	YEL	7.0
WB303AB4	C5D13#	1	G5D04	1	YEL	8.0
WB303AC4	F5D07	1	B5B02#	1	YEL	7.0
WB303AD4	C5B08#	2	F5D04	2	YEL	7.0
WB303AP4	B5B08#	W	G2B07	W	YEL	10.0
WB303AQ4	B5B09#	2	G2B02	2	YEL	13.0
WB303AR4	G2B03	2	B5B10#	2	YEL	13.0
WB303AS4	B5B12#	W	G2B05	W	YEL	11.0
WB303AT4	G2D05	2	B5B13#	2	YEL	13.0
WB305AA4	F5D10	2	B5B04#	2	YEL	7.0
WB305AB4	B5B05#	2	F5B12	2	YEL	7.0
WB305AC4	B5B06#	1	F5B11	2	YEL	8.0
WB305AD4	C5B02#	2	F5B07	2	YEL	6.0
WB305AE4	C5D02#	2	G5D07	2	YEL	7.0
WB305AF4	G5D10	1	C5D03#	2	YEL	8.0
WB305AG4	G5B12	2	C5D05#	2	YEL	7.0
WB305AH4	C5D06#	2	G5B11	2	YEL	6.0
WB305AJ4	C5D07#	2	G5B07	2	YEL	6.0
WB307AA4	C5B06#	W	F5D03	W	YEL	6.0
WB307AB4	F5D05	2	C5B04#	2	YEL	6.0
WB307AC4	C5B05#	2	F5B03	2	YEL	5.5
WB307AD4	C5D09#	2	G5D05	2	YEL	7.0
WB307AE4	C5D10#	2	G5B03	2	YEL	7.0
WB307AF4	G5D12	2	C5B10#	2	YEL	7.0
WB307AG4	C5B12#	2	E5D12	2	YEL	5.0
YE101AA4	E2B08	2	D2B08	2	YEL	4.5
	C2B08	2	D2B08	2	YEL	4.5
	F2B08	2	E2B08	2	YEL	4.5
	H2B08	2	F2B08	2	YEL	5.0
YE101AB4	G4B08	2	F4B08	2	YEL	4.5
	F4B08	2	E4B08	2	YEL	4.5
	E4B08	2	D4B08	2	YEL	4.5
YE101AK4	J2B08	2	F3B08	2	YEL	7.0
	E3B08	2	F3B08	2	YEL	4.5
	D3B08	W	E3B08	W	YEL	4.5
	C3B08	W	D3B08	W	YEL	4.5
YE101AL4	G5B08	2	F5B08	2	YEL	4.5
	G2B08	W	G5B08	W	YEL	9.0
	F5B08	2	E5B08	2	YEL	4.5
YE101AU4	U4B08 V	2	V4B08	2	YEL	4.5
	V4B08	1	V5B08	1	YEL	5.5
	U5B08	2	V5B08	2	YEL	4.5
	U5B08	2	S5B08	2	YEL	5.0
YE121AA2	A2B03	2	A2C03	2	YEL	4.0
YE121AA3	A2C04	2	A2D04	2	YEL	4.0
YE121AA4	A2B07	2	A2C07	2	YEL	4.0
YE121AA5	A2B11	2	A2C11	2	YEL	4.0
YE121AA6	A2C12	2	A2D12	2	YEL	4.0
YE121AB2	B2B03	2	B2C03	2	YEL	4.0
YE121AB3	B2C04	2	B2D04	2	YEL	4.0
YE121AB4	B2B07	2	B2C07	2	YEL	4.0
YE121AB5	B2B11	2	B2C11	2	YEL	4.0
YE121AB6	B2C12	2	B2D12	2	YEL	4.0
YE121AC2	A3B03	2	A3C03	2	YEL	4.0
YE121AC3	A3C04	2	A3D04	2	YEL	4.0
YE121AC4	A3B07	2	A3C07	2	YEL	4.0
YE121AC5	A3B11	2	A3C11	2	YEL	4.0
YE121AC6	A3C12	2	A3D12	2	YEL	4.0
YE121AD2	B3B03	2	B3C03	2	YEL	4.0
YE121AD4	B3B07	2	B3C07	2	YEL	4.0
YE121AD5	B3B11	2	B3C11	2	YEL	4.0
YE121AD6	B3C12	2	B3D12	2	YEL	4.0
YE121AE2	A4B03	2	A4C03	2	YEL	4.0
YE121AE3	A4C04	2	A4D04	2	YEL	4.0
YE121AE4	A4B07	2	A4C07	2	YEL	4.0
YE121AE5	A4B11	2	A4C11	2	YEL	4.0
YE121AE6	A4C12	2	A4D12	2	YEL	4.0
YE121AF2	B4B03	2	B4C03	2	YEL	4.0
YE121AF3	B4C04	2	B4D04	2	YEL	4.0
YE121AF4	B4B07	2	B4C07	2	YEL	4.0
YE121AF5	B4B11	2	B4C11	2	YEL	4.0
YE121AF6	B4C12	2	B4D12	2	YEL	4.0
YE121AG2	C4B03	2	C4C03	2	YEL	4.0
YE121AG3	C4C04	2	C4D04	2	YEL	4.0
YE121AG4	C4B07	2	C4C07	2	YEL	4.0
YE121AG5	C4B11	2	C4C11	2	YEL	4.0
YE121AG6	C4C12	2	C4D12	2	YEL	4.0
YE121AH2	A5B03 V	2	A5C03 V	2	YEL	4.0
YE121AH3	A5C04 V	2	A5D04 V	2	YEL	4.0
YE121AH4	A5B07 V	2	A5C07 V	2	YEL	4.0
YE121AH5	A5B11 V	2	A5C11 V	2	YEL	4.0
YE121AH6	A5C12 V	2	A5D12 V	2	YEL	4.0
YE121AJ2	B5B03	2	B5C03	2	YEL	4.0
YE121AJ3	B5C04	2	B5D04	2	YEL	4.0
YE121AJ4	B5B07	2	B5C07	2	YEL	4.0
YE121AJ5	B5B11	2	B5C11	2	YEL	4.0
YE121AJ6	B5C12	2	B5D12	2	YEL	4.0
YE121AK2	C5B03	2	C5C03	2	YEL	4.0
YE121AK3	C5C04	2	C5D04	2	YEL	4.0
YE121AK4	C5B07	2	C5C07	2	YEL	4.0
YE121AK5	C5B11	2	C5C11	2	YEL	4.0
YE121AK6	C5C12	2	C5D12	2	YEL	4.0
YE121AL4	C2B06	2	C2C06	2	YEL	4.0
YE121AM4	C3B06	2	C3C06	2	YEL	4.0
YE121AN4	V3B06	2	V3C06	2	YEL	4.0
YE121CB4	U4B06 V	2	U4C06 V	2	YEL	4.0
YE121CC4	V4B06	2	V4C06	2	YEL	4.0
YE121CE4	U5B06	2	U5C06	2	YEL	4.0
YE121CF4	V5B06	2	V5C06	2	YEL	4.0
YE121CG2	V3B03	2	V3C03	2	YEL	4.0
YE121CG3	V3B07	2	V3C07	2	YEL	4.0
YE121CG4	V3B11	2	V3C11	2	YEL	4.0
YE121CG5	V3C04	2	V3D04	2	YEL	4.0
YE121CG6	V3C12	2	V3D12	2	YEL	4.0
YE121CJ1	U5B07	2	U5C07	2	YEL	4.0
YE121CJ4	U5B11	2	U5C11	2	YEL	4.0
YE121CJ7	U5C12	2	U5D12	2	YEL	4.0

END OF LIST

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

PIN ID: #-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTE: 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.
A1D11#	KE251BM4	A4B03	YE121AE2	B2C04	YE121AB3	B4D02#	WB201AA4	C2B08	YE101AA4	C4D05#	WB205AG4	D2C09	MC121004
A1D13#	KC102AP2	A4B04#	KE295AW4	B2C07	YE121AB4	B4D03#	WB201AB4	C2B09	MC131AE6	C4D06#	WB205AH4	D2D10	KE251BM4
A1E11#	KE251BN4	A4B05#	KE295AX4	B2C11	YE121AB5	B4D04	YE121AF3	C2B10	MC131AJ6	C4D07#	WB205AJ4	D2D11	MC121AF6
A2B02#	MC131AE6	A4B06#	KE295AZ4	B2C12	YE121AB6	B4D05#	WB201AC4	C2B11	KD121AV2	C4DC9#	WB207AD4	D2D12	MC121012
A2B03	YE121AA2	A4B07	YE121AE4	B2D02#	MC101AE6	B4D06#	WB201AD4	C2B12	KD121AF2	C4D10#	WB207AE4	D2D13	MC121AP6
A2B04#	MC131AF6	A4B08#	KE295AU4	B2D03#	MC101AF6	B4D07#	WB201AE4	C2B13	MC131AH6	C4D11#	WB203AA4	D3B02	MC221AL6
A2B05#	MC131AG6	A4B09#	KE295BA4	B2D04	YE121AB3	B4D09#	WB201AF4	C2C06	YE121AL4	C4D12	YE121AG6	D3B03	KE251BA4
A2B06#	MC131AH6	A4B10#	KE295BB4	B2D05#	MC101AG6	B4D10#	WB201AG4	C2D02	MC131AM6	C4D13#	WB203AB4	D3B04	MC221AK6
A2B07	YE121AA4	A4B11	YE121AE5	B2D06#	MC101AH6	B4D11#	WB201AH4	C2D03	RN111BD2	C5B02#	WB305AD4	D3B05	MC221AN6
A2B08#	MC131AJ6	A4B12#	KE295BC4	B2D07#	MC101AJ6	B4D12	YE121AF6	C2D04	RN111BS2	C5BC3	YE121AK2	D3B07	KE251BC4
A2B09#	MC131AK6	A4B13#	KE295BD4	B2D09#	MC101AK6	B4D13#	WB201AJ4	C2D05	RN111BM2	C5BC4#	WB307AB4	D3B08	YE101AK4
A2B10#	MC131AL6	A4C03	YE121AE2	B2D10#	MC101AL6	B5B02#	WB303AC4	C2D06	MC131AG6	C5BC5#	WB307AC4	D3B09	MC221AE6
A2B11	YE121AA5	A4C04	YE121AE3	B2D11#	MC101AM6	B5B03	YE121AJ2	C2D07	KD121BD2	C5B06#	WB307AA4	D3B10	MC221AJ6
A2B12#	MC131AM6	A4C07	YE121AE4	B2D12	YE121AB6	B5B04#	WB305AA4	C2D09	MC131004	C5B07	YE121AK4	D3B11	KE251AY4
A2B13#	MC131AN6	A4C11	YE121AE5	B2D13#	MC101AN6	B5B05#	WB305AB4	C2D10	KC102AP2	C5BC8#	WB303AD4	D3B12	KE251BP4
A2C03	YE121AA2	A4C12	YE121AE6	B3B02#	MC211AE6	B5B06#	WB305AC4	C2D11	MC131AF6	C5B10#	WB307AF4	D3B13	MC221AH6
A2C04	YE121AA3	A4D02#	KE271AK4	B3B03	YE121AD2	B5B07	YE121AJ4	C2D12	MC131012	C5B11	YE121AK5	D3D02	MC221AM6
A2C07	YE121AA4	A4D03#	KE271AL4	B3B04#	MC211AF6	B5B08#	WB303AP4	C2D13	MC131AP6	C5B12#	WB307AG4	D3D03	KE251BB4
A2C11	YE121AA5	A4D04	YE121AE3	B3B05#	MC211AG6	B5B09#	WB303AQ4	C3B02	MC231AL6	C5B13#	MC211AN6	D3D04	KE251BC4
A2C12	YE121AA6	A4D05#	KE271AM4	B3B06#	MC211AH6	B5B10#	WB303AR4	C3B03	RN111BL6	C5C03	YE121AK2	D3D05	KE251AZ4
A2D02#	MC121AE6	A4D06#	KE271AN4	B3B07	YE121AD4	B5B11	YE121AJ5	C3B04	MC231AK6	C5C04	YE121AK3	D3D06	MC221AG6
A2D03#	MC121AF6	A4D07#	KE271AP4	B3B08#	MC211AJ6	B5B12#	WB303AS4	C3B05	MC231AN6	C5C07	YE121AK4	D3D07	KE251BN4
A2D04	YE121AA3	A4D09#	KE271AQ4	B3B09#	MC211AK6	B5B13#	WB303AT4	C3B06	YE121AM4	C5C11	YE121AK5	D3D09	MC221004
A2D05#	MC121AG6	A4D10#	KE271AR4	B3B10#	MC211AL6	B5C03	YE121AJ2	C3B07	KD121AW2	C5C12	YE121AK6	D3D10	KE251BM4
A2D06#	MC121AH6	A4D11#	KE271AS4	B3B11	YE121AD5	B5C04	YE121AJ3	C3B08	YE101AK4	C5DC2#	WB305AE4	D3D11	MC221AF6
A2D07#	MC121AJ6	A4D12	YE121AE6	B3B12#	MC211AM6	B5C07	YE121AJ4	C3B09	MC231AE6	C5D03#	WB305AF4	D3D12	MC221012
A2D09#	MC121AK6	A4D13#	KE271AT4	B3B13#	MC211AP6	B5C11	YE121AJ5	C3B10	MC231AJ6	C5DC4	YE121AK3	D3D13	MC221AP6
A2D10#	MC121AL6	A5B03 V	YE121AH2	B3C03	YE121AD2	B5C12	YE121AJ6	C3B11	KD121AV2	C5D05#	WB305AG4	D4B02	KC152AR6
A2D11#	MC121AM6	A5B07 V	YE121AH4	B3C04	YE121AD3	B5D02#	WB301AA4	C3B12	KD121AF2	C5DC6#	WB305AH4	D4B03	KE311AM2
A2D12	YE121AA6	A5B11 V	YE121AH5	B3C07	YE121AD4	B5D03#	WB301AB4	C3B13	MC231AH6	C5D07#	WB305AJ4	D4B04	KC152AC6
A2D13#	MC121AN6	A5C03 V	YE121AH2	B3C11	YE121AD5	B5D04	YE121AJ3	C3C06	YE121AM4	C5DC9#	WB307AD4	D4B08	YE101AB4
A3B02#	MC231AE6	A5C04 V	YE121AH3	B3C12	YE121AD6	B5D05#	WB301AC4	C3D02	MC231AM6	C5D10#	WB307AE4	D4B10	WB203AC4
A3B03	YE121AC2	A5C07 V	YE121AH4	B3D02#	MC201AE6	B5D06#	WB301AD4	C3D03	RN111BD2	C5D11#	WB303AA4	D4B11	WB203AR4
A3B04#	MC231AF6	A5C11 V	YE121AH5	B3D03#	MC201AF6	B5D07#	WB301AE4	C3D04	RN111BS2	C5D12	YE121AK6	D4B13	WB203AT4
A3B05#	MC231AG6	A5C12 V	YE121AH6	B3D04	YE121AD3	B5D09#	WB301AF4	C3D05	RN111BM2	C5D13#	WB303AB4	D4D02	KE311AT4
A3B06#	MC231AH6	A5D04 V	YE121AH3	B3D05#	MC201AG6	B5D10#	WB301AG4	C3D06	MC231AG6	C6A02#	KD121AF2	D4D03	KE311AS4
A3B07	YE121AC4	A5D12 V	YE121AH6	B3D06#	MC201AH6	B5D11#	WB301AH4	C3D07	KD121BD2	C6A04#	KE311AQ4	D4D04	KE311AR4
A3B08#	MC231AJ6	A6D02#	RN111BD2	B3D07#	MC201AJ6	B5D12	YE121AJ6	C3D09	MC231004	C6B02#	KD121AV2	D4D05	KE311AQ4
A3B09#	MC231AK6	A6D04#	KE401BZ6	B3D09#	MC201AK6	B5D13#	WB301AJ4	C3D10	KC102AP2	C6C02#	KD121AW2	D4D06	KE161CE4
A3B10#	MC231AL6	A6E02#	RN111BL6	B3D10#	MC201AL6	B6A04#	KE311AP4	C3D11	MC231AF6	C6D04#	KE401BU2	D4D07	KE311AM6
A3B11	YE121AC5	B1A13#	KD121BD2	B3D11#	MC201AM6	B6B02#	RN111BM2	C3D12	MC231012	C6E02#	KD141AG2	D4D10	KE311AP4
A3B12#	MC231AM6	B1B11#	KE251BP4	B3D12	YE121AD6	B6B04#	KE311AR4	C3D13	MC231AP6	D1E11#	KC122AA2	D4D11	WB203AP4
A3B13#	MC231AN6	B1B13#	KD121AF2	B3D13#	MC201AN6	B6C02#	RN111BS2	C4B02#	WB205AD4	D1E13#	KY131CF2	D4D13	WB203AS4
A3C03	YE121AC2	B1C11#	KE251BQ4	B4B02#	WB203AC4	B6C04#	KE311AS4	C4B03	YE121AG2	D2B02	MC121AL6	D6E02#	CS101AK2
A3C04	YE121AC3	B1C13#	KD121AW2	B4B03	YE121AF2	B6D02#	KD121BD2	C4B04#	WB207AB4	D2B03	KE251BA4	D6E04#	AV144AK2
A3C07	YE121AC4	B1D11#	KE251AY4	B4B04#	WB205AA4	B6E04#	KE311AT4	C4B05#	WB207AC4	D2B04	MC121AK6	E1A11#	KC122AC2
A3C11	YE121AC5	B1E13#	KD121AV2	B4B05#	WB205AB4	C1A11#	KE251AZ4	C4B06#	WB207AA4	D2B05	MC121AN6	E1B13#	KA101AS2
A3C12	YE121AC6	B2B02#	MC111AE6	B4B06#	WB205AC4	C1A13#	RN111BM2	C4B07	YE121AG4	D2B07	KE251BQ4	E1C11#	KC122AE2
A3D02#	MC221AE6	B2B03	YE121AB2	B4B07	YE121AF4	C1B11#	KE251BA4	C4B08#	WB203AD4	D2B08	YE101AA4	E1C13#	KD141AG2
A3D03#	MC221AF6	B2B04#	MC111AF6	B4B08#	WB203AP4	C1B13#	RN111BL6	C4B10#	WB207AF4	D2BC9	MC121AE6	E1D11#	KC122AG2
A3D04	YE121AC3	B2B05#	MC111AG6	B4B09#	WB203AQ4	C1C11#	KE251BB4	C4B11	YE121AG5	D2B10	MC121AJ6	E1D13#	KE261AT2
A3D05#	MC221AG6	B2B06#	MC111AH6	B4B10#	WB203AR4	C1D13#	RN111BD2	C4B13#	MC111AN6	D2B11	KE251AY4	E1E11#	KC122AJ2
A3D06#	MC221AH6	B2B07	YE121AB4	B4B11	YE121AF5	C1E11#	KE251BC4	C4C03	YE121AG2	D2B12	KE251BP4	E2B02	MC111AL6
A3D07#	MC221AJ6	B2B08#	MC111AJ6	B4B12#	WB203AS4	C1E13#	RN111BS2	C4C04	YE121AG3	D2B13	MC121AH6	E2B03	KA232BL6
A3D09#	MC221AK6	B2B09#	MC111AK6	B4B13#	WB203AT4	C2B02	MC131AL6	C4C07	YE121AG4	D2D02	MC121AM6	E2B04	MC111AK6
A3D10#	MC221AL6	B2B10#	MC111AL6	B4C03	YE121AF2	C2B03	RN111BL6	C4C11	YE121AG5	D2D03	KE251BB4	E2B05	MC111AN6
A3D11#	MC221AM6	B2B11	YE121AB5	B4C04	YE121AF3	C2B04	MC131AK6	C4C12	YE121AG6	D2D04	KE251BC4	E2B07	KE261AT2
A3D12	YE121AC6	B2B12#	MC111AM6	B4C07	YE121AF4	C2B05	MC131AN6	C4D02#	WB205AE4	D2D05	KE251AZ4	E2B08	YE101AA4
A3D13#	MC221AN6	B2B13#	MC111AP6	B4C11	YE121AF5	C2B06	YE121AL4	C4D03#	WB205AF4	D2D06	MC121AG6	E2B09	MC111AE6
A4B02#	KE295AV4	B2C03	YE121AB2	B4C12	YE121AF6	C2B07	KD121AW2	C4D04	YE121AG3	D2D07	KE251BN4	E2B10	MC111AJ6

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATICN 01A-B2

PIN ID: #-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTE: 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NC.	PIN	NET NC.
E2B11	KB141AS6	E5B04	WB101AQ4	F3B08	YE101AK4	F5D13	MD211AP6	G5B13	WB105AT4	H3D07	KE261AL6	J2B08	YE101AK4
E2B12	KD141AG2	E5B05	WB101AT4	F3B09	MC201AE6	F6A04#	AV144AP2	G5D02	WB103AK4	H3DC9	KA202DE4	J2B09	KE295BB4
E2B13	MC111AH6	E5B07	WB301AE4	F3B10	MC201AJ6	F6B02#	WB107AJ4	G5D03	WB303AA4	H3D1C	KE281AP2	J2B10	PA111BH4
E2D02	MC111AM6	E5B08	YE101AL4	F3B11	KC122AJ2	F6B04#	AV144AQ2	G5D04	WB303AB4	H3D11	KE201AY2	J2B11	KE271AP4
E2D03	KA222BS6	E5B09	WB101AL4	F3B12	KC122AE2	F6C02#	WB107AK4	G5D05	WB307AD4	H3D12	PC101BN4	J2B12	PA111BN4
E2D04	CR101BD2	E5B10	WB101AN4	F3B13	MC201AH6	F6C04#	AV144AR2	G5D06	WB105AR4	H4B02	KE295BC4	J2B13	PA111BK4
E2D05	KC102AU2	E5B11	WB301AD4	F3D02	MC201AM6	F6D02#	KA2328L6	G5D07	WB305AE4	H4B03	AV144AN2	J2D02	KE121AH2
E2D06	MC111AG6	E5B12	WB301AC4	F3D03	KC122AQ2	F6E04#	AV144AS2	G5D09	MD221C11	H4B04	WB105AQ4	J2D03	WB103AK4
E2D07	KA101AS2	E5B13	WB101AP4	F3D04	KC122AS2	G1A11#	KC122AS2	G5D10	WB305AF4	H4B05	WB105AR4	J2D04	WB103AR4
E2D09	MC111004	E5D02	WB101AS4	F3D05	KC122AL2	G1A13#	KC102CW2	G5D11	WB105AP4	H4B07	WB105AS4	J2D05	WB103AS4
E2D10	KY131CF2	E5D03	WB301AH4	F3D06	MC201AG6	G2B02	WB303AQ4	G5D12	WB307AF4	H4BC9	KC122AC6	J2D06	PA111BJ4
E2D11	MC111AF6	E5D04	WB301AJ4	F3D07	KC122AC2	G2B03	WB303AR4	G5D13	MD221AP6	H4B10	AV144AS2	J2D07	KE401BV6
E2D12	KC102CW2	E5D05	WB301AF4	F3D09	MC201004	G2B05	WB303AS4	G6A02#	KB141AS6	H4B11	AV144AT2	J2D09	PA111AV4
E2D13	MC111AP6	E5D06	WB101AM4	F3D10	KC122AA2	G2B07	WB303AP4	G6A04#	AV144AT2	H4B12	AV144AR2	J2D10	KE271AM4
E3B02	MC211AL6	E5D07	WB301AA4	F3D11	MC201AF6	G2B08	YE101AL4	H1A11#	WB101AK4	H4B13	KE271AN4	J2D11	KE121AK2
E3B03	KA232BL6	E5D09	MD201011	F3D12	MC201012	G2B11	KE311AP4	H1A13#	WB103AM4	H4D02	KE281AS2	J2D12	KE271AS4
E3B04	MC211AK6	E5D10	WB301AB4	F3D13	MC201AP6	G2B12	KE161CE4	H1B11#	WB101AL4	H4D03	KE261AT2	J2D13	KE121AM2
E3B05	MC211AN6	E5D11	WB101AK4	F4B02	WB107AH4	G2B13	KE401BU2	H1C13#	WB105AK4	H4D04	WB105AP4	J3B02	PA111BM4
E3B07	KE261AT2	E5D12	WB307AG4	F4B03	WB207AC4	G2D02	KE401BZ6	H1D11#	WB101AM4	H4D05	WB105AT4	J3B03	KC152AR6
E3B08	YE101AK4	E5D13	MD201AP6	F4B04	WB107AG4	G2D05	WB303AT4	H1D13#	WB105AL4	H4D07	AV144AL2	J3B04	KE121AN2
E3B09	MC211AE6	E6B04#	AV144AL2	F4B05	WB103AN4	G3B05	KE401BV6	H1E11#	WB101AN4	H4D10	KE271AP4	J3B05	KC152AC6
E3B10	MC211AJ6	E6C02#	WB107AH4	F4B07	WB205AD4	G3B07	KC152AR6	H1E13#	WB105AM4	H4D11	KA202AX6	J3B07	KE121AJ2
E3B11	KB141AS6	E6C04#	AV144AM2	F4B08	YE101AB4	G3B10	KE311AQ4	H2B02	KE271BB2	H4D12	KC132BR2	J3B08	KE295AX4
E3B12	KD141AG2	E6D02#	WB107AF4	F4B09	WB105AK4	G3B11	KE401BV2	H2B03	KE295BA4	H5B02	KE271AM4	J3B09	WB101AT4
E3B13	MC211AH6	E6D04#	AV144AN2	F4B10	WB105AM4	G3B12	KE311AR4	H2B04	KE281AQ2	H5B03	AV144AC2	J3B10	KE295AZ4
E3D02	MC211AM6	E6E02#	WB107AG4	F4B11	WB205AC4	G3B13	KE311AT4	H2B05	KE295AZ4	H5B04	KC122AL6	J3B11	PA111AC4
E3D03	KA222BS6	F1A13#	KB141AS6	F4B12	WB205AB4	G3D05	KC152AQ6	H2B07	KE251BP4	H5B05	KC122AC6	J3B12	PA111AS4
E3D04	CR101BD2	F1B11#	KC122AL2	F4B13	WB105AN4	G3D11	KE311AS4	H2B08	YE101AA4	H5BC9	KE295AW4	J3B13	KC152AS4
E3D05	KC102AU2	F1B13#	KC102AU2	F4D02	WB107AK4	G4B02	WB107AF4	G4B02	WB107AK4	H2B09	KE251AZ4	H5B10	WB103AL4	J3D02	KE271AC4
E3D06	MC211AG6	F1C11#	KC122AN2	F4D03	WB207AA4	G4B03	WB207AE4	H2B10	KE251BA4	H5B11	KC132AJ2	J3D03	KE121AL2
E3D07	KA101AS2	F1C13#	KA232BL6	F4D04	WB203AD4	G4B04	WB107AJ4	H2B11	KE251BM4	H5B12	KE271AW2	J3D04	KE121AQ2
E3D09	MC211004	F1D11#	KC122AQ2	F4D05	WB207AB4	G4B05	WB103AL4	H2B12	KE271AX2	H5B13	KE295AV4	J3D05	PA111AW4
E3D10	KY131CF2	F1E13#	KA222BS6	F4D06	WB105AL4	G4B07	WB205AJ4	H2B13	KE271AY2	H5D04	KC142BD2	J3D06	KE271AN4
E3D11	MC211AF6	F2B02	MC101AL6	F4D07	WB203AC4	G4B08	YE101AB4	H2D02	KE271BA2	H5D05	AV144AM2	J3D07	PA111BC4
E3D12	KC102CW2	F2B03	KC122AN2	F4D09	MD111011	G4B09	WB105AQ4	H2D03	KC142AG6	H5D07	KC122AG6	J3D09	PA111AR4
E3D13	MC211AP6	F2B04	MC101AK6	F4D10	WB205AA4	G4B10	WB105AS4	H2D04	KE281AT2	H5DC9	KE281AL2	J3D10	KE295BA4
E4B02	WB101AR4	F2B05	MC101AN6	F4D11	WB103AM4	G4B11	WB205AH4	H2D05	KE295BD4	H5D10	KC132BA6	J3D11	PA111BL4
E4B03	WB201AG4	F2B07	KC122AG2	F4D12	MC111AN6	G4B12	WB205AG4	H2D06	KE295BB4	H5D11	KE281AM2	J3D12	KE295AW4
E4B04	WB101AQ4	F2B08	YE101AA4	F4D13	MD111AP6	G4B13	WB105AT4	H2D07	KE251BQ4	H5D12	KE295AX4	J3D13	KE161AM6
E4B05	WB101AT4	F2B09	MC101AE6	F5B02	WB107AH4	G4D02	WB103AK4	H2D09	KE251BN4	H5D13	KE281AK2	J4B02	WB103AT4
E4B07	WB201AE4	F2B10	MC101AJ6	F5B03	WB307AC4	G4D03	WB203AA4	H2D10	KE281AR2	H6A02#	KE161CC6	J4B03	KE161CE4
E4B08	YE101AB4	F2B11	KC122AJ2	F5B04	WB107AG4	G4D04	WB203AB4	H2D11	KE251BB4	H6A04#	WB103AM4	J4B04	WB105AN4
E4B09	WB101AL4	F2B12	KC122AE2	F5B05	WB103AN4	G4D05	WB207AD4	H2D12	KE271AU2	H6B02#	KE201AY2	J4B05	KE271AR4
E4B10	WB101AN4	F2B13	MC101AH6	F5B07	WB305AD4	G4D06	WB105AR4	H2D13	KE271AL4	H6C04#	WB105AK4	J4B07	KC132BC6
E4B11	WB201AD4	F2D02	MC101AM6	F5B08	YE101AL4	G4D07	WB205AE4	H3B02	KE271AZ2	H6D02#	KE261AL6	J4B08	KC152AT4
E4B12	WB201AC4	F2D03	KC122AQ2	F5B09	WB105AK4	G4D09	MD121011	H3B03	KE271BD2	H6D04#	WB105AL4	J4B09	KE271AK4
E4B13	WB101AP4	F2D04	KC122AS2	F5B10	WB105AM4	G4D10	WB205AF4	H3B04	KE271AR4	H6E02#	WB107AL4	J4B10	PA111AT4
E4D02	WB101AS4	F2D05	KC122AL2	F5B11	WB305AC4	G4D11	WB105AP4	H3B05	AV144AK2	H6E04#	WB105AM4	J4B11	KE271AL4
E4D03	WB201AH4	F2D06	MC101AG6	F5B12	WB305AB4	G4D12	WB207AF4	H3B07	KE251AY4	J1A11#	WB101AP4	J4B12	PA111AU4
E4D04	WB201AJ4	F2D07	KC122AC2	F5B13	WB105AN4	G4D13	WB107AN4	H3B08	KE271BC2	J1B13#	WB103AP4	J4D02	KE161CC6
E4D05	WB201AF4	F2D09	MC101004	F5D02	WB107AF4	G5B02	WB107AK4	H3B09	KE271AS4	J1C11#	WB101AQ4	J4D03	KE121AP2
E4D06	WB101AM4	F2D10	KC122AA2	F5D03	WB307AA4	G5B03	WB307AE4	H3B10	KE271AT4	J1C13#	WB103AQ4	J4D04	KE161BE4
E4D07	WB201AA4	F2D11	MC101AF6	F5D04	WB303AD4	G5B04	WB107AJ4	H3B11	PC101AX4	J1D11#	WB101AR4	J4D05	KE121AR2
E4D09	MD101011	F2D12	MC101012	F5D05	WB307AB4	G5B05	WB103AL4	H3B12	KE295AU4	J1D13#	WB103AR4	J4D07	KE161AQ2
E4D10	WB201AB4	F2D13	MC101AP6	F5D06	WB105AL4	G5B07	WB305AJ4	H3B13	AV144AP2	J1E11#	WB101AS4	J4D09	PA111AP4
E4D11	WB101AK4	F3B02	MC201AL6	F5D07	WB303AC4	G5B08	YE101AL4	H3D02	KE271AQ4	J2B02	WB103AP4	J4D10	KE295AV4
E4D12	MD101010	F3B03	KC122AN2	F5D09	MD211011	G5B09	WB105AQ4	H3D03	KE271AK4	J2B03	WB103AQ4	J4D11	KE295BC4
E4D13	MD101AP6	F3B04	MC201AK6	F5D10	WB305AA4	G5B10	WB105AS4	H3D04	KE251BC4	J2B04	KE311AM6	J5B02	KE161AM2
E5B02	WB101AR4	F3B05	MC201AN6	F5D11	WB103AM4	G5B11	WB305AH4	H3D05	KC132AV6	J2BC5	KE295AL4	J5B03	KE141AW6
E5B03	WB301AG4	F3B07	KC122AG2	F5D12	MC211AN6	G5B12	WB305AG4	H3D06	KE281AN2	J2B07	PA111BF4	J5B05	WB101AP4

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

PIN ID: #-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTE: 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.
J5B09	KE311AT4	K4D12	KT201AN6	M3D10	KT571AG6	N6A02#	KC152AQ6	U5B10	PC101AX4	V4B10	KT201AS6		
J5B10	WB101AK4	K4D13	KT201AG6	M3D11	KT551BA2	N6A04#	KE121AN2	U5B11	YE121CJ4	V4B11	KT201AR6		
J5B11	KE311AS4	K5B02	KA212AW2	M3D12	KT571AL4	N6B02#	KC152AR6	U5B12	PC101BN4	V4B13	KT201AC6		
J5B12	KE311AP4	K5B05	KT201AQ6	M3D13	WB107AJ4	N6B04#	KE121AP2	U5B13	PC101BR4	V4C06	YE121CC4		
J5B13	WB101AQ4	K5B09	KT201AR6	M4B02	KC122AQ2	N6C02#	KC152AS4	U5C06	YE121CE4	V4D02	KT201AG6		
J5D02	KE311AR4	K5B11	AV144AL2	M4B03	KT601AN6	N6D04#	KE121AQ2	U5C07	YE121CJ1	V4D03	KT201AD6		
J5D03	KE161AT2	K5B12	AV144AQ2	M4B04	KT551BE2	N6E02#	KC152AT4	U5C11	YE121CJ4	V4D04	KT201AC6		
J5D04	WB101AM4	K5B13	KT201AS6	M4B05	KE251AY4	N6E04#	KE121AR2	U5C12	YE121CJ7	V4D05	KT201AN6		
J5D06	WB101AN4	K5D02	KA212AY2	M4B07	KT571AM6	P6E02#	KC102AP2	U5D02	KE271BC2	V4D06	PB131008		
J5D07	WB101AL4	K5D06	KT201AJ6	M4B08	KE251BM4	P6E04#	KC122AA2	U5D03	KE271BD2	V4D07	KT201AH6		
J5D10	KC132BF6	K5D07	KT201AP6	M4B09	KT551AG6	Q6A02#	KC102AU2	U5D04	PC101002	V4D09	KT201AP6		
J5D11	WB101AS4	K5D10	AV144AN2	M4B10	KT551AH6	Q6B04#	KC122AC2	U5D05	PC101BL4	V4D10	KT201AU6		
J5D12	WB101AR4	K5D11	KT201AU6	M4B11	KT551AF6	Q6C02#	KC122AC6	U5D06	PC101BJ4	V4D13	KT201AT6		
J5D13	KE311AQ4	K5D12	KA212AX2	M4B12	KT561AH2	Q6C04#	KC122AE2	U5D07	PC101AU4	V5B02	KE281AK2		
J6A02#	MD201AP6	K5D13	KT201AT6	M4B13	KT611AV6	Q6D02#	KC122AG6	U5D09	PC101BM4	V5B05	KE281AM2		
J6B04#	KY131CF2	K6A04#	KC142BD2	M4D02	WB101AS4	Q6D04#	KC122AG2	U5D10	PC101AW4	V5B06	YE121CF4		
J6C02#	MD221AP6	K6B02#	KA212AY2	M4D03	KT551BA2	Q6E02#	KC122AL6	U5D11	PC101BP4	V5B07	KE281AL2		
J6C04#	KE161AQ2	K6B04#	KE141AW6	M4D04	KE251AZ4	R6A04#	KC122AJ2	U5D12	YE121CJ7	V5B08	YE101AU4		
J6D02#	KA212AX2	L1D11#	WB105AP4	M4D05	KD141AG2	R6B02#	KC122AQ6	U5D13	PC101BQ4	V5B09	KE271AW2		
J6D04#	KE161CE4	L1D13#	WB105AN4	M4D06	KE251BC4	R6B04#	KC122AL2	U6A02#	PC101BL4	V5B10	KE271BA2		
J6E02#	KA212AW2	L1E11#	WB105AQ4	M4D07	KE251BN4	R6C02#	WB103AN4	U6B04#	PC111AW4	V5B11	KE271AX2		
K1A13#	WB103AS4	L6D02#	KC132BF6	M4D09	KE251BC4	R6C04#	KC122AN2	U6C02#	PC101BM4	V5B13	KE271AY2		
K1B11#	WB101AT4	L6D04#	KE121AH2	M4D10	KE251BB4	R6D02#	KC132AV6	U6C04#	KA222BS6	V5C06	YE121CF4		
K1B13#	WB103AT4	L6E02#	KC132BR2	M4D11	KE251BA4	R6E04#	KC122AQ2	U6D02#	PC101BP4	V5D02	KE281AQ2		
K2B07	KT561BR4	M1A13#	WB107AG4	M4D12	KE251BP4	S2B02	KT701AF2	U6D04#	KE161AT2	V5D03	KE281AN2		
K2B13	KT561BJ6	M1B11#	WB105AR4	M4D13	RN111BD2	S2D02	KT701AH6	U6E02#	PC101BQ4	V5D04	KE281AP2		
K2D06	KT621AT6	M1B13#	WB107AH4	M5B02	KD121AV2	S2D04	KT701AJ6	V3B02	PA111AR4	V5D05	KE271AZ2		
K2D09	RN111BL6	M1C11#	WB105AS4	M5B03	KD121AW2	S2D05	KT701AK6	V3B03	YE121CG2	V5D06	KE281AR2		
K2D10	KT621BE2	M1C13#	WB107AF4	M5B04	KE261AT2	S2D07	KT701AA4	V3B04	PA111AQ4	V5D07	KE281AS2		
K2D12	WB107AN4	M1D11#	WB105AT4	M5B05	KT551AN2	S4B03	CR101BD2	V3B05	PA111AS4	V5D09	KE271AU2		
K2D13	KT561AC2	M1E13#	WB103AN4	M5B07	KT561AE2	S4B05	CR101AD4	V3B06	YE121AN4	V5D10	KE281AT2		
K3B02	KT571AE2	M2B02	WB101AR4	M5B08	KT621BE2	S4B12	PC111AW4	V3B07	YE121CG3	V5D13	KE271BB2		
K3B03	KT561AE2	M2B03	WB101AQ4	M5B09	KD121AF2	S4B13	CR101BC2	V3B09	PA111AT4	V6AC4#	PC101AU4		
K3B04	KT561AH2	M2B04	KT521AH6	M5B10	KT571AE2	S4D03	CR101AD5	V3B10	PA111AW4	V6B02#	PC101BR4		
K3B05	KT611AV6	M2B05	WB101AT4	M5B11	KT561BJ6	S4D04	CR101BC6	V3B11	YE121CG4	V6B04#	PC101AV4		
K3B07	KC102CW2	M2B10	KT571AL4	M5B13	KT571AB6	S4D05	CS101AK2	V3B12	PA111BM4				
K3B09	KC122AA2	M2B11	KT571AA6	M5D02	RN111BS2	S4D13	CR101001	V3B13	PA111BN4				
K3B10	KT601AN6	M2B12	WB101AN4	M5D03	RN111BM2	S5B08	YE101AU4	V3C03	YE121CG2				
K3B11	KT551AH6	M2B13	WB101AM4	M5D04	KC132BC6	S5B09	KA101AS2	V3C04	YE121CG5				
K3B12	KT601AH6	M2D02	KT571AL4	M5D05	KT561AM6	S5D07	KA101AT2	V3C06	YE121AN4				
K3B13	KT601AH6	M2D03	KT571AG6	M5D06	KD121BD2	S6A02#	KC132AJ2	V3C07	YE121CG3				
K3D02	KT571AR2	M2D04	WB101AK4	M5D07	KC122AL2	S6A04#	KC122AS2	V3C11	YE121CG4				
K3D03	KT561AM6	M2D05	KT571AL4	M5D09	KT621AT6	T6A02#	PC101AW4	V3C12	YE121CG6				
K3D04	KT551AN2	M2D06	KT571AM6	M5D10	KT571AA6	T6A04#	KA101AT2	V3D02	PA111AP4				
K3D05	KT551AG6	M2D07	KT571AL4	M5D11	KT561AC2	T6B02#	PC101AX4	V3D03	PA111BG4				
K3D06	KC132BC6	M2D09	KT511AH6	M5D12	KT561BR4	T6C04#	KA202AX6	V3D04	YE121CG5				
K3D07	KA232BL6	M2D10	KT571AB6	M6A04#	KE121AJ2	T6D02#	PC101BJ4	V3D05	PA111BF4				
K3D09	KT551AF6	M2D12	KT571AL4	M6B02#	KC132BA6	T6D04#	KA202DE4	V3D06	PA111BH4				
K3D10	KT621AZ2	M2D13	WB101AL4	M6B04#	KE121AK2	T6E02#	PC101BK4	V3D07	PA111BJ4				
K3D11	KT521AH6	M3B02	KT571AL4	M6C02#	KC132BC6	T6E04#	KC102CW2	V3D09	PA111AU4				
K3D13	KT701AK6	M3B03	KT501AH6	M6C04#	KE121AL2	U4B06 V	YE121CB4	V3D10	PA111BK4				
K4B02	AV144AP2	M3B08	KT501AH6	M6D02#	KC142AP6	U4B08 V	YE101AU4	V3D11	PA111AV4				
K4B04	AV144AK2	M3B09	KT571AR2	M6E04#	KE121AM2	U4C06 V	YE121CB4	V3D12	YE121CG6				
K4B07	KT201AE6	M3B11	KT571AL4	N1A11#	WB107AJ4	U5B02	PC101001	V3D13	PA111BL4				
K4B09	AV144AR2	M3B12	KT621AZ2	N1A13#	WB107AL4	U5B04	PC101AL4	V4B02	KT201AJ6				
K4B12	KT201AC6	M3B13	WB107AK4	N1B11#	WB107AK4	U5B05	PC101BK4	V4B05	KT201AE6				
K4B13	KT201AF6	M3D02	WB101AP4	N1B13#	WB107AN4	U5B06	YE121CE4	V4B06	YE121CC4				
K4D02	AV144AM2	M3D03	KT511AH6	N1C11#	WB103AK4	U5B07	YE121CJ1	V4B07	KT201AF6				
K4D10	KT201AD6	M3D07	KT571AQ2	N1E11#	WB103AL4	U5B08	YE101AU4	V4B08	YE101AU4				
K4D11	KT201AH6	M3D09	KT571AL4	N1E13#	CR101BD2	U5B09	PC101AV4	V4B09	PB131013				

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

VOLTAGE PINS

A2C06	-4.0	A3C06	-4.0	A4C06	-4.0	A5C06	-4.0	B2A14	-4.0
B2C06	-4.0	B3A14	-4.0	B3C06	-4.0	B3E01	-4.0	B4A14	-4.0
B4C06	-4.0	B4E01	-4.0	B5C06	-4.0	B5E01	-4.0	C2C06	-4.0
C3C06	-4.0	C4C06	-4.0	C5C06	-4.0	D1B13	-4.0	D1C10	-4.0
D2B06	-4.0	D3B06	-4.0	D4B06	-4.0	D5B06	-4.0	D6B05	-4.0
D6C02	-4.0	E3B06	-4.0	E3B06	-4.0	E4B06	-4.0	E5B06	-4.0
F2B06	-4.0	F3B06	-4.0	F4B06	-4.0	F5B06	-4.0	G1C13	-4.0
G1D10	-4.0	G2B06	-4.0	G3B06	-4.0	G4B06	-4.0	G5B06	-4.0
G6C05	-4.0	G6D02	-4.0	H2B06	-4.0	H3B06	-4.0	H4B06	-4.0
H5B06	-4.0	J2B06	-4.0	J3B06	-4.0	J4B06	-4.0	J5B06	-4.0
K1E13	-4.0	K2B06	-4.0	K3B06	-4.0	K4B06	-4.0	K5B06	-4.0
K6E05	-4.0	L1A10	-4.0	L2B06	-4.0	L3B06	-4.0	L4B06	-4.0
L5B06	-4.0	L6A02	-4.0	M2B06	-4.0	M3B06	-4.0	M4B06	-4.0
M5B06	-4.0	N2B06	-4.0	N3B06	-4.0	N4B06	-4.0	N5B06	-4.0
P1B13	-4.0	P1C10	-4.0	P2B06	-4.0	P3B06	-4.0	P4B06	-4.0
P5B06	-4.0	P6B05	-4.0	P6C02	-4.0	Q2B06	-4.0	Q3B06	-4.0
Q4B06	-4.0	Q5B06	-4.0	R2B06	-4.0	R3B06	-4.0	R4B06	-4.0
R5B06	-4.0	S1C13	-4.0	S1D10	-4.0	S2B06	-4.0	S3B06	-4.0
S4B06	-4.0	S5B06	-4.0	S6C05	-4.0	S6D02	-4.0	T2C06	-4.0
T3C06	-4.0	T4C06	-4.0	T5C06	-4.0	U2A14	-4.0	U2C06	-4.0
U3A14	-4.0	U3C06	-4.0	U3E01	-4.0	U4A14	-4.0	U4C06	-4.0
U4E01	-4.0	U5C06	-4.0	U5E01	-4.0	V2C06	-4.0	V3C06	-4.0
V4C06	-4.0	V5C06	-4.0						
A1E13	GND	A2C03	GND	A2C04	GND	A2C07	GND	A2C11	GND
A2C12	GND	A2D08	GND	A3C03	GND	A3C04	GND	A3C07	GND
A3C11	GND	A3C12	GND	A3D08	GND	A4C03	GND	A4C04	GND
A4C07	GND	A4C11	GND	A4C12	GND	A4D08	GND	A5C03	GND
A5C04	GND	A5C07	GND	A5C11	GND	A5C12	GND	A5D08	GND
A6E04	GND	B1A11	GND	B1D13	GND	B1E11	GND	B2C03	GND
B2C04	GND	B2C07	GND	B2C11	GND	B2C12	GND	B2D08	GND
B2E14	GND	B3A01	GND	B3C03	GND	B3C04	GND	B3C07	GND
B3C11	GND	B3C12	GND	B3D08	GND	B3E14	GND	B4A01	GND
B4C03	GND	B4C04	GND	B4C07	GND	B4C11	GND	B4C12	GND
B4D08	GND	B4E14	GND	B5A01	GND	B5C03	GND	B5C04	GND
B5C07	GND	B5C11	GND	B5C12	GND	B5D08	GND	B6A02	GND
B6D04	GND	B6E02	GND	C1C13	GND	C1D11	GND	C2C03	GND
C2C04	GND	C2C07	GND	C2C11	GND	C2C12	GND	C2D08	GND
C3C03	GND	C3C04	GND	C3C07	GND	C3C11	GND	C3C12	GND
C3D08	GND	C4C03	GND	C4C04	GND	C4C07	GND	C4C11	GND
C4C12	GND	C4D08	GND	C5C03	GND	C5C04	GND	C5C07	GND
C5C11	GND	C5C12	GND	C5D08	GND	C6C04	GND	C6D02	GND
D1B10	GND	D1C13	GND	D2D08	GND	D3D08	GND	D4D08	GND
D5D08	GND	D6B02	GND	D6C05	GND	E1A13	GND	E1B11	GND
E1E13	GND	E2D08	GND	E3D08	GND	E4D08	GND	E5D08	GND
E6A04	GND	E6B02	GND	E6E04	GND	F1A11	GND	F1D13	GND
F1E11	GND	F2D08	GND	F3D08	GND	F4D08	GND	F5D08	GND
F6A02	GND	F6D04	GND	F6E02	GND	G1C10	GND	G1D13	GND
G2D08	GND	G3D08	GND	G4D08	GND	G5D08	GND	G6C02	GND
G6D05	GND	H1B13	GND	H1C11	GND	H2D08	GND	H3D08	GND
H4D08	GND	H5D08	GND	H6B04	GND	H8C02	GND	J1A13	GND
J1B11	GND	J1E13	GND	J2D08	GND	J3D08	GND	J4D08	GND
J5D08	GND	J6A04	GND	J6B02	GND	J6E04	GND	K1A11	GND
K1E10	GND	K2D08	GND	K3D08	GND	K4D08	GND	K5D08	GND
K6A02	GND	K6E02	GND	L1A13	GND	L1E13	GND	L2D08	GND
L3D08	GND	L4D08	GND	L5D08	GND	L6A05	GND	L6E04	GND
M1A11	GND	M1D13	GND	M1E11	GND	M2D08	GND	M3D08	GND
M4D08	GND	M5D08	GND	M6A02	GND	M6D04	GND	M6E02	GND
N1C13	GND	N1D11	GND	N2D08	GND	N3D08	GND	N4D08	GND
N5D08	GND	N6C04	GND	N6D02	GND	P1B10	GND	P1C13	GND
P2D08	GND	P3D08	GND	P4D08	GND	P5D08	GND	P6B02	GND

PART NO. 5554814 E.C. NO. 824887 VERSION 000 SIZE SINGLE MACHINE CPUSM15 LOCATION 01A-B2

VOLTAGE PINS

P6C05	GND	Q1A13	GND	Q1B11	GND	Q1E13	GND	Q2D08	GND		
Q3D08	GND	Q4D08	GND	Q5D08	GND	Q6A04	GND	Q6B02	GND		
Q6E04	GND	R1A11	GND	R1D13	GND	R1E11	GND	R2D08	GND		
R3D08	GND	R4D08	GND	R5D08	GND	R6A02	GND	R6D04	GND		
R6E02	GND	S1C10	GND	S1D13	GND	S2D08	GND	S3D08	GND		
S4D08	GND	S5D08	GND	S6C02	GND	S6D05	GND	T1B13	GND		
T1C11	GND	T2C03	GND	T2C04	GND	T2C07	GND	T2C11	GND		
T2C12	GND	T2D08	GND	T3C03	GND	T3C04	GND	T3C07	GND		
T3C11	GND	T3C12	GND	T3D08	GND	T4C03	GND	T4C04	GND		
T4C07	GND	T4C11	GND	T4C12	GND	T4D08	GND	T5C03	GND		
T5C04	GND	T5C07	GND	T5C11	GND	T5C12	GND	T5D08	GND		
T6B04	GND	T6C02	GND	U1A13	GND	U1B11	GND	U1E13	GND		
U2C03	GND	U2C04	GND	U2C07	GND	U2C11	GND	U2C12	GND		
U2D08	GND	U2E14	GND	U3A01	GND	U3C03	GND	U3C04	GND		
U3C07	GND	U3C11	GND	U3C12	GND	U3D08	GND	U3E14	GND		
U4A01	GND	U4C03	GND	U4C04	GND	U4C07	GND	U4C11	GND		
U4C12	GND	U4D08	GND	U4E14	GND	U5A01	GND	U5C03	GND		
U5C04	GND	U5C07	GND	U5C11	GND	U5C12	GND	U5D08	GND		
U6A04	GND	U6B02	GND	U6E04	GND	V1A11	GND	V2C03	GND		
V2C04	GND	V2C07	GND	V2C11	GND	V2C12	GND	V2D08	GND		
V3C03	GND	V3C04	GND	V3C07	GND	V3C11	GND	V3C12	GND		
V3D08	GND	V4C03	GND	V4C04	GND	V4C07	GND	V4C11	GND		
V4C12	GND	V4D08	GND	V5C03	GND	V5C04	GND	V5C07	GND		
V5C11	GND	V5C12	GND	V5D08	GND	V6A02	GND				

FOR ANY VOLTAGE PIN NOT INDICATED IN THE VOLTAGE PIN LIST, USE THE NET NUMBER TO LOCATE THE ALD PAGE FOR DETERMINING THE VOLTAGE INFORMATION

END OF LIST

PART NO. 4835280 E.C. NO. 828457 VERSION DD6 SIZE SINGLE MACHINE CPJ15FST LOCATION D1A-33

PIN IDO #-I/O PIN PLANESD 1-CARD SIDE SHALLOW 3-PROBE SIDE SHALLOW WIRE TYPESD YEL-YELLOW,3D, AS NTR-9J OHM TRI-LEAD
#-I/O & LOGIC 2-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW TWL=TWIN LEAD WRAP FTW-5J OHM TWIN LEAD
T-TERMINATING RES. W-DISCRETE OVERFLOW TW -TWIST PR CONNECT NTW-9J OHM TWIN HEAD
V-VOLTAGE/GROUND FTR-5J OHM TRI-LEAD CX -COAX CONNECTOR

NOTESD WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
AB131AK4	S5B05	2	Q4D03	2	YEL	6.0
AB131AV6	Q3D04	W	U5B09	W	YEL	9.0
AB141AA2	K4B11	W	Q5D02	W	YEL	7.0
AB151AK4	C3D10	2	B3D05	2	YEL	5.0
	H5D04	1	Q2B05	2	YEL	13.0
	B3D05	W	H5D04	W	YEL	9.0
AB151AL4	C3D11	2	H5D09	2	YEL	12.0
	B2D10	2	Q2B02	2	YEL	13.0
	B2D10	W	H5D09	W	YEL	10.0
AB151AM4	B2D09	W	Q2D04	W	YEL	12.0
	H5B07	W	B2D09	W	YEL	10.0
	C2D05	W	H5B07	W	YEL	10.0
AB151AN4	B2B09	W	Q2B10	W	YEL	12.0
	H5D03	W	B2B09	W	YEL	10.0
	C3D05	W	H5D03	W	YEL	9.0
AB151AY4	H2D07	W	Q2D02	W	YEL	8.0
	B2B13	2	C3D02	2	YEL	5.0
	B2B13	2	H2D07	1	YEL	11.0
AB151AZ4	B2D13	2	H2B02	2	YEL	9.0
	H2B02	1	Q2B04	2	YEL	10.0
	C3D13	2	B2D13	2	YEL	6.0
AB151BA4	B3D06	2	H2D13	2	YEL	13.0
	H2D13	W	Q2D03	W	YEL	9.0
	B3DD6	W	C4D09	W	YEL	6.0
AB151BB4	H2B03	W	Q2B09	W	YEL	8.0
	C2D10	W	B3B05	W	YEL	5.0
	H2B03	1	B3B05	1	YEL	11.0
AB151BC4	C2DD4	2	B3B02	2	YEL	6.0
	B3B02	W	H4D04	W	YEL	8.0
	Q2D13	1	H4D04	2	YEL	12.0
AB241AA2	C5D09	W	Q2D12	W	YEL	13.0
AB241AB2	C5B07	W	Q2B07	W	YEL	13.0
AB241AC2	C5B08	W	Q3D02	W	YEL	13.0
AB241AD2	C5D07	W	Q3B03	W	YEL	12.0
AB241AE2	C5D05	W	Q3B07	W	YEL	12.0
AB241AF2	C2B11	W	Q2D10	W	YEL	12.0
AB241AG2	C2D06	W	Q2D09	W	YEL	12.0
AB241AH2	C2D07	W	Q2B13	W	YEL	11.0
AB241AJ2	C2D11	W	Q3B04	W	YEL	11.0
AV122AL2	H5B05	2	N5D06	2	YEL	7.0
AV132BA6	H2B12	1	Q3D06	2	YEL	9.0
AV132BB2	H3B11	2	K3B09	2	YEL	5.0
AV142AN6	H5D06	W	Q2B12	W	YEL	10.0
AV142AP6	H3B09	W	Q2D11	W	YEL	9.0
AV142AQ6	H3DD6	W	Q2D06	W	YEL	9.0
AV142AR6	H3D11	W	Q3D03	W	YEL	8.0
AV142AT6	H3B08	W	Q3D05	W	YEL	9.0
AV142AU6	H3B12	W	Q2B11	W	YEL	9.0
AV142AV6	H3D04	W	Q2D07	W	YEL	9.0
AV142AW6	H3D10	W	Q2D05	W	YEL	9.0
AV142AX2	H5B08	W	N4D12	W	YEL	8.0
AV142AY2	H2D04	W	N5B03	W	YEL	10.0
AV162AM6	H4B13	W	M2D11	W	YEL	9.0
AV182AM6	H2D12	W	M3B11	W	YEL	7.0
AV202AM6	N5B12	1	M2D09	1	YEL	10.0
	H4D12	W	N5B12	W	YEL	7.0
AV222AM6	M3B09	1	N5B02	1	YEL	7.0
	E3B09	2	H2B05	2	YEL	9.0
	E3B09	W	M3B09	W	YEL	8.0
AV232AA2	E4D05	2	J5B04	2	YEL	8.0
	G5D05	1	H5B03	1	YEL	4.5
	N3D07	W	G5D05	W	YEL	11.0
	L5B10	W	N3D07	W	YEL	9.0
	E4D05	W	L5B10	W	YEL	9.0
	D2D07	W	J5B04	W	YEL	10.0
AV232AB2	J5B03	2	N4B09	1	YEL	9.0
	E2B05	2	D4D02	2	YEL	7.0
	L5B11	W	N4B09	W	YEL	9.0
	G4B13	2	H5B02	2	YEL	4.5
	G4B13	W	L5B11	W	YEL	9.0
	E2B05	W	J5B03	W	YEL	11.0
AV232AC2	L5B12	W	H4D13	W	YEL	6.0
	J5D03	W	L5B12	W	YEL	9.0
	D3D07	2	E2B13	2	YEL	5.0
	E2B13	W	J5D03	W	YEL	11.0
AV232AD2	H5D02	1	L5B13	1	YEL	7.0
	N5D09	W	E3D12	W	YEL	11.0
	J5B02	2	H5D02	2	YEL	4.0
	J5B02	W	N5D09	W	YEL	9.0
	D3D06	W	J5B02	W	YEL	8.0
AV232AE2	N5D11	1	L5B05	1	YEL	9.0
	D3B09	W	J4D10	W	YEL	8.0
	H2B11	2	E2D03	2	YEL	6.0
	J4D10	1	N5D11	2	YEL	10.0
	E2D03	W	L5B05	W	YEL	11.0
AV232AF2	E4D02	2	J4D09	2	YEL	7.0
	H2B09	W	L5B07	W	YEL	9.0
	E4D02	1	L5B07	1	YEL	13.0
	D2D04	W	N5D02	W	YEL	12.0
	N5D02	1	J4D09	1	YEL	12.0
AV232AG2	L5D07	W	H2B09	W	YEL	9.0
	E3D11	W	L5D07	W	YEL	9.0
	D2D02	W	J4D07	W	YEL	9.0
	E3D11	1	J4D07	2	YEL	8.0
AV232AH2	J4D05	W	D2B12	W	YEL	8.0
	L5D09	W	J4D05	W	YEL	9.0
	H2B07	2	E2B02	1	YEL	6.0
	E2B02	W	L5D09	W	YEL	11.0
AV232AJ2	L3D06	W	J5B11	W	YEL	9.0
	D2D06	2	J5B11	1	YEL	12.0
	L3D06	1	H2D11	2	YEL	7.0
AV232AK2	D1E13=	W	H4B12	W	YEL	10.0
AV232AL2	E1B13=	1	H4B11	2	YEL	11.0
AV232AM2	E1C13=	1	H4D09	1	YEL	11.0
AV232AN2	E1D13=	1	H4B10	1	YEL	10.0
AV232AP2	F1A13=	1	H2D05	2	YEL	6.0
AV232AQ2	F1B13=	1	H2D03	1	YEL	5.5
AV232AR2	F1C13=	1	H2B04	1	YEL	5.5
AV232AS2	F1E13=	1	H2D02	1	YEL	5.0
AV232AT2	G1A13=	2	H2D06	2	YEL	5.5
CS101AK2	D1E11=	1	U3D07	2	YEL	14.0
KA101AT2	T1A13=	2	T4D13	2	YEL	9.0
KA202AN2	K3B05	W	R3D03	W	YEL	8.0
KA202AW6	G4B03	W	U2B05	W	YEL	12.0
	R4B03	2	U2B05	1	YEL	9.0
	G4B03	2	E4D09	2	YEL	5.0
KA202AX6	M3D10	2	S4D02	2	YEL	9.0
	T1C13=	2	P3B04	2	YEL	9.0
	Q4D04	2	G2D12	2	YEL	11.0
	K3B04	W	S4D02	W	YEL	9.0
	G5D05	1	H5B03	1	YEL	4.5
	N3D07	W	G5D05	W	YEL	11.0
	L5B10	W	N3D07	W	YEL	9.0
	E4D05	W	L5B10	W	YEL	9.0
	D2D07	W	J5B04	W	YEL	10.0
	J5B03	2	N4B09	1	YEL	9.0
	E2B05	2	D4D02	2	YEL	7.0
	L5B11	W	N4B09	W	YEL	9.0
	G4B13	2	H5B02	2	YEL	4.5
	G4B13	W	L5B11	W	YEL	9.0
	E2B05	W	J5B03	W	YEL	11.0
	L5B12	W	H4D13	W	YEL	6.0
	J5D03	W	L5B12	W	YEL	9.0
	D3D07	2	E2B13	2	YEL	5.0
	E2B13	W	J5D03	W	YEL	11.0
	H5D02	1	L5B13	1	YEL	7.0
	N5D09	W	E3D12	W	YEL	11.0
	J5B02	2	H5D02	2	YEL	4.0
	J5B02	W	N5D09	W	YEL	9.0
	D3D06	W	J5B02	W	YEL	8.0
	N5D11	1	L5B05	1	YEL	9.0
	D3B09	W	J4D10	W	YEL	8.0
	H2B11	2	E2D03	2	YEL	6.0
	J4D10	1	N5D11	2	YEL	10.0
	E2D03	W	L5B05	W	YEL	11.0
	E4D02	2	J4D09	2	YEL	7.0
	H2B09	W	L5B07	W	YEL	9.0
	E4D02	1	L5B07	1	YEL	13.0
	D2D04	W	N5D02	W	YEL	12.0
	N5D02	1	J4D09	1	YEL	12.0
	L5D07	W	H2B09	W	YEL	9.0
	E3D11	W	L5D07	W	YEL	9.0
	D2D02	W	J4D07	W	YEL	9.0
	E3D11	1	J4D07	2	YEL	8.0
	J4D05	W	D2B12	W	YEL	8.0
	L5D09	W	J4D05	W	YEL	9.0
	H2B07	2	E2B02	1	YEL	6.0
	E2B02	W	L5D09	W	YEL	11.0
	L3D06	W	J5B11	W	YEL	9.0
	D2D06	2	J5B11	1	YEL	12.0
	L3D06	1	H2D11	2	YEL	7.0
	D1E13=	W	H4B12	W	YEL	10.0
	E1B13=	1	H4B11	2	YEL	11.0
	E1C13=	1	H4D09	1	YEL	11.0
	E1D13=	1	H4B10	1	YEL	10.0
	F1A13=	1	H2D05	2	YEL	6.0
	F1B13=	1	H2D03	1	YEL	5.5
	F1C13=	1	H2B04	1	YEL	5.5
	F1E13=	1	H2D02	1	YEL	5.0
	G1A13=	2	H2D06	2	YEL	5.5
	D1E11=	1	U3D07	2	YEL	14.0
	T1A13=	2	T4D13	2	YEL	9.0
	K3B05	W	R3D03	W	YEL	8.0
	G4B03	W	U2B05	W	YEL	12.0
	R4B03	2	U2B05	1	YEL	9.0
	G4B03	2	E4D09	2	YEL	5.0
	M3D10	2	S4D02	2	YEL	9.0
	T1C13=	2	P3B04	2	YEL	9.0
	Q4D04	2	G2D12	2	YEL	11.0
	K3B04	W	S4D02	W	YEL	9.0
KA202BA2	N4B04	2	R4D07	2	YEL	6.0
KA202BC6	N3B11	W	R3D13	W	YEL	6.0
KA202BF6	G3B11	W	S5B09	W	YEL	11.0
KA202DD6	R4J08	W	U5J08	W	YEL	7.0
KA202DE4	T1D13=	1	R5B04	1	YEL	11.0
KA212AA2	U3D03	1	R5D06	2	YEL	8.0
KA212AW2	J1E11=	1	R2D13	1	YEL	10.0
KA212AX2	J1D11=	1	R2D12	2	YEL	10.0
KA212AY2	R2D03	2	K1B11=	1	YEL	9.0
KA212BA2	R4B10	2	S4B07	2	YEL	4.5
KA222AK6	R4D02	1	V4B02	2	YEL	6.0
KA222BG2	R2D07	1	S4B03	1	YEL	7.0
KA222BH2	U3B07	W	U5B03	W	YEL	7.0
	T2D09	2	U3B07	2	YEL	5.5
	T2D09	2	R2B09	2	YEL	5.0
KA222BK6	S2D03	W	R5D11	W	YEL	10.0
	S2D03	2	V2B07	2	YEL	5.5
KA222BS6	R5B09	1	U1C13=	1	YEL	12.0
KA232AB2	R3D06	W	U3D02	W	YEL	5.5
KA232AG6	R5313	1	T5D10	2	YEL	5.5
KA232AS2	R3312	2	U3B03	2	YEL	5.0
	U3B03	1	T5B10	2	YEL	8.0
KA232BL6	F1D11=	1	R3313	1	YEL	13.0
KA242AA2	T2302	W	U5311	W	YEL	10.0
	N2B12	2	R3B05	2	YEL	5.0
	T2B02	2	N2B12	2	YEL	8.0
KA242AB6	K4D13	W	R5D10	W	YEL	8.0
	E3303	W	M4305	W	YEL	9.0
	K4D13	2	L4B07	2	YEL	5.0
	L4B07	2	M4B05	2	YEL	5.0
KA242AC2	S3B02	2	R3302	2	YEL	4.5
	U3305	2	S3302	2	YEL	5.0
	P4B07	2	U3305	2	YEL	8.0
KA242AD2	R3B11	2	U3D04	2	YEL	5.0
KA242AR6	N2D09	2	R2B11	2	YEL	5.5
KA242BD2	R2310	2	T2D12	2	YEL	5.5
KA242BS2	R5D09	2	S5B10	2	YEL	4.0
KA242BT6	N3D05	2	R2D11	2	YEL	5.0
KA312AF2	R5D05	2	U5B10	2	YEL	5.5
KA312AW6	K4305	W	U5D02	W	YEL	10.0
KA312AJ6	N2310	2	R3307	2	YEL	7.0
	R3B07	2	U5D06	2	YEL	8.0
KA312BF6	E3B05	2	U5B13	2	YEL	17.0
KA3123G6	K4D07	W	J4311	W	YEL	9.0
KA3123R2	K5D05	W	U5D07	W	YEL	10.0
	K5D05	2	R3D10	2	YEL	11.0
KA3123S2	R4D13	2	U5B05	1	YEL	5.5
KA3123Y6	E2309	W	U5307	W	YEL	14.0

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION D1A-33

PIN IDD #-I/O PIN PLANESD 1-CARD SIDE SHALLOW 3-PROBE SIDE SHALLOW WIRE TYPESD YEL-YELLOW,30, AG NTR-90 OHM TRI-LEAD
*-I/O & LOGIC 2-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW TWL-TWIN LEAD WRAP FTW-50 OHM TWIN LEAD
T-TERMINATING RES. W-DISCRETE OVERFLOW TW -TWIST PR CONNECT NTW-90 OHM TWIN HEAD
V-VOLTAGE/GROUND FTR-50 OHM TRI-LEAD CX -COAX CONNECTOR

NOTESD WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
KG141BB6	N4D03	1	Q3B11	2	YEL	5.0
	F4D13	W	Q3B11	W	YEL	10.0
KG141BC6	Q4B03	1	F4B11	2	YEL	13.0
	N2D10	W	Q4B03	W	YEL	7.0
KG141BD6	N3B13	2	Q4B09	2	YEL	19.0
	F3D11	W	Q4B09	W	YEL	10.0
KG141BE6	F3B08	W	Q4B07	W	YEL	10.0
	N4B02	2	Q4B07	2	YEL	5.0
KG141BF6	N2D07	W	Q4B12	W	YEL	8.0
	F3D05	2	Q4B12	2	YEL	12.0
KL101AY2	C5D06	W	P2B10	W	YEL	12.0
KL101AZ4	L2B02	W	P4B05	W	YEL	8.0
KL101BB4	P4B10	2	L2D05	1	YEL	8.0
KL101BC2	L2D03	W	P5B04	W	YEL	10.0
KL111BE2	C5B13	1	K5D12	1	YEL	9.0
	M3B02	2	P2B07	2	YEL	5.5
	N4D06	2	Q5B13	2	YEL	7.0
	S3D13	2	M3B02	2	YEL	9.0
	S3D13	2	N4D06	2	YEL	7.0
KL111BJ2	C4B07	W	P5B10	W	YEL	11.0
KL111BK2	C4D07	W	P5D11	W	YEL	11.0
KL111BL2	L3D03	W	P5D07	W	YEL	8.0
	G3D05	W	L3D03	W	YEL	7.0
	E2D05	2	G3D05	2	YEL	7.0
KL111BP2	P4B08	1	Q5B08	2	YEL	5.5
KL121AS2	C5B10	W	P2B05	W	YEL	13.0
KL131AN0	R2D05	W	P5B13	W	YEL	10.0
	E2D13	W	U2B07	W	YEL	13.0
	D2B10	2	E2D13	2	YEL	5.0
	R2D05	2	U2B07	2	YEL	6.0
KL131AV4	C5D03	2	L4B04	2	YEL	13.0
	L4B04	W	P2B09	W	YEL	7.0
KL131AW4	C5D12	1	L4B05	1	YEL	13.0
	L4B05	W	P2B13	W	YEL	7.0
KL131BA4	C5B05	W	L2D06	W	YEL	11.0
	L2D06	2	P2D04	1	YEL	7.0
KL131SA4	L2D04	W	C5D13	W	YEL	12.0
	L2D04	2	P2D03	2	YEL	5.5
KM101AZ6	L3B13	2	P5D13	2	YEL	9.0
KM111AG2	C2D03	W	L2D02	W	YEL	9.0
KM111AS2	F5D09	2	L4D05	2	YEL	9.0
KM121AA2	E2D04	W	L5B04	W	YEL	10.0
KM151AB2	L2B07	W	G5D07	W	YEL	10.0
KM161AH6	K6B02=	2	L4B03	2	YEL	8.0
KM161AP2	L5B09	1	J6B04=	1	YEL	6.0
KM161AQ2	J6C04=	2	L5D05	2	YEL	7.0
KM161AR2	J6C02=	1	L5D06	2	YEL	6.0
KM161AS2	J6D04=	2	L5B08	2	YEL	5.5
KM161AU2	J6D02=	1	L5D13	1	YEL	5.0
KM161AV2	J6E02=	2	L5D10	2	YEL	5.0
KM161AW2	L5D11	1	K6A04=	1	YEL	5.5
KM161AX2	K6B04=	2	L5D12	2	YEL	5.0
KM161AY2	E2D09	2	D2B09	2	YEL	5.0
	E2D09	W	L3B09	W	YEL	8.0
	D2B09	W	U2B02	W	YEL	13.0
KM161AZ2	D2D13	2	E2B10	2	YEL	5.0
	E2B10	W	U2D09	W	YEL	13.0
	D2D13	W	L4B13	W	YEL	9.0
KM161BA2	D2B13	2	E3D09	2	YEL	6.0
	E3D09	W	L5D02	W	YEL	9.0
	D2B13	W	U2D13	W	YEL	14.0
KM171BV2	L3D11	W	R4D04	W	YEL	7.5
KN101AK2	G3D12	W	N3D09	W	YEL	8.0
KN101AT2	K5D02	2	G5D11	2	YEL	6.0
	D3B07	W	K5D02	W	YEL	9.0
KN101AU2	G5D10	2	K4D06	2	YEL	9.0
	D2D11	W	K4D06	W	YEL	9.0
KN101BA6	G4D07	W	S2D05	W	YEL	11.0
KN101BJ6	G2B11	W	K3B13	W	YEL	7.0
KN101BL2	G5B05	1	K5D03	2	YEL	8.0
	D2D12	W	K5D03	W	YEL	10.0
KN101BN2	D2B11	W	K5B02	W	YEL	10.0
	G4D04	2	K5B02	2	YEL	7.0
KN111AJ2	G3B13	W	K5B08	W	YEL	7.0
KN111AL2	G5B13	W	S5B11	W	YEL	10.0
KN111AM2	L2D09	W	G5D09	W	YEL	10.0
KN111AN2	G2B12	W	N5D03	W	YEL	10.0
	N5D03	2	S5D11	2	YEL	7.0
KN111AP2	D4D05	2	G5B08	2	YEL	7.0
KN111BB2	G5B11	2	S3D12	2	YEL	11.0
KN111BK2	G4B08	W	S3B12	W	YEL	10.0
KN121AN6	G3B08	W	L3D12	W	YEL	7.0
KN121AP6	D5B02	W	G5D02	W	YEL	6.0
KN121AQ6	D5B07	2	G5B04	2	YEL	5.5
KN121AX6	D2B02	W	G4D09	W	YEL	9.0
KN121AY6	G4B12	W	U4B04	W	YEL	12.0
KN121BA2	G2B05	W	E5D09	W	YEL	10.0
KN121BC6	G2B07	1	D2D10	2	YEL	5.5
KN121BD6	D2D09	W	G4D05	W	YEL	8.0
KN121BE6	G4B11	1	E4B12	2	YEL	5.0
KN121BF6	G2D07	W	E5D13	W	YEL	10.0
KN121BN2	E4B02	W	G4D13	W	YEL	6.0
KN121BU2	E3B10	W	G3D02	W	YEL	5.5
KN121BV2	E3B07	W	G5D13	W	YEL	9.0
KN131AG6	G2D02	W	M4B02	W	YEL	9.0
KN131AH6	G2D06	W	S3B09	W	YEL	10.0
KN131AJ6	G2B10	W	N4D07	W	YEL	9.0
KN131AM6	G2B13	W	R4B04	W	YEL	10.0
KN131AW2	G4B02	W	U4B10	W	YEL	12.0
KN131AX2	G4D03	W	U4D10	W	YEL	12.0
KN131AZ2	G4B09	W	P3B03	W	YEL	9.0
KP102AR6	E4B08	W	S3D11	W	YEL	12.0
KP102AX2	E5B02	2	G3D04	2	YEL	8.0
KP102BG2	E2B04	2	G3B02	2	YEL	5.5
KP122AV6	B3B04	W	E3B11	W	YEL	6.0
KP122AW6	B3D03	2	E4B11	2	YEL	7.0
KP132AN2	C3B02	W	E4B05	W	YEL	6.0
KP132AP2	C4B05	W	E4B07	W	YEL	5.0
KP132BJ2	E3B02	W	C4B04	W	YEL	6.0
KP132BK2	C3D09	2	E3D03	1	YEL	5.0
KP132BX2	E2B07	1	C2B12	1	YEL	5.0
KP132BY2	E4B03	W	C5B09	W	YEL	7.0
KP142BJ2	E4D13	W	D5D12	W	YEL	5.5
KP142BM6	E2D12	W	D3B11	W	YEL	5.5
KP142BN6	E3D05	W	D5B11	W	YEL	8.0
KP142BP6	E2B11	W	D5D09	W	YEL	9.0
KP142BQ6	D4B09	W	E5B04	W	YEL	5.0
KP142BR6	D4D12	W	E5B12	W	YEL	5.5
KP142BS6	D5B04	2	E5B07	2	YEL	4.5
KP142BT6	D5D04	2	E5B05	2	YEL	4.0
KP152AD2	E2D11	W	C4D04	W	YEL	8.0
KP152AE6	B2B07	W	E5D06	W	YEL	10.0
KP152AG2	B3D04	W	E4B10	W	YEL	7.0
KP152AH2	E2D02	W	B4B02	W	YEL	8.0
	B4B02	2	E3B08	2	YEL	5.0
KR242AA2	D3D04	W	E5B12	W	YEL	7.0
KR242AA7	D3D05	W	E4B13	W	YEL	7.0
KR242AC2	D4B07	2	E5B10	2	YEL	5.0
KR242AC7	D4D03	W	E5B12	W	YEL	7.0
KR252AA2	D4B04	W	E4D06	W	YEL	5.5
KR252AA7	D4B05	2	E4B14	2	YEL	5.0
KR252AC2	D4B02	W	E5D02	W	YEL	6.0
KR252AC7	D3D11	2	E5B03	1	YEL	7.0
KR262AE2	D2D05	1	F3D04	2	YEL	6.0
KR262AL2	C3D11	1	L4D06	1	YEL	5.0
	N5B07	2	L4D05	2	YEL	7.0
	D4D07	2	S4D11	2	YEL	5.0
	M2D02	W	N5B07	W	YEL	10.0
	G4D11	W	C3D11	W	YEL	7.0
KY101AG6	M3312	W	N5D10	W	YEL	7.0
KY101AL2	H4D07	W	M4D09	W	YEL	7.0
KY101AP6	H4B07	W	M3B07	W	YEL	7.0
KY101AQ6	H4B08	W	M2B07	W	YEL	8.0
KY101AS6	H4304	W	M5D10	W	YEL	8.0
KY111AH2	N3B04	2	M4D05	2	YEL	5.5
	N3B04	2	S3D06	2	YEL	7.0
KY111BW4	M2B09	W	T2B09	W	YEL	8.0
KY121AL2	H4D06	W	M4312	W	YEL	5.0
KY121AN6	H4D11	W	M2D04	W	YEL	9.0
	E3D07	W	H4D11	W	YEL	7.0
KY121AP6	M5313	1	H5B13	2	YEL	5.0
KY121AQ6	H4D10	W	N4D10	W	YEL	7.0
	M5B12	2	N4D10	2	YEL	5.0
KY121AZ6	H5D11	W	N4D09	W	YEL	8.0
	M5D03	2	N4D09	2	YEL	5.0
KY131BD2	M3304	W	H5D07	W	YEL	8.0
KY131BE2	M3B03	W	H5D13	W	YEL	9.0
KY131BX2	M2B02	W	K4D11	W	YEL	9.0
KY131CF2	U5D11	2	J1B13=	1	YEL	13.0
	M2304	2	U5D11	2	YEL	13.0
MA122AQ4	D4D06	2	B5B13	2	YEL	8.0
	D4D06	1	A6D04=	1	YEL	9.0
MA122AR4	B6A04=	2	D4D04	2	YEL	9.0
	D4D04	2	B5D02	2	YEL	7.0
MA122AS4	C6E04=	1	B4B10	2	YEL	8.0
MA122BA4	D2D03	1	B5D13	1	YEL	11.0
	D2D03	1	B6B04=	1	YEL	12.0
MA122B34	B6C04=	W	D2B03	W	YEL	11.0
	B2D12	2	D2B03	2	YEL	5.5
MA122BC4	B6E04=	1	D3B10	1	YEL	9.0
	D3B10	2	B3D02	2	YEL	5.5
MA127AA2	C6A04=	1	D3B12	1	YEL	9.0
	B4D07	2	D3B12	2	YEL	5.5
MA127AB2	C6B04=	1	D3B13	1	YEL	8.0
	D3B13	2	B3B08	2	YEL	5.0
MA127AC2	C6D04=	1	D2B04	1	YEL	11.0
	B4D04	2	D2B04	2	YEL	8.0
MA127AD2	A6D02=	W	D3B05	W	YEL	9.0
	B4B12	2	D3B05	2	YEL	8.0
MA127AE2	A6E02=	W	D3D02	W	YEL	10.0

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPJ15FST LOCATION 01A-33

PIN IDS #-I/O PIN *-I/O & LOGIC T-TERMINATING RES. V-VOLTAGE/GROUND
PLANES 1-CARD SIDE SHALLOW 2-PROBE SIDE SHALLOW 3-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW W-DISCRETE OVERFLOW
WIRE TYPES YEL-YELLOW,30, AG TWL-TWIN LEAD WRAP TW -TWIST PR CONNECT FTR-50 OHM TRI-LEAD NTR-90 OHM TRI-LEAD FTW-50 OHM TWIN LEAD NTW-90 OHM TWIN HEAD CX -COAX CONNECTOR
NOTES WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
	B2B11	2	D3D02	2	YEL	5.5
MA127AF2	B6B02=	1	D3B03	1	YEL	11.0
	B2D03	1	D3B03	1	YEL	7.0
MA127AG2	B6C02=	1	D3B04	2	YEL	10.0
	D3B04	2	B5D04	2	YEL	8.0
MA127AH2	B6D02=	1	D3D03	2	YEL	10.0
	D3D03	2	B2B02	2	YEL	7.0
MA127AJ2	D3D09	1	C6A02=	1	YEL	9.0
	B2B03	2	D3D09	2	YEL	8.0
MA127AK2	D4D13	1	C6B02=	1	YEL	7.0
	B3D10	2	D4D13	2	YEL	7.0
MA127AL2	D5D02	1	C6C02=	1	YEL	6.0
	B5D05	2	D5D02	2	YEL	5.0
MA127AM2	B5D03	2	C6E02=	1	YEL	6.0
MA132AH4	B4B11	W	K5D10	W	YEL	9.0
MA152AA6	B4D05	W	D5D07	W	YEL	6.0
MA152AB6	B5B09	2	D5B05	2	YEL	5.0
MA152AC6	B4B03	2	D4B08	2	YEL	5.0
MA152AD6	B4B04	W	D5B13	W	YEL	7.0
MA152AE6	B3B09	W	D5B10	W	YEL	8.0
MA152AF6	B4B05	W	D4312	W	YEL	5.5
MA152AR6	G2B02	W	D5B03	W	YEL	10.0
	D5B03	1	B3B11	2	YEL	12.0
MA152AS6	D4B03	W	B5B12	W	YEL	7.0
	D4B03	2	G3D11	2	YEL	6.0
MA252AM2	C3B13	W	K3D02	W	YEL	9.0
MA262AG2	C3B12	W	E4D04	W	YEL	5.5
MA262AH2	E2B12	W	C4B10	W	YEL	7.0
MA262AR2	B4B08	W	C4D11	W	YEL	4.5
MA262AS2	C4D03	W	B4D10	W	YEL	5.0
MA262AW2	E2D07	W	C5B12	W	YEL	10.0
MA282AM6	C5B03	W	V5D02	W	YEL	15.0
MA282AN6	C2D12	W	V5D03	W	YEL	15.0
MA282AU2	C2B13	2	L3D02	2	YEL	9.0
MA282AX6	C5D11	W	V5B02	W	YEL	14.0
MB104AA4	D4B13	W	Q3B08	W	YEL	11.0
	A3B12	W	B4D11	W	YEL	5.5
	B4D11	2	D4B13	2	YEL	5.0
	A3B12	2	C3B03	2	YEL	6.0
MB104AB4	D5D03	W	Q3B09	W	YEL	11.0
	A3B11	2	B2B04	1	YEL	7.0
	D5D03	2	A3B11	1	YEL	10.0
	B2B04	2	C2B09	2	YEL	4.5
MB104AC4	C2B10	2	B2D02	2	YEL	5.0
	A3D13	1	B2D02	1	YEL	8.0
	D5D05	W	Q3B10	W	YEL	11.0
	A3D13	1	D5D05	2	YEL	9.0
MB104AD4	D5B08	W	Q4B04	W	YEL	11.0
	B5B08	2	D5B08	2	YEL	5.0
	A3B10	2	C2B07	2	YEL	7.0
	A3B10	1	B5B08	2	YEL	8.0
MB104AE4	C2D09	2	B2D05	2	YEL	4.5
	A3B09	2	B2D05	2	YEL	9.0
	D4D09	W	Q4D05	W	YEL	11.0
	A3B09	2	D4D09	2	YEL	8.0
MB104AF4	D4D11	1	A3D12	1	YEL	6.0
	B2D04	2	C2B05	2	YEL	4.0
	B2D04	W	A3D12	W	YEL	7.0
	Q4B05	2	D4D11	2	YEL	11.0
MB104AG4	D5B09	2	B5D06	2	YEL	6.0
	D5B09	W	Q4B08	W	YEL	11.0
	A3D11	1	C2B02	1	YEL	8.0
	A3D11	2	B5D06	2	YEL	8.0
MB104AH4	D5B12	W	Q4D10	W	YEL	11.0
	A3D10	2	B5B07	2	YEL	9.0
	D5B12	2	B5B07	2	YEL	5.0
	C2B03	W	A3D10	W	YEL	7.0
MB104AJ4	B5B04	W	Q4B11	W	YEL	12.0
	A3B13	W	B5B04	W	YEL	6.0
	D2B05	2	C2B04	2	YEL	5.0
	D2B05	W	A3B13	W	YEL	7.0
MB105AA4	A4B12	2	B5D12	2	YEL	7.0
	F4D03	W	Q4B13	W	YEL	10.0
	F4D03	1	B5D12	2	YEL	9.0
	C4B02	W	A4B12	W	YEL	5.5
MB105AB4	F4D04	W	Q5B02	W	YEL	10.0
	A4B11	2	F4D04	2	YEL	8.0
	C4D02	2	B4D12	2	YEL	8.0
	A4B11	2	B4D12	2	YEL	4.5
MB105AC4	B5D10	2	F5D03	2	YEL	7.0
	F5D03	W	Q5B03	W	YEL	9.0
	C3B10	1	A4D13	1	YEL	7.0
	A4D13	W	B5D10	W	YEL	5.5
MB105AD4	F5B04	W	Q5B04	W	YEL	10.0
	C3B08	W	B4D05	W	YEL	5.5
	A4B10	2	F5B04	2	YEL	8.0
	B4D06	2	A4B10	2	YEL	5.0
MB105AE4	F4B07	W	Q5D05	W	YEL	10.0
	C3B09	W	B4D03	W	YEL	5.0
	A4B09	2	F4B07	2	YEL	7.0
	A4B09	2	B4D03	2	YEL	5.0
MB105AF4	A4D12	2	F4B09	2	YEL	7.0
	F4B09	W	Q5D07	W	YEL	10.0
	B4D02	W	A4D12	W	YEL	5.0
	C3B11	2	B4D02	2	YEL	6.0
MB105AG4	C3B04	2	B3D11	2	YEL	7.0
	F5D12	2	A4D11	2	YEL	9.0
	F5D12	W	Q5D09	W	YEL	10.0
	B3D11	W	A4D11	W	YEL	5.5
MB105AH4	B3B13	1	C3D06	1	YEL	5.0
	A4D10	2	F5D13	2	YEL	9.0
	F5D13	W	Q5D10	W	YEL	10.0
	B3B13	2	A4D10	2	YEL	8.0
MB105AJ4	B5D02	W	Q5D11	W	YEL	12.0
	F3D06	W	A4B13	W	YEL	8.0
	C3B05	2	F3D06	2	YEL	6.0
	A4B13	2	B5D02	2	YEL	5.0
MB105AK4	M6B04=	W	D4B10	W	YEL	10.0
	B2D07	1	C4D12	1	YEL	8.0
	D4B10	2	C4D12	2	YEL	4.0
MB105AL4	C3D03	2	B2B10	2	YEL	5.5
	D3B02	1	C3D03	1	YEL	4.0
	D3B02	2	M6A04=	1	YEL	13.0
MB105AM4	B3D13	1	M6C04=	1	YEL	13.0
	B3D13	2	C3D04	2	YEL	5.0
MB105AN4	C4B13	W	B4B09	W	YEL	4.5
	D3D13	W	C4B13	W	YEL	5.5
	N6A04=	W	D3D13	W	YEL	11.0
MD201AP6	C4D05	2	J1A11=	2	YEL	12.0
MD221AP6	J1C11=	1	C4B08	1	YEL	13.0
PA101AP4	R3D02	2	V3D02	2	YEL	6.0
PA101AQ4	R3B03	2	S3D07	2	YEL	5.0
	V3B04	1	S3D07	2	YEL	5.5
PA101AR4	R2B13	W	V3B02	W	YEL	7.0
PA101AS4	U5D12	2	U3B02	2	YEL	9.0
	U3B02	2	V3B05	2	YEL	4.5
	R5D13	1	U5D12	2	YEL	5.5
	K5B11	1	R5D13	1	YEL	10.0
PA101AT4	E3B11	W	V3B09	W	YEL	10.0
PA101AJ4	E2D10	W	V3D09	W	YEL	14.0
	C5B13	W	E2D10	W	YEL	10.0
PA101AV4	R4D03	2	V3D11	2	YEL	7.0
PA101AW4	R4B11	W	U3B04	W	YEL	7.0
	V3B10	2	U3B04	2	YEL	4.5
PA101BF4	R2B12	W	U4B07	W	YEL	7.0
	U4B07	1	V3D05	2	YEL	6.0
PA101BG4	U5D04	1	V3D03	1	YEL	8.0
PA101BH4	K4B04	2	E3D10	2	YEL	7.0
	R2D10	2	V3D06	2	YEL	7.0
	P5D04	2	E3D10	2	YEL	12.0
	R2D10	2	P5D04	2	YEL	9.0
PA101BJ4	L3B12	1	V3D07	2	YEL	10.0
PA101BL4	K5D13	2	V3D13	2	YEL	11.0
PA101BM4	E3D06	W	V3D10	W	YEL	13.0
	C4B03	2	E3D06	1	YEL	7.0
PA101BN4	K5B05	W	V3B13	W	YEL	11.0
PA101BQ4	E3D02	W	V3B12	W	YEL	13.0
	E3D07	2	E3D02	2	YEL	5.0
PC101AJ4	R5B10	2	C4B12	2	YEL	14.0
	R5B10	2	V1A13=	1	YEL	13.0
PC101AV4	N4B07	2	V1B13=	1	YEL	13.0
	N4B07	2	C2D13	2	YEL	12.0
PC101AW4	C3B11	2	T1A11=	1	YEL	12.0
PC101AX4	T1B11=	W	E5B13	W	YEL	15.0
PC101BJ4	K3D06	2	L3D13	2	YEL	5.0
	K3D06	2	T1D11=	1	YEL	12.0
PC101BK4	H4D05	2	M3D12	2	YEL	7.0
	M3D12	1	T1E11=	1	YEL	11.0
	H4D05	2	F2B07	2	YEL	8.0
	U1A11=	W	C4D06	W	YEL	15.0
PC101BM4	F2D09	2	H5D12	2	YEL	11.0
	U1E11=	2	F2D09	2	YEL	13.0
PC101BP4	K3D05	1	U1D11=	1	YEL	12.0
PC101BQ4	K3D12	2	U1E11=	1	YEL	13.0
PC101BR4	V1B11=	W	K3D03	W	YEL	10.0
PC111AJ4	R5B05	2	V4D07	2	YEL	7.0
PC111AV4	R5D07	1	V4B09	2	YEL	7.0
PC111AW4	U1B13=	2	V4D10	2	YEL	9.0
PC111AX4	P3B05	W	V4B10	W	YEL	8.0
PC111BJ4	R2B05	W	V4D06	W	YEL	9.0
PC111BK4	R5B11	2	V4B05	2	YEL	8.0
PC111BL4	R2B03	W	V4D05	W	YEL	9.0
PC111BM4	R4D11	1	T5B12	1	YEL	5.0
	U5D10	2	V4D09	2	YEL	5.5
	T5B12	2	U5D10	2	YEL	4.5
PC111BN4	P3D05	W	V4B12	W	YEL	8.0
PC111BP4	P5B07	2	V4D11	2	YEL	8.0
PC111BQ4	P4D10	2	V4D13	2	YEL	8.0
PC111BR4	P4D09	W	V4B13	W	YEL	8.0
PC121AV4	R3B10	W	V5B09	W	YEL	8.0

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION 01A-33

PIN IDD *-I/O PIN PLANESO 1-CARD SIDE SHALLOW 3-PROBE SIDE SHALLOW WIRE TYPESO YEL-YELLOW,30, AS NTR-90 OHM TRI-LEAD
*-I/O & LOGIC 2-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW TWL-TWIN LEAD WRAP FTW-50 OHM TWIN LEAD
T-TERMINATING RES. W-DISCRETE OVERFLOW TW -TWIST PR CONNECT NTW-90 OHM TWIN HEAD
V-VOLTAGE/GROUND FTR-50 OHM TRI-LEAD CX -COAX CONNECTOR
NOTESO WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
RC121AX4	V5B10	2	U4D06	2	YEL	7.0
RC121BQ4	E5B10	W	R5B03	W	YEL	11.0
	R5B03	2	V5D13	2	YEL	8.0
RC1218R4	V5B13	2	R5D02	2	YEL	7.0
	E5B11	W	R5D02	W	YEL	11.0
RC121SB4	C4D10	W	V5D10	W	YEL	15.0
	B3B10	2	C4D10	1	YEL	6.0
RA101AM2	F2D10	2	H3B02	2	YEL	5.0
RA101AN2	F3B10	W	H3B10	W	YEL	5.0
RA101AP2	H3B07	2	M2D13	2	YEL	7.0
	F3B09	2	H3B07	2	YEL	5.0
RA101AQ2	F2B13	W	H3D09	W	YEL	5.5
RA101AV2	F4D10	W	M4D12	W	YEL	8.0
	M4D12	1	N5D04	1	YEL	5.0
RA101AW6	F4D07	W	S3B03	W	YEL	11.0
RA111AL2	F2B12	W	H4B09	W	YEL	7.0
RA111AM2	F2B11	W	H5B09	W	YEL	9.0
RA111AN2	F2B02	W	H5B11	W	YEL	10.0
RA111AP2	F3B12	W	H5D05	W	YEL	7.0
RA111AQ2	F3B11	2	H3D02	2	YEL	5.5
RA111AR2	F2B05	1	H2B13	2	YEL	5.5
RA111BK2	P2B04	1	F2D11	2	YEL	14.0
	P2B04	W	K5B03	W	YEL	10.0
RA121AS2	H2D10	W	F3D13	W	YEL	6.0
RA121AT2	F2D07	2	H2B10	1	YEL	5.0
RA121AV2	F3D12	2	H3D03	2	YEL	6.0
	H3D03	W	M3B05	W	YEL	6.0
RA121AW2	F2D06	1	H3B05	1	YEL	5.5
RA131AP2	F3D02	W	H5B04	W	YEL	8.0
RA131AQ2	F3B02	W	H5B12	W	YEL	9.0
RA131AR2	F3D10	1	H5B10	1	YEL	8.0
RA131AS2	F2B09	W	H5D10	W	YEL	10.0
RA151AU6	F4B05	W	M3DC6	W	YEL	8.0
RA151AX2	F4D12	W	Q5B07	W	YEL	9.0
RN101AD6	G3B04	W	J3B12	W	YEL	5.5
	K2B11	2	M2B12	2	YEL	5.0
	K2B11	2	G3B04	2	YEL	6.0
RN101AE6	K2B03	2	M3B08	2	YEL	9.0
	G5B03	2	J5DC4	2	YEL	5.5
	G5B03	W	M3B08	W	YEL	8.0
RN101AF6	K2D06	2	J3D04	2	YEL	5.5
	K2D06	W	G5D04	W	YEL	9.0
RN101AG6	K3D07	W	N3B05	W	YEL	5.5
	G3B05	2	K3D07	2	YEL	6.0
	G3B05	2	J2B13	2	YEL	5.0
RN101AH6	K2D13	2	P2D02	2	YEL	7.0
	K2D13	2	J3B03	2	YEL	5.0
RN101AJ6	K2B10	W	P2B11	W	YEL	7.0
	J3B02	2	K2B10	2	YEL	4.5
RN101AK6	K3B03	1	J4D03	2	YEL	5.5
RN101AL6	K2B05	W	J4B02	W	YEL	7.0
RN101AR6	J4B03	2	G3D07	2	YEL	5.5
	G3D07	W	L3B02	W	YEL	6.0
	P2D05	2	L3B02	1	YEL	7.0
RN101AS6	L2B13	2	P2D13	1	YEL	6.0
	G3B09	2	L2B13	2	YEL	7.0
	G3B09	2	J4D04	2	YEL	5.5
RN101AT6	L2B10	2	G3D09	2	YEL	8.0
	L2B10	W	P4D02	W	YEL	7.0
	G3D09	W	J3B10	W	YEL	5.0
RN101AU6	L2B09	2	P3D07	2	YEL	7.0
	G3DJ6	2	L2B09	2	YEL	7.0
	J5D02	2	G3DJ6	1	YEL	9.0
RN101AV6	D3D12	2	G2D11	1	YEL	8.0
	P5B05	W	J4B10	W	YEL	7.0
	L4B09	W	P5B05	W	YEL	6.0
	D3D12	W	L4B09	W	YEL	8.0
RN101AW6	L4D11	1	R5D03	1	YEL	12.0
	J4B08	2	E5D11	1	YEL	9.0
	E5D11	W	L4D11	W	YEL	8.0
	P2DC6	W	R5D03	W	YEL	9.0
	G2D13	W	P2DC6	W	YEL	8.0
RN101AX6	P2B03	2	G2D10	2	YEL	9.0
	G2D10	W	L4B12	W	YEL	8.0
	J4B05	2	L4B12	1	YEL	5.5
RN101AY6	L5DJ4	2	G3DJ3	2	YEL	10.0
	L5DJ4	2	P5B03	2	YEL	5.5
	G3DJ3	W	J4DC6	W	YEL	6.0
RN101AZ6	J3DC6	1	N2B13	1	YEL	7.0
	N2B13	W	M5BJ2	W	YEL	8.0
RN111AE6	J3B05	W	L4B10	W	YEL	7.0
RN111AF2	M3D07	1	J3BD8	1	YEL	11.0
	M3D07	W	S5BJ8	W	YEL	9.0
RN111AG6	J2B12	W	S4D13	W	YEL	10.0
RN111AH6	J2BJ3	W	S2D12	W	YEL	9.0
RN111AK6	J2B04	W	S2DC6	W	YEL	9.0
RN111AL6	P4BJ2	2	S3BJ7	2	YEL	6.0
	N3DJ3	2	P4BJ2	2	YEL	5.5
	N3DJ3	2	J2BC5	1	YEL	7.0
RN111AM6	J5BJ5	2	G3BJ3	1	YEL	9.0
	G3BJ3	W	S2B10	W	YEL	10.0
RN111AN6	J2BJ2	2	S2BJ7	2	YEL	9.0
RN111AP2	J2DJ3	W	S3BJ8	W	YEL	9.0
RN111AQ2	J2B11	W	S4B11	W	YEL	10.0
RN111AS2	J2D11	W	S4B12	W	YEL	9.0
RN111AT6	G4D12	W	J4D12	W	YEL	5.0
RN111AU6	J4B11	W	S4B12	W	YEL	9.0
RN111AV6	G4B05	W	J4BJ7	W	YEL	5.0
RN111AX6	J2B10	W	S4DJ9	W	YEL	10.0
RN111AY6	J2DJ4	W	N3BJ9	W	YEL	7.0
RN111AZ2	Q5D12	2	S4B13	2	YEL	5.5
	J2BJ7	2	N3BJ8	2	YEL	7.0
	N3BJ8	2	S4B13	2	YEL	9.0
RN111BC6	E5DJ3	W	T2B13	W	YEL	13.0
	N2DJ6	2	T2B13	2	YEL	7.0
	N2DJ6	2	J2D10	2	YEL	7.0
RN111BD2	E4D12	2	J2DJ7	2	YEL	10.0
	A1D11=	1	E4D12	1	YEL	12.0
RN111BE6	J3BJ7	W	R5DJ4	W	YEL	10.0
RN111BJ6	G3BJ7	W	P5DJ3	W	YEL	10.0
	G3BJ7	2	J2DJ6	2	YEL	7.0
RN111BK6	J4BJ4	W	P4DJ7	W	YEL	7.0
RN111BL5	A1E11=	1	G4D10	1	YEL	12.0
	G4D10	2	J2BJ9	2	YEL	8.0
RN111BM2	J3D11	2	B1B11=	1	YEL	12.0
RN111BN6	J4BJ9	W	T5BJ2	W	YEL	10.0
	T5BJ2	2	S2BJ2	1	YEL	12.0
	N2DJ3	1	S2BJ2	2	YEL	7.0
RN111BR6	J3BJ9	W	N4D11	W	YEL	7.0
RN111BS2	B1C11=	1	G2DJ4	1	YEL	8.0
RN111BJ6	N5D12	W	T2B12	W	YEL	10.0
	J3BJ4	W	S2DJ1	W	YEL	9.0
	S2DJ1	2	T2B12	2	YEL	4.0
RN121AM6	J4B10	W	J4B12	W	YEL	5.0
RN121AN6	M2BJ5	W	J4DJ1	W	YEL	9.0
RN121AP2	M4BJ3	W	J5DJ5	W	YEL	5.0
RN121AQ2	M4BJ5	W	J5DJ5	W	YEL	5.5
RN121AS6	J3D13	W	M4B11	W	YEL	6.0
RN121AT6	J3B13	W	M5BJ5	W	YEL	8.0
RN121AV2	S2DJ5	W	J5BJ9	W	YEL	10.0
RN121AW6	J3D10	W	M3DJ2	W	YEL	7.0
RN121AX6	M4B04	W	P3DJ6	W	YEL	6.0
	P3DJ6	2	S3BJ5	2	YEL	5.5
	M4BJ4	2	J3DJ5	2	YEL	5.0
RN121AY6	M5DJ2	2	M4B11	2	YEL	4.5
	J3B11	1	M5DJ2	1	YEL	7.0
RN121AZ6	J4B13	W	M5B10	W	YEL	5.0
RN121B36	J2DJ2	W	S3BJ4	W	YEL	9.0
	P4DJ4	2	S3BJ4	2	YEL	6.0
RN121BC6	J4DJ2	2	S5DJ9	2	YEL	12.0
RN121BE4	G4DJ6	W	J5BJ7	W	YEL	5.0
RN131AA6	J3DJ9	W	P4BJ4	W	YEL	7.0
	M5B11	2	N5B13	2	YEL	4.5
	P4B04	1	N5B13	1	YEL	7.0
RN131AB6	J2D13	W	M5BJ3	W	YEL	8.0
RN131AJ6	G2JD9	2	J2DJ2	2	YEL	5.5
RN131AK6	G2DJ3	W	J3DJ3	W	YEL	6.0
RN131AL6	J3DJ2	W	M4DJ1	W	YEL	7.0
	M4DJ1	2	N5BJ4	2	YEL	4.5
RN131AM6	J2DJ5	W	P2DJ2	W	YEL	7.0
RN131AX6	J3DJ7	W	G5BJ2	W	YEL	7.0
RN141AR6	J5B10	2	K2DJ4	1	YEL	10.0
RN141AT6	J5B12	2	L5BJ3	2	YEL	5.5
RN141BG2	J4DJ3	2	K4DJ9	2	YEL	4.5
WB103AM4	H1A13=	1	M3DJ9	1	YEL	10.0
WB103AN4	R1C11=	1	R4DJ5	1	YEL	9.0
WB105AK4	H1C13=	1	N3DJ3	1	YEL	11.0
WB105AL4	M2DJ7	2	H1DJ3=	1	YEL	7.0
WB105AM4	H1E13=	1	P5BJ8	1	YEL	13.0
WB107AF4	E1DJ1=	1	K5BJ4	2	YEL	13.0
WB107AG4	E1E11=	1	U3DJ5	1	YEL	13.0
WB107AH4	E1C11=	1	R2BJ2	2	YEL	11.0
WB107AJ4	F1B11=	2	G5B10	2	YEL	11.0
WB107AK4	G5DJ6	W	S5DJ3	W	YEL	11.0
	R5B12	2	S5DJ3	2	YEL	5.5
	G5DJ6	2	F1C11=	1	YEL	11.0
WB107AL4	H1E11=	1	L6DJ4=	1	YEL	13.0
WB110AA4	A5B04=	2	H6AJ4=	2	YEL	10.0
WB110A34	A5B05=	2	H6AJ2=	2	YEL	9.0
WB110AC4	H6J02=	1	A5BJ6=	1	YEL	10.0
WB110AD4	A5B08=	1	H6CJ4=	1	YEL	10.0
WB110AE4	A5B09=	2	H6DJ4=	2	YEL	9.0
WB110AF4	A5310=	1	H6DJ2=	1	YEL	9.0
WB110A34	A5312=	2	H6EJ4=	2	YEL	9.0
WB110AH4	A5B13=	2	H6EJ2=	2	YEL	9.0
WB110AJ4	A5B02=	2	J6AJ2=	2	YEL	10.0
WS020A32	J6E02=	2	A5DJ3=	2	YEL	7.0
WS020A34	A5DJ5=	2	E6AJ2=	1	YEL	7.0
WS020A36	A5DJ6=	2	E6CJ2=	1	YEL	7.0

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION 014-33

PIN IDS *-I/O PIN PLANES 1-CARD SIDE SHALLOW 3-PROBE SIDE SHALLOW WIRE TYPES YEL-YELLOW,30, AG NTR-90 OHM TRI-LEAD
*-I/O & LOGIC 2-PROBE SIDE SHALLOW 4-PROBE SIDE SHALLOW TWL-TWIN LEAD WRAP FTW-50 OHM TWIN LEAD
T-TERMINATING RES. W-DISCRETE OVERFLOW TW -TWIST PR CONNECT NTW-90 OHM TWIN LEAD
V-VOLTAGE/GROUND FTR-50 OHM TRI-LEAD CX -COAX CONNECTOR
NOTES WIRE LENGTH IS IN TENTHS OF AN INCH. YELLOW WIRE LENGTH INCLUDES WIRE FOR WRAP.

NET NO.	FROM PIN	P L	TO PIN	P L	WIRE TYP	WIRE LNGTH
WS020AC1	A5D07=	1	E6D02=	1	YEL	8.0
WS020AC3	A5D09=	2	E6E02=	1	YEL	7.0
WS020AC5	A5D10=	2	F6B02=	1	YEL	7.0
WS020AC7	A5D11=	1	F6C02=	1	YEL	7.0
WS020AD2	A5D13=	1	F6D02=	1	YEL	7.0
WS020AD4	A5D02=	1	G6A02=	1	YEL	9.0
WS020AD6	D6E04=	1	S5D05	2	YEL	13.0
	Q3D11	W	S5D05	W	YEL	9.0
	Q3D11	2	F3B13	2	YEL	10.0
WS020AE1	Q3D10	2	F5D05	2	YEL	12.0
	E6B04=	1	Q3D10	1	YEL	13.0
WS020AE3	E6C04=	1	Q3B12	1	YEL	13.0
	Q3B12	2	F4B03	2	YEL	10.0
WS020AE5	N4D04	1	E6D04=	1	YEL	12.0
	N4D04	W	Q3D13	W	YEL	9.0
	F5D04	2	Q3D13	2	YEL	12.0
WS020AE7	F4B08	2	Q3B13	2	YEL	10.0
	N4B08	W	Q3B13	W	YEL	9.0
	F6A04=	2	N4B08	2	YEL	11.0
WS020AF2	F4D09	2	Q4B02	2	YEL	10.0
	F6B04=	1	Q4B02	1	YEL	13.0
WS020AF4	Q4D07	2	F6C04=	1	YEL	13.0
	Q4D07	2	F5B07	2	YEL	11.0
WS020AF6	Q4D02	2	F5B09	2	YEL	12.0
	F6E04=	1	Q4D02	1	YEL	13.0
WS020AG1	Q3B02	2	L4D04	2	YEL	8.0
	G6A04=	1	Q3B02	1	YEL	13.0
WS020AH2	N6E04=	2	U4D04	2	YEL	11.0
WS020AH4	K4D10	1	L6D02=	2	YEL	7.0
WS020AH6	L6E02=	1	U4B12	1	YEL	11.0
WS020AJ1	U4B13	1	M6C02=	1	YEL	10.0
WS020AJ3	M6D02=	1	U4D02	1	YEL	12.0
WS020AJ5	M6B02=	2	U4B03	2	YEL	12.0
WS020AJ7	N6A02=	1	U5D13	1	YEL	8.0
YE111AA2	A2B03	2	A2C03	2	YEL	4.0
YE111AA3	A2C04	2	A2D04	2	YEL	4.0
YE111AA4	A2B07	2	A2C07	2	YEL	4.0
YE111AA5	A2B11	2	A2C11	2	YEL	4.0
YE111AA6	A2C12	2	A2D12	2	YEL	4.0
YE111AC4	B2B06	2	B2C06	2	YEL	4.0
YE111AD4	C2B06	2	C2C06	2	YEL	4.0
YE111AE4	B3B06 V	2	B3C06 V	2	YEL	4.0
YE111AF4	C3B06 V	2	C3C06 V	2	YEL	4.0
YE111AH4	B4B06 V	2	B4C06 V	2	YEL	4.0
YE111AJ4	C4B06 V	2	C4C06 V	2	YEL	4.0
YE111AL4	B5B06 V	2	B5C06 V	2	YEL	4.0
YE111AM4	C5B06 V	2	C5C06 V	2	YEL	4.0
YE111BA4	T2B06	2	T2C06	2	YEL	4.0
YE111BB4	U2B06	2	U2C06	2	YEL	4.0
YE111BC4	V2B06	2	V2C06	2	YEL	4.0
YE111BD4	T3B06 V	2	T3C06 V	2	YEL	4.0
YE111BE4	U3B06	2	U3C06	2	YEL	4.0
YE111BF4	V3B06	2	V3C06	2	YEL	4.0
YE111BG4	T4B06 V	2	T4C06 V	2	YEL	4.0
YE111BH4	U4B06	2	U4C06	2	YEL	4.0
YE111BJ4	V4B06	2	V4C06	2	YEL	4.0
YE111BK4	T5B06 V	2	T5C06 V	2	YEL	4.0
YE111BL4	U5B06 V	2	U5C06 V	2	YEL	4.0
YE111BM4	V5B06	2	V5C06	2	YEL	4.0
YE111CA2	V3B03	2	V3C03	2	YEL	4.0
YE111CA3	V3C04	2	V3D04	2	YEL	4.0
YE111CA4	V3B07	2	V3C07	2	YEL	4.0
YE111CA5	V3B11	2	V3C11	2	YEL	4.0
YE111CA6	V3C12	2	V3D12	2	YEL	4.0
YE111CB2	V4B07	2	V4C07	2	YEL	4.0
YE111CB3	V4B11	2	V4C11	2	YEL	4.0
YE111CB4	V4C12	2	V4D12	2	YEL	4.0
YE111CC2	V5B07	2	V5C07	2	YEL	4.0
YE111CC3	V5B11	2	V5C11	2	YEL	4.0
YE111CC4	V5C12	2	V5D12	2	YEL	4.0
YE111CG4	U2B08	2	V2B08	2	YEL	4.5
	T2B08	2	U2B08	2	YEL	4.5
YE111CK4	S2B08	W	U3B08	W	YEL	6.0
	V4B08	1	V5B08	1	YEL	5.5
	U3B08	2	V4B08	2	YEL	6.0
YE111CR2	A5B03	2	A5C03	2	YEL	4.0
YE111CR3	A5C04	2	A5D04	2	YEL	4.0
YE111CR4	A5B07	2	A5C07	2	YEL	4.0
YE111CR5	A5B11	2	A5C11	2	YEL	4.0
YE111CR6	A5C12	2	A5D12	2	YEL	4.0
YE111CT4	A3B06	2	A3C06	2	YEL	4.0
YE111CV4	A4B06 V	2	A4C06 V	2	YEL	4.0

END OF LIST

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION 01A-33

PIN 000 #-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTED 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.
A1D11=	RN111BD2	A5B08=	WB110AD4	B3B07	KE295AZ4	B5D07	KE295BD4	C3D07	PA101BQ4	C6E02=	MA127AM2	D4D04	MA122AR4
A1D13=	KE401BZ6	A5B09=	WB110AE4	B3B08	MA127AB2	B5D09	KE293AL4	C3D09	KP132BK2	C6E04=	MA122AS4	D4D05	KN111AP2
A1E11=	RN111BL6	A5B10=	WB110AF4	B3B09	MA152AE6	B5D10	MB105AC4	C3D10	AB151AK4	D1E11=	CS101AK2	D4D06	MA122AQ4
A2B02=	KE295AV4	A5B11	YE111CR5	B3B10	PC121SB4	B5D11	KE293AS4	C3D11	AB151AL4	D1E13=	AV232AK2	D4D07	KR252AL2
A2B03	YE111AA2	A5B12=	WB110AG4	B3B11	MA152AR6	B5D12	MB105AA4	C3D12	KA202BC6	D2B02	KN121AX6	D4D09	MB104AE4
A2B04=	KE295AW4	A5B13=	WB110AH4	B3B13	MB105AH4	B5D13	MA122BA4	C3D13	AB151AZ4	D2B03	MA122B34	D4D10	KA322AJ5
A2B05=	KE295AX4	A5C03	YE111CR2	B3C06 V	YE111AE4	B6A04=	MA122AR4	C4B02	MB105AA4	D2B04	MA127AC2	D4D11	MB104AF4
A2B06=	KE295AZ4	A5C04	YE111CR3	B3D02	MA122BC4	B6B02=	MA127AF2	C4B03	PA101BM4	D2B05	MB104AJ4	D4D12	KP142BR5
A2B07	YE111AA4	A5C07	YE111CR4	B3D03	KP122AW6	B6B04=	MA122BA4	C4B04	KP132BJ2	D2B07	KD121AT6	D4D13	MA127AK2
A2B08=	KE295AU4	A5C11	YE111CR5	B3D04	KP152AG2	B6C02=	MA127AG2	C4B05	KP132AP2	D2B09	KM161AY2	D5B02	KN121AP5
A2B09=	KE295BA4	A5C12	YE111CR6	B3D05	AB151AK4	B6C04=	MA122BB4	C4B06 V	YE111AJ4	D2B10	KL131AN3	D5B03	MA152AR5
A2B10=	KE295BB4	A5D02=	WS020AD4	B3D06	AB151BA4	B6D02=	MA127AH2	C4B07	KL111BJ2	D2B11	KN101BN2	D5B04	KP142BS5
A2B11	YE111AA5	A5D03=	WS020AB2	B3D07	KE295AX4	B6E04=	MA122BC4	C4B08	MD221AP6	D2B12	AV232AH2	D5B05	MA152AB5
A2B12=	KE295BC4	A5D04	YE111CR3	B3D09	KD141BC6	C1A11=	KD121AF2	C4B09	KC102AJ6	D2B13	KM161BA2	D5B07	KN121AQ5
A2B13=	KE295BD4	A5D05=	WS020AB4	B3D10	MA127AK2	C1A13=	KE311AQ4	C4B10	MA262AH2	D2D02	AV232AG2	D5B08	MB104AD4
A2C03	YE111AA2	A5D06=	WS020AB6	B3D11	MB105AG4	C1B11=	KD121AV2	C4B11	KE161CC6	D2D03	MA122BA4	D5B09	MB104AG4
A2C04	YE111AA3	A5D07=	WS020AC1	B3D12	KE293AM4	C1C11=	KD121AW2	C4B12	PC101AU4	D2D04	AV232AF2	D5B10	MA152AE5
A2C07	YE111AA4	A5D09=	WS020AC3	B3D13	MB105AM4	C1D13=	KE401BJ2	C4B13	MB105AN4	D2D05	KR262AE2	D5B11	KP142BN5
A2C11	YE111AA5	A5D10=	WS020AC5	B4B02	KP152AH2	C1E11=	KD141AG2	C4C06 V	YE111AJ4	D2D06	AV232AJ2	D5B12	MB104AH4
A2C12	YE111AA6	A5D11=	WS020AC7	B4B03	MA152AC6	C2B02	MB104AG4	C4D02	MB105AB4	D2D07	AV232AA2	D5B13	MA152AD5
A2D02=	KE293AK4	A5D12	YE111CR6	B4B04	MA152AD6	C2B03	MB104AH4	C4D03	MA262AS2	D2D09	KN121BD6	D5D02	MA127AL2
A2D03=	KE293AL4	A5D13=	WS020AD2	B4B05	MA152AF6	C2B04	MB104AJ4	C4D04	KE401BU2	D2D10	KN121BC6	D5D03	MB104AB4
A2D04	YE111AA3	A6D02=	MA127AD2	B4B06 V	YE111AH4	C2B05	MB104AF4	C4D05	MD201AP6	D2D11	KN101AU2	D5D04	KP142BT5
A2D05=	KE293AM4	A6D04=	MA122AQ4	B4B07	KE295AU4	C2B06	YE111AD4	C4D06	PC101BL4	D2D12	KN101BL2	D5D05	MB104AC4
A2D06=	KE293AN4	A6E02=	MA127AE2	B4B08	MA262AR2	C2B07	MB104AD4	C4D07	KL111BK2	D2D13	KM161AZ2	D5D06	KA322AW5
A2D07=	KE293AP4	B1A13=	KE311AP4	B4B09	MB105AN4	C2B09	MB104AB4	C4D09	AB151BA4	D3B02	MB105AL4	D5D07	MA152AA5
A2D09=	KE293AQ4	B1B11=	RN111BM2	B4B10	MA122AS4	C2B10	MB104AC4	C4D10	PC121SB4	D3B03	MA127AF2	D5D09	KP142BP5
A2D10=	KE293AR4	B1B13=	KE311AR4	B4B11	MA132AH4	C2B11	AB241AF2	C4D11	MA262AR2	D3B04	MA127AG2	D5D10	KR262DD5
A2D11=	KE293AS4	B1C11=	RN111BS2	B4B12	MA127AD2	C2B12	KP132BX2	C4D12	MB105AK4	D3B05	MA127AD2	D5D11	KR262DD5
A2D12	YE111AA6	B1C13=	KE311AS4	B4B13	KE293AK4	C2B13	MA282AJ2	C4D13	KE311AR4	D3B07	KN101AT2	D5D12	KP142BJ2
A2D13=	KE293AT4	B1D11=	KD121BD2	B4C06 V	YE111AH4	C2C06	YE111AD4	C5B02	KE311AS4	D3B08	KA322AK6	D5D13	KR252DD4
A3B02	KE401BZ6	B1E13=	KE311AT4	B4D02	MB105AF4	C2D02	KP152AH2	C5B03	MA282AM6	D3B09	AV232AE2	D6E02=	WS020AB2
A3B06	YE111CT4	B2B02	MA127AH2	B4D03	MB105AE4	C2D03	KM111AG2	C5B04	KA202AX6	D3B10	MA122BC4	D6E04=	WS020AD5
A3B09	MB104AE4	B2B03	MA127AJ2	B4D04	MA127AC2	C2D04	AB151BC4	C5B05	KL131BA4	D3B11	KP142BM6	E1B13=	AV232AL2
A3B10	MB104AD4	B2B04	MB104AB4	B4D05	MA152AA6	C2D05	AB151AM4	C5B06 V	YE111AM4	D3B12	MA127AA2	E1C11=	WB107AH4
A3B11	MB104AB4	B2B05	KE295BA4	B4D06	MB105AD4	C2D06	AB241AG2	C5B07	AB241AB2	D3B13	MA127AB2	E1C13=	AV232AM2
A3B12	MB104AA4	B2B06	YE111AC4	B4D07	MA127AA2	C2D07	AB241AH2	C5B08	AB241AC2	D3D02	MA127AE2	E1D11=	WB107AF4
A3B13	MB104AJ4	B2B07	KP152AE6	B4D09	KE295BC4	C2D09	MB104AE4	C5B09	KP132BY2	D3D03	MA127AH2	E1D13=	AV232AN2
A3C06	YE111CT4	B2B09	AB151AN4	B4D10	MA262AS2	C2D10	AB151BB4	C5B10	KL121AS2	D3D04	KR242AA2	E1E11=	WB107AG4
A3D10	MB104AH4	B2B10	MB105AL4	B4D11	MB104AA4	C2D11	AB241AJ2	C5B11	KE311AP4	D3D05	KR242AA7	E2B02	AV232AH2
A3D11	MB104AG4	B2B11	MA127AE2	B4D12	MB105AB4	C2D12	MA282AN6	C5B12	MA262AW2	D3D06	AV232AD2	E2B03	KD141BC5
A3D12	MB104AF4	B2B12	KE293AP4	B4D13	KE293AT4	C2D13	PC101AV4	C5B13	PA101AU4	D3D07	AV232AC2	E2B04	KP142BG2
A3D13	MB104AC4	B2B13	AB151AY4	B5B02	MA122AR4	C3B02	KP132AN2	C5C06 V	YE111AM4	D3D09	MA127AJ2	E2B05	AV232AB2
A4B06 V	YE111CV4	B2C06	YE111AC4	B5B03	KE295AW4	C3B03	MB104AA4	C5D02	KE311AT4	D3D10	KC122AL6	E2B07	KP132BX2
A4B09	MB105AE4	B2D02	MB104AC4	B5B04	MB104AJ4	C3B04	MB105AG4	C5D03	KL131AV4	D3D11	KR252AC7	E2B09	KA312BY5
A4B10	MB105AD4	B2D03	MA127AF2	B5B05	KE295AV4	C3B05	MB105AJ4	C5D04	KE311AQ4	D3D12	RN101AV6	E2B10	KM151AZ2
A4B11	MB105AB4	B2D04	MB104AF4	B5B06 V	YE111AL4	C3B06 V	YE111AF4	C5D05	AB241AE2	D3D13	MB105AN4	E2B11	KP142BP5
A4B12	MB105AA4	B2D05	MB104AE4	B5B07	MB104AH4	C3B07	KC142AN2	C5D06	KL101AY2	D4B02	KR252AC2	E2B12	MA262AH2
A4B13	MB105AJ4	B2D06	KE295BB4	B5B08	MB104AD4	C3B08	MB105AD4	C5D07	AB241AD2	D4B03	MA152AS6	E2B13	AV232AC2
A4C06 V	YE111CV4	B2D07	MB105AK4	B5B09	MA152AB6	C3B09	MB105AE4	C5D09	AB241AA2	D4B04	KR252AA2	E2D02	KP152DD4
A4D10	MB105AH4	B2D09	AB151AM4	B5B10	KE293AQ4	C3B10	MB105AC4	C5D10	KC122AJ6	D4B05	KR252AA7	E2D03	AV232AE2
A4D11	MB105AG4	B2D10	AB151AL4	B5B11	KE293AR4	C3B11	MB105AF4	C5D11	MA282AX6	D4B07	KR242AC2	E2D04	KM121AA2
A4D12	MB105AF4	B2D11	KC142AN2	B5B12	MA152AS6	C3B12	MA262AG2	C5D12	KL131AW4	D4B08	MA152AC6	E2D05	KL111BL2
A4D13	MB105AC4	B2D12	MA122BB4	B5B13	MA122AQ4	C3B13	MA252AM2	C5D13	KL131SA4	D4B09	KP142BD6	E2D06	KE295BD4
A5B02=	WB110AJ4	B2D13	AB151AZ4	B5C06 V	YE111AL4	C3C06 V	YE111AF4	C6A02=	MA127AJ2	D4B10	MB105AK4	E2D07	MA252AW2
A5B03	YE111CR2	B3B02	AB151BC4	B5D02	MB105AJ4	C3D02	AB151AY4	C6A04=	MA127AA2	D4B11	KA322AH6	E2D09	KM151AY2
A5B04=	WB110AA4	B3B03	KE293AN4	B5D03	MA127AM2	C3D03	MB105AL4	C6B02=	MA127AK2	D4B12	MA152AF6	E2D10	PA101AJ4
A5B05=	WB110AB4	B3B04	KP122AV6	B5D04	MA127AG2	C3D04	MB105AM4	C6B04=	MA127AB2	D4B13	MB104AA4	E2D11	KP152AD2
A5B06=	WB110AC4	B3B05	AB151BB4	B5D05	MA127AL2	C3D05	AB151AN4	C6C02=	MA127AL2	D4D02	AV232AB2	E2D12	KP142BM5
A5B07	YE111CR4	B3B06 V	YE111AE4	B5D06	MB104AG4	C3D06	MB105AH4	C6D04=	MA127AC2	D4D03	KR242AC7	E2D13	KL131AN3

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION 01A-33

PIN IDS *-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTED 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.
E3B02	KP132BJ2	E5D07	KA312CE6	F3D11	KG141BD6	G2BD9	RN131AJ6	G5BD3	RN101AE6	H3B13	KE295AX4	J6DD2=	WB11DAF4
E3B03	KA242AB6	E5D09	KN121BA2	F3D12	RA121AV2	G2B10	KN131AJ6	G5BD4	KN121AQ6	H3DD2	RA111AQ2	J6DD4=	WB11DAE4
E3B04	KP152DD3	E5D10	KE295BA4	F3D13	RA121AS2	G2B11	KN101BJ6	G5BD5	KN101BL2	H3DD3	RA121AV2	J6ED2=	WB11DAH4
E3B05	KA312BF6	E5D11	RN101AW6	F4BD2	KG131AY2	G2B12	KN111AN2	G5BD8	KN111AP2	H3DD4	AV142AV6	J6ED4=	WB11DAG4
E3B07	KN121BV2	E5D12	KD121AN6	F4BD3	WSD20AE3	G2B13	KN131AM6	G5B10	WB1D7AJ4	H3DD5	KE295334	J1A11=	MD221AP5
E3B08	KP152AH2	E5D13	KN121BF6	F4BD4	KR252AA7	G2DD2	KN131AG6	G5B11	KN111BB2	H3DD6	AV142AQ6	J13B3=	KY131CF2
E3B09	AV222AM6	E6AD2=	WSD20AB4	F4BD5	RA151AU6	G2DD3	RN131AK6	G5B12	KC122AS6	H3DD7	KE295AU4	J1C11=	MD221AP5
E3B10	KN121BU2	E6BD4=	WSD20AE1	F4BD7	MB105AE4	G2DD4	RN111BS2	G5B13	KN111AL2	H3DD9	RA1D1AQ2	J1C13=	KE151AQ2
E3B11	KP122AV6	E6CD2=	WSD20AB6	F4BD8	WSD2DAE7	G2DD5	RN121AV2	G5DD2	KN121AP6	H3D10	AV142AW6	J1D11=	KA212AX2
E3B12	KE295AX4	E6CD4=	WSD20AE3	F4BD9	MB105AF4	G2DD6	KN131AH6	G5DD3	KD121BD6	H3D11	AV142AR6	J1D13=	KE151CE4
E3B13	KE295AU4	E6DD2=	WSD20AC1	F4B10	KE121AJ2	G2DD7	KN121BF6	G5DD4	RN1D1AF6	H3D12	KE295BD4	J1E11=	KA212AW2
E3DD2	PA1D1BQ4	E6DD4=	WSD20AE5	F4B11	KG141BC6	G2D10	RN1D1AX6	G5DD5	AV232AA2	H3D13	KE295AZ4	J23D2	RN111AN5
E3DD3	KP132BK2	E6ED2=	WSD20AC3	F4B12	KE121AK2	G2D11	RN1D1AV6	G5DD6	WB1D7AK4	H4BD2	KE295AV4	J23D3	RN111AH5
E3DD4	KC132AL2	F1A13=	AV232AP2	F4B13	KR242AA7	G2D12	KA2D2AX6	G5DD7	KN151AB2	H4BD3	RN121AP2	J23D4	RN111AK5
E3DD5	KP142BN6	F1B11=	WB107AJ4	F4DD2	KG131AX2	G2D13	RN1D1AW6	G5DD9	KN111AM2	H4BD4	KY1D1AS6	J2BD5	RN111AL5
E3DD6	PA1D1BM4	F1B13=	AV232AQ2	F4DD3	MB105AA4	G3BD2	KP1D2BG2	G5D10	KN1D1AU2	H4BD5	RN121AQ2	J2BD7	RN111AZ2
E3DD7	KY121AN6	F1C11=	WB107AK4	F4DD4	MB105AB4	G3BD3	RN111AM6	G5D11	KN1D1AT2	H4BD7	KY1D1AP6	J23D9	RN111BL5
E3DD9	KM161BA2	F1C13=	AV232AR2	F4DD6	KR252AA2	G3BD4	RN1D1AD6	G5D12	KC1D2CZ2	H43D8	KY1D1AQ6	J23I0	RN111AX5
E3DD10	PA1D1BH4	F1D11=	KA232BL6	F4DD7	RA1D1AW6	G3BD5	RN1D1AG6	G5D13	KN121BV2	H4BD9	RA111AL2	J2311	RN111AQ2
E3DD11	AV232AG2	F1E13=	AV232AS2	F4DD9	WSD20AF2	G3BD7	RN111BJ6	G6AD2=	WSD2DAD4	H4B10	AV232AN2	J2312	RN111AG5
E3DD12	AV232AD2	F2BD2	RA111AN2	F4D10	RA101AV2	G3BD8	KN121AN6	G6AD4=	WSD2DAG1	H4B11	AV232AL2	J2313	RN1D1AG5
E3DD13	KE295AW4	F2BD3	KE293AP4	F4D11	KG131AS2	G3BD9	RN1D1AS6	H1A11=	<E161CC6	H4312	AV232AK2	J2DD2	RN121BB5
E4BD2	KN121BN2	F2BD4	KE293AK4	F4D12	RA151AX2	G3B10	KN1D1BD2	H1A13=	WB1D3AM4	H4B13	AV162AM6	J2DD3	RN111AP2
E4BD3	KP132BY2	F2BD5	RA111AR2	F4D13	KG141BB6	G3B11	KA2D2BF6	H1B11=	<E2D1AY2	H4DD2	KE295AW4	J2DD4	RN111AY5
E4BD4	KE295BB4	F2BD7	PC101BK4	F5BD2	KR242AA2	G3B12	KN1D1BD6	H1C13=	WB1D5AK4	H4DD3	KC132AS2	J2DD5	RN131AM5
E4BD5	KP132AN2	F2BD9	RA131AS2	F5BD3	KR252AC7	G3B13	KN111AJ2	H1D11=	<E261AL6	H4DD4	AB151BC4	J2DD6	RN111BJ5
E4BD7	KP132AP2	F2B10	KE293AQ4	F5BD4	MB105AD4	G3DD2	KN121BJ2	H1D13=	WB1D5AL4	H4DD5	PC1D13K4	J2DD7	RN111BD2
E4BD8	KP1D2AR6	F2B11	RA111AM2	F5BD5	KG141AP2	G3DD3	RN1D1AY6	H1E11=	WB107AL4	H4DD6	KY121AL2	J2DD9	RN111BS2
E4BD9	KC122AJ6	F2B12	RA111AL2	F5BD7	WSD20AF4	G3DD4	KP1D2AX2	H1E13=	WB1D5AM4	H4DD7	KY1D1AL2	J2D10	RN111BC6
E4B10	KP152AG2	F2B13	RA1D1AQ2	F5BD8	KG131AQ2	G3DD5	KL111BL2	H2BD2	AB151AZ4	H4DD9	AV232AM2	J2D11	RN111AS2
E4B11	KP122AW6	F2DD2	KE293AR4	F5BD9	WSD20AF6	G3DD6	RN1D1AJ6	H2BD3	AB151BB4	H4D10	KY121AQ6	J2D12	RN131AJ5
E4B12	KN1218E6	F2DD3	KE293AT4	F5B10	KR242AC2	G3DD7	RN1D1AR6	H2BD4	AV232AR2	H4D11	KY121AN6	J2D13	RN131AB5
E4B13	KD141AT2	F2DD4	KE293AL4	F5B11	KG141AZ6	G3DD9	RN1D1AT6	H2BD5	AV222AM6	H4D12	AV2D2AM6	J33D2	RN1D1AJ5
E4DD2	AV232AF2	F2DD5	KE293AS4	F5B12	KR242AC7	G3D10	KC122AA6	H2BD7	AV232AH2	H4D13	AV232AC2	J33D3	RN1D1AH5
E4DD3	KE295BC4	F2DD6	RA121AW2	F5B13	KE121AP2	G3D11	MA152AS6	H2BD9	AV232AG2	H5B02	AV232AB2	J33D4	RN111BU5
E4DD4	MA262AG2	F2DD7	RA121AT2	F5DD2	KR252AC2	G3D12	KN1D1AK2	H2B10	RA121AT2	H5B03	AV232AA2	J33D5	RN111AE5
E4DD5	AV232AA2	F2DD9	PC101BM4	F5DD3	MB105AC4	G3D13	KC132AB6	H2B11	AV232AE2	H5B04	RA131AP2	J33D7	RN111BE5
E4DD6	KC122AS6	F2D10	RA101AM2	F5DD4	WSD20AE5	G4BD2	KN131AW2	H2B12	AV132BA6	H5D05	AV122AL2	J33D8	RN111AF2
E4DD7	KE295AV4	F2D11	RA111BK2	F5DD5	WSD20AE1	G4BD3	KA2D2AW6	H2B13	RA111AR2	H5BD7	AB151AM4	J33D9	RN111BR5
E4DD9	KA2D2AW6	F2D12	KE293AN4	F5DD6	KG141AQ2	G4BD4	KD111AV6	H2DD2	AV232AS2	H5B08	AV142AX2	J33I0	RN1D1AT5
E4D10	KP1D2CE2	F2D13	KE293AM4	F5DD7	KG141AN2	G4BD5	RN111AV6	H2DD3	AV232AQ2	H5B09	RA111AM2	J33I1	RN121AY5
E4D11	KC122AL6	F3BD2	RA131AQ2	F5DD9	KM111AS2	G4BD7	KD121AK6	H2DD4	AV142AY2	H5B10	RA131AR2	J33I2	RN1D1AD5
E4D12	RN111BD2	F3BD3	KG141AY6	F5D10	KE121AQ2	G4BD8	KN111BK2	H2DD5	AV232AP2	H5B11	RA111AN2	J3BI3	RN121AT5
E4D13	KP142BJ2	F3BD4	KE121AH2	F5D11	KC132AR6	G4BD9	KN131AZ2	H2DD6	AV232AT2	H5B12	RA131AQ2	J3DD2	RN131AL5
E5BD2	KP1D2AX2	F3BD5	KE121AR2	F5D12	MB105AG4	G4B10	RN121AM6	H2DD7	AB151AY4	H5B13	KY121AP6	J3DD3	RN131AK5
E5BD3	KD121AT6	F3BD7	KE121AM2	F5D13	MB105AH4	G4B11	KN1218E6	H2DD9	AV232AF2	H5DD2	AV232AD2	J3DD4	RN1D1AF5
E5BD4	KP142BQ6	F3BD8	KG141BE6	F6AD4=	WSD20AE7	G4B12	KN121AY6	H2D10	RA121AS2	H5DD3	AB151AV4	J3DD5	RN121AX5
E5BD5	KP142BT6	F3BD9	RA1D1AP2	F6BD2=	WSD20AC5	G4B13	AV232AB2	H2D11	AV232AJ2	H5DD4	AB151AK4	J3DD6	RN1D1AZ5
E5BD7	KP142BS6	F3B10	RA1D1AN2	F6BD4=	WSD20AF2	G4DD2	KD121AY6	H2D12	AV182AM6	H5DD5	RA111AP2	J3DD7	RN131AX5
E5BD8	KE161CC6	F3B11	RA111AQ2	F6CD2=	WSD20AC7	G4DD3	KN131AX2	H2D13	AB151BA4	H5DD6	AV142AN6	J3DD9	RN131AA5
E5BD9	KA2D2BC6	F3B12	RA111AP2	F6CD4=	WSD20AF4	G4DD4	KN1D1BN2	H3BD2	RA1D1AM2	H5DD7	KY131BD2	J3D10	RN121AW5
E5B10	PC121BQ4	F3B13	WSD20AD6	F6DD2=	WSD20AD2	G4DD5	KN121BD6	H3BD3	<E2958A4	H5DD9	AB151AL4	J3D11	RN111BM2
E5B11	PC121BR4	F3DD2	RA131AP2	F6ED4=	WSD20AF6	G4DD6	RN121BE4	H3BD4	<E295BC4	H5D10	RA131AS2	J3D12	RN111AR5
E5B12	KP142BR6	F3DD3	KE121AL2	G1A11=	KB141AS6	G4DD7	KN1D1BA6	H3BD5	RA121AW2	H5D11	KY121AZ6	J3D13	RN121AS5
E5B13	PC1D1AX4	F3DD4	KR262AE2	G1A13=	AV232AT2	G4DD9	KN121AX6	H3BD7	RA1D1AP2	H5D12	PC1D13M4	J43D2	RN1D1AL5
E5DD2	KA2D2AX6	F3DD5	KG141BF6	G2BD2	MA152AR6	G4D10	RN111BL6	H3BD8	AV142AT6	H5D13	KY131BE2	J43D3	RN1D1AR5
E5DD3	RN111BC6	F3DD6	MB105AJ4	G2BD3	KD121AG6	G4D11	KR262AL2	H3BD9	AV142AP6	H6AD2=	WB11DA34	J43D4	RN111BK5
E5DD4	KE295AZ4	F3DD7	KE121AN2	G2BD4	KC122AL6	G4D12	RN111AT6	H3B10	RA1D1AN2	H6AD4=	WB11DAA4	J43D5	RN1D1AX5
E5DD5	KD111AV6	F3DD9	KG141BA6	G2BD5	KN121BA2	G4D13	KN121BN2	H3B11	AV132BB2	H6BD2=	WB11DAC4	J43D7	RN111AV5
E5DD6	KP152AE6	F3D10	RA131AR2	G2BD7	KN121BC6	G5BD2	RN131AX6	H3B12	AV142AU6	H6CD4=	WB11DAD4	J43D8	RN1D1AW5

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION 01A-33

PIN IDU =-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTED 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.
J4B09	RN1118N6	K2D13	RN101AH6	K5DD6	KB101AA2	L4DD6	KR252AL2	M3BD4	KY131BD2	N23D2	KG1313S2	N4D11	RN1113R5
J4B10	RN101AV6	K3B02	KG131BH2	K5DD7	KC102CZ2	L4DD7	KE295AJ4	M3BD5	RA121AV2	N28D3	KG1313J6	N4D12	AV142AX2
J4B11	RN111AU6	K3B03	RN101AK6	K5DD9	KE295BC4	L4DD9	KE295BD4	M3BD7	KY101AP6	N2BD4	KG1314Q2	N4D13	KE295AZ4
J4B12	RN121AM6	K3B04	KA202AX6	K5D10	MA132AH4	L4D10	KE295AW4	M3BD8	RN101AE6	N2B05	KG1414P2	N5302	AV222AM5
J4B13	RN121AZ6	K3B05	KA202AN2	K5D11	KD131EHD	L4D11	RN101AW6	M3BD9	AV222AM6	N2309	KC122AS6	N5303	AV142AY2
J4DD2	RN121BC6	K3B07	KE161AQ2	K5D12	KL111BE2	L4D12	KE295BA4	M3B10	KC142AL2	N2B10	KD151AP2	N5B04	RN131AL5
J4DD3	RN101AK6	K3B08	KE295AV4	K5D13	PA101BL4	L4D13	KM121AG2	M3B11	AV182AM6	N2B11	KE161CC6	N5B05	RN121AT5
J4DD4	RN101AS6	K3B09	AV132BB2	K6AD4=	KM161AW2	L5BD2	KE295AZ4	M3B12	KY101AG6	N2312	KA242AA2	N5307	KR252AL2
J4DD5	AV232AH2	K3B10	KE293AL4	K6BD2=	KM161AH6	L5BD3	RN141AT6	M3B13	KD131DE6	N2313	RN101AZ5	N5308	KE295BA4
J4DD6	RN101AY6	K3B11	PC101AW4	K6BD4=	KM161AX2	L5BD4	KM121AA2	M3DD2	KC132AP6	N2DD2	KG1414Z6	N5309	KE295AX4
J4DD7	AV232AG2	K3B12	KB141AF4	L1D11=	KC132BF6	L5BD5	AV232AE2	M3DD3	KD131DU2	N2DD3	RN1113N6	N5B10	KD131AY2
J4DD9	AV232AF2	K3B13	KN101BJ6	L1D13=	KE121AH2	L5BD7	AV232AF2	M3DD5	KC132AQ2	N2DD4	KG1414N2	N5311	KG1414Q2
J4D10	AV232AE2	K3DD2	MA252AM2	L1E11=	KC132BR2	L5BD8	KM161AS2	M3DD6	RA151AU6	N2DD5	KG1313H2	N5312	AV222AM5
J4D11	RN121AN6	K3DD3	PC101BR4	L2BD2	KL101AZ4	L5BD9	KM161AP2	M3DD7	RN111AF2	N2DD6	RN1113C6	N5B13	RN131AA5
J4D12	RN111AT6	K3DD4	KB141AJ2	L2BD3	KE295AV4	L5B10	AV232AA2	M3DD9	WB103AM4	N2DD7	KG1413F6	N5DD2	AV232AF2
J4D13	RN141BG2	K3DD5	FC101BP4	L2BD7	KM151AB2	L5B11	AV232AB2	M3D10	KA202AX6	N2DD9	KA242AR6	N5DD3	KN111AN2
J5B02	AV232AD2	K3DD6	PC101BJ4	L2BD9	RN101AU6	L5B12	AV232AC2	M3D11	KC132AB6	N2D10	KG1413C6	N5DD4	RA101AV2
J5B03	AV232AB2	K3DD7	RN101AG6	L2B10	RN101AT6	L5B13	AV232AD2	M3D12	PC101BK4	N2D11	KC132AC6	N5DD5	KE295AW4
J5B04	AV232AA2	K3DD9	KE161CE4	L2B12	KA202BA2	L5DD2	KM161BA2	M4BD2	KN131AG6	N2D12	KD151AK2	N5DD6	AV122AL2
J5B05	RN111AM6	K3D10	KE295AU4	L2B13	RN101AS6	L5DD3	KE295BB4	M4BD4	RN121AX6	N2D13	KG1314X2	N5DD7	KE295AU4
J5B07	RN121BE4	K3D11	KR262AL2	L2DD2	KM111AG2	L5DD4	RN101AY6	M4BD5	KA242AB6	N3BD2	KG1314Y2	N5DD9	AV232AD2
J5B09	RN121AV2	K3D12	PC101BQ4	L2DD3	KL101BC2	L5DD5	KM161AQ2	M4BD9	KD111CA6	N3BD3	KC132AD6	N5D10	KY101AG5
J5B10	RN141AR6	K3D13	KB141AS6	L2DD4	KL131SA4	L5DD6	KM161AR2	M4B11	RN121AS6	N3BD4	KY111AH2	N5D11	AV232AE2
J5B11	AV232AJ2	K4BD2	KC132AY6	L2DD5	KL101BB4	L5DD7	AV232AG2	M4B12	KY121AL2	N3BD5	RN101AG6	N5D12	RN111BU5
J5B12	RN141AT6	K4BD3	KC122AN6	L2DD6	KL131BA4	L5DD9	AV232AH2	M4DD4	KD151AP2	N3BD7	KD121AK6	N5D13	KG1214K2
J5B13	KD141BC6	K4BD4	PA101BH4	L2DD9	KN111AM2	L5D10	KM161AV2	M4DD5	KY111AH2	N3BD8	RN111AZ2	N6AD2=	WS02DAJ7
J5DD2	RN101AU6	K4BD5	KA312AN6	L3BD2	RN101AR6	L5D11	KM161AW2	M4DD6	KD121AG6	N3BD9	RN111AY6	N6AD4=	MB105AN4
J5DD3	AV232AC2	K4BD7	KE293AN4	L3BD5	KC132AB6	L5D12	KM161AX2	M4DD9	KY101AL2	N3B10	KC132AB6	N6BD4=	KA322AG2
J5DD4	RN101AE6	K4BD8	KE293AS4	L3BD8	KE121AL2	L5D13	KM161AJ2	M4D11	RN131AL6	N3311	KA2023C6	N6CD2=	KC1323M6
J5DD5	RN121AQ2	K4BD9	KC142AT6	L3BD9	KM161AY2	L6DD2=	WS02DAH4	M4D12	RA101AV2	N3B12	KG141AY6	N6ED2=	KC132BL2
J5DD6	RN121AP2	K4B10	KC122AA6	L3B10	KE121AK2	L6DD4=	WB107AL4	M5BD2	RN101AZ6	N3B13	KG1413D6	N6ED4=	WS02JAH2
J5D11	KD141AE2	K4B11	AB141AA2	L3B11	PA101AT4	L6ED2=	WS02DAH6	M5BD3	RN131AB6	N3DD2	RN121AW6	P1E11=	KC102AP2
J6AD2=	WB110AJ4	K4B12	KE295AZ4	L3B12	PA101BJ4	M1A13=	KE121AJ2	M5BD4	KD151AK2	N3DD3	RN111AL6	P1E13=	KC122AA2
J6BD4=	KM161AP2	K4B13	KC122AE6	L3B13	KM101AZ6	M1B11=	KC132BA6	M5BD5	KD121AN6	N3DD4	KD121BD6	P2BD2	KC142AD2
J6CD2=	KM161AR2	K4DD2	KB141AW2	L3DD2	MA282AU2	M1B13=	KE121AK2	M5BD7	KC132AC6	N3DD5	KA2423T6	P2BD3	RN101AX5
J6C04=	KM161AQ2	K4DD3	KE293AT4	L3DD3	KL111BL2	M1C11=	KC132BC6	M5BD8	KC132AD6	N3DD6	KD111AV6	P2BD4	RA111BK2
J6DD2=	KM161AU2	K4DD4	KP152AD2	L3DD4	KD151AL6	M1C13=	KE121AL2	M5BD9	KD121AT6	N3DD7	AV232AA2	P2BD5	KL121AS2
J6DD4=	KM161AS2	K4DD5	KE293AP4	L3DD5	KE141AW6	M1D11=	KC142AP6	M5B10	RN121AZ6	N3DD9	KN101AK2	P2BD7	KL111BE2
J6E02=	KM161AV2	K4DD6	KN101AU2	L3DD6	AV232AJ2	M1E13=	KE121AM2	M5B11	RN131AA6	N3D10	KC132AA6	P2BD9	KL131AV4
K1A13=	KC142BD2	K4DD7	KA312BK6	L3DD7	KD141AR6	M2BD2	KY131BX2	M5B12	KY121AQ6	N3D11	KD111CA6	P2B10	KL101AY2
K1B11=	KA212AY2	K4DD9	RN141BG2	L3DD9	KE121AP2	M2BD3	KE295BC4	M5B13	KY121AP6	N3D12	KD121AT6	P2B11	RN101AJ5
K1B13=	KE141AW6	K4D10	WS020AH4	L3D10	KD141AL2	M2BD4	KY131CF2	M5DD2	RN121AY6	N3D13	WB105AK4	P2B12	KC132AB5
K2B02	KE293AM4	K4D11	KY131BX2	L3D11	KM171BV2	M2BD5	RN121AN6	M5DD3	KY121AZ6	N4BD2	KG1413E6	P2B13	KL131AW4
K2B03	RN101AE6	K4D12	KC132BQ6	L3D12	KN121AN6	M2BD7	KY101AQ6	M5DD5	KD121AY6	N4BD3	KG1413A6	P2DD2	RN101AH5
K2B04	KE295BD4	K4D13	KA242AB6	L3D13	PC101BJ4	M2BD9	KY111BW4	M5D10	KY101AS6	N4BD4	KA2023A2	P2DD3	KL131SA4
K2B05	RN101AL6	K5BD2	KN101BN2	L4BD2	KE121AN2	M2B10	KA312AJ6	M6AD4=	WB105AL4	N4BD5	KC142AF2	P2DD4	KL131BA4
K2B07	KE293AK4	K5BD3	RA111BK2	L4BD3	KM161AH6	M2B11	KC132AR6	M6BD2=	WS020AJ5	N4BD7	PC101AV4	P2DD5	RN101AR5
K2B10	RN101AJ6	K5BD4	WB107AF4	L4BD4	KL131AV4	M2B12	RN101AD6	M6BD4=	WB105AK4	N4BD8	WS02JAE7	P2DD6	RN101AW5
K2B11	RN101AD6	K5BD5	PA101BN4	L4BD5	KL131AW4	M2B13	KC132AS2	M6CD2=	WS020AJ1	N4BD9	AV232AB2	P2DD7	KC1423K5
K2B12	KE261AL6	K5BD7	KC122AS6	L4BD7	KA242AB6	M2DD2	KR262AL2	M6CD4=	WB105AM4	N4B10	KE295BD4	P2DD9	KC142BP5
K2B13	KG131BJ6	K5BD8	KN111AJ2	L4BD8	KE295AX4	M2DD4	KY121AN6	M6DD2=	WS020AJ3	N4B11	RN121AY6	P2D10	KC152BF2
K2DD2	KE295AX4	K5BD9	KC132AD6	L4BD9	RN101AV6	M2DD6	KE295AX4	M6ED4=	KA322AE2	N4B13	KD121AN6	P2D11	KD121AC5
K2DD3	KB121BS0	K5B10	KE295BA4	L4B10	RN111AE6	M2DD7	WB105AL4	N1A11=	KC152AQ6	N4DD2	KE295AV4	P2D12	RN131AM5
K2DD4	RN141AR6	K5B11	PA101AS4	L4B11	KE295BC4	M2DD9	AV202AM6	N1A13=	KE121AN2	N4DD3	KG1413B6	P2D13	RN101AS5
K2DD6	RN101AF6	K5B12	KE295AW4	L4B12	RN101AX6	M2D10	KA202BC6	N1B11=	KC152AR6	N4DD4	WS020AE5	P3BD2	KC122AG5
K2DD7	KE295BB4	K5B13	KC102AJ6	L4B13	KM161AZ2	M2D11	AV162AM6	N1B13=	KE121AP2	N4DD5	KC142AG2	P3BD3	KN131AZ2
K2DD9	KE295BB4	K5DD2	KN101AT2	L4DD2	KE121AJ2	M2D12	KD111AV6	N1C11=	KC152AS4	N4DD6	KL111BE2	P3BD4	KA202AX5
K2D10	KD121AZ6	K5DD3	KN101BL2	L4DD3	KE121AM2	M2D13	RA101AP2	N1D13=	KE121AQ2	N4DD7	KN131AJ6	P3BD5	PC111AX4
K2D11	KE293AQ4	K5DD4	KB141BK2	L4DD4	WS02DAG1	M3BD2	KL111BE2	N1E11=	KC152AT4	N4DD9	KY121AZ6	P3BD7	KD131DE5
K2D12	KE293AR4	K5DD5	KA312BR2	L4DD5	KM111AS2	M3BD3	KY131BE2	N1E13=	KE121AR2	N4D10	KY121AQ6	P3BD9	KD121AH5

PART NO. 4835280 E.C. NO. 828457 VERSION D06 SIZE SINGLE MACHINE CPU15FST LOCATION D1A-33

PIN IDD *-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTED 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.
R3B09	KC142AB2	Q2B05	AB151AK4	Q5B03	MB105AC4	R3D02	PA101AP4	S2B08	YE111CK4	S5B03	KD121BD2	T3B09	KD141AR5
R3B10	KD141AL2	Q2B07	AB241AB2	Q5B04	MB105AD4	R3D03	KA202AN2	S2B09	KD121AV2	S5B04	KD121AN6	T3B11	KC132AV5
R3B11	KD111AV6	Q2B09	AB151BB4	Q5B05	KD131EH0	R3D04	KC122AE6	S2B10	RN111AM6	S5B05	AB131AK4	T3B12	KC122AS2
R3B12	KD121AJ6	Q2B10	AB151AN4	Q5B07	RA151AX2	R3D05	KC122AJ6	S2B11	KD121AW2	S5B07	KC102CZ2	T3B13	KC122AE5
R3B13	KD121AK6	Q2B11	AV142AU6	Q5B08	KL111BP2	R3D06	KA232AB2	S2B12	KD121AT6	S5B08	RN111AE2	T3B06 V	YE111304
R3D02	KC122AJ6	Q2B12	AV142AN6	Q5B09	AB121AJ6	R3D10	KA312BR2	S2B13	KD121AB6	S5B09	KA2023F6	T3D02	KC132AP5
R3D03	KC102AZ2	Q2B13	AB241AH2	Q5B10	KC132BC6	R3D11	KD1318W2	S2D02	KD131EH0	S5B10	KA2423S2	T3D03	KC132BM5
R3D04	KC132AA6	Q2D02	AB151AY4	Q5B11	KC132AD6	R3D12	KC122AQ6	S2D03	KA222BK6	S5311	KN111AL2	T3D04	KC142A32
R3D05	PC1116N4	Q2D03	AB151BA4	Q5B12	KC142BK6	R3D13	KA202BC6	S2D04	KD131EJ6	S5312	KC122AA6	T3D05	KC122AC5
R3D06	RN121AX6	Q2D04	AB151AM4	Q5B13	KL111BE2	R4B02	KA222D01	S2D05	KN101BA6	S5313	KD141AE2	T3D06	KC122AS6
R3D07	RN101AU6	Q2D05	AV142AW6	Q5D02	AB141AA2	R4B03	KA202AW6	S2D06	RN111AK6	S5D02	KD141AS2	T3D07	KC122AC2
R3D09	KD121AL6	Q2D06	AV142AQ6	Q5D03	KD121AK6	R4B04	KN131AM6	S2D07	KD121AZ6	S5D03	WB107AK4	T3D09	KC132AS2
R3D10	KD121AM6	Q2D07	AV142AV6	Q5D04	KC122AE6	R4B05	KD121AK6	S2D09	KC122AL6	S5D04	KD141AR6	T3D10	KC132AY5
R3D11	KD131EH0	Q2D09	AB241AG2	Q5D05	MB105AE4	R4B07	KA202BF6	S2D10	KG121AK2	S5D05	WS020AD6	T3D11	KC142AN2
R3D12	KD121AN6	Q2D10	AB241AF2	Q5D06	KD121BD6	R4B08	KA202DD6	S2D11	RN111BU6	S5D06	KC142AM6	T3D13	KC122AL2
R3D13	KD121BD6	Q2D11	AV142AP6	Q5D07	MB105AF4	R4B09	KC122AN6	S2D12	RN111AH6	S5D07	KD141BC6	T4B02	KC122AE2
R4B02	RN111AL6	Q2D12	AB241AA2	Q5D09	MB105AG4	R4B10	KA212BA2	S2D13	KC132AD6	S5D09	RN121BC6	T4B03	KC132AR5
R4B03	KD111CA6	Q2D13	AB151BC4	Q5D10	MB105AH4	R4B11	PA101AW4	S3B02	KA242AC2	S5D10	KD141AL2	T4B05	KC122AU5
R4B04	RN131AA6	Q3B02	WS020AG1	Q5D11	MB105AJ4	R4B12	KC122AS6	S3B03	RA101AW6	S5D11	KN111AN2	T4B06 V	YE111354
R4B05	KL101AZ4	Q3B03	AB241AD2	Q5D12	RN111AZ2	R4B13	KD131AY2	S3B04	RN121BB6	S5D12	KD141AT2	T4B07	KC142BP5
R4B07	KA242AC2	Q3B04	AB241AJ2	Q5D13	KC142BP6	R4D02	KA222AK6	S3B05	RN121AX6	S5D13	KD121AK6	T4B08	KC122AN2
R4B08	KL111BP2	Q3B07	AB241AE2	R1A13=	KC122AJ2	R4D03	PA101AV4	S3B07	RN111AL6	T1A11=	PC101AW4	T4B09	KC132AD6
R4B09	KD121AG6	Q3B08	MB104AA4	R1B11=	KC122AQ6	R4D04	KM171BV2	S3B08	RN111AP2	T1A13=	KA101AT2	T4B10	KC132AC5
R4B10	KL101BB4	Q3B09	MB104AB4	R1B13=	KC122AL2	R4D05	WB103AN4	S3B09	KN131AH6	T1311=	PC101AX4	T4B11	KC122AQ5
R4B12	KC132AQ2	Q3B10	MB104AC4	R1C11=	WB103AN4	R4D06	KC122AL6	S3B10	KC122AS6	T1C13=	KA202AX6	T4B12	KC122AS2
R4B13	KC122AS6	Q3B11	KG141BB6	R1C13=	KC122AN2	R4D07	KA202BA2	S3B11	KC122AG6	T1D11=	PC101BJ4	T4B13	KC142AP5
R4D02	RN101AT6	Q3B12	WS020AE3	R1D11=	KC132AV6	R4D09	KC122AA6	S3B12	KN111BK2	T1D13=	KA202DE4	T4D05 V	YE111354
R4D04	RN121BB6	Q3B13	WS020AE7	R1E13=	KC122AQ2	R4D10	KA232D01	S3B13	KD111AV6	T1E11=	PC101BK4	T4D02	KC122AJ2
R4D05	KD151AL6	Q3D02	AB241AC2	R2B02	WB107AH4	R4D11	PC111BM4	S3D02	KD121AF2	T1E13=	KC102CW2	T4D03	KC142AM5
R4D06	KD121AB6	Q3D03	AV142AR6	R2B03	PC111BL4	R4D12	KC152AD2	S3D03	KD151AL6	T2B02	KA242AA2	T4D04	KC142AD2
R4D07	RN111BK6	Q3D04	AB131AV6	R2B04	KD121BD6	R4D13	KA312BS2	S3D04	KD111CA6	T2B03	KC132AA6	T4D05	KC132AQ2
R4D09	PC111BR4	Q3D05	AV142AT6	R2B05	PC111BJ4	R5B02	KC102CZ2	S3D05	KD131DE6	T2304	KD121AT6	T4D06	KC152AD2
R4D10	PC111BQ4	Q3D06	AV132BA6	R2B07	KC122AC6	R5B03	PC121BQ4	S3D06	KY111AH2	T2305	KC142AF2	T4D07	KC122AJ5
R4D11	KG131BH2	Q3D09	KC122AN6	R2B09	KA222BH2	R5B04	KA202DE4	S3D07	PA101AQ4	T2B06	YE111BA4	T4D09	KC132BA5
R4D12	KC122AE6	Q3D10	WS020AE1	R2B10	KA242BQ2	R5B05	PC111AJ4	S3D09	KD131BW2	T2B07	KC152AS4	T4D10	KC1423K5
R5B02	KC122AN6	Q3D11	WS020AD6	R2B11	KA242AR6	R5B07	KB141AJ2	S3D10	KC102AN6	T2308	YE111354	T4D11	KC122AQ2
R5B03	RN101AY6	Q3D13	WS020AE5	R2B12	PA101BF4	R5B08	KA202AX6	S3D11	KP102AR6	T2309	KY1113W4	T4D12	KC142AT5
R5B04	KL101BC2	Q4B02	WS020AF2	R2B13	PA101AR4	R5B09	KA222BS6	S3D12	KN111BB2	T2B10	KA202AX6	T4D13	KA101AT2
R5B05	RN101AV6	Q4B03	KG141BC6	R2D02	KA232D02	R5B10	PC101AJ4	S3D13	KL111BE2	T2B11	KC132AL2	T5302	RN111BN5
R5B07	PC111BP4	Q4B04	MB104AD4	R2D03	KA212AY2	R5B11	PC111BK4	S4B02	RN111AS2	T2312	RN111BU6	T5303	KC1323R2
R5B08	WB105AM4	Q4B05	MB104AF4	R2D04	KA232BM2	R5B12	WB107AK4	S4B03	KA222BG2	T2313	RN111BC6	T5304	KC152AQ5
R5B10	KL111BJ2	Q4B07	KG141BE6	R2D05	KL131AN0	R5B13	KA232AG6	S4B04	KD131DU2	T2C06	YE111BA4	T5B05	KD111AV5
R5B13	KL131AN0	Q4B08	MB104AG4	R2D06	KD121AG6	R5D02	PC121BR4	S4B05	KD121AY6	T2D02	KC132A36	T5305 V	YE111BK4
R5D03	RN111BJ6	Q4B09	KG141BD6	R2D07	KA222BG2	R5D03	RN101AW6	S4B07	KA212BA2	T2D03	KC132AQ6	T5308	KC142CZ2
R5D04	PA101BH4	Q4B10	KG141AZ6	R2D09	KC102AN6	R5D04	RN111BE6	S4B08	KD121AJ6	T2D04	KC152AT4	T5B09	KC122AA2
R5D05	KD121AT6	Q4B11	MB104AJ4	R2D10	PA101BH4	R5D05	KA312AF2	S4B09	KD1318D2	T2D05	KC122AA6	T5B10	KA232AS2
R5D06	KA202BC6	Q4B12	KG141BF6	R2D11	KA242BT6	R5D06	KA212AA2	S4B10	KD151AK2	T2D06	KD131EJ6	T5B11	KC142AP2
R5D07	KL111BL2	Q4B13	MB105AA4	R2D12	KA212AX2	R5D07	PC111AV4	S4B11	RN111AQ2	T2D07	KC122AN6	T5B12	PC111BM4
R5D09	KD151AK2	Q4D02	WS020AF6	R2D13	KA212AW2	R5D09	KA242BS2	S4B12	RN111AU6	T2D09	KA222342	T5B13	KC142AU2
R5D11	KL111BK2	Q4D03	AB131AK4	R3B02	KA242AC2	R5D10	KA242AB6	S4B13	RN111AZ2	T2D10	KC122AL6	T5C05 V	YE111BK4
R5D13	KM101AZ6	Q4D04	KA202AX6	R3B03	PA101AQ4	R5D11	KA222BK6	S4D02	KA202AX6	T2D11	KC102AJ6	T5D02	KC132305
C1A11=	KC102AU2	Q4D05	MB104AE4	R3B04	KC132AL2	R5D12	KA222AJ6	S4D05	KC102AJ6	T2D12	KA242302	T5D04	KC1523F2
C1B13=	KC122AC2	Q4D06	KG141BA6	R3B05	KA242AA2	R5D13	PA101AS4	S4D06	KC122AJ6	T2D13	KC132A36	T5D05	KC1323L2
C1C11=	KC122AC6	Q4D07	WS020AF4	R3B07	KA312AU6	S1A11=	KC132AJ2	S4D07	KD121AG6	T3B02	KC102AZ2	T5D07	KC142AG2
C1C13=	KC122AE2	Q4D09	KD121AZ6	R3B08	KC122AJ6	S1A13=	KC122AS2	S4D09	RN111AX6	T3B03	KE201AY2	T5D10	KA232AG5
C1D11=	KC122AG6	Q4D10	MB104AH4	R3B09	KB141AF4	S2B02	RN121BN6	S4D10	KD131AY2	T3304	KC142AL2	T5D11	KC142302
C1D13=	KC122AG2	Q4D11	KC142AN2	R3B10	PC121AV4	S2B03	KD121AM6	S4D11	KD151AP2	T3305	KC132AJ2	T5D12	KC102CW2
C1E11=	KC122AL6	Q4D12	KC102CZ2	R3B11	KA242AD2	S2B04	KD121AC6	S4D12	KD121AH6	T3B06 V	YE111304	T5D13	KC102AN5
C2B02	AB151AL4	Q4D13	KC122AQ2	R3B12	KA232AS2	S2B05	KD121AL6	S4D13	RN111AG6	T3B07	KC152AR6	U1A11=	PC1 1BL4
C2B04	AB151AZ4	Q5B02	MB105AB4	R3B13	KA232BL6	S2B07	RN111AN6	S5B02	KD121BD6	T3308	KC1323=6	U1313=	PC111AW4

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION 01A-33

PIN IDO =-I/O PIN
*-I/O & LOGIC
V-VOLTAGE/GROUND
NOTED 'T' FOLLOWING PIN LOCATION INDICATES TERMINATING RESISTOR

PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.	PIN	NET NO.
U1C11=	PC101BM4	U4D12	KC122AN6	V3C04	YE111CA3	V5D13	PC121BQ4						
U1C13=	KA222BS6	U4D13	KA312004	V3C06	YE111BF4								
U1D11=	PC101BP4	U5B02	KA322AY2	V3C07	YE111CA4								
U1D13=	KE161AT2	U5B03	KA222BH2	V3C11	YE111CA5								
U1E11=	PC101BQ4	U5B04	KC132BM6	V3C12	YE111CA6								
U2B02	KM161AY2	U5B05	KA312BS2	V3D02	PA101AP4								
U2B05	KA202AW6	U5B06 V	YE111BL4	V3D03	PA101BG4								
U2B06	YE111BB4	U5B07	KA312BY6	V3D04	YE111CA3								
U2B07	KL131AN0	U5B08	KA202DD6	V3D05	PA101BF4								
U2B08	YE111CG4	U5B09	AB131AV6	V3D06	PA101BH4								
U2B09	KD121AG6	U5B10	KA312AF2	V3D07	PA101BJ4								
U2B10	KD121AK6	U5B11	KA242AA2	V3D09	PA101AU4								
U2B11	KD121AH6	U5B12	KA322003	V3D10	PA101BM4								
U2B13	KD121AB6	U5B13	KA312BF6	V3D11	PA101AV4								
U2C06	YE111BB4	U5C06 V	YE111BL4	V3D12	YE111CA6								
U2D02	KD121AM6	U5D02	KA312AN6	V3D13	PA101BL4								
U2D03	KD111AV6	U5D03	KC122AA6	V4B02	KA222AK6								
U2D04	KD121AN6	U5D04	PA101BG4	V4B04	PC111AL4								
U2D05	KD121BD6	U5D05	KC122AJ6	V4B05	PC111BK4								
U2D06	KD121AL6	U5D06	KA312AU6	V4B06	YE111BJ4								
U2D07	KD121AC6	U5D07	KA312BR2	V4B07	YE111CB2								
U2D09	KM161AZ2	U5D09	KA322AW6	V4B08	YE111CK4								
U2D10	KD121AJ6	U5D10	PC111BM4	V4B09	PC111AV4								
U2D13	KM161BA2	U5D11	KY131CF2	V4B10	PC111AX4								
U3B02	PA101AS4	U5D12	PA101AS4	V4B11	YE111CB3								
U3B03	KA232AS2	U5D13	WS320AJ7	V4B12	PC111BN4								
U3B04	PA101AW4	V1A13=	PC101AU4	V4B13	PC111BR4								
U3B05	KA242AC2	V1B11=	PC101BR4	V4C06	YE111BJ4								
U3B06	YE111BE4	V1B13=	PC101AV4	V4C07	YE111CB2								
U3B07	KA222BH2	V2B02	KB101AA2	V4C11	YE111CB3								
U3B08	YE111CK4	V2B05	PB121003	V4C12	YE111CB4								
U3B09	CS101AG6	V2B06	YE111BC4	V4D02	PC111D04								
U3C06	YE111BE4	V2B07	KA222BK6	V4D03	KE161AT2								
U3D02	KA232AB2	V2B08	YE111CG4	V4D04	KB141AW2								
U3D03	KA212AA2	V2B09	KC122AG6	V4D05	PC111BL4								
U3D04	KA242AD2	V2B10	KC122AC6	V4D06	PC111BJ4								
U3D05	WB107AG4	V2B11	KC122AL6	V4D07	PC111AU4								
U3D06	KD131BD2	V2B13	KC122AJ6	V4D09	PC111BM4								
U3D07	CS101AK2	V2C06	YE111BC4	V4D10	PC111AW4								
U4B02	KA322AK6	V2D02	PB121006	V4D11	PC111BP4								
U4B03	WS020AJ5	V2D03	PB121004	V4D12	YE111CB4								
U4B04	KN121AY6	V2D04	PB121005	V4D13	PC111BQ4								
U4B05	KA322AH6	V2D05	KC122AE6	V5B02	MA282AX6								
U4B06	YE111BH4	V2D06	KC122AU6	V5B04	PC121AL4								
U4B07	PA101BF4	V2D07	KC122AS6	V5B06	YE111BM4								
U4B09	KA322AL6	V2D09	KC122AN6	V5B07	YE111CC2								
U4B10	KN131AW2	V2D10	KC122AQ6	V5B08	YE111CK4								
U4B11	KA312BK6	V2D13	KC122AA6	V5B09	PC121AV4								
U4B12	WS020AH6	V3B02	PA101AR4	V5B10	PC121AX4								
U4B13	WS020AJ1	V3B03	YE111CA2	V5B11	YE111CC3								
U4C06	YE111BH4	V3B04	PA101AQ4	V5B13	PC121BR4								
U4D02	WS020AJ3	V3B05	PA101AS4	V5C06	YE111BM4								
U4D03	KA312CE6	V3B06	YE111BF4	V5C07	YE111CC2								
U4D04	WS020AH2	V3B07	YE111CA4	V5C11	YE111CC3								
U4D05	KA322AJ6	V3B09	PA101AT4	V5C12	YE111CC4								
U4D06	PC121AX4	V3B10	PA101AW4	V5D02	MA282AM6								
U4D07	KA322AE2	V3B11	YE111CA5	V5D03	MA282AN6								
U4D09	KA322AG2	V3B12	PA101BQ4	V5D04	PC121D04								
U4D10	KN131AX2	V3B13	PA101BN4	V5D10	PC121SB4								
U4D11	KB141BK2	V3C03	YE111CA2	V5D12	YE111CC4								

PART NO. 4835280 E.C. NO. 828457 VERSION DD6 SIZE SINGLE MACHINE CPU15FST LOCATION D1A-33

VOLTAGE PINS

A2C06	-4.0	A3C06	-4.0	A4C06	-4.0	A5C06	-4.0	B2A14	-4.0
B2C06	-4.0	B3A14	-4.0	B3C06	-4.0	B3E01	-4.0	B4A14	-4.0
B4C06	-4.0	B4E01	-4.0	B5C06	-4.0	B5E01	-4.0	C2C06	-4.0
C3C06	-4.0	C4C06	-4.0	C5C06	-4.0	D1B13	-4.0	D1E13	-4.0
C2B06	-4.0	D3B06	-4.0	D4B06	-4.0	D5B06	-4.0	D6B05	-4.0
C6C02	-4.0	E2B06	-4.0	E3B06	-4.0	E4B06	-4.0	E5B06	-4.0
F2B06	-4.0	F3B06	-4.0	F4B06	-4.0	F5B06	-4.0	G1E13	-4.0
G1D10	-4.0	G2B06	-4.0	G3B06	-4.0	G4B06	-4.0	G5B06	-4.0
G6C05	-4.0	G6D02	-4.0	H2B06	-4.0	H3B06	-4.0	H4B06	-4.0
H5B06	-4.0	J2B06	-4.0	J3B06	-4.0	J4B06	-4.0	J5B06	-4.0
K1E13	-4.0	K2B06	-4.0	K3B06	-4.0	K4B06	-4.0	K5B06	-4.0
K6E05	-4.0	L1A10	-4.0	L2B06	-4.0	L3B06	-4.0	L4B06	-4.0
L5B06	-4.0	L6A02	-4.0	M2B06	-4.0	M3B06	-4.0	M4B06	-4.0
M5B06	-4.0	N2B06	-4.0	N3B06	-4.0	N4B06	-4.0	N5B06	-4.0
P1B13	-4.0	P1C10	-4.0	P2B06	-4.0	P3B06	-4.0	P4B06	-4.0
R5B06	-4.0	P6B05	-4.0	P6C02	-4.0	Q2B06	-4.0	Q3B06	-4.0
C4B06	-4.0	Q5B06	-4.0	R2B06	-4.0	R3B06	-4.0	R4B06	-4.0
R5B06	-4.0	S1C13	-4.0	S1D10	-4.0	S2B06	-4.0	S3B06	-4.0
S4B06	-4.0	S5B06	-4.0	S6C05	-4.0	S6D02	-4.0	T2C06	-4.0
T3C06	-4.0	T4C06	-4.0	T5C06	-4.0	J2A14	-4.0	U2C06	-4.0
U3A14	-4.0	U3C06	-4.0	U3E01	-4.0	U4A14	-4.0	U4C06	-4.0
U4E01	-4.0	U5C06	-4.0	U5E01	-4.0	V2C06	-4.0	V3C06	-4.0
V4C06	-4.0	V5C06	-4.0						
A1E13	GND	A2C03	GND	A2C04	GND	A2C07	GND	A2C11	GND
A2C12	GND	A2D08	GND	A3C03	GND	A3C04	GND	A3C07	GND
A3C11	GND	A3C12	GND	A3D08	GND	A4C03	GND	A4C04	GND
A4C07	GND	A4C11	GND	A4C12	GND	A4D08	GND	A5C03	GND
A5C04	GND	A5C07	GND	A5C11	GND	A5C12	GND	A5D08	GND
A6E04	GND	B1A11	GND	B1D13	GND	B1E11	GND	B2C03	GND
B2C04	GND	B2C07	GND	B2C11	GND	B2C12	GND	B2D08	GND
B2E14	GND	B3A01	GND	B3C03	GND	B3C04	GND	B3C07	GND
B3C11	GND	B3C12	GND	B3D08	GND	B3E14	GND	B4A01	GND
B4C03	GND	B4C04	GND	B4C07	GND	B4C11	GND	B4C12	GND
B4D08	GND	B4E14	GND	B5A01	GND	B5C03	GND	B5C04	GND
B5C07	GND	B5C11	GND	B5C12	GND	B5D08	GND	B6A02	GND
B6D04	GND	B6E02	GND	C1C13	GND	C1D11	GND	C2C03	GND
C2C04	GND	C2C07	GND	C2C11	GND	C2C12	GND	C2D08	GND
C3C03	GND	C3C04	GND	C3C07	GND	C3C11	GND	C3C12	GND
C3D08	GND	C4C03	GND	C4C04	GND	C4C07	GND	C4C11	GND
C4C12	GND	C4D08	GND	C5C03	GND	C5C04	GND	C5C07	GND
C5C11	GND	C5C12	GND	C5D08	GND	C6C04	GND	C6D02	GND
C1B10	GND	D1C13	GND	D2D08	GND	D3D08	GND	D4D08	GND
C5D08	GND	D6B02	GND	D6C05	GND	E1A13	GND	E1B11	GND
E1E13	GND	E2D08	GND	E3D08	GND	E4D08	GND	E5D08	GND
E6A04	GND	E6B02	GND	E6E04	GND	F1A11	GND	F1D13	GND
F1E11	GND	F2D08	GND	F3D08	GND	F4D08	GND	F5D08	GND
R6A02	GND	F6D04	GND	F6E02	GND	G1C10	GND	G1D13	GND
G2D08	GND	G3D08	GND	G4D08	GND	G5D08	GND	G6C02	GND
G6D05	GND	H1B13	GND	H1C11	GND	H2D08	GND	H3D08	GND
H4D08	GND	H5D08	GND	H6B04	GND	H6C02	GND	J1A13	GND
J1B11	GND	J1E13	GND	J2D08	GND	J3D08	GND	J4D08	GND
J5D08	GND	J6A04	GND	J6B02	GND	J6E04	GND	K1A11	GND
K1E10	GND	K2D08	GND	K3D08	GND	K4D08	GND	K5D08	GND
K6A02	GND	K6E02	GND	L1A13	GND	L1E13	GND	L2D08	GND
L3D08	GND	L4D08	GND	L5D08	GND	L6A05	GND	L6E04	GND
M1A11	GND	M1D13	GND	M1E11	GND	M2D08	GND	M3D08	GND
M4D08	GND	M5D08	GND	M6A02	GND	M6D04	GND	M6E02	GND
N1C13	GND	N1D11	GND	N2D08	GND	N3D08	GND	N4D08	GND
N5D08	GND	N6C04	GND	N6D02	GND	P1B10	GND	P1C13	GND
R2D08	GND	P3D08	GND	P4D08	GND	P5D08	GND	P6D02	GND

PART NO. 4835280 E.C. NO. 828457 VERSION 006 SIZE SINGLE MACHINE CPU15FST LOCATION 01A-33

VOLTAGE PINS

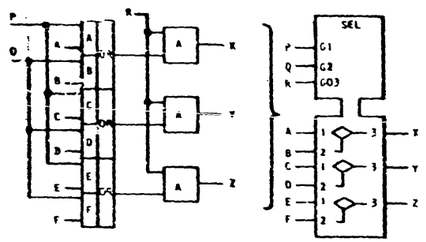
R6C05	GND	Q1A13	GND	Q1B11	GND	Q1E13	GND	Q2D08	GND
C3D08	GND	Q4D08	GND	Q5D08	GND	Q6A04	GND	Q6B02	GND
C6E04	GND	R1A11	GND	R1D13	GND	R1E11	GND	R2D08	GND
R3D08	GND	R4D08	GND	R5D08	GND	R6A02	GND	R6D04	GND
R6E02	GND	S1C10	GND	S1D13	GND	S2D08	GND	S3D08	GND
S4D08	GND	S5D08	GND	S6C02	GND	S6D05	GND	T1B13	GND
T1C11	GND	T2C03	GND	T2C04	GND	T2C07	GND	T2C11	GND
T2C12	GND	T2D08	GND	T3C03	GND	T3C04	GND	T3C07	GND
T3C11	GND	T3C12	GND	T3D08	GND	T4C03	GND	T4C04	GND
T4C07	GND	T4C11	GND	T4C12	GND	T4D08	GND	T5C03	GND
T5C04	GND	T5C07	GND	T5C11	GND	T5C12	GND	T5D08	GND
T6B04	GND	T6C02	GND	U1A13	GND	U1B11	GND	U1E13	GND
U2C03	GND	U2C04	GND	U2C07	GND	U2C11	GND	U2C12	GND
U2D08	GND	U2E14	GND	U3A01	GND	U3C03	GND	U3C04	GND
U3C07	GND	U3C11	GND	U3C12	GND	U3D08	GND	U3E14	GND
U4A01	GND	U4C03	GND	U4C04	GND	U4C07	GND	U4C11	GND
U4C12	GND	U4D08	GND	U4E14	GND	U5A01	GND	U5C03	GND
U5C04	GND	U5C07	GND	U5C11	GND	U5C12	GND	U5D08	GND
U6A04	GND	U6B02	GND	U6E04	GND	V1A11	GND	V2C03	GND
V2C04	GND	V2C07	GND	V2C11	GND	V2C12	GND	V2D08	GND
V3C03	GND	V3C04	GND	V3C07	GND	V3C11	GND	V3C12	GND
V3D08	GND	V4C03	GND	V4C04	GND	V4C07	GND	V4C11	GND
V4C12	GND	V4D08	GND	V5C03	GND	V5C04	GND	V5C07	GND
V5C11	GND	V5C12	GND	V5D08	GND	V6A02	GND		

FOR ANY VOLTAGE PIN NOT INDICATED IN THE VOLTAGE PIN LIST, USE THE NET NUMBER TO LOCATE THE ALD PAGE FOR DETERMINING THE VOLTAGE INFORMATION

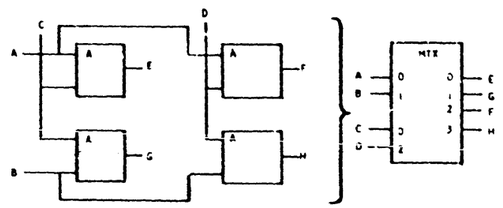
END OF LIST

LOGIC SYMBOLOGY
FUNCTIONAL

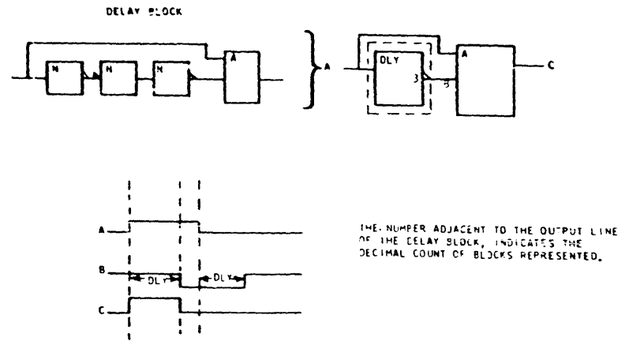
SELECTOR THE SELECTOR IS A GATING DEVICE. THE UPPER SECTION OF THE BLOCK CONTAINS THE GATES. THESE LINES ARE DESIGNATED (P=GATE IN) OR (GATE OUT). THE LOWER SECTION CONTAINS THE GATED DATA LINES. THE DIAMOND (◇) DESIGNATES AN OR FUNCTION AND ELECTRICAL ISOLATION.



MATRIX (MTX) THE MTX BLOCK IS SIMILAR TO THE DECODER EXCEPT AT LEAST ONE ACTIVE INPUT MUST BE PRESENT IN EACH INPUT GROUP TO ACTIVATE AN OUTPUT.

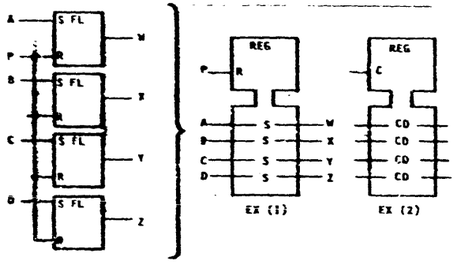


DELAY BLOCK



THE NUMBER ADJACENT TO THE OUTPUT LINE OF THE DELAY BLOCK, INDICATES THE DECIMAL COUNT OF BLOCKS REPRESENTED.

REGISTER THE REGISTER IS A STORAGE DEVICE COMPOSED OF STORAGE BLOCKS (FF, FL, PH) WHICH HAVE SOME COMMON CONTROL SUCH AS SET, RESET, ETC. THESE COMMON LINES ENTER THE UPPER SECTION OF THE BLOCK. THE LOWER SECTION CONTAINS THE INDIVIDUAL STORAGE UNIT'S CONTROL.

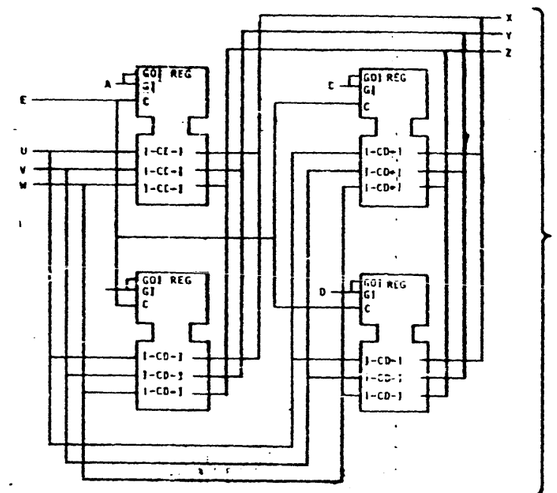


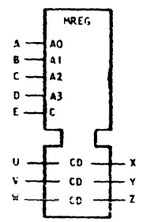
NOTE: REGISTERS CAN ALSO CONTAIN GATING AS EXPLAINED IN THE SELECTOR.

NOTE: EX (1) IS COMPOSED OF FL'S; EX (2) IS COMPOSED OF PH'S; EX (3) IS COMPOSED OF FF'S; EX(4) IS AN EXAMPLE OF A BINAY COUNTER

MULTIPLE REGISTERS (MREG)

MULTIPLE REGISTERS (MREG) SYMBOLIZE MANY REGISTERS WHICH HAVE COMMON DATA AND COMMON INPUT/OUTPUT GATING. THE GATES ARE SHOWN AS ADDRESS LINES (A0, A1, ETC).

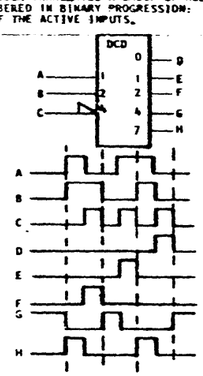




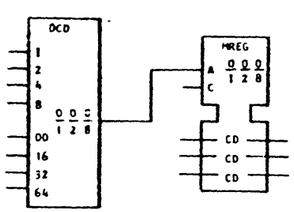
THE MULTIPLE REGISTER SYMBOL CAN BE USED TO REPRESENT ROS, LSR, SDR, AND MONOLITHIC MEMORIES. THE UNSCOPABLE ADDRESS LINES ARE 'BINOLED' AND SHOWN AS ONE LINE FROM THE ADDRESS DECODER TO THE MREG. IN THE EXAMPLE THE DECODER ADDRESSES 128 3-BIT WORDS. THE $\frac{000}{128}$ DEPICTS THE ADDRESS RANGE 000 THRU 128.

WIRING INTO THE STORAGE UNIT REQUIRES AN ADDRESS LINE AND THE CONTROL LINE TO BECOME ACTIVE. READING FROM THE STORAGE UNIT REQUIRES AND ADDRESS LINE ONLY.

DECODER (DCD) THE DECODER TRANSLATES A GROUP OF RELATED INPUTS INTO A SPECIFIC OUTPUT. INPUTS ARE NUMBERED IN BINARY PROGRESSION: 1, 2, 4, 8, AND SO ON. THE OUTPUT EQUALS THE SUM OF THE ACTIVE INPUTS.



NOTE: THE INPUTS MAY BE BROKEN INTO GROUPS TO ALLOW LARGE ADDRESS DECODING. SEE MREG.



EC HISTORY		DRAWING TITLE
816756	30DEC70	
		MACH
		PART NO 7369304
		CLASSIFICATION

D

IBM CORP

A-1-01

LOGIC SYMBOLOGY
ANALOG

EDGE OF BLOCK CHARACTERS

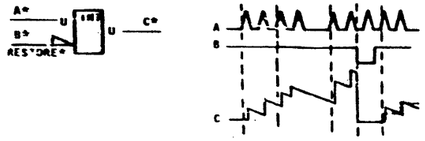
U (UP) LINE IS ACTIVE IN VOLTAGE MODE WHEN AMPLITUDE IS MOST POSITIVE OR CURRENT MODE WHEN MAGNITUDE OF CURRENT INCREASES.

D (DOWN) LINE IS ACTIVE WHEN AMPLITUDE IS MOST NEGATIVE (VOLTAGE MODE) OR WHEN CURRENT DECREASES (CURRENT MODE).

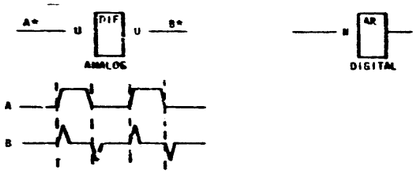
F FREQUENCY DEPENDENT SIGNAL SUCH AS AUDIO OR RADIO.

C INDICATES PRESENCE OF SHOT DURATION PULSES WHICH HAVE BEEN MODULATED THROUGH SAMPLING AN ANALOG SIGNAL AT INTERVALS.

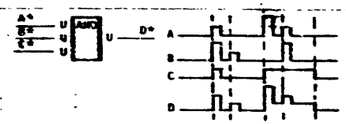
INTEGRATOR THE AMPLITUDE OF THE OUTPUT SIGNAL IS A TIME INTEGRAL OF THE AMPLITUDE OF THE INPUT SIGNAL. IF THERE IS A RESTORE LINE IT IS PLACED TOWARD THE BOTTOM OF THE BLOCK. AN ACTIVE RESTORE LINE WILL RETURN THE OUTPUT TO IT'S NO-SIGNAL LEVEL



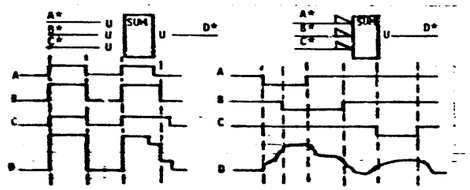
DIFFERENTIATOR THE AMPLITUDE OF THE OUTPUT SIGNAL IS A FUNCTION OF THE TIME RATE OF CHANGE OF A SIGNAL APPLIED AT THE INPUT. IN DIGITAL LOGIC, THE EFFECT OF DIFFERENTIATION SHALL BE SHOWN THROUGH THE USE OF THE LETTERS P OR N AT THE INPUT OF THE LOGIC BLOCK.



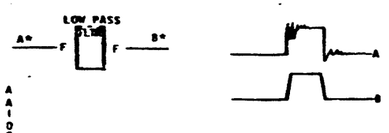
ANALOG OR THE AMPLITUDE OF THE OUTPUT SIGNAL WILL STAND AT A VALUE CORRESPONDING TO THAT OF THE INPUT SIGNAL HAVING THE GREATEST AMPLITUDE IN THE DIRECTION SHOWN BY THE LIKE INPUT EDGE OF BLOCK CHARACTER, WHICH MUST BE THE SAME FOR ALL INPUTS. THE INPUTS MUST BE IN THE SAME SIGNAL MODE AS THE OUTPUT.



SUM CIRCUIT THE AMPLITUDE OF THE OUTPUT SIGNAL WILL STAND AT A VALUE CORRESPONDING TO THE ALGEBRAIC SUM OF THE (WEIGHTED) VALUES OF THE INPUT SIGNALS. THE OUTPUT SHALL BE AN ANALOG SIGNAL WITH THE APPROPRIATE EDGE OF BLOCK CHARACTER (U OR D) SHOWN.



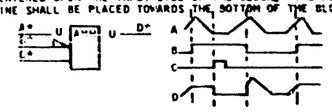
FILTER THE OUTPUT SIGNAL WILL CORRESPOND TO THAT APPLIED AT THE INPUT EXCEPT FOR AMPLITUDE VARIATIONS RESULTING FROM THE FREQUENCY RESPONSE CHARACTERISTICS OF THE FILTER. WHERE BANDPASS ACTION (WIDE OR NARROW) IS ACCOMPANIED BY AMPLIFICATION, THIS MAY BE SHOWN THROUGH USE OF THE AR SYMBOL WITH APPROPRIATE BLOCK TITLE. IT IS RECOMMENDED THAT THE TYPE OF FILTERING ACTION BE SHOWN IN THE BLOCK TITLE INFORMATION, FOR EXAMPLE: LOW PASS, HIGH PASS, ETC.



AMPLITUDE HOLD UPON APPLICATION OF A SIGNAL OF INDICATED POLARITY AT THE CONTROL INPUT, THE OUTPUT SIGNAL WILL ASSUME AN AMPLITUDE CORRESPONDING TO THAT WHICH IS APPEARING AT THE DATA INPUT. WHEN, SUBSEQUENTLY, THE CONTROL SIGNAL IS CAUSED TO ASSUME (NO POLARITY OPPOSITE TO THAT INDICATED, THE OUTPUT SIGNAL WILL HOLD AT WHATEVER AMPLITUDE IT POSSESSES AT THAT MOMENT.

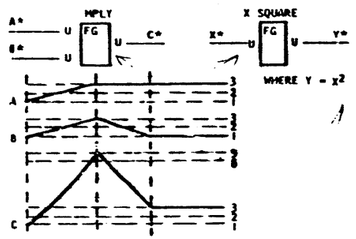
THE AMH SYMBOL NEED NOT HAVE A RESTORE INPUT. IF IT IS SUPPLIED WITH ONE, THEN THE POLARITY INDICATED ON THE SYMBOL SHALL BE THAT WHICH WILL CAUSE THE OUTPUT TO ASSUME ITS NO-SIGNAL LEVEL.

THE CONTROL AND RESTORE SIGNALS ARE, OR SHALL BE, TREATED AS BINARY SIGNALS. THE OUTPUT LINE SHALL BE PLACED TOWARD THE TOP OF THE BLOCK. THE DATA LINE SHALL BE PLACED OPPOSITE THE OUTPUT LINE. THE CONTROL LINE SHALL BE CENTERED UPON THE INPUT SIDE OF THE BLOCK. THE RESTORE LINE SHALL BE PLACED TOWARDS THE BOTTOM OF THE BLOCK.

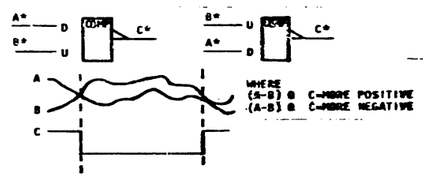


FUNCTION GENERATOR THIS SYMBOL MAY BE USED FOR DEVICES HAVING ONE OR MORE SIGNAL INPUTS. IT SHALL NOT BE USED WHERE ANOTHER SYMBOL OR COMBINATION OF SYMBOLS DEFINED IN THIS STANDARD (ANALOG OR BINARY) CAN BE USED TO DESCRIBE THE INTENDED FUNCTION.

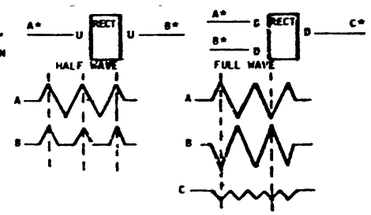
THE AMPLITUDE OF THE OUTPUT SIGNAL WILL ASSUME A VALUE WHICH IS A PARTICULAR MATHEMATICAL FUNCTION OF THE VALUE OF THE INPUT SIGNALS. INPUTS AND OUTPUTS SHALL BE TREATED AS ANALOG SIGNALS (U OR D). IT IS RECOMMENDED THAT THE MATHEMATICAL OPERATION BE SHOWN IN THE BLOCK TITLE AREA; FOR EXAMPLE, MPLY, DIV, X SQUARED, X CUBED, ETC.



COMPARATOR THE OUTPUT OF THE COMPARATOR ASSUMES ITS INDICATED POLARITY WHEN AND ONLY WHEN THE SIGNAL ON EITHER OF THE TWO INPUTS REACHES OR EXCEEDS, IN THE DIRECTION INDICATED BY THE U OR D INDICATOR, THE VOLTAGE EXISTING ON THE OTHER INPUT. THE OUTPUT SIGNAL OF THE COMPARATOR IS ESSENTIALLY TWO-VALUED, THE PERIOD OF TRANSITION BETWEEN THE TWO STATES BEING PURPOSELY MADE AS BRIEF AS POSSIBLE BY THE CHARACTERISTICS OF THE DEVICE.



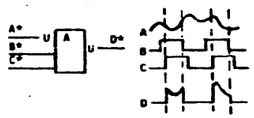
RECTIFIER THE AMPLITUDE OF THE OUTPUT CORRESPONDS, AT ANY POINT IN TIME, TO THAT INPUT WHOSE AMPLITUDE EXCEEDS A PARTICULAR REFERENCE LEVEL IN THE DIRECTION INDICATED.



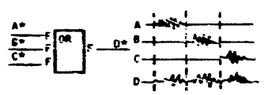
MIXER THE MIXER IS RESTRICTED TO USE WITH TWO INPUTS, EACH OF WHICH IS AN F TYPE SIGNAL. THE OUTPUT IS AN F TYPE SIGNAL WHICH CONTAINS SUM AND DIFFERENCE FREQUENCIES OF THE TWO INPUTS, INTENTIONALLY PRODUCED THROUGH NON LINEAR ACTION IN THE DEVICE. IF FILTERING IS INCLUDED IN THE CIRCUIT, THEN THE OUTPUT FREQUENCY SHOULD BE INDICATED IN THE BLOCK TITLE.

DETECTOR THE DETECTOR IS A DEVICE WHICH ACTS UPON F TYPE SIGNALS TO RECOVER A CARRIED SIGNAL OF LOWER FREQUENCY, OFTEN AN AUDIO SIGNAL.

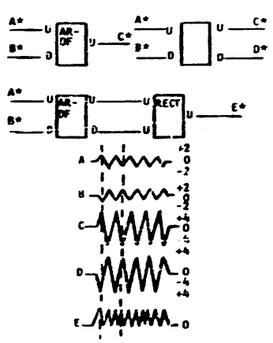
AND, WHEN USED WITH AN ANALOG INPUT, THE OUTPUT SIGNAL WILL CORRESPOND TO THE INPUT SIGNAL APPLIED TO THE ANALOG INPUT WHEN AND ONLY WHEN ALL DIGITAL INPUTS STAND AT THEIR INDICATED POLARITIES. AT OTHER TIMES, THE OUTPUT WILL ASSUME ITS NO SIGNAL VALUE. THE NUMBER OF ANALOG INPUTS IS RESTRICTED TO ONE.



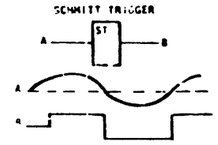
OR, WHEN USED WITH ANALOG INPUTS, THE OUTPUT SIGNAL WILL CORRESPOND TO THAT OF THE PARTICULAR ANALOG INPUT SIGNAL BEING APPLIED AT THE TIME. IT IS ASSUMED THAT THE OUTPUT WILL NOT BE MEANINGFUL DURING SUCH TIME THAT MORE THAN ONE SIGNAL INPUT EXISTS.



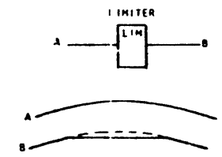
DIFFERENTIAL AMPLIFIER THE DIFFERENTIAL AMPLIFIER PRODUCES AN OUTPUT SIGNAL WHICH CORRESPONDS TO THE SIGNED DIFFERENCE IN VOLTAGE OF TWO INPUT SIGNALS. THE OUTPUT(S) WILL SHIFT IN THE DIRECTION OF THE INDICATED POLARITY WHEN THE SIGNAL ON EITHER OF THE TWO INPUTS EXCEEDS, IN THE DIRECTION INDICATED BY ITS POLARITY INDICATOR, THE VOLTAGE EXISTING ON THE OTHER INPUT.



SCHMITT TRIGGER THE OUTPUT OF THE SCHMITT TRIGGER GOES TO ITS INDICATED POLARITY WHEN THE INPUT CROSSES THE THRESHOLD IN THE DIRECTION OF THE INDICATED POLARITY. THE OUTPUT REMAINS AT THE INDICATED POLARITY UNTIL THE INPUT SIGNAL CROSSES THE THRESHOLD IN THE OPPOSITE DIRECTION.



LIMITER THE LIMITER BLOCK SETS ONE OR BOTH EXTREMES OF A WAVEFORM TO A PREDETERMINED LEVEL WITHOUT UNINTENTIONAL DISTORTION OF THE REMAINING WAVEFORM.



EC HISTORY		DRAWING TITLE
816750	30DEC70	
		MACH
		PART NO 7369306
		CLASSIFICATION

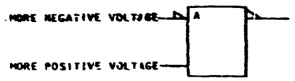
D

IBM CORP

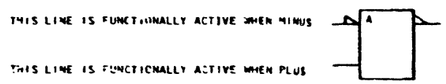
A4-02

LOGIC SYMBOLOGY
BASIC

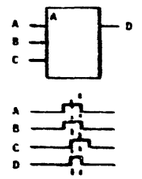
POLARITY IS INDICATED BY A WEDGE (▷) OR NO-WEDGE.



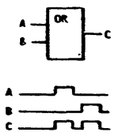
ACTIVE LEVEL IS THE LINE LEVEL THAT CONFORMS TO THE EDGE OF BLOCK CHARACTER FOR THAT LINE



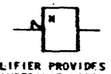
AND THE OUTPUT OF THE AND BLOCK IS ACTIVE ONLY WHEN ALL OF ITS INPUTS ARE ACTIVE. THE LETTERS IN THE BLOCK ARE THE SYMBOL OF THE FUNCTION. IN THIS CASE, 'A' IS THE SYMBOL FOR THE AND FUNCTION. THE INPUTS MAY BE MIXED TO ANY BLOCK.



OR THE OUTPUT OF THE OR BLOCK IS ACTIVE ONLY WHEN ONE OR MORE OF ITS INPUTS ARE ACTIVE.

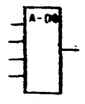


INVERTER THE OUTPUT OF THE INVERTER IS OF OPPOSITE POTENTIAL TO THE INPUT.

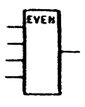


AMPLIFIER THE AMPLIFIER PROVIDES ADEQUATE DRIVING ENERGY AND AN APPROPRIATE IMPEDANCE MATCH TO OTHER BLOCKS. THE AMPLIFIER OUTPUT IS ACTIVE ONLY WHEN THE INPUT IS ACTIVE. AN AMPLIFIER HAVING INPUT OR OUTPUT OF OTHER THAN STANDARD LOGGIC SIGNAL VOLTAGE HAS DISTINCTIVE LABELING AT THE BLOCK.

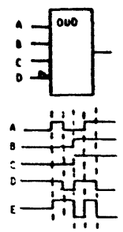
THRESHOLD THE OUTPUT OF THE THRESHOLD IS ACTIVE ONLY WHEN THE NUMBER OF ACTIVE INPUTS REACHES OR EXCEEDS THE NUMBER SPECIFIED IN THE FUNCTION SYMBOL. (N) = MINIMUM NUMBER OF ACTIVE INPUTS REQUIRED FOR AN ACTIVE OUTPUT.



EVEN COUNT THE OUTPUT OF EVEN COUNT (EVEN) IS ACTIVE ONLY WHEN AN EVEN NUMBER (SUCH AS 0, 2, 4, AND 6) OF INPUTS ARE ACTIVE.

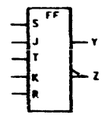


ODD COUNT THE OUTPUT OF ODD COUNT (ODD) IS ACTIVE ONLY WHEN AN ODD NUMBER (SUCH AS 1, 3, 5, AND 7) OF INPUTS ARE ACTIVE

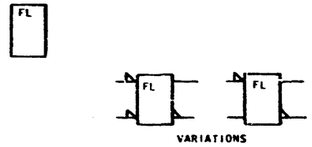


FLIP-FLOP THE FLIP-FLOP HAS TWO STABLE STATES. ONE OF THESE IS THE '1' STATE OR SET STATE; THE OTHER IS THE '0' STATE OR CLEAR STATE. THE FLIP-FLOP BLOCK NORMALLY HAS TWO OUTPUTS, A '1' OUTPUT AND A '0' OUTPUT. IN THE ALDS, A LINE FROM THE UPPER PART OF THE BLOCK REPRESENTS THE '1' OUTPUT AND A LINE FROM THE LOWER PART OF THE BLOCK REPRESENTS THE '0' OUTPUT.

A FLIP-FLOP CAN HAVE FIVE TYPES (S, R, J, K, AND T) OF INPUTS, IN DIFFERENT COMBINATIONS. INPUTS J AND K, RESPECTIVELY, ACT LIKE INPUTS S AND R IN THE FLIP LATCH EXCEPT THAT SIMULTANEOUS APPLICATION OF A J SET AND K RESET WILL COMPLEMENT THE OUTPUT. THE T INPUT COMPLEMENTS EACH OUTPUT. IN THE FF EXAMPLE A SIMULTANEOUS S-R (SET-RESET) INPUT CAUSES OUTPUT Y TO FOLLOW THE SET (+) AND OUTPUT Z TO FOLLOW THE RESET (+). IF ANY OTHER INPUTS ARE ACTIVE DURING SIMULTANEOUS S-R INPUT, THE OUTPUTS ARE UNDEFINED.

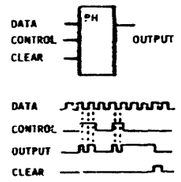


FLIP FLOP LATCH OR FLIP LATCH THE DEFINITION OF THIS DEVICE IS THE SAME AS THAT GIVEN FOR FLIP FLOP EXCEPT THAT SIMULTANEOUS APPLICATION OF ACTIVE SIGNALS AT THE '1' INPUT AND THE '0' INPUT WILL CAUSE THE '1' OUTPUT AND '0' OUTPUT TO BOTH GO TO THE NEGATIVE POLARITY OR BOTH GO TO THE POSITIVE POLARITY (DEPENDING UPON THE CHARACTERISTICS OF THE PARTICULAR CIRCUIT TYPE) FOR THE DURATION OF SUCH SIMULTANEOUS INPUT APPLICATION. COMPLEMENT INPUT IS NOT APPLICABLE TO THIS BLOCK.



POLARITY HOLD THE OUTPUT OF THIS BLOCK WILL FOLLOW THE DATA (CD) LINE AS LONG AS THE CONTROL LINE IS ACTIVE. WHEN THE CONTROL INPUT GOES INACTIVE THE OUTPUT REMAINS AT WHATEVER POLARITY IT POSSESSES AT THAT MOMENT. THE PH BLOCK MAY HAVE A CLEAR INPUT. IF SO, WHEN THE CLEAR INPUT IS ACTIVE THE OUTPUT IS INACTIVE.

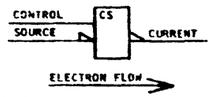
THE OUTPUT LINE IS TOWARD THE TOP OF THE BLOCK. THE DATA LINE IS THE INPUT LINE TOWARD THE TOP OF THE BLOCK. THE CONTROL LINE IS CENTERED ON THE INPUT SIDE OF THE BLOCK. THE CLEAR LINE IS TOWARD THE BOTTOM OF THE BLOCK.



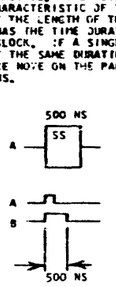
CONVERTER THE CONVERTER BLOCK PROVIDES THE NECESSARY CONVERSION BETWEEN TWO TYPES OF LOGIC: VOLTAGE MODE TO CURRENT MODE, VOLTAGE TO VOLTAGE, ETC. AN INDICATION OF INPUT AND OUTPUT VOLTAGE LEVELS, OR LINE TYPES, MAY BE SHOWN IN THE TITLE AREA OF THE BLOCK.

CURRENT SWITCH AT TIMES THE PURPOSE OF A CIRCUIT IS TO ALLOW A FLOW OF CURRENT (EITHER IN OR OUT UNDER LOGIC VOLTAGE CONTROL. WHEN THIS CONDITION EXISTS, THE CIRCUIT CANNOT CAUSE THE CURRENT TO FLOW SOLELY THROUGH ELECTRICAL ACTION AT ITS OWN LOGIC INPUT. BECAUSE OF THE SERIES FLOW OF THIS CURRENT THROUGH OTHER CONTROLLING CIRCUITS, THE CIRCUIT MAY BE GIVEN THE FUNCTION LABEL CS (CURRENT SWITCH).

THE CONTROL INPUT OF THE CS IS PLACED TOWARD THE TOP OF THE BLOCK. SENDING A SIGNAL OF INDICATED POLARITY TO THIS INPUT ALLOWS (NOT NECESSARILY CAUSES) THE FLOW OF CURRENT THROUGH THE BLOCK IN THE DIRECTION INDICATED BY THE POLARITY SYMBOL AT THE OUTPUT SIDE OF THE BLOCK (ON THE CURRENT LINE). A NEGATIVE POLARITY SYMBOL, FOR EXAMPLE, INDICATED ELECTRON FLOW AWAY FROM THE OUTPUT SIDE. A LINE OPPOSITE THE OUTPUT LINE IS ASSUMED TO BE THE SAME CURRENT LINE, SEPARATED BY THE CIRCUITRY OF THE CS. THE POLARITY INDICATION FOR THIS LINE IS THE SAME AS THAT OF THE CORRESPONDING OUTPUT LINE.



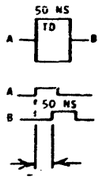
SINGLESHOT
THE OUTPUT OF THE SINGLESHOT BECOMES ACTIVE WHEN THE INPUT IS ACTIVE. THE OUTPUT REMAINS IN THIS STATE FOR A TIME CHARACTERISTIC OF THE PARTICULAR BLOCK, REGARDLESS OF THE LENGTH OF THE INPUT SIGNAL. THE SINGLE-SHOT ALWAYS HAS THE TIME DURATION SHOWN IN THE TITLE AREA OF THE BLOCK. IF A SINGLESHOT HAS MORE THAN ONE OUTPUT NOT OF THE SAME DURATION, THE BLOCK IS LABELED OR A REFERENCE NOTE ON THE PAGE RELATES PIN NUMBERS TO TIME DURATIONS.



EXCLUSIVE OR THE OUTPUT OF AN EXCLUSIVE OR BLOCK IS ACTIVE WHEN ONLY ONE OF ITS INPUTS IS ACTIVE.

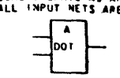
TIME DELAY THE TIME DELAY BLOCK DELAYS A SIGNAL WITHOUT DISTORTION OF THE SIGNAL. THE TIME DELAY SYMBOL MUST ALWAYS BE ACCOMPANIED BY THE TIME DELAY.

TIME DELAYS HAVING A DELAY TIME FOR THE LEADING EDGE OF THE OUTPUT THAT IS DIFFERENT FROM THE TIME DELAY FOR TRAILING EDGE ARE IDENTIFIED BY THE PLACEMENT OF AN 'L' FOR LEADING AND A 'T' FOR TRAILING IMMEDIATELY PRIOR TO THE SEPARATE DELAY TIMES IN THE BLOCK AREA. THE INPUT POLARITY AT THE BLOCK MUST BE THAT ASSOCIATED WITH THE LEADING EDGE OF THE OUTPUT.

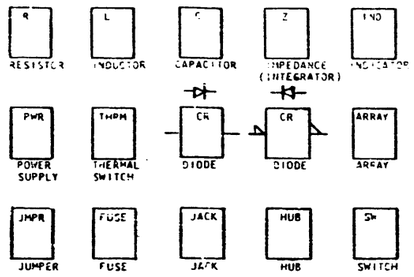


DOT BLOCK A DOT BLOCK REPRESENTS AN EXTERNAL CONNECTION OF TWO OR MORE NETS. IF ONE OF THE NETS BECOMES ACTIVE, IT WILL FORCE ALL NETS TO THE ACTIVE LEVEL. BLOCKS WHICH ARE CONNECTED IN THIS FASHION WILL HAVE A WEDGE (▷) OR A PLUS (+) SYMBOL UNDER THEIR OUTPUT LINES INDICATING THE LEVEL OF THE ACTIVE DOT.

NOTE: DOT AND BLOCKS OPERATE AS AND'S - OUTPUT IS ACTIVE ONLY WHEN ALL INPUT NETS ARE ACTIVE.



COMPONENT BLOCKS



EDGE OF BLOCK CHARACTER AN EDGE OF BLOCK CHARACTER, ALONGSIDE AN EDGE (MST) BLOCK SERVES THE FOLLOWING FUNCTIONS:

E AN EXTENDER; IN COMBINATION WITH A 'K' INPUT, SHOWS THAT ADDITIONAL BLOCKS ACT AS INPUTS TO THE FIRST BLOCK.

K AT THE OUTPUT OF A BLOCK, 'K' INDICATES THAT THE LINE CONNECTS TO ANOTHER OUTPUT. AT THE OUTPUT OF A BLOCK AND CONNECTED TO AN 'E' OUTPUT OF ANOTHER BLOCK, 'K' INDICATES THE NONLOGICAL FUNCTION OF AN EXTENDER.

X A NONLOGIC INPUT OR OUTPUT. THE DRIVING CIRCUIT TO THIS INPUT IS USUALLY A FIXED VOLTAGE OR BIAS. AN X LINE DOES NOT INFLUENCE THE STATE OF A CIRCUIT.

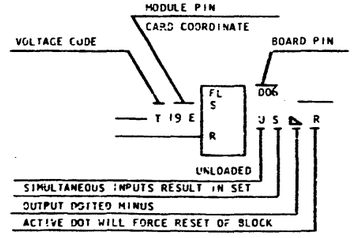
P A POSITIVE-GOING SHIFT OR PULSE ACTIVATES THE BLOCK.

N A NEGATIVE-GOING SHIFT OR PULSE ACTIVATES THE BLOCK.

T A TEST POINT. DO NOT CONFUSE THIS WITH 'T' AS AN INPUT VOLTAGE CHARACTER.

VOLTAGE CODES

CODE	MINIMUM UP LEVEL (VOLTS)	MINIMUM DOWN LEVEL (VOLTS)
B	2.5 TO 2.1	1.9 TO 1.5
C	2.5 TO 2.1	1.5 TO 1.0
D	1.9 TO 1.6	1.4 TO 1.0
E	2.0 TO 1.6	0.9 TO 0.6
F	3.9 TO 3.5	0.5 TO 0.3
G	2.5 TO 2.1	0.5 TO 0.3
H	2.0 TO 1.6	0.5 TO 0.3
J	1.5 TO 1.1	0.5 TO 0.3
K	0.7 TO 0.5	0.4 TO 0.2
Y	0.3	-0.3
Z	-1.0	-1.5



BLOCK CHARACTERS

C	CONTROL LINE OF PH
CD	CONTROLLED DATA LINE OF PH
J	SET LINE, SEE FLIP FLOP
K	RESET LINE, SEE FLIP FLOP
R	RESET LINE
S	SET LINE
T	COMPLIMENT LINE. SEE FLIP FLOP
U	UNLOADED OUTPUT
X	NON LOGICAL LINE (EXM, BIAS)
*	INDICATED OFF BOARD CONNECTION OR LABELED LOAD RESISTOR

EC HISTORY		DRAWING TITLE
816756	30DEC70	
		MACH
		PART NO 7365305
		CLASSIFICATION

D

IBM CORP

A A I O O

P/N 5554972 A6002

5415 POWER SUPPLY JUMPER OPTIONS

THIS PAGE CONTAINS DISCRETE JUMPER WIRES TO BE REMOVED. THE FEATURE AND JUMPER LOCATION:

BSCA/MLTA	5555079 5555080 5555175 5555177	POWER SEQUENCE CONTROL BOX	RPTB2-6 TO RPTB2-7
2560	5555044	POWER SEQUENCE CONTROL BOX	RPTB1-1 TO RPTB1-2
#3 BULK P/S	5555171 5555172 5555173 5555174	POWER SUPPLY #2	TPB12-C TO TPB12-D TPB13-E TO TPB13-F TPB14-C TO TPB14-D TPB14-G TO TPB14-H

DATE	EC NO	DATE	EC NO	DATE	EC NO	DATE	EC NO
	02APR3K	27APR73	821493				

P/N 5558996 224K MEMORY FEATURE WIRE LIST A6011

THIS PAGE CONTAINS ALL THE WIRES ON THE 01A-B3 BOARD FOR A 224K MEMORY.

THE FOLLOWING BLACK WIRES P/N 811695 ARE ADDED:

CODE	BOARD PN	LOWEST BOARD EC	NET NUMBER	PIN LOC		PIN LOC
	5554840		KN101BD6	A-B3G2G12	TO	A-B3D2U10
				A-B3D2U11	TO	A-B3D2U13
				A-B3D2U10	TO	A-B3D2U11

3844

NO Black wire

EC 824916
DATE 14JAN75

P/N 5558995 192K MEMORY FEATURE WIRE LIST A6011

THIS PAGE CONTAINS ALL THE WIRES ON THE 01A-B3 BOARD FOR THE 192K MEMORY.

THE FOLLOWING BLACK WIRES P/N 811695 ARE ADDED:

CODE	BOARD PN	LOWEST BOARD EC	NET NUMBER	PIN LOC		PIN LOC
	5554840		KN101BD6	A-B3G2G12	TO	A-B3D2U11
				A-B3D2U11	TO	A-B3D2U13

EC 824916 825071
DATE 14JAN75 15OCT75

A1 CONNECTOR
D11 KE251BM4
D13 KC102AP2
E11 KE251BN4

A2 CONNECTOR
B02 MC131AE6
B04 MC131AF6
B05 MC131AG6
B06 MC131AH6
B08 MC131AJ6
B09 MC131AK6
B10 MC131AL6
B12 MC131AM6
B13 MC131AN6
D02 MC121AE6
D03 MC121AF6
D05 MC121AG6
D06 MC121AH6
D07 MC121AJ6
D09 MC121AK6
D10 MC121AL6
D11 MC121AM6
D13 MC121AN6

A3 CONNECTOR
B02 MC231AE6
B04 MC231AF6
B05 MC231AG6
B06 MC231AH6
B08 MC231AJ6
B09 MC231AK6
B10 MC231AL6
B12 MC231AM6
B13 MC231AN6
D02 MC221AE6
D03 MC221AF6
D05 MC221AG6
D06 MC221AH6
D07 MC221AJ6
D09 MC221AK6
D10 MC221AL6
D11 MC221AM6
D13 MC221AN6

A4 CABL
WA992 AG

A4 CONNECTOR
B02 KE295AV4
B04 KE295AW4
B05 KE295AX4
B06 KE295AZ4
B08 KE295AW4
B09 KE295BA4
B10 KE295BB4
B12 KE295BC4
B13 KE295BD4
D02 KE271AK4
D03 KE271AL4
D05 KE271AM4
D06 KE271AN4
D07 KE271AP4
D09 KE271AQ4
D10 KE271AR4
D11 KE271AS4
D13 KE271AT4

A6 CONNECTOR
D02 RN111BD2
D04 KE401BZ6
E02 RN111BL6

B1 CONNECTOR
A13 KD121BD2
B11 KE251BP4
B13 KD121AF2
C11 KE251BQ4
C13 KD121AW2
D11 KE251AY4
E13 KD121AV2

B2 CONNECTOR
B02 MC111AE6
B04 MC111AF6
B05 MC111AG6
B06 MC111AH6
B08 MC111AJ6
B09 MC111AK6
B10 MC111AL6
B12 MC111AM6
B13 MC111AP6
D02 MC101AE6
D03 MC101AF6
D05 MC101AG6
D06 MC101AH6
D07 MC101AJ6
D09 MC101AK6
D10 MC101AL6
D11 MC101AM6

B2 D13 MC101AN6

B3 CONNECTOR
B02 MC211AE6
B04 MC211AF6
B05 MC211AG6
B06 MC211AH6
B08 MC211AJ6
B09 MC211AK6
B10 MC211AL6
B12 MC211AM6
B13 MC211AP6
D02 MC201A.6
D03 MC201AF6
D05 MC201AG6
D06 MC201AH6
D07 MC201AJ6
D09 MC201AK6
D10 MC201AL6
D11 MC201AM6
D13 MC201AN6

B4 CONNECTOR
B02 WB203AC4
B04 WB205AA4
B05 WB205AB4
B06 WB205AC4
B08 WB203AP4
B09 WB203AQ4
B10 WB203AR4
B12 WB203AS4
B13 WB203AT4
D02 WB201AA4
D03 WB201AB4
D05 WB201AC4
D06 WB201AD4
D07 WB201AE4
D09 WB201AF4
D10 WB201AG4
D11 WB201AH4
D13 WB201AJ4

B5 CONNECTOR
B02 WB303AC4
B04 WB305AA4
B05 WB305AB4
B06 WB305AC4
B08 WB303AP4
B09 WB303AQ4
B10 WB303AR4
B12 WB303AS4
B13 WB303AT4
D02 WB301AA4
D03 WB301AB4
D05 WB301AC4
D06 WB301AD4
D07 WB301AE4
D09 WB301AF4
D10 WB301AG4
D11 WB301AH4
D13 WB301AJ4

B6 CONNECTOR
A04 KE311AP4
B02 RN111BM2
B04 KE311AR4
C02 RN111AS2
C04 KE311AS4
D02 KD121BD2
E04 KE311AT4

C1 CONNECTOR
A11 KE251AZ4
A13 RN111BM2
B11 KE251BA4
B13 RN111BL6
C11 KE251BB4
D13 RN111BD2
E11 KE251BC4
E13 RN111BS2

C2 SINGLE CARD
5852661 2661
MC131 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

C3 SINGLE CARD CB3
5852661 2661
MC231 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

C4 CONNECTOR
B02 WB205AD4
B04 WB207AB4
B05 WB207AC4
B06 WB207AA4
B08 WB203AD4
B10 WB207AF4
B13 MC111AN6
D02 WB205AE4
D03 WB205AF4
D05 WB205AG4
D06 WB205AH4
D07 WB205AJ4
D09 WB207AD4
D10 WB207AE4
D11 WB203AA4
D13 WB203AB4

C5 CONNECTOR
A02 WB305AD4
B04 WB307AB4
B05 WB307AC4
B06 WB307AA4
B08 WB303AD4
B10 WB307AF4
B12 WB307AG4
B13 MC211AN6
D02 WB305AE4
D03 WB305AF4
D05 WB305AG4
D06 WB305AH4
D07 WB305AJ4
D09 WB307AD4
D10 WB307AE4
D11 WB303AA4
D13 WB303AB4

C6 CONNECTOR
A02 KD121AF2
A04 KE311AQ4
B02 KD121AV2
C02 KD121AW2
D04 KE401BU2
E02 KD141AG2

D1 CONNECTOR
E11 KC122AA2
E13 KY131CF2

D2 SINGLE CARD
5852661 2661
MC121 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

D3 SINGLE CARD CB3
5852661 2661
MC221 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

D4 SINGLE CARD
8234481 Y573
KE311 00 01 02
KE301 03 04 05 06 07 08
09 0A 0B 0C 0D 0E
0F 0G 0H 0J 0K
KE311 0L 0M 0N 0P 0Q 0R
KE301 0S 0T 0V 0W 0X 0Z
10 11 12 13

D6 CONNECTOR
E02 CS101AK2
E04 AV144AK2

E1 CONNECTOR
A11 KC122AC2
B13 KA101AS2
C11 KC122AE2
C13 KD141AG2
D11 KC122AG2
D13 KE261AT2
E11 KC122AJ2

E2 SINGLE CARD
5852661 2661
MC111 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

E3 SINGLE CARD CB3
5852661 2661
MC211 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

E4 SINGLE CARD
5852582 2582
MD101 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D 0E 0F 0G 0H
0J 0K 0L 0M 0N 0P

E5 SINGLE CARD CB3
5852582 2582
MD201 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D 0E 0F 0G 0H
0J 0K 0L 0M 0N 0P

E6 CONNECTOR
B04 AV144AL2
C02 WB107AH4
C04 AV144AM2
D02 WB107AF4
D04 AV144AN2
E02 WB107AG4

F1 CONNECTOR
A13 KB141AS6
B11 KC122AL2
B13 KC102AU2
C11 KC122AN2
C13 KA232BL6
D11 KC122AQ2
E13 KA222BS6

F2 SINGLE CARD
5852661 2661
MC101 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

F3 SINGLE CARD CB3
5852661 2661
MC201 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D

F4 SINGLE CARD
5852582 2582
MD111 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D 0E 0F 0G 0H
0J 0K 0L 0M 0N 0P

F5 SINGLE CARD CB3
5852582 2582
MD211 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D 0E 0F 0G 0H
0J 0K 0L 0M 0N 0P

F6 CONNECTOR
A04 AV144AP2
B02 WB107AJ4
B04 AV144AQ2
C02 WB107AK4
C04 AV144AR2
D02 KA232BL6
E04 AV144AS2

G1 CONNECTOR
A11 KC122AS2
A13 KC102CW2

G2
G3 DOUBLE CARD CB3
8234482 Y574
KE401 00
KE411 01 02 03 04 05 06
07 08
KE401 09 0A 0B 0C
KE411 0D 0E 0F 0G 0H 0J
0K
KE401 0L 0M 0N 0P 0Q 0R
0S
KE411 0T
KE401 0U
KE411 0V
KE401 0W 0X
KE411 0Y
KE401 0Z 10 11 12 13 14
15
KE411 16 17
KE401 19 1A 1B 1C 1D
KE411 1E 1F
KE401 1G 1H 1J 1K 1L 1M
1N 1P 1Q 1R 1V 1W
1X 1Y 20

G4 SINGLE CARD
5852582 2582
MD121 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D 0E 0F 0G 0H
0J 0K 0L 0M 0N 0P

G5 SINGLE CARD CB3
5852582 2582
MD221 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D 0E 0F 0G 0H
0J 0K 0L 0M 0N 0P

G6 CONNECTOR
A02 KB141AS6
A04 AV144AT2

H1 CONNECTOR
A11 WB101AK4
A13 WB103AM4
B11 WB101AL4
C13 WB105AK4
D11 WB101AM4
D13 WB105AL4
E11 WB101AN4
E13 WB105AM4

H2
H3
H4
H5 QUAD CARD
5856573 2586
KE261 00 01 02 03 04 05
06 07
KE231 08
KE201 09
KE231 0A
KE211 0B
KE241 0C 0D 0E 0F
KE221 0G 0H 0J 0K 0L 0M
0N 0P 0Q 0R 0S 0T
KE241 0U
KE201 0V 0W 0X
KE211 0Y
KE251 0Z 10 11 12 13 14
15 16 17 18 19 1A
1B 1C 1D 1E
KE221 1F 1G 1H 1J 1K 1L
1M 1N
KE201 1P 1Q 1R 1S
KE251 1T 1U
KE231 1V 1W
KE241 1X 1Y
KE211 1Z 20 21 22
KE231 23 24 25 26 27
KE241 28 29 2A 2B
KE271 2C 2D 2E 2F
KE281 2G
KE271 2H 2J 2K 2L
KE281 2M
KE201 2N 2P
KE231 2Q 2R
KE281 2S
KE201 2T 2U
KE221 2V 2W
KE281 2X
KE221 2Y 2Z
KE281 30 31 32
KE211 33
KE231 34
KE271 35
KE281 36 37
KE261 38
KE251 39 3A
KE261 3B
KE201 3C
KE241 3D 3E 3F 3G 3H 3J
3K
KE221 3L
KE241 3M
KE201 3N
KE211 3P 3Q
KE201 3R
KE211 3S
KE231 3T
KE201 3U
KE221 3V
KE241 3W
KE231 3X
KE241 3Y
KE201 3Z
KE211 40
KE231 41
KE201 42 43 44 45 46 47
KE211 48 49 4A 4B
KE261 4C
KE211 4D
KE221 4E
KE231 4F 4G 4H 4J 4K 4L
4M 4N 4P
KE251 4Q
KE271 4R 4S 4T 4U 4V 4W
4X 4Y 4Z
KE281 50 51 52 53 54 55
56 57 58
KE201 5F 5G
KE261 5R 5S
KE241 5T 5U
KE261 5V 5W

H6 CONNECTOR
A02 KE161CC6
A04 WB103AM4
B02 KE201AY2
C04 WB105AK4
D02 KE261AL6
D04 WB105AL4
E02 WB107AL4
E04 WB105AM4

J1 CONNECTOR
A11 WB101AP4
B13 WB103AP4
C11 WB101AQ4
C13 WB103AQ4
D11 WB101AR4
D13 WB103AR4
E11 WB101AS4

J2
J3
J4
J5 QUAD CARD
8234483 Y575
KE101 00 01 02 03 04 05
06 07
KE131 08 09 0A 0B 0C 0D
0E
KE101 0F 0G 0H 0J 0K 0L
0M 0N 0P 0Q 0R 0S
KE161 0T 0U 0V 0W 0X 0Z
KE151 10 11 12 13 14 15
16 17
KE111 18 19 1A 1B
KE131 1C 1D 1E 1F 1G 1H
KE111 1J 1K
KE131 1L 1M
KE141 1N 1P 1Q 1R 1S 1T
1U 1V 1W 1X 1Y 1Z
20 21 22 23
KE121 24 25 26 27 28 29
2A 2B
KE111 2C 2D 2E 2F
KE121 2G 2H 2J 2K
KE111 2L
KE151 2M 2N 2P 2Q
KE141 2R
KE111 2S
KE151 2U
KE111 2V 2W
KE121 2X
KE161 2Y
KE141 2Z 30 31
KE161 32
KE121 33 34 35
KE141 36
KE101 37
KE111 38
KE161 3A
KE111 3B 3C 3D 3E 3F
KE131 3G 3H
KE111 3J
KE101 3K
KE131 3L 3M
KE151 3N 3P 3Q
KE161 3S 3T 3U
KE151 3V
KE111 3W
KE161 3X
KE101 3Y 3Z 40 41 42 43
44 45 46 47
KE111 48 49 4A 4B
KE131 4C 4D
KE151 4E 4F 4G 4H 4J 4K
4T
KE161 4U 4V 52 53
KE151 8L 8M 8N 8P 8Q
KE161 8R

J6 CONNECTOR
A02 MD201AP6
B04 KY131CF2
C02 MD221AP6
C04 KE161AQ2
D02 KA212AX2
D04 KE161CE4
E02 KA212AW2

K1 CONNECTOR
A13 WB103AS4
B11 WB101AT4
B13 WB103AT4

K2
K3 DOUBLE CARD
8239466 Y665
KT601 00 01
KT611 02 03 04 05 06 07
08 09 0A 0B 0C 0D
0E 0F
KT601 0G 0H 0J 0K 0L 0M
0N 0P
KT611 0Q
KT601 0R 0S
KT611 0T
KT601 0U 0V 0W
KT611 0X
KT621 0Y 0Z
KT611 10
KT621 11 12 13
KT611 14
KT621 15 16 17 18 19 1A
KT611 1B
KT621 1C

K4
K5 DOUBLE CARD
5852584 2584
KT201 00 01 02 03 04 05
06 07 08 09 0A 0B
0C 0D 0E 0F 0G 0H
0K 0L 0M 0R

K6 CONNECTOR
A04 KC142BD2
B02 KA212AY2
B04 KE141AW6

L1 CONNECTOR
D11 WB105AP4
D13 WB105AN4
E11 WB105AQ4

L6 CONNECTOR
D02 KC132BF6
D04 KE121AH2
E02 KC132BR2

M1 CONNECTOR
A13 WB107AG4
B11 WB105AR4
B13 WB107AH4
C11 WB105AS4
C13 WB107AF4
D11 WB105AT4
E13 WB103AN4

M2
M3
M4
M5 QUAD CARD
8239470 Y567
KT541 00 01 02 03 04 05
06 07
KT551 08 09 0A 0B 0C 0D
0E 0F
KT501 0G 0H 0J 0K 0L 0M
0N 0P
KT511 0Q 0R 0S 0T 0U 0V
0W 0X
KT521 0Y 0Z 10 11 12 13
14 15
KT561 16 17 18 19
KT531 1A 1B 1C 1D 1E
KT561 1F 1G 1H 1J
KT541 1K 1L 1M 1N 1P 1Q
1R 1S
KT561 1T
KT571 1U 1V
KT551 1W 1X 1Y 1Z 20 21
22 23
KT541 24

SOCKET LISTING
DATE 01-23-75 MACH. CPU3M15
LOG 0396 BOARD 01A-B2
PREV. ENGR. 04-17-74 824610
PRES. ENGR. 01-15-75 824887
P.N. 5555600
IBM CORP. SDD BLK.

A
1
1
4
1
000

A
1
1
4
1

```
        KT551 25
        KT561 26 27 28 29 2A
        KT571 2B 2C 2D 2E 2F 2G
        KT561 2H 2K 2L
        KT571 2M
        KT561 2N
        KT551 2P 2Q
        KT561 2R
        KT571 2S 2T 2U 2V
        KT561 2W 2X
        KT551 2Y 2Z 30 31
        KT571 32 33
        KT561 34
        KT571 35 36
        KT561 37
        KT571 38 39
        KT531 3A 3B 3C 3D 3E 3F
              3G 3H
        KT541 3J
        KT561 3K 3L
        KT571 3M
        KT531 3N 3P 3Q 3R 3S 3T
              3U 3V
        KT551 3W
        KT561 3X 3Y
        KT571 3Z
        KT561 46
        KT571 47 48
        KT561 49 4A 4B 4C 4D 4E
              4F
```

```
R6      CONNECTOR
        A04   KE121AJ2
        B02   KC132BA6
        B04   KE121AK2
        C02   KC132BC6
        C04   KE121AL2
        D02   KC142AP6
        E04   KE121AM2
```

```
N1      CONNECTOR
        A11   WB107AJ6
        A13   WB107AL6
        B11   WB107AK6
        B13   WB107AN6
        C11   WB103AK6
        E11   WB103AL6
        E13   CR101BD2
```

```
N6      CONNECTOR
        A02   KC152AA6
        A04   KE121AN2
        B02   KC152AR6
        B04   KE121AP2
        C02   KC152AS4
        D04   KE121AQ2
        E02   KC152AT4
        E04   KE121AR2
```

```
P6      CONNECTOR
        E02   KC102AP2
        E04   KC122AA2
```

```
Q6      CONNECTOR
        A02   KC102AU2
        B04   KC122AC2
        C02   KC122AC6
        C04   KC122AE2
        D02   KC122AG6
        D04   KC122AG2
        E02   KC122AL6
```

```
R6      CONNECTOR
        A04   KC122AJ2
        B02   KC122AQ4
        B04   KC122AL2
        C02   WB103AN4
        C04   KC122AN2
        D02   KC132AV6
        E04   KC122AQ2
```

```
S2      SINGLE CARD
        8211449 9270

     KT701 01 02 03 04 05 06
           07 08 09 10
```

```
S4      SINGLE CARD
        5857596 2587

     CR101 A1 A2 A3 A4 A5 A6
           A7 C1

A       UNUSED PORTIONS
1
1       B E F
4S4     CABL
1          CR101 BG
```

```
S5      SINGLE CARD
        8210786 2580

     KA101 0D 0F 0G 0H 0J 0K
           0P 0Q 0R 0S 0T
```

```
S6      CONNECTOR
        A02   KC132AJ2
        A04   KC122AS2
```

```
T6      CONNECTOR
        A02   PC101AW4
        A04   KA101AT2
        B02   PC101AX4
        C04   KA202AX6
        D02   PC101BJ4
        D04   KA202DE4
        E02   PC101BK4
        E04   KC102CW2
```

```
U5      SINGLE CARD
        5852590 2590

     PC101 A1 A2 A3 A4 D1 E1
           F1 G1 H1 J1 K1 L1
           M1 N1 P1 Q1

           UNUSED PORTIONS

           B C S
```

```
U6      CONNECTOR
        A02   PC101BL4
        B04   PC111AW4
        C02   PC101BM4
        C04   KA222BS6
        D02   PC101BP4
        D04   KE161AT2
        E02   PC101BQ4
```

```
V3      SINGLE CARD
        5852589 2589

     PA111 A1 B1 C1 D1 E1 F1
           G1 H1 J1 K1 L1 M1
           N1 P1 R1 S1

           UNUSED PORTIONS

           T U
```

```
V4      SINGLE CARD
        5852588 2588

     PB131 D1 D2 D3 D4 D5 D6
           D7 D8 D9 DA DB DC
           DD DE DF DG

           UNUSED PORTIONS

           A B C
```

```
V5      SINGLE CARD
        5852588 2588

     PB101 D1 D2 D3 D4 D5 D6
           D7 D8 D9 DA DB DC
           DD DE DF DG

           UNUSED PORTIONS

           A B C
```

```
V6      CONNECTOR
        A04   PC101AU4
        B02   PC101BR4
        B04   PC101AV4
```

```
Z1      XOVR
           WA992 AA
```

```
Z2      XOVR
           WA992 AB
```

```
Z3      XOVR
           WA992 AC
```

```
Z4      XOVR
           WA992 AD
```

```
Z5      XOVR
           WA992 AE
```

```
Z6      XOVR
           WA992 AF
```

PLUG LIST

PART NO	ACC	TYPE	SOCKETS			TOTAL
5852582		2582	E4	F4	G4	03
5852582	CB3	2582	E5	F5	G5	03
5852584		2584	K4			01
5852588		2588	V4	V5		02
5852589		2589	V3			01
5852590		2590	U5			01
5852661		2661	C2	D2	E2	F2	04
5852661	CB3	2661	C3	D3	E3	F3	04
5856573		2586	H2				01
5857596		2587	S4				01
8210786		2580	S5				01
8211449		9270	S2				01
8234481		Y573	D4				01
8234482	CB3	Y574	G2				01
8234483		Y575	J2				01
8239466		Y665	K2				01
8239470		Y567	M2				01
		CABL	A4	S4			02
		CONN	A1	A2	A3	A4	42
			A6	B1	B2	B3	
			B4	B5	B6	C1	
			C4	C5	C6	D1	
			D6	E1	E6	F1	
			F6	G1	G6	H1	
			H6	J1	J6	K1	
			K6	L1	L6	M1	
			M6	N1	N6	P6	
			Q6	R6	S6	T6	
			U6	V6			
		XOVR	Z1	Z2	Z3		06
			Z4	Z5	Z6		

SOCKET LISTING
DATE 01-23-75 MACH. CPUSM15

LOG 0396 BOARD 01A-B2
PREV. ENGR. 04-17-74 824910
PRES. ENGR. 01-15-75 824887
P.N. 5555600

IBM CORP. SDD BLK.

9 1 1 4 1 000

```
A1          CONNECTOR
            D11   RN111BD2
            D13   KE401BZ6
            E11   RN111BL6
--------------------------------
A2          CABL
              WA991 AG

A2          CONNECTOR
            B02   KE295AV4
            B04   KE295AW4
            B05   KE295AX4
            B06   KE295AZ4
            B08   KE295AU4
            B09   KE295BA4
            B10   KE295BB4
            B12   KE295BC4
            B13   KE295BD4
            D02   KE293AK4
            D03   KE293AL4
            D05   KE293AM4
            D06   KE293AN4
            D07   KE293AP4
            D09   KE293AQ4
            D10   KE293AR4
            D11   KE293AS4
            D13   KE293AT4
--------------------------------
A3          DOUBLE CARD       RSAR
A4          8239467 Y664

      MB102 00 01 02 03 04 05
            06 07
      MB101 08
      MB102 09
      MB101 0A 0B 0C CD 0E 0F
      MB102 0G 0H 0J 0K 0L 0M
      MB101 0N
      MB102 0P
      MB101 0Q 0R
      MB102 0S 0T
      MB101 0U
      MB102 0V
      MB101 0W
      MB102 0X 0Y 0Z 10 11 12
            13
      MB101 14 15 16 17 18 19
            1A 1B 1C 1D 1E
      MB103 1F 1G
      MB101 1H 1J
      MB102 1K 1L
      MB101 1M 1N 1P 1Q 1R 1S
      MB102 1T
      MB101 1U
      MB102 1V
      MB101 1W
--------------------------------
A5          CONNECTOR
            B02   WB110AJ4
            B04   WB110AA4
            B05   WB110AB4
            B06   WB110AC4
            B08   WB110AD4
            B09   WB110AE4
            B10   WB110AF4
            B12   WB110AG4
            B13   WB110AH4
            D02   WS020AD4
            D03   WS020AB2
            D05   WS020AB4
            D06   WS020AB6
            D07   WS020AC1
            D09   WS020AC3
            D10   WS020AC5
            D11   WS020AC7
            D13   WS020AD2
--------------------------------
A6          CONNECTOR
            D02   MA127AD2
            D04   MA122AQ4
            E02   MA127AE2
********************************
B1          CONNECTOR
            A13   KE311AP4
            B11   RN111BM2
            B13   KE311AR4
            C11   RN111BS2
            C13   KE311AS4
            D11   KD121BD2
            E13   KE311AT4
--------------------------------
B2          QUAD    CARD
B3          8250507 BE06
AB4
1B5
1
6     MA107 01 02
1     MA152 03 04 05
      MA142 06 07
      MA122 08 09 0A 0B
```

```
      MA117 0C 0D 0E 0F
      MA112 0G 0H
      MA132 0J 0K
      MA122 0L 0M 0N 0P 0G 0R
            0S 0T
      MA117 0U 0V 0W 0X
      MA112 0Y 0Z 10 11 12 13
            14 15
      MA117 16 17 18 19 1A 1B
            1C 1D
      MA142 1E 1F
      MA117 1G 1H 1J 1K
      MA142 1L 1M
      MA112 1N
      MA152 1P
      MA112 1Q
      MA152 1R
      MA117 1S
      MA102 1T 1U 1V 1W
      MA142 1X 1Y 1Z 20
      MA112 21 22 23 24
      MA102 25 26 27
      MA142 28
      MA102 29 2A 2B 2C
      MA107 2D 2E 2F 2G
      MA117 2H
      MA107 2J 2K
      MA152 2L
      MA107 2M 2N
      MA117 2P
      MA112 2Q 2R
      MA132 2S
      MA117 2T
      MA107 2U
      MA122 2V 2W
      MA127 2X 2Y 2Z 30 31 32
            33 34 35
      MA117 36 37
      MA127 38
      MA122 39 3A
      MA102 3B 3C 3D 3E
      MA117 3F
      MA102 3G 3H 3J
      MA142 3K
      MA117 3L
      MA127 3M 3N
      MA117 3P
      MA132 3Q 3R
      MA107 3S 3T 3U 3V 3W
      MA122 3X
      MA152 3Y
      MA122 3Z
      MA107 40 41 42 43 44 45
            46 47 48 49
      MA152 4A 4B
      MA122 4C 4D
      MA127 4E
      MA112 4F
      MA107 4G 4H
      MA112 4J 4K
      MA152 4L 4M 4N 4P 4Q 4R
      MA142 4S
      MA152 4T 4U 4V 4W
      MA122 4X
      MA132 4Y
      MA142 4Z
      MA112 50
      MA152 51 52 53
      MA107 56 57 58 59 5A
      MA142 5B
      MA152 5C
      MA142 5K 5L 5M
      MA122 5N 5P
--------------------------------
B6          CONNECTOR
            A04   MA122AR4
            B02   MA127AF2
            B04   MA122BA4
            C02   MA127AG2
            C04   MA122BB4
            D02   MA127AH2
            E04   MA122BC4
********************************
C1          CONNECTOR
            A11   KD121AF2
            A13   KE311AQ4
            B11   KD121AV2
            C11   KD121AW2
            D13   KE401BU2
            E11   KD141AG2
--------------------------------
C2          QUAD    CARD
C3          8250502 BE01
C4
C5

      MA252 00 01
      MA282 05
      MA252 07 08 0C 0F
      MA222 0G
```

```
      MA212 0H
      MA222 0J
      MA212 0K
      MA222 0L
      MA212 0M
      MA222 0N
      MA212 0P
      MA222 0Q
      MA212 0R
      MA222 0S
      MA212 0T
      MA222 0U
      MA202 0V 0W 0X 0Y
      MA212 0Z 10
      MA222 11 12 13
      MA212 14 15
      MA272 16 17 18 19 1A
      MA242 1B 1C 1D 1E 1F
      MA272 1G 1H 1J
      MA262 1K 1L
      MA202 1M
      MA242 1N 1P 1Q 1R
      MA202 1S
      MA212 1T
      MA262 1U 1V
      MA282 1W
      MA222 1X
      MA262 1Y
      MA212 1Z 21
      MA202 23
      MA212 24
      MA262 25 26
      MA212 27 28
      MA202 29
      MA262 2A
      MA202 2B 2C 2D 2E 2F 2G
            2H 2K 2L 2M 2N 2P
            2Q 2R 2S
      MA212 2U 2V
      MA222 2W 2X
      MA232 2Z 30 31 32 33 34
            35 36 37 38 39 3A
            3B 3C 3D 3E 3F 3G
      MA282 3H 3J 3K
      MA262 3L
      MA242 3M
      MA282 3N
      MA242 3P
      MA282 3Q 3R 3S 3T 3U 3V
            3W
      MA242 3X
      MA262 3Y 3Z
      MA242 40
      MA262 41
      MA242 42
      MA272 43
      MA262 44
      MA222 45
      MA252 46
      MA222 47
      MA262 48 49 4A
      MA282 4B 4C 4D
      MA222 4G 4H 4J 4K
      MA262 4L
      MA222 4M
      MA212 4N 4P 4Q 4R 4S 4T
      MA222 4U 50
      MA262 53 54 55
      MA212 56
      MA222 57 58 59
      MA242 5A
      MA262 5B
      MA282 5D 5F 5G
      MA222 5H 5J
      MA282 5L
--------------------------------
C6          CONNECTOR
            A02   MA127AJ2
            A04   MA127AA2
            B02   MA127AK2
            B04   MA127AB2
            C02   MA127AL2
            D04   MA127AC2
            E02   MA127AM2
            E04   MA122AS4
********************************
D1          CONNECTOR
            E11   CS101AK2
            E13   AV232AK2
--------------------------------
D2          QUAD    CARD
D3          8250506 BE05
D4
D5

      KR262 00 01
      KR211 02 03
      KR272 04 05 06 07 08 09
            0A
      KR201 0B 0C
```

```
      KR211 0D 0E
      KR201 0F 0G
      KR262 0H
      KR211 0J 0M
      KR262 0N 0P 0Q
      KR201 0T 0W
      KR211 0Z 12
      KR222 15 16 17 18 19 1A
            1B 1C
      KR201 1D 1E
      KR222 1F 1G
      KR272 1H
      KR262 1J 1K
      KR272 1M
      KR262 1N 1P 1Q 1R 1S 1T
            1U
      KR222 1V 1W 1X 1Y
      KR232 1Z 20 21 22
      KR262 23 24 25
      KR211 26
      KR201 28 2A
      KR211 2D
      KR262 2E
      KR222 2G 2H 2J 2K
      KR232 2L 2M 2N 2P
      KR242 2Q 2R 2S 2T
      KR252 2U 2V 2W 2X
      KR222 2Y
      KR272 30
      KR211 31
      KR242 32 33 34 35
      KR252 36 37 38 39
      KR272 3B
      KR201 42 43
      KR211 44 45
      KR272 46
      KR262 47 48 49 4A 4B 4C
            4D
--------------------------------
D6          CONNECTOR
            E02   WS020AB2
            E04   WS020AD6
********************************
E1          CONNECTOR
            B13   AV232AL2
            C11   WB107AH4
            C13   AV232AM2
            D11   WB107AF4
            D13   AV232AN2
            E11   WB107AG4
--------------------------------
E2          QUAD    CARD
E3          3250519 BE04
E4
E5

      KP122 00
      KP102 01
      KP112 02 03
      KP132 04
      KP112 05
      KP102 06 07 08 09
      KP112 0A
      KP152 0B
      KP102 0C 0D
      KP152 0E 0F
      KP132 0G
      KP122 0H 0J 0K
      KP132 0L
      KP112 0M 0N 0P 0Q
      KP122 0R
      KP112 0S
      KP142 0T 0U
      KP132 0V
      KP112 0W 0X
      KP152 0Y 0Z
      KP112 10 11
      KP152 12 13
      KP112 14
      KP152 15
      KP112 16
      KP142 17 18
      KP112 19 1A 1B
      KP122 1C
      KP102 1D
      KP122 1E
      KP102 1F 1G 1H
      KP152 1J
      KP132 1K
      KP152 1L 1M
      KP102 1N
      KP112 1P
      KP152 1Q
      KP132 1R 1S 1T
      KP152 1U
      KP112 1V
      KP132 1W
      KP152 1X 1Y
      KP142 1Z 20
      KP102 21
```

```
      KP152 22 23 24
      KP142 25
      KP112 26
      KP142 27
      KP112 28 29
      KP102 2A
      KP142 2B 2C
      KP102 2D
      KP112 2E 2F
      KP102 2G
      KP142 2H 2J
      KP122 2K
      KP112 2L
      KP102 2M
      KP142 2N
      KP112 2P
      KP102 2Q 2R
      KP132 2S
      KP152 2T 2U
      KP122 2V
      KP142 2W
      KP122 2X 2Y
      KP142 2Z
      KP112 30 31
      KP122 32
      KP102 33
      KP142 34 35 36 37
      KP132 38 39
      KP102 3A
      KP142 3B
      KP132 3C 3D 3E
      KP112 3F
      KP102 3G 3H
      KP142 3J
      KP122 3K 3L 3M 3N 3P 3Q
      KP132 3R 3S
      KP142 3T 3U 3V 3W 3X
      KP122 3Y
      KP112 3Z
      KP132 40 43
      KP102 44
      KP132 45 46
      KP122 47
      KP132 48
      KP122 49
      KP132 4A
      KP142 4B 4C
      KP102 4D
      KP142 4E
      KP102 4F 4G 4H 4J 4K 4L
            4M 4N
      KP122 4P 4Q 4R
      KP102 AA
      KP112 AB
      KP122 AC AD AE
--------------------------------
E6          CONNECTOR
            AC2   WS020AB4
            B04   WS020AE1
            C02   WS020AB6
            C04   WS020AE3
            D02   WS020AC1
            D04   WS020AE5
            E02   WS020AC3
********************************
F1          CONNECTOR
            A13   AV232AP2
            B11   WB107AJ4
            B13   AV232AQ2
            C11   WB107AK4
            C13   AV232AR2
            D11   KA232BL6
            E13   AV232AS2
--------------------------------
F2          QUAD    CARD
F3          5853092 2573
F4
F5

      RA101 00 01 02
      RA111 03 04 05
      RA101 06
      RA111 07
      RA121 08 09 0A
      RA131 0B 0C 0D
      RA111 0E 0F
      RA151 0G 0H 0J 0K 0L 0M
            0N 0P
      RA101 0Q 0R 0S 0T
      RA111 0U 0V 0W 0X 0Y 0Z
      RA121 10 11 12 13
      RA131 14 15 16 17
      RA111 18 19 1A 1B
      RA101 1C 1D 1E 1F 1G 1H
      RA111 1J 1K 1L 1M 1N 1P
      RA131 1Q 1R 1S 1T 1U 1V
      RA121 1W 1X 1Y 1Z 20 21
      RA131 22 23 24 25 26 27
            28 29
      RA121 2A 2B 2C 2D
```

```
      RA141 2E 2F 2G 2H 2J 2K
            2L 2M 2N 2P 2Q 2R
            2S 2T 2U 2V
      RA101 2W 2X 2Y
      RA121 2Z
      RA101 30 31
      RA111 32
      RA141 33 34 35 36
      RA121 37 38 39
      RA151 3A
      RA101 3B
      RA111 3C
      RA151 3D
      RA111 3E 3F
      RA121 3G 3H
      RA101 3J
      RA121 3K
      RA101 3L
      RA111 3M 3P
      RA121 3Q 3R 3S 3T
      RA131 3U 3V 3W 3X
      RA141 3Y 3Z
      RA151 40 41 42 43 44 45
            46 47 48
      RA101 4K 4L 60
      RA111 61
      RA101 70
--------------------------------
F6          CONNECTOR
            A04   WS020AE7
            B02   WS020AC5
            B04   WS020AF2
            C02   WS020AC7
            C04   WS020AF4
            D02   WS020AD2
            E04   WS020AF6
********************************
G1          CONNECTOR
            A11   KB141AS6
            A13   AV232AT2
--------------------------------
G2          QUAD    CARD
G3          8250501 BE00
G4
G5

      KN121 00 01 02 03 04 05
            06 07 08 09 0A
      KN131 0B
      KN101 0C 0D
      KN111 0E
      KN131 0F
      KN101 0G 0H
      KN111 0J
      KN101 0K 0L 0M 0N
      KN111 0P 0Q
      KN131 0R
      KN111 0S
      KN131 0T 0U
      KN121 0V
      KN111 0W
      KN131 0X 0Y 0Z
      KN101 10 11
      KN111 12 13 14
      KN131 15 16
      KN111 17
      KN121 18
      KN131 19
      KN121 1A
      KN131 1B
      KN101 1C 1D 1E 1F
      KN121 1G
      KN101 1H
      KN111 1J
      KN101 1K 1L 1M
      KN121 1N 1P
      KN101 1Q
      KN111 1R
      KN131 1S
      KN121 1T
      KN111 1U
      KN101 1V
      KN131 1W
      KN111 1X 1Y
      KN121 1Z 20 22 23 24
      KN101 25
      KN131 26 27 28 29
      KN101 2A
      KN121 2B 2C
      KN131 2D
      KN101 2E
      KN131 2F
      KN101 2G 2H 2J 2K
      KN111 2L 2M
      KN131 2N
      KN121 2P 2Q
      KN101 2R
      KN121 2S 2T
      KN131 2U 2V 2W 2X 2Y 2Z
      KN121 30
```

```
      KN101 31 32 33
      KN131 34
      KN101 35 36 37
      KN121 38 39 3A 3B
      KN101 3C
      KN111 3D
      KN121 3E
      KN101 3F
      KN121 3G 3H 3J 3K 3L
      KN111 3V 3W 3X 3Y
--------------------------------
G6          CONNECTOR
            A02   WS020AD4
            A04   WS020AG1
********************************
H1          CONNECTOR
            A11   KE161CC6
            A13   WB103AM4
            B11   KE201AY2
            C13   WB105AK4
            D11   KE261AL6
            D13   WB105AL4
            E11   WB107AL4
            E13   WB105AM4
--------------------------------
H2          QUAD    CARD
H3          8250493 Y646
H4
H5

      AV142 00 01 02 03 04 05
            06 07 08 09 0A 0B
      AV144 0C 0D 0E 0F 0G 0H
            0J 0K 0L 0M 0N 0P
      AV101 0Q 0R
      AV112 0S 0T
      AV122 0U 0V 0W 0X 0Y 0Z
            10
      AV222 11
      AV112 12
      AV182 13
      AV112 14
      AV162 15
      AV101 16
      AV202 17
      AV222 18 19
      AV101 1A
      AV222 1B
      AV142 1C
      AV222 1D
      AV112 1E
      AV222 1F
      AV101 1G
      AV222 1H
      AV112 1J
      AV222 1K
      AV101 1L
      AV222 1M
      AV101 1N
      AV222 1P
      AV101 1Q
      AV112 1R 1S 1T 1U 1V
      AV142 1W 1X
      AV144 1Y 1Z 20
      AV101 21 22
      AV112 23
      AV132 24
      AV142 25
      AV122 26
      AV142 27 28 29
      AV182 2A
      AV144 2B 2C 2D
      AV142 2E 2F
      AV122 2G 2H
      AV112 2J
      AV132 2K
      AV182 2L
      AV112 2M
      AV182 2N
      AV101 2P
      AV182 2Q
      AV101 2R
      AV182 2S
      AV101 2T 2U 2V
      AV142 2W
      AV132 2X 2Y 2Z 30
      AV142 31
      AV144 32
```

```
              SOCKET LISTING
 DATE 07-14-78  MACH.  CPU15FST     A
                                    1
 LOG    202        BOARD 01A-B3     1
 PREV. ENGR. 05-09-77   828425      6
 PRES. ENGR. 05-25-78   572330      1
 P.N.  4835389
                                  006
 IBM CORP.    SDD    BLK.
```

```
AV112 33
AV101 34
AV112 35
AV132 36 37
AV101 38 39 3A 3B 3C 3D
AV132 3E 3F 3G 3H 3J 3K
      3L 3M 3N 3P 3Q 3R
      3S 3T 3U 3V 3W 3X
AV144 3Y
AV182 45 46 47
AV212 48 49 4A 4B 4C 4D
      4E 4F 4G
AV172 4H 4J 4K 4L 4M 4N
      4P 4Q
AV162 4R 4S 4T 4U 4V 4W
      4X 4Y
AV202 4Z 50 51 52 53 54
      55 56 57
AV192 58 59 5A
AV132 5B
AV192 5C 5D 5E 5F
AV152 5G 5H 5J 5K 5L 5M
      5N 5P
AV222 5Q 5R 5S 5T 5U 5V
      5W 5X 5Y
AV182 5Z 60 61 62 63 64
      65 66
AV212 67 68 69 6A 6B 6C
      6D 6E 6F
AV172 6G 6H 6J 6K 6L 6M
      6N 6P
AV162 6Q 6R 6S 6T 6U 6V
      6W 6X
AV202 6Y 6Z 70 71 72 73
      74 75 76
AV192 77 78 79 7A 7B 7C
      7D 7E 7F 7G 7H
AV152 7J 7K 7L 7M 7N 7P
      7Q 7R
AV122 99
AV232 9A 9B 9C 9D 9E 9F
      9G 9H 9J 9K 9L 9M
      9N 9P 9Q 9R 9S 9T
```

```
H6          CONNECTOR
            A02   WB110AB4
            A04   WB110AA4
            B02   WB110AC4
            C04   WB110AD4
            D02   WB110AF4
            D04   WB110AE4
            E02   WB110AH4
            E04   WB110AG4
**********************************************
J1          CONNECTOR
            A11   AD201AP6
            B13   KY131CF2
            C11   AD221AP6
            C13   KE161AQ2
            D11   KA212AX2
            D13   KE161CE4
            E11   KA212AW2
**********************************************
J2          QUAD    CARD
J3          5855120 2574
J4
J5

      RN141 00 01
      RN111 02
      RN131 03
      RN111 04 05
      RN141 06 07 08 09 0A 0B
            0C 0D 0E 0F 0G 0H
            0J 0K 0L 0M
      RN111 0N 0P
      RN131 0Q
      RN111 0R 0S 0T
      RN131 0U 0V
      RN121 0W 0X 0Y 0Z 10 11
            12
      RN131 13
      RN101 14 15 16 17 18 19
            1A 1B 1C 1D 1E 1F
            1G 1H 1J 1K 1L 1M
            1N 1P 1Q 1R 1S 1T
      RN131 1U 1V
      RN121 1W 1X 1Y
      RN111 1Z
      RN131 20 21
      RN111 22 23 24
      RN131 25 26 27
      RN111 28 29 2A 2B 2C 2D
            2E
      RN121 2F 2G 2H 2J
      RN111 2K
      RN121 2L
      RN111 2M 2N 2P
      RN121 2Q
```

```
      RN131 2R 2S
      RN111 2T 2U 2V
      RN121 2W
      RN111 2X 2Y
      RN121 2Z
      RN131 30
      RN111 31 32 33 34 35 36
            37
      RN121 38
      RN101 39
      RN111 3A
      RN131 3B 3D
      RN111 3E
      RN101 3F
      RN111 3G 3H 3J
      RN141 3K 3L
      RN121 3M 3N 3X
      RN141 32 40
      RN121 45
```

```
J6          CONNECTOR
            A02   WB110AJ4
            B04   KA161AP2
            C02   KA161AR2
            C04   KA161AQ2
            D02   KA161AU2
            D04   KA161AS2
            E02   KA161AV2
**********************************************
K1          CONNECTOR
            A13   KC142BD2
            B11   KA212AY2
            B13   KE141AW6
```

```
K2          QUAD    CARD
K3          8253788 Y621
K4
K5

      KB101 00 01 02 03
      KB111 04 05
      KB131 06 07
      KB111 08 09 0A 0B 0C 0D
            0E 0F
      KB101 0G
      KB131 0H
      KB141 0J
      KB131 0K
      KB121 0L
      KB131 0M
      KB141 0N
      KB131 0P
      KB121 0Q
      KB131 0R
      KB101 0S
      KB131 0T
      KB111 0U 0V 0W 0X
      KB141 0Y
      KB131 0Z
      KB141 10
      KB111 11
      KB121 12 13 14 15
      KB101 16 17 18 19 1A 1B
            1C 1D
      KB121 1E 1F 1G
      KB141 1H
      KB121 1J 1K 1L
      KB141 1M
      KB121 1N
      KB141 1P 1Q 1R 1S 1T 1U
      KB111 1V 1W
      KB131 1X 1Y
      KB101 1Z
      KB121 20
      KB111 21 22
      KB121 23 24
      KB141 25
      KB101 26
      KB141 27
      KB121 28 29 2A
      KB101 2B
      KB121 2C 2D
      KB101 2E
      KB141 2F
      KB121 2G 2H 2J
      KB141 2K
      KB121 2L 2M 2N 2P
      KB141 2Q
      KB121 2R
      KB101 2S
      KB141 2T 2U
      KB121 2V
      KB141 2W 2X 2Y 2Z
      KB101 30 31
      KB121 32
      KB101 33 34
      KB121 35
      KB141 36 37 38
      KB101 39
      KB141 3A
```

```
      KB121 3B
      KB101 3C 3D 3E 3F
      KB121 3G 3H 3J 3K 3L 3M
      KB141 3N 3P 3R
      KB121 3Z
      KB101 40 41 42
      KB121 43
```

```
K6          CONNECTOR
            A04   KM161AW2
            B02   KM161AH6
            B04   KM161AX2
**********************************************
L1          CONNECTOR
            D11   KC132BF6
            D13   KE121AH2
            E11   KC132BR2
```

```
L2          QUAD    CARD
L3          8250503 BE02
L4
L5

      KM121 00 01
      KM131 02 03
      KM141 04 05
      KM151 06 07
      KM121 08 09
      KM131 0A 0B
      KM141 0C 0D
      KM151 0E 0F
      KM121 0G 0H
      KM131 0J 0K
      KM141 0L 0M
      KM151 0N 0P
      KM111 0Q 0R
      KM121 0S 0T
      KM131 0U
      KM141 0V
      KM161 0W 0X 0Y 0Z
      KM131 10
      KM141 11
      KM151 12 13
      KM161 14 15 16 17
      KM131 18
      KM151 19
      KM141 1A 1B
      KM121 1C
      KM151 1D
      KM121 1E
      KM131 1F
      KM161 1G
      KM111 1H 1J
      KM161 1K
      KM111 1L 1M 1N 1P 1Q
      KM101 1R 1S 1T
      KM111 1U
      KM101 1V 1W 1X 1Y 1Z 20
            21 22
      KM161 23 24 25 26 27 28
            29 2A
      KM101 2B 2C 2D 2E
      KM111 2F 2G
      KM161 2H 2J 2K
      KM101 2L
      KM161 2M
      KM101 2N 2P 2Q 2R 2S 2T
            2U
      KM111 2V
      KM121 2W 2X
      KM171 2Y
      KM151 2Z 30
      KM111 31
      KM121 32 33
      KM131 34 35
      KM141 36 37
      KM161 38 39
      KM101 3A
      KM171 3C 3D 3E 3F 3G 3H
            3J
      KM111 3K 3L
      KM141 3M 3N
      KM151 3P 3Q
      KM121 3R
      KM131 3S 3T
      KM171 3U
      KM111 3V
      KM171 3W
      KM121 3X
      KM171 3Y 3Z
      KM121 40
      KM171 41
      KM111 42
      KM131 43 44
      KM141 45 46
      KM151 47 48
      KM161 49 4A
      KM171 4B 4L 4M 4N 4P 4Q
            4R
```

```
L6          CONNECTOR
            D02   WS020AM4
            D04   WB107AL4
            E02   WS020AN6
**********************************************
M1          CONNECTOR
            A13   KE121AJ2
            B11   KC132BA6
            B13   KE121AK2
            C11   KC132BC6
            C13   KE121AL2
            D11   KC142AP6
            E13   KE121AM2
```

```
M2          QUAD    CARD
M3          8250490 Y642
M4
M5

      KY121 00 01 02 03
      KY131 04 05
      KY141 07
      KY121 08
      KY111 09
      KY141 0A
      KY111 0B
      KY101 0C
      KY111 0D
      KY121 0E
      KY141 0F
      KY121 0G 0H 0J
      KY101 0K
      KY121 0L
      KY101 0M
      KY141 0N 0P 0Q
      KY131 0R 0S 0T 0U 0V 0W
            0X
      KY111 0Y 0Z
      KY131 10 11
      KY111 12
      KY101 13
      KY111 14 15
      KY141 16 17
      KY111 18
      KY121 19
      KY141 1A
      KY101 1B
      KY111 1C
      KY131 1D 1E
      KY141 1F
      KY111 1G 1H
      KY121 1J
      KY141 1K 1L
      KY101 1M
      KY111 1N
      KY131 1P
      KY141 1Q 1R
      KY101 1S
      KY121 1T
      KY141 1U 1V
      KY131 1W 1Y 1Z
      KY101 20
      KY131 21 22 23
      KY141 24
      KY131 25 26
      KY111 27 28
      KY121 29
      KY131 2A 2B
      KY101 2C
      KY121 2D
      KY141 2E
      KY101 2F 2G
      KY121 2H
      KY131 2J
      KY121 2L
      KY101 2M
      KY121 2N
      KY131 2P 2Q
      KY141 2R
      KY101 2S
      KY111 2T
      KY131 2U
      KY141 2V
      KY111 2W 2X 2Y
      KY121 2Z
      KY141 36 37
      KY111 39
      KY141 40 99
```

```
N6          CONNECTOR
            A02   WS020AJ7
            A04   WB105AN4
            B02   WS020AQ7
            B04   KA322AG2
            C02   KC132BM6
            E02   KC132BL2
            E04   WS020AH2
**********************************************
P1          CONNECTOR
            E11   KC102AP2
            E13   KC122AA2
```

```
N1          A13   KE121AN2
            B11   KC152AR6
            B13   KE121AP2
            C11   KC152AS4
            D13   KE121AQ2
            E11   KC152AT4
            E13   KE121AR2
```

```
N2          QUAD    CARD
N3          8250491 Y643
N4
N5

      KG101 00 01 02 03
      KG131 04 05 06 07
      KG101 08
      KG141 09 0A 0B
      KG121 0C
      KG111 0D
      KG131 0E
      KG141 0G
      KG131 0H
      KG141 0K 0L 0M
      KG131 0P
      KG121 0Q
      KG141 0R
      KG151 0S 0T
      KG111 0U
      KG131 0V
      KG151 0W 0Y 0Z
      KG101 10 11
      KG131 12 13
      KG141 14 15 16 17
      KG121 18 19
      KG101 1A
      KG151 1B
      KG121 1C
      KG111 1D 1E
      KG101 1F
      KG131 1G
      KG111 1H
      KG141 1J
      KG111 1K 1L
      KG101 1M
      KG111 1N 1P 1Q 1R
      KG121 1S
      KG101 1T
      KG111 1U 1V
      KG121 1W
      KG151 1X
      KG101 1Y
      KG121 1Z
      KG151 20 21
      KG101 22
      KG131 23 24
      KG151 25
      KG111 26
      KG131 28
      KG141 29 2A
      KG131 2B
      KG141 2C
      KG151 2D 2E
      KG141 2F
      KG111 2G 2H 2J
      KG121 2K
      KG111 2L 2M
      KG151 2N 2P
      KG131 2Q
      KG141 2R 2S
      KG131 2T
      KG111 2U
      KG141 2X
      KG111 2Y
      KG141 32
      KG151 30
      KG141 31
      KG151 32
      KG101 38
      KG121 39
      KG131 3A
      KG151 3B
      KG121 3C
      KG131 3D
      KG151 3E
      KG101 3F
      KG141 40 41
```

```
P2          QUAD    CARD
P3          8250484 Y622
P4
P5

      KL131 00 01 02 03
      KL121 04
      KL101 05
      KL111 06 07
      KL101 08 09
      KL111 0A
      KL121 0B
      KL101 0C
      KL121 0D 0E 0F
      KL111 0G
      KL121 0H 0J 0K
      KL131 0L 0M
      KL101 0N
      KL121 0P
      KL111 0Q 0R 0S 0T 0U 0V
            0W
      KL101 0X 0Y 0Z
      KL121 10
      KL101 11
      KL111 12
      KL101 13 14 15
      KL111 16 17
      KL101 18 19
      KL121 1A 1B
      KL101 1C
      KL111 1D 1E
      KL101 1F
      KL111 1G 1H
      KL121 1J 1K
      KL111 1L 1M
      KL121 1N 1P 1Q
      KL101 1R 1S
      KL111 1T 1U
      KL121 1V
      KL101 1W
      KL111 1X
      KL121 1Y
      KL131 1Z 20 21 22 23 24
      KL111 25
      KL121 26
      KL131 27 28
      KL111 29 2A 2B
      KL131 2C
      KL111 2D
      KL101 2E 2F
      KL111 2G 2H
      KL121 2J 2K 2L
      KL101 2M 2N 2P
      KL111 2Q 2R 2S 2T 2U 2V
```

```
Q1          CONNECTOR
            A11   KC102AU2
            B13   KC122AC2
            C11   KC122AC6
            C13   KC122AE2
            D11   KC122AG6
            D13   KC122AG2
            E11   KC122AL6
```

```
Q2 Q3       QUAD    CARD
Q4 Q5       8250495 Y648

      AB161 00 01 02 03 04 05
            06 07 08 09 0A 0B
            0C 0D 0E 0F 0G 0H
            0J 0K
      AB171 0L 0M 0N 0P 0Q 0R
            0S 0T 0U 0V 0W 0X
            0Y 0Z 10 11 12 13
            14 15
      AB181 16 17 18 19 1A 1B
            1C 1D 1E 1F 1G 1H
            1J 1K 1L 1R 1N 1P
            1Q 1R
      AB191 1S 1T 1U 1V 1W 1X
            1Y 1Z 20 21 22 23
            24 25 26 27 28 29
            2A 2B
      AB201 2C 2D 2E 2F 2G 2H
            2J 2K 2L 2M 2N 2P
            2Q 2R 2S 2T 2U 2V
```

```
R1          CONNECTOR
            A13   KC122AJ2
            B11   KC122AQ6
            B13   KC122AL2
            C11   WB103AN4
            C13   KC122AN2
            D11   KC132AV6
            E13   KC122AQ2
```

```
R2          QUAD    CARD
R3          8250485 Y623
R4
R5

      KA202 00 01 02 03
      KA212 04 05
      KA202 06 07
      KA242 08 09
      KA202 0A
      KA242 0B 0C 0D
      KA202 0E
      KA212 0F
```

```
SOCKET LISTING
DATE 07-14-78  MACH.  CPU15FST

LOG  202          BOARD 01A-83
PREV. ENGR. 05-09-77  828425
PRES. ENGR. 05-25-78  572330
P.N.  4833389

IBM CORP.   SDD   BLK.
```

```
KA242 0G
KA212 0H
KA202 0J
KA222 0K 0L 0M 0N
KA232 0P 0Q 0R 0S
KA212 0T 0U
KA202 0V
KA212 0W
KA222 0X
KA202 0Y
KA232 0Z 10
KA242 11 12
KA232 13 14
KA212 15 16 17
KA242 18 19 1A
KA222 1B
KA232 1C
KA242 1D
KA202 1E
KA212 1F 1G
KA242 1H
KA222 1J 1K 1L 1M
KA242 1N
KA212 1P
KA202 1Q
KA212 1R
KA232 1S 1T
KA202 1U
KA222 1V
KA202 1W 1X
KA222 1Y 1Z
KA212 20
KA222 21
KA242 22 23
KA232 24
KA242 25
KA222 26
KA202 27
KA222 28
KA242 29 2A 2B
KA222 2C 2D
KA202 2E
KA232 2F 2G
KA202 2H
KA232 2J
KA212 2K
KA202 2L
KA212 2M
KA222 2N
KA242 2P 2Q 2R
KA232 2S
KA242 2T 2U 2V 2W
KA222 2X
KA232 2Y
KA242 2Z
KA202 30 31
KA212 32 33
KA232 34 35 36
KA222 37 38
KA212 39 3A 3B
KA222 3C
KA202 3D
KA222 3E
KA202 3F 3G 3H 3J
KA212 3K
KA222 3L 3M
KA232 3N 3P
KA242 3Q 3R 3S 3X
KA222 40 43 47
KA242 48
KA232 49 50
KA222 Dy
KA242 DZ
```

S1	CONNECTOR	
	A11	KC132AJ2
	A13	KC122AS2
S2	QUAD CARD	
S3	8250486 Y629	
S4		
S5		

```
KD101 00 01
KD131 03
KD141 04
KD111 05 07 08
KD131 09
KD101 0A
KD111 0B 0C
KD131 0D 0E 0F 0G
KD101 0H
KD151 0J
KD101 0K 0L
KD111 0M
KD151 0N
KD121 0P
KD101 0Q
KD141 0R
KD131 0S 0T
KD111 0U
KD121 0V
KD131 0W
KD141 0X
KD121 0Y 0Z 10
KD131 11
KD111 12
KD121 13 14 15 16 17
KD151 18
KD101 19
KD111 1A
KD131 1B
KD101 1C 1D
KD131 1E
KD101 1F
KD131 1G
KD101 1H 1J
KD111 1K 1L 1M 1N 1P 1Q
      1R 1S 1T 1U
KD141 1V 1W
KD121 1X 1Y
KD141 1Z
KD131 20
KD111 21
KD121 22 23
KD141 24
KD151 25
KD121 26 27 28
KD151 29 2A
KD101 2B
KD111 2C
KD131 2D
KD101 2E
KD151 2F
KD111 2G 2H
KD141 2J 2K
KD101 2L 2M
KD111 2N
KD131 2P
KD141 2Q
KD101 2R 2S
KD131 2T
KD141 2U
KD101 2V
KD151 2W 2X 2Y
KD131 2Z
KD141 30
KD101 31 33
KD141 34
KD131 35 36 37
KD101 38
KD131 39
KD151 3A 3B 3C
KD131 3D
KD101 3E
KD141 3F
KD101 3G 3H
KD141 3J
KD101 3K 3L 3M 3N
KD111 3P 3Q 3R 3S
KD131 3T 3U 3V 3W 3X
KD151 3Y
KD101 3Z
KD131 46
KD101 47
KD131 48
KD151 49
KD121 4E
KD101 57
KD111 59
KD141 5A
```

T1	CONNECTOR	
	A11	PC101AW4
	A13	KA101AT2
	B11	PC101AX4
	C13	KA202AX6
	D11	PC101BJ4
	D13	KA202DE4
	E11	PC101BK4
	E13	KC102CW2
T2	QUAD CARD	
T3	8253789 Y639	
T4		
T5		

```
KC132 00 01 02
KC152 03 04 05 06 07
KC122 08 09 0A 0B
KC132 0C 0D
KC152 0E
KC102 0F
KC152 0G
KC112 0J
KC102 0K
KC132 0L 0M
KC122 0N 0P 0Q 0R 0S 0T
KC152 0U
KC132 0V 0W
KC122 0Y 0Z 10 11
KC102 12 13
KC132 14
KC152 15
KC132 16
KC122 17
KC152 18 19
KC132 1A
KC122 1B
KC132 1C
KC142 1D
KC102 1E 1F 1G 1H 1K
KC132 1L
KC152 1M
KC102 1N
KC132 1P
KC152 1R
KC102 1S 1T
KC142 1U 1V
KC132 1W 1X
KC142 1Y
KC122 1Z
KC142 20 21 22
KC132 23 24 25
KC152 26
KC102 27
KC142 28
KC152 29
KC142 2A
KC132 2B 2C 2D
KC112 2E
KC152 2F
KC142 2G
KC152 2H
KC102 2J
KC132 2M
KC102 2N
KC132 2P
KC102 2Q 2R 2S
KC132 2T 2U
KC122 2V
KC102 2W 2X 2Y 2Z 30
KC112 31 32 33 34 35
KC132 36
KC142 37
KC102 38 39 3A 3B 3C 3D
KC112 3E 3F 3G 3H 3J 3K
      3L 3M 3N 3P
KC152 3Q
KC102 3R 3S
KC132 3V 3W
KC152 3X
KC142 3Y 3Z
KC132 40
KC152 43
KC142 44 46
KC152 47 48
KC102 51
KC132 77 79
KC102 80
KC142 84
```

U1	CONNECTOR	
	A11	PC101BL4
	B13	PC111AW4
	C11	PC101BM4
	C13	KA222BS6
	D11	PC101BP4
	D13	KE161AT2
	E11	PC101BQ4
U2	SINGLE CARD	
	5852588 2588	
	PB111	D1 D2 D3 D4 D5 D6
		D7 D8 D9 DA DB DC
		DD DE DF DG
U3	SINGLE CARD	
	5854412 3125	
	CS101	00 01 02 03 04 05
		06 08 09 0A
U4	DOUBLE CARD	
U5	8250504 BE03	

```
KA322 00 01 02
KA312 03 04 05
KA322 06
KA312 07 08
KA322 09 0A 0B 0C
KA312 0D 0E 0F 0G 0H 0J
      0K
KA322 0L 0M
KA312 0N 0P 0Q 0R
KA322 0S 0T
KA312 0U 0W 0X 0Y 0Z 10
      11 12
KA322 13
KA312 18 19 20 23 24 25
KA322 27 28 29 2A
KA312 2D 2E
KA322 2F
KA312 2G 2H
```

V1	CONNECTOR	
	A13	PC101AU4
	B11	PC101BR4
	B13	PC101AV4
V2	SINGLE CARD	
	5852588 2588	
	PB121	D1 D2 D3 D4 D5 D6
		D7 D8 D9 DA DB DC
		DD DE DF DG
V3	SINGLE CARD	
	5852589 2589	
	PA101	A1 B1 C1 D1 E1 F1
		G1 H1 J1 K1 L1 M1
		N1 P1 Q1 S1
V4	SINGLE CARD	
	5852590 2590	
	PC111	A1 A2 A3 A4 D1 E1
		F1 G1 H1 J1 K1 L1
		M1 N1 P1 Q1
	UNUSED PORTIONS	
	B C S	
V5	SINGLE CARD	
	5852590 2590	
	PC121	A1 A2 A3 A4 J1 K1
		L1 P1 Q1
	UNUSED PORTIONS	
	B C D E F G H M N	
	S	
Y1	XOVR	
	WA991 AA	
Y2	XOVR	
	WA991 AB	
Y3	XOVR	
	WA991 AC	
Y4	XOVR	
	WA991 AD	
Y5	XOVR	
	WA991 AE	
Y6	XOVR	
	WA991 AF	

PLUG LIST

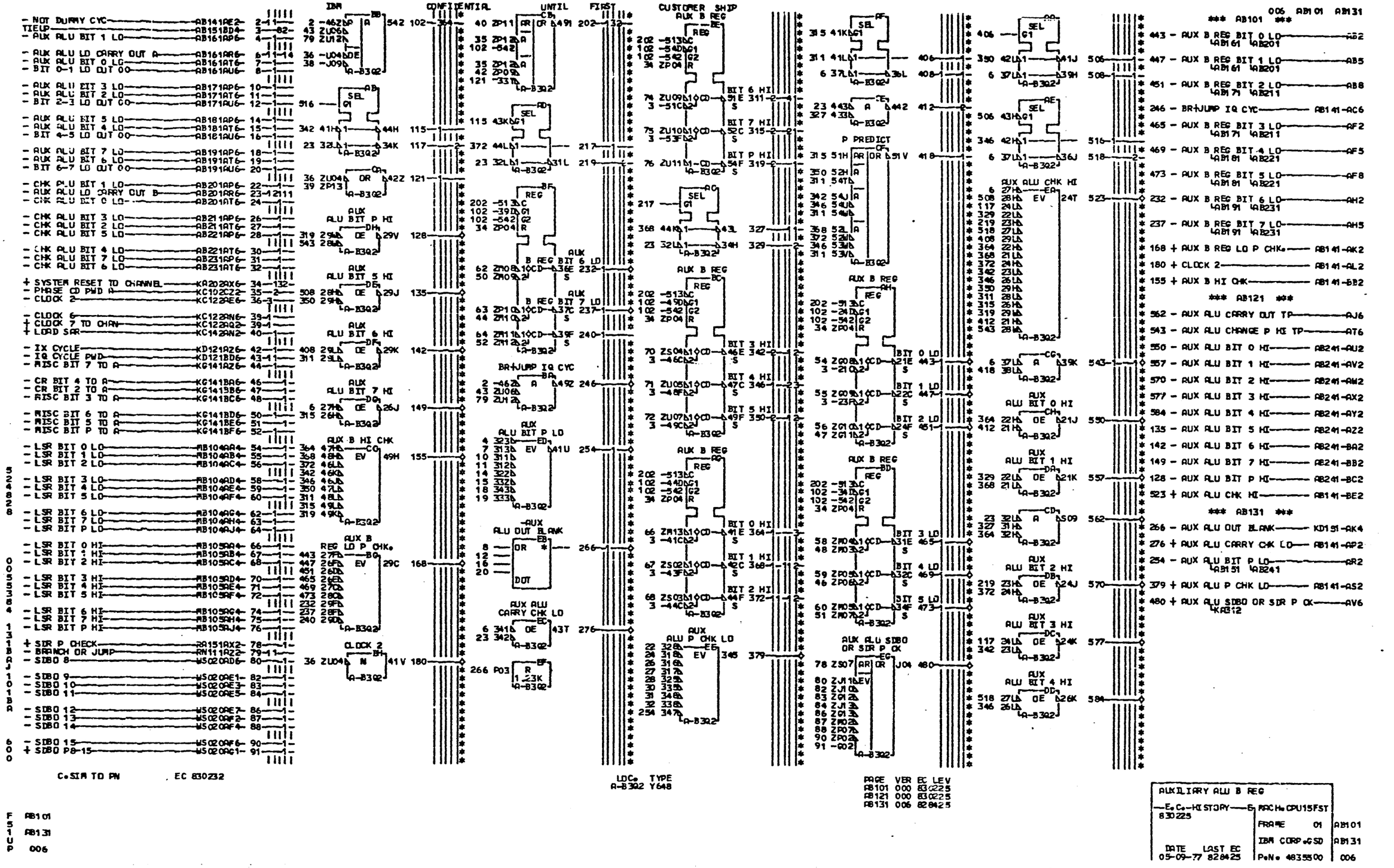
PART NO	ACC	TYPE	SOCKETS			TOTAL
5852588		2588	U2	V2		02
5852589		2589	V3			01
5852590		2590	V4	V5		02
5853092		2573	P2			01
5854412		3125	U3			01
5855120		2574	K2			01
8239467	RSAR	Y664	A3			01
8250484		Y622	P2			01
8250485		Y623	R2			01
8250486		Y629	S2			01
8250490		Y642	A2			01
8250491		Y643	N2			01
8250493		Y646	K2			01
8250495		Y648	Q2			01
8250501		BE00	G2			01
8250502		BE01	C2			01
8250503		BE02	L2			01
8250504		BE03	U4			01
8250506		BE05	D2			01
8250507		BE06	R2			01
8250519		BE04	E2			01
8253788		Y621	K2			01
8253789		Y639	T2			01
		CABL	A2			01
		CONN	A1	A2	A5	35
			B1	B6	C1	C6
			D1	D6	E1	E6
			F1	F6	G1	G6
			H1	H6	J1	J6
			K1	K6	L1	L6
			M1	M6	N1	N6
			P1	Q1	R1	S1
			T1	U1	V1	
		XOVR	Y1	Y2	Y3	06
			Y4	Y5	Y6	

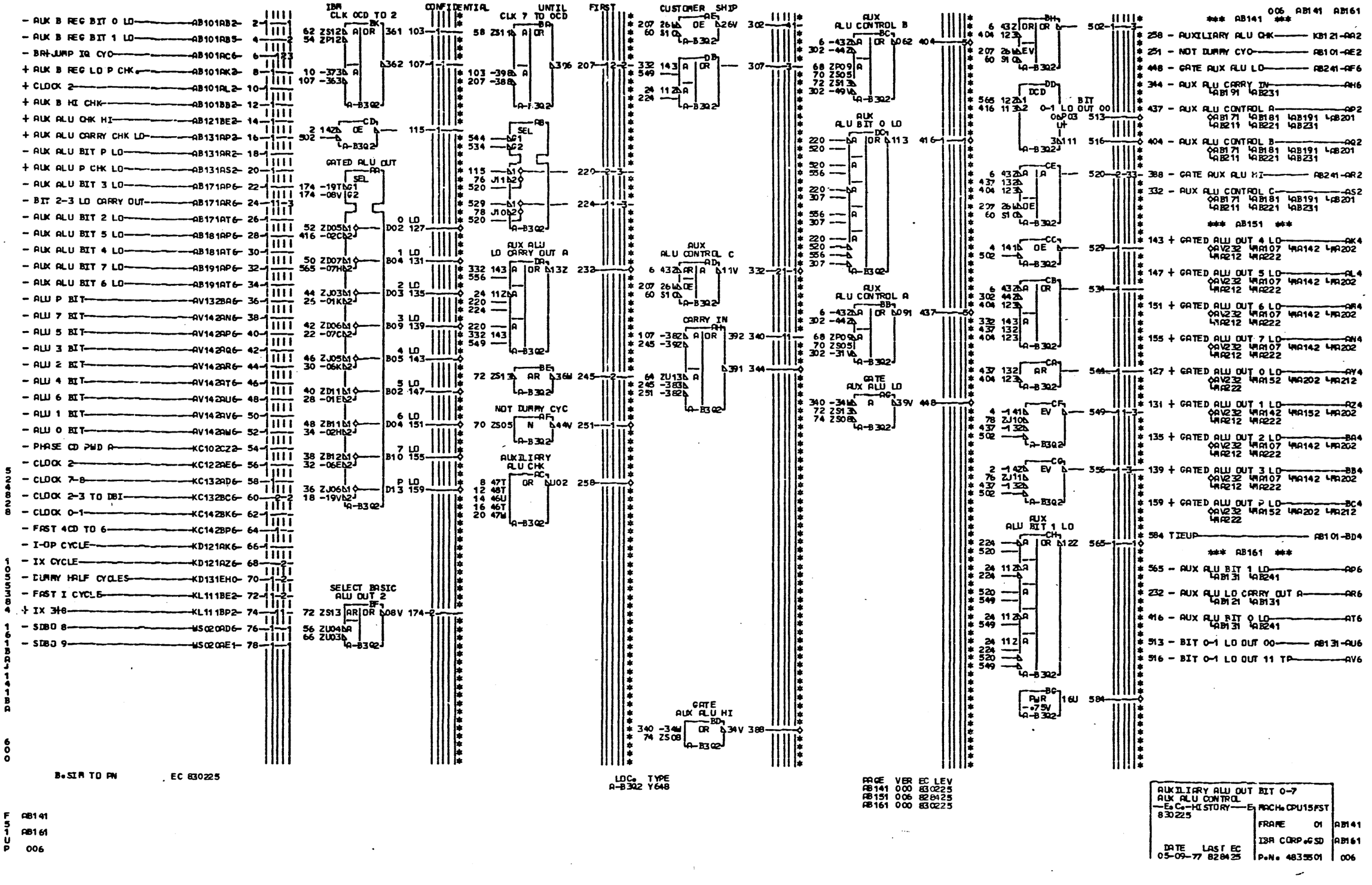
SOCKET LISTING
DATE 07-14-78 MACH. CPU15'ST

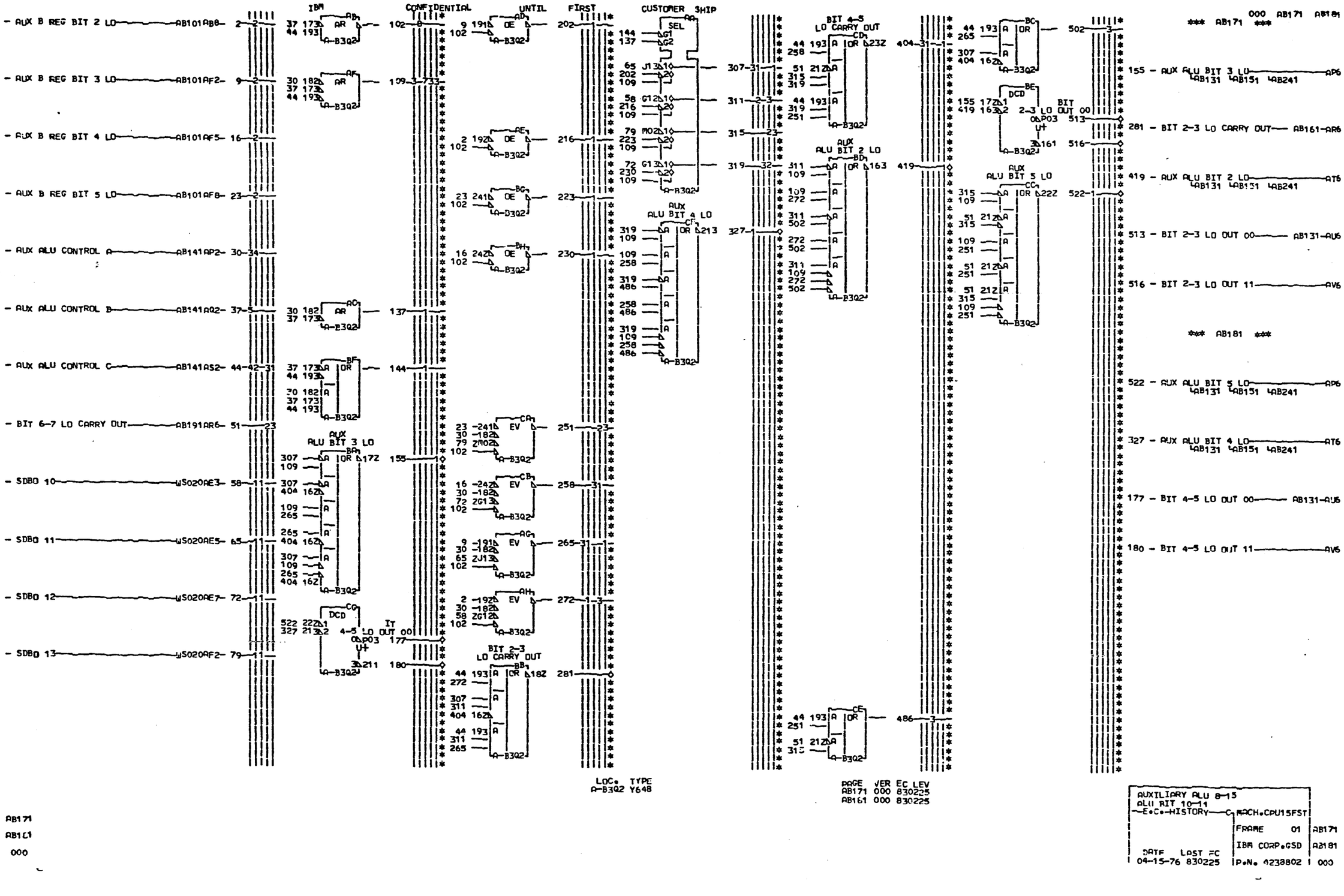
LOG 202 BOARD 01A-83
PREV. ENGR. 05-09-77 828425
PRES. ENGR. 05-25-78 572330
P.N. 4835389

IBM CORP. SDD BLK.

A 1 1 6 1 006


- NOT DUMMY CYC
TIEUP
- ALX ALU BIT 1 LO
- ALX ALU LD CARRY OUT A
- ALX ALU BIT 0 LO
- BIT 0-1 LD OUT 00
- ALX ALU BIT 3 LO
- ALX ALU BIT 2 LO
- BIT 2-3 LD OUT 00
- ALX ALU BIT 5 LO
- ALX ALU BIT 4 LO
- BIT 4-5 LD OUT 00
- ALX ALU BIT 7 LO
- ALX ALU BIT 6 LO
- BIT 6-7 LD OUT 00
- CHK ALU BIT 1 LO
- ALX ALU LD CARRY OUT B
- CHK ALU BIT 0 LO
- CHK ALU BIT 3 LO
- CHK ALU BIT 2 LO
- CHK ALU BIT 5 LO
- CHK ALU BIT 4 LO
- CHK ALU BIT 7 LO
- CHK ALU BIT 6 LO
+ SYSTEM RESET TO CHANNEL
- PHASE CD PWD A
- CLOCK 2
- CLOCK 6
+ CLOCK 7 TO CHAN
+ LOAD SAR
- IX CYCLE
- IQ CYCLE PWD
- MISC BIT 7 TO A
- CR BIT 4 TO A
- CR BIT 2 TO A
- MISC BIT 3 TO A
- MISC BIT 6 TO A
- MISC BIT 5 TO A
- MISC BIT P TO A
- LSR BIT 0 LO
- LSR BIT 1 LO
- LSR BIT 2 LO
- LSR BIT 3 LO
- LSR BIT 4 LO
- LSR BIT 5 LO
- LSR BIT 6 LO
- LSR BIT 7 LO
- LSR BIT P LO
- LSR BIT 0 HI
- LSR BIT 1 HI
- LSR BIT 2 HI
- LSR BIT 3 HI
- LSR BIT 4 HI
- LSR BIT 5 HI
- LSR BIT 6 HI
- LSR BIT 7 HI
- LSR BIT P HI
+ SDR P CHECK
- BRANCH OR JUMP
- SDBO 8
- SDBO 9
- SDBO 10
- SDBO 11
- SDBO 12
- SDBO 13
- SDBO 14
- SDBO 15
+ SDBO P8-15
IBM CONFIDENTIAL
UNTIL FIRST
CUSTOMER SHIP
AUX B REG
P PREDICT
AUX ALU CHK HI
AUX ALU SDBO OR SDR P CK
BR+JUMP IQ CYC
AUX ALU BIT P LD
AUX B HI CHK
AUX B REG LO P CHK
AUX ALU CARRY CHK LO
AUX ALU P CHK LD
AUX ALU DUT BLANK
CLOCK 2
AUX ALU BIT 0 HI
AUX ALU BIT 1 HI
AUX ALU BIT 2 HI
AUX ALU BIT 3 HI
AUX ALU BIT 4 HI
AUX ALU BIT 5 HI
AUX ALU BIT 6 HI
AUX ALU BIT 7 HI
AUX B REG BIT 0 LD
AUX B REG BIT 1 LD
AUX B REG BIT 2 LD
AUX B REG BIT 3 LD
AUX B REG BIT 4 LD
AUX B REG BIT 5 LD
AUX B REG BIT 6 LD
AUX B REG BIT 7 LD
BIT 0 HI
BIT 1 HI
BIT 2 HI
BIT 3 HI
BIT 4 HI
BIT 5 HI
BIT 6 HI
BIT 7 HI
BIT P HI
BIT 0 LD
BIT 1 LD
BIT 2 LD
BIT 3 LD
BIT 4 LD
BIT 5 LD
*** AB101 ***
443 - AUX B REG BIT 0 LO
447 - AUX B REG BIT 1 LO
451 - AUX B REG BIT 2 LO
246 - BR+JUMP IQ CYC
465 - AUX B REG BIT 3 LO
469 - AUX B REG BIT 4 LO
473 - AUX B REG BIT 5 LO
232 - AUX B REG BIT 6 LO
237 - AUX B REG BIT 7 LO
168 + AUX B REG LO P CHK
180 + CLOCK 2
155 + AUX B HI CHK
*** AB121 ***
562 - AUX ALU CARRY OUT TP
543 - AUX ALU CHANGE P HI TP
550 - AUX ALU BIT 0 HI
557 - AUX ALU BIT 1 HI
570 - AUX ALU BIT 2 HI
577 - AUX ALU BIT 3 HI
584 - AUX ALU BIT 4 HI
135 - AUX ALU BIT 5 HI
142 - AUX ALU BIT 6 HI
149 - AUX ALU BIT 7 HI
128 - AUX ALU BIT P HI
523 + AUX ALU CHK HI
*** AB131 ***
268 - AUX ALU OUT BLANK
276 + AUX ALU CARRY CHK LO
254 - AUX ALU BIT P LO
379 + AUX ALU P CHK LD
480 + AUX ALU SDBO OR SDR P CK
C.SIM TO PN
EC 830232
LDC. TYPE
A-B302 Y648
PAGE VER EC LEV
AB101 000 830225
AB121 000 830225
AB131 006 828425
AUXILIARY ALU B REG
E.C.-HISTORY
830225
DATE LAST EC
05-09-77 828425
FRAME 01 AB101
IBM CORP.GSD AB131
P.N. 4835500 006


- AUX B REG BIT 0 LO AB101AB2
- AUX B REG BIT 1 LO AB101AB5
- BR JUMP IQ CYO AB101AC6
+ AUX B REG LO P CHK AB101AK2
+ CLOCK 2 AB101AL2
+ AUX B HI CHK AB101BB2
+ AUX ALU CHK HI AB121BE2
+ AUX ALU CARRY CHK LO AB131AP2
- AUX ALU BIT P LO AB131AR2
+ AUX ALU P CHK LO AB131AS2
- AUX ALU BIT 3 LO AB171AP6
- BIT 2-3 LO CARRY OUT AB171AR6
- AUX ALU BIT 2 LO AB171AT6
- AUX ALU BIT 5 LO AB181AP6
- AUX ALU BIT 4 LO AB181AT6
- AUX ALU BIT 7 LO AB191AP6
- AUX ALU BIT 6 LO AB191AT6
- ALU P BIT AV132BA6
- ALU 7 BIT AV142AN6
- ALU 5 BIT AV142AP6
- ALU 3 BIT AV142AQ6
- ALU 2 BIT AV142AR6
- ALU 4 BIT AV142AT6
- ALU 6 BIT AV142AU6
- ALU 1 BIT AV142AV6
- ALU 0 BIT AV142AW6
- PHASE CD PWD A KC102CZ2
- CLOCK 2 KC122AE6
- CLOCK 7-8 KC132AD6
- CLOCK 2-3 TO DBI KC132BC6
- CLOCK 0-1 KC142BK6
- FAST 4CD TO 6 KC142BP6
- I-OP CYCLE KD121AK6
- IX CYCLE KD121AZ6
- DUMMY HALF CYCLES KD131EH0
- FAST I CYCLE KL111BE2
+ IX 3&8 KL111BP2
- SIBO 8 WS020AD6
- SIBO 9 WS020AE1
IBM CLK OCD TO 2
GATED ALU OUT
SELECT BASIC ALU OUT 2
CONFIDENTIAL
UNTIL FIRST
CLK 7 TO OCD
AUX ALU LO CARRY OUT A
NOT DUMMY CYC
AUXILIARY ALU CHK
CUSTOMER SHIP
AUX ALU CONTROL C
CARRY IN
GATE AUX ALU HI
AUX ALU CONTROL B
AUX ALU BIT 0 LO
AUX ALU CONTROL A
GATE AUX ALU LO
AUX ALU BIT 1 LO
DCD BIT 0-1 LO OUT 00
*** AB141 ***
258 - AUXILIARY ALU CHK
251 - NOT DUMMY CYO
448 - GATE AUX ALU LO
344 - AUX ALU CARRY IN
437 - AUX ALU CONTROL A
404 - AUX ALU CONTROL B
388 - GATE AUX ALU HI
332 - AUX ALU CONTROL C
*** AB151 ***
143 + GATED ALU OUT 4 LO
147 + GATED ALU OUT 5 LO
151 + GATED ALU OUT 6 LO
155 + GATED ALU OUT 7 LO
127 + GATED ALU OUT 0 LO
131 + GATED ALU OUT 1 LO
135 + GATED ALU OUT 2 LO
139 + GATED ALU OUT 3 LO
159 + GATED ALU OUT P LO
584 TIEUP
*** AB161 ***
565 - AUX ALU BIT 1 LO
232 - AUX ALU LO CARRY OUT A
416 - AUX ALU BIT 0 LO
513 - BIT 0-1 LO OUT 00
516 - BIT 0-1 LO OUT 11 TP
B.SIA TO PN EC 830225
LOC. TYPE
A-B302 Y648
PAGE VER EC LEV
AB141 000 830225
AB151 006 828425
AB161 000 830225
F AB141
5 AB151
1 AB161
U
P 006
AUXILIARY ALU OUT BIT 0-7
AUX ALU CONTROL
E.C. HISTORY
830225
MACH. CPU15FST
FRAME 01 AB141
IBM CORP. GSD AB161
DATE LAST EC
05-09-77 828425
P.N. 4835501 006


IBM CONFIDENTIAL UNTIL FIRST CUSTOMER SHIP
- AUX B REG BIT 2 LO AB101AB8 2
- AUX B REG BIT 3 LO AB101AF2 9
- AUX B REG BIT 4 LO AB101AF5 16
- AUX B REG BIT 5 LO AB101AF8 23
- AUX ALU CONTROL A AB141AP2 30-34
- AUX ALU CONTROL B AB141AQ2 37-5
- AUX ALU CONTROL C AB141AS2 44-42-31
- BIT 6-7 LO CARRY OUT AB191AR6 51-23
- SDBO 10 uS020AE3 58-11
- SDBO 11 uS020AE5 65-11
- SDBO 12 uS020AE7 72-11
- SDBO 13 uS020AF2 79-11
AUX ALU BIT 3 LO
AUX ALU BIT 4 LO
AUX ALU BIT 2 LO
AUX ALU BIT 5 LO
BIT 4-5 LO CARRY OUT
BIT 2-3 LO CARRY OUT
BIT 4-5 LO OUT 00
BIT 2-3 LO OUT 00
155 - AUX ALU BIT 3 LO AP6
281 - BIT 2-3 LO CARRY OUT AB161-AR6
419 - AUX ALU BIT 2 LO AT6
513 - BIT 2-3 LO OUT 00 AB131-AU6
516 - BIT 2-3 LO OUT 11 AV6
327 - AUX ALU BIT 4 LO AT6
177 - BIT 4-5 LO OUT 00 AB131-AU6
180 - BIT 4-5 LO OUT 11 AV6
522 - AUX ALU BIT 5 LO AP6
LOC. TYPE
A-B3Q2 Y648
AUXILIARY ALU 8-15
ALU BIT 10-11
E.C. HISTORY
MACH.CPU15FST
FRAME 01
IBM CORP.GSD
DATE LAST EC
04-15-76 830225
P.N. 4238802
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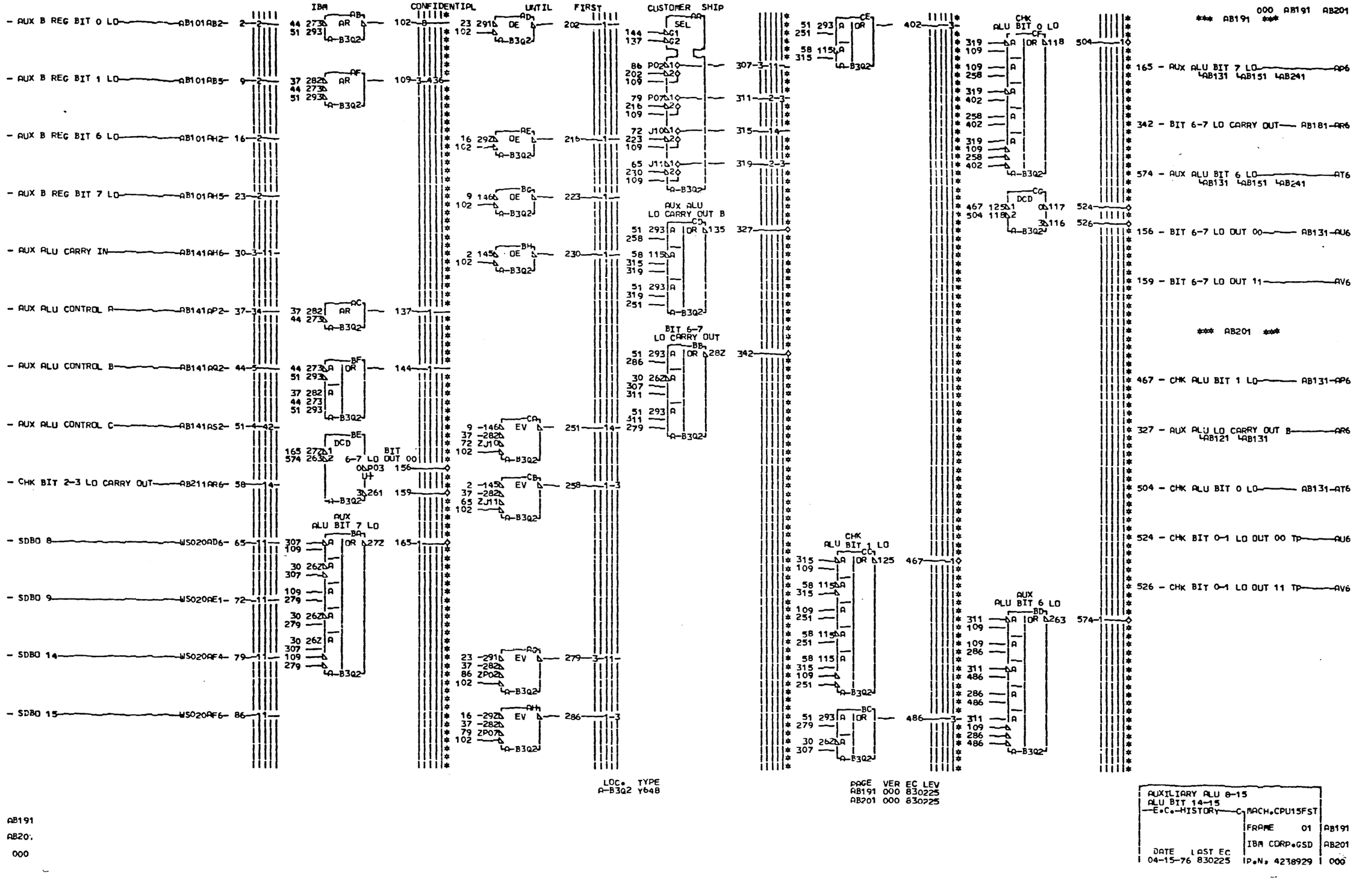
AB171
AB161
000



AB191

AB201

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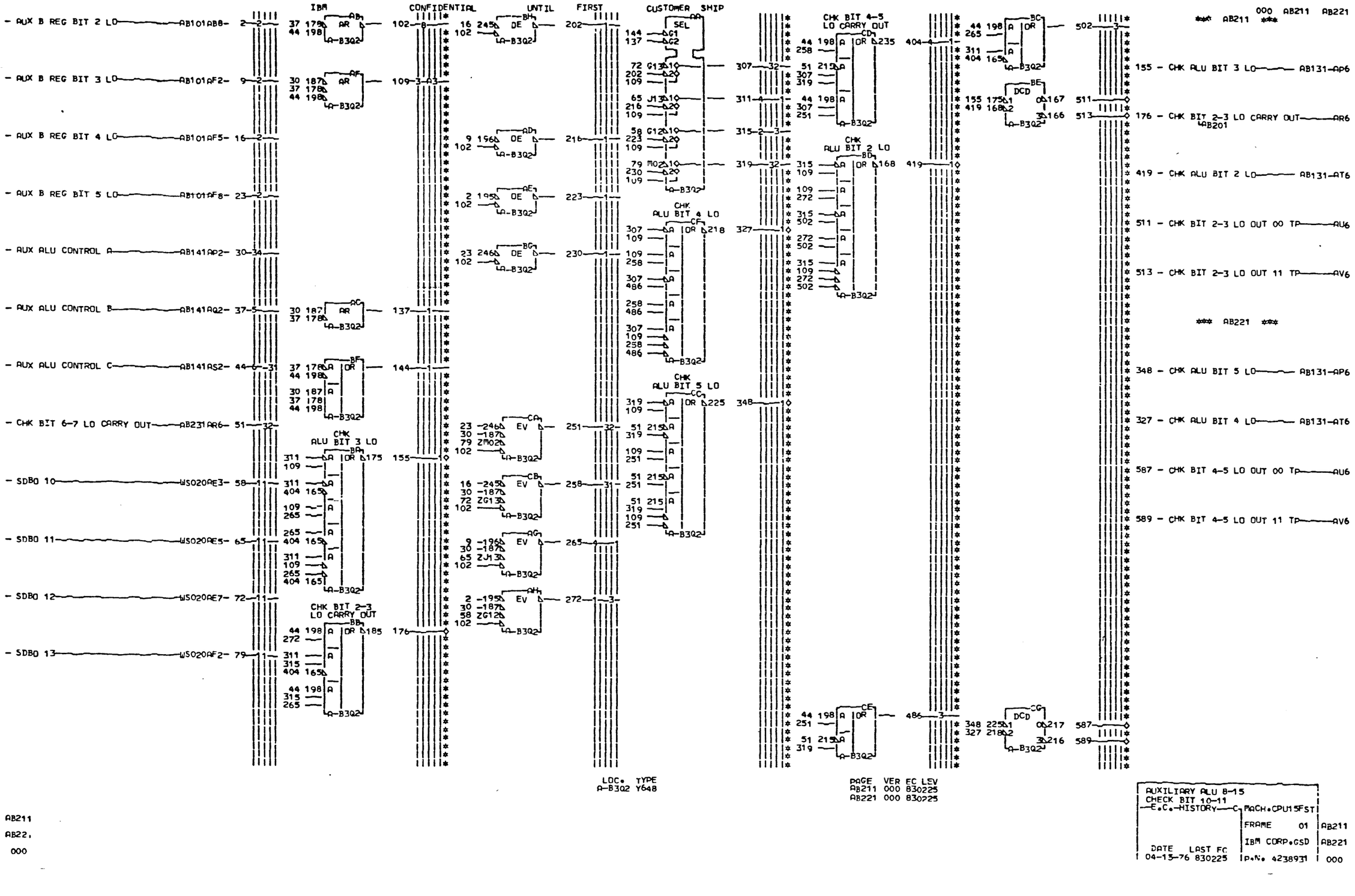

AB211
AB22,
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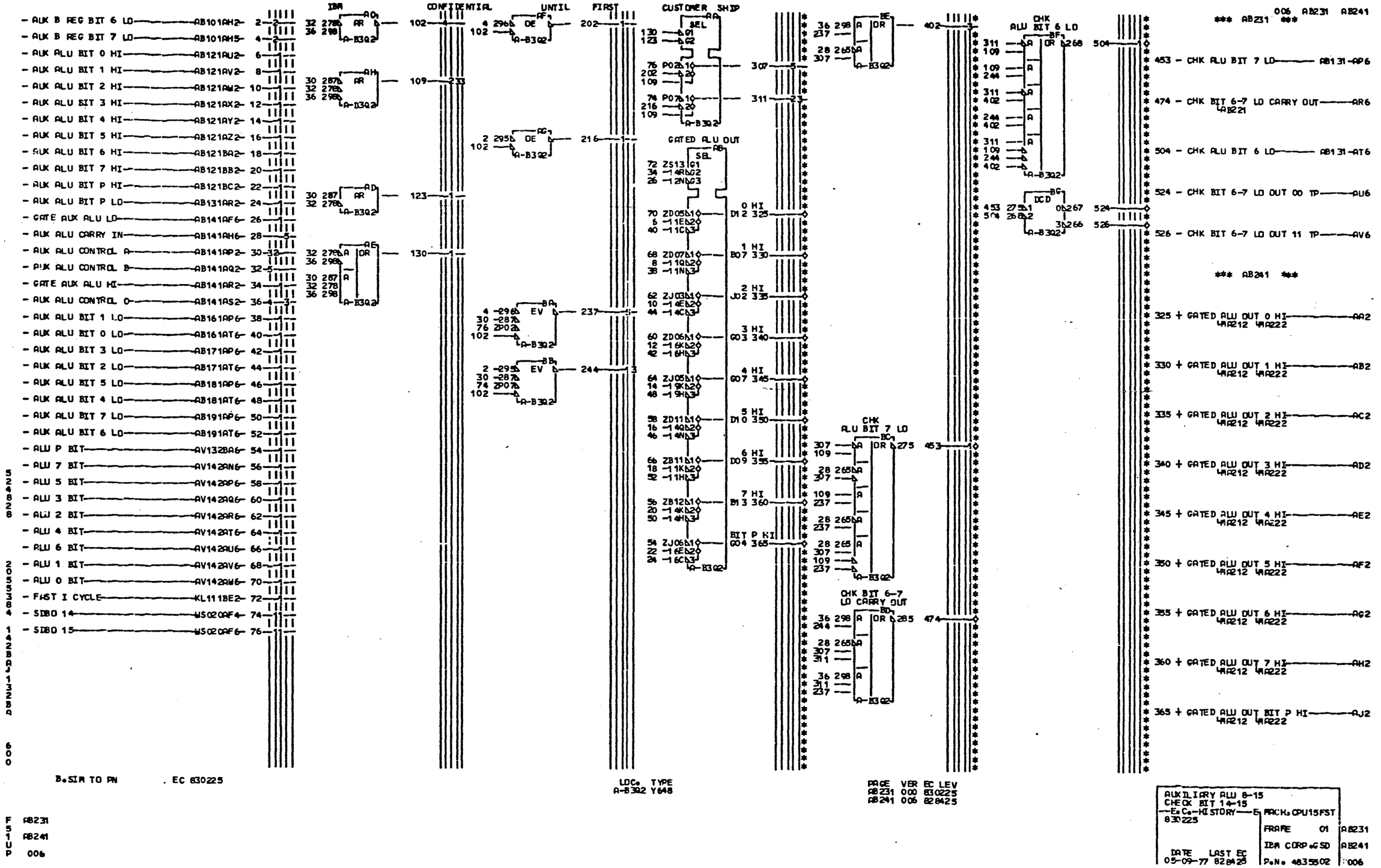
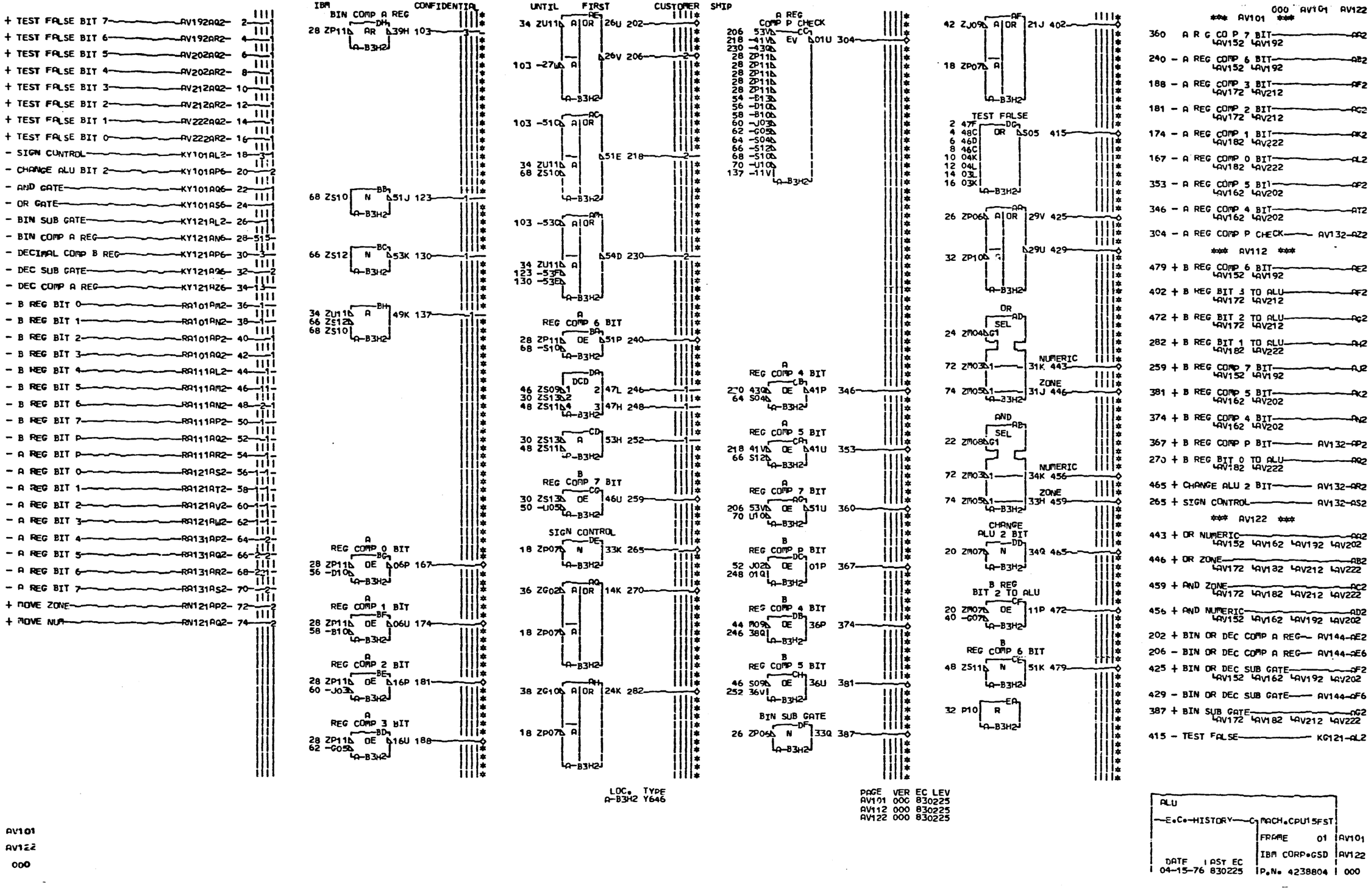
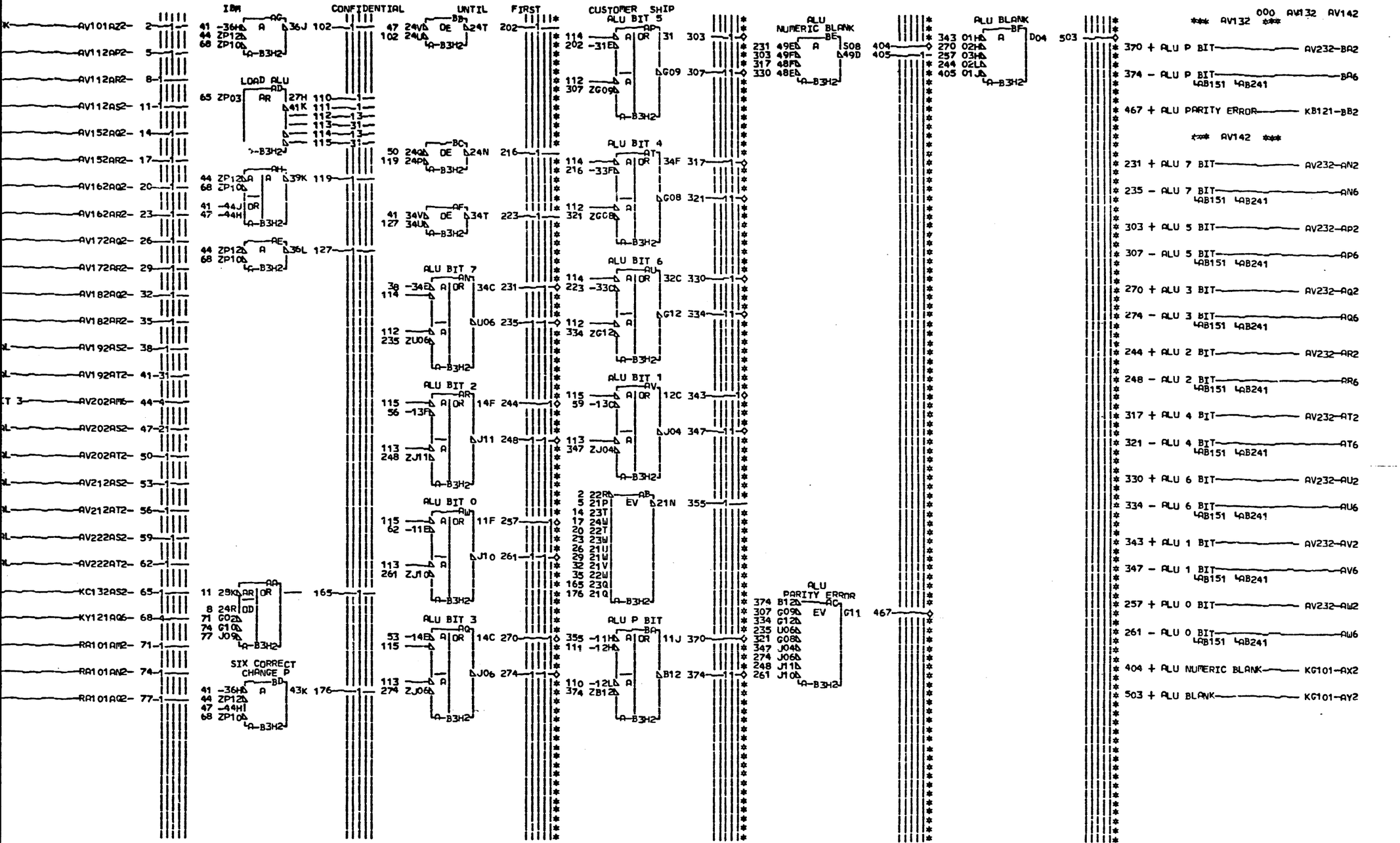

- AUX B REG BIT 6 LO — AB101AH2 — 2
- AUX B REG BIT 7 LO — AB101AH5 — 4
- AUX ALU BIT 0 HI — AB121AU2 — 6
- AUX ALU BIT 1 HI — AB121AV2 — 8
- AUX ALU BIT 2 HI — AB121AW2 — 10
- AUX ALU BIT 3 HI — AB121AX2 — 12
- AUX ALU BIT 4 HI — AB121AY2 — 14
- AUX ALU BIT 5 HI — AB121AZ2 — 16
- AUX ALU BIT 6 HI — AB121BA2 — 18
- AUX ALU BIT 7 HI — AB121BB2 — 20
- AUX ALU BIT P HI — AB121BC2 — 22
- AUX ALU BIT P LO — AB131AR2 — 24
- GATE AUX ALU LO — AB141AF6 — 26
- AUX ALU CARRY IN — AB141AH6 — 28
- AUX ALU CONTROL A — AB141AP2 — 30-32
- AUX ALU CONTROL B — AB141AQ2 — 32-5
- GATE AUX ALU HI — AB141AR2 — 34
- AUX ALU CONTROL 0 — AB141AS2 — 36-4-3
- AUX ALU BIT 1 LO — AB161AP6 — 38
- AUX ALU BIT 0 LO — AB161AT6 — 40
- AUX ALU BIT 3 LO — AB171AP6 — 42
- AUX ALU BIT 2 LO — AB171AT6 — 44
- AUX ALU BIT 5 LO — AB181AP6 — 46
- AUX ALU BIT 4 LO — AB181AT6 — 48
- AUX ALU BIT 7 LO — AB191AP6 — 50
- AUX ALU BIT 6 LO — AB191AT6 — 52
- ALU P BIT — AV132BA6 — 54
- ALU 7 BIT — AV142AN6 — 56
- ALU 5 BIT — AV142AP6 — 58
- ALU 3 BIT — AV142AQ6 — 60
- ALU 2 BIT — AV142AR6 — 62
- ALU 4 BIT — AV142AT6 — 64
- ALU 6 BIT — AV142AU6 — 66
- ALU 1 BIT — AV142AV6 — 68
- ALU 0 BIT — AV142AW6 — 70
- FAST I CYCLE — KL111BE2 — 72
- SDBO 14 — WS020AF4 — 74
- SDBO 15 — WS020AF6 — 76
B.SIM TO PN . EC 830225
F AB231
S AB241
U
P 006
IBM
CONFIDENTIAL
UNTIL
FIRST
CUSTOMER SHIP
GATED ALU OUT
CHK ALU BIT 6 LD
CHK ALU BIT 7 LD
CHK BIT 6-7 LD CARRY OUT
006 AB231 AB241
*** AB231 ***
453 - CHK ALU BIT 7 LD — AB131-AP6
474 - CHK BIT 6-7 LD CARRY OUT — AR6
504 - CHK ALU BIT 6 LD — AB131-AT6
524 - CHK BIT 6-7 LD OUT 00 TP — AU6
526 - CHK BIT 6-7 LD OUT 11 TP — AV6
*** AB241 ***
325 + GATED ALU OUT 0 HI — AA2
330 + GATED ALU OUT 1 HI — AB2
335 + GATED ALU OUT 2 HI — AC2
340 + GATED ALU OUT 3 HI — AD2
345 + GATED ALU OUT 4 HI — AE2
350 + GATED ALU OUT 5 HI — AF2
355 + GATED ALU OUT 6 HI — AG2
360 + GATED ALU OUT 7 HI — AH2
365 + GATED ALU OUT BIT P HI — AJ2
LOC. TYPE
A-B302 Y648
PAGE VER EC LEV
AB231 000 830225
AB241 006 828425
AUXILIARY ALU 8-15
CHECK BIT 14-15
E.C. HISTORY
830225
DATE LAST EC
05-09-77 828425
FRAME 01 AB231
IBM CORP. GSD AB241
P.N. 4835502 006


+ TEST FALSE BIT 7 AV192AQ2- 2
+ TEST FALSE BIT 6 AV192AR2- 4
+ TEST FALSE BIT 5 AV202AQ2- 6
+ TEST FALSE BIT 4 AV202AR2- 8
+ TEST FALSE BIT 3 AV212AQ2- 10
+ TEST FALSE BIT 2 AV212AR2- 12
+ TEST FALSE BIT 1 AV222AQ2- 14
+ TEST FALSE BIT 0 AV222AR2- 16
- SIGN CONTROL KY101AL2- 18
- CHANGE ALU BIT 2 KY101AP6- 20
- AND GATE KY101AQ6- 22
- OR GATE KY101AS6- 24
- BIN SUB GATE KY121AL2- 26
- BIN COMP A REG KY121AN6- 28
- DECIMAL COMP B REG KY121AP6- 30
- DEC SUB GATE KY121AQ6- 32
- DEC COMP A REG KY121AZ6- 34
- B REG BIT 0 RA101AM2- 36
- B REG BIT 1 RA101AN2- 38
- B REG BIT 2 RA101AP2- 40
- B REG BIT 3 RA101AQ2- 42
- B REG BIT 4 RA111AL2- 44
- B REG BIT 5 RA111AM2- 46
- B REG BIT 6 RA111AN2- 48
- B REG BIT 7 RA111AP2- 50
- B REG BIT P RA111AQ2- 52
- A REG BIT P RA111AR2- 54
- A REG BIT 0 RA121AS2- 56
- A REG BIT 1 RA121AT2- 58
- A REG BIT 2 RA121AV2- 60
- A REG BIT 3 RA121AW2- 62
- A REG BIT 4 RA131AP2- 64
- A REG BIT 5 RA131AQ2- 66
- A REG BIT 6 RA131AR2- 68
- A REG BIT 7 RA131AS2- 70
+ MOVE ZONE RN121AP2- 72
+ MOVE NUM RN121AQ2- 74
IBM CONFIDENTIAL
BIN COMP A REG
28 ZP11 AR 39H 103
68 ZS10 N 51J 123
66 ZS12 N 53K 130
34 ZU11 A
66 ZS12
68 ZS10
49K 137
A REG COMP 0 BIT
28 ZP11 OE 06P 167
56 -D10
A REG COMP 1 BIT
28 ZP11 OE 06U 174
58 -B10
A REG COMP 2 BIT
28 ZP11 OE 16P 181
60 -J03
A REG COMP 3 BIT
28 ZP11 OE 16U 188
62 -G05
UNTIL FIRST CUSTOMER SHIP
34 ZU11 A OR 26U 202
103 -27U A 26V 206
103 -51Q A OR
34 ZU11 A
68 ZS10
51E 218
103 -53Q A OR
34 ZU11 A
123 -53FU
130 -53EU
54D 230
A REG COMP 6 BIT
28 ZP11 DE 51P 240
68 -S10
DCD
46 ZS09 2 47L 246
30 ZS13 2
48 ZS11 3 47H 248
30 ZS13 A 53H 252
48 ZS11
B REG COMP 7 BIT
30 ZS13 OE 46U 259
50 -U05
SIGN CONTROL
18 ZP07 N 33K 265
36 ZG02 A OR 14K 270
18 ZP07 A
38 ZG10 A OR 24K 282
18 ZP07 A
A REG COMP P CHECK
206 53V CC
218 41V EV 01U 304
230 43Q
28 ZP11
28 ZP11
28 ZP11
28 ZP11
28 ZP11
54 -B13
56 -D10
58 -B10
60 -J03
62 -G05
64 -S04
66 -S12
68 -S10
70 -U10
137 -11V
A REG COMP 4 BIT
206 43Q DE 41P 346
64 S04
A REG COMP 5 BIT
218 41V DE 41U 353
66 S12
A REG COMP 7 BIT
206 53V DE 51U 360
70 U10
B REG COMP P BIT
52 J02 DE 01P 367
248 01Q
B REG COMP 4 BIT
44 M09 DE 36P 374
246 38Q
B REG COMP 5 BIT
46 S09 DE 36U 381
252 36V
BIN SUB GATE
26 ZP06 N 33Q 387
42 ZJ09 A OR 21J 402
18 ZP07 A
TEST FALSE
2 47F
4 48C OR 05S 415
6 46D
8 46C
10 04K
12 04L
14 03L
16 03K
26 ZP06 A OR 29V 425
32 ZP10 29U 429
OR SEL
24 ZM04 G1
72 ZM03 1 NUMERIC 31K 443
74 ZM05 1 ZONE 31J 446
AND SEL
22 ZM08 G1
72 ZM03 1 NUMERIC 34K 456
74 ZM05 1 ZONE 33H 459
CHANGE ALU 2 BIT
20 ZM07 N 34Q 465
B REG BIT 2 TO ALU
20 ZM07 OE 11P 472
40 -G07
B REG COMP 6 BIT
48 ZS11 N 51K 479
32 P10 R
000 AV101 AV122
*** AV101 ***
360 A R G CO P 7 BIT AR2
AV152 AV192
240 - A REG COMP 6 BIT AB2
AV152 AV192
188 - A REG COMP 3 BIT AF2
AV172 AV212
181 - A REG COMP 2 BIT AC2
AV172 AV212
174 - A REG COMP 1 BIT AK2
AV182 AV222
167 - A REG COMP 0 BIT AL2
AV182 AV222
353 - A REG COMP 5 BIT AP2
AV162 AV202
346 - A REG COMP 4 BIT AT2
AV162 AV202
304 - A REG COMP P CHECK AV132-AZ2
*** AV112 ***
479 + B REG COMP 6 BIT AE2
AV152 AV192
402 + B REG BIT 3 TO ALU AF2
AV172 AV212
472 + B REG BIT 2 TO ALU AC2
AV172 AV212
282 + B REG BIT 1 TO ALU AH2
AV182 AV222
259 + B REG COMP 7 BIT AJ2
AV152 AV192
381 + B REG COMP 5 BIT AK2
AV162 AV202
374 + B REG COMP 4 BIT AN2
AV162 AV202
367 + B REG COMP P BIT AV132-AP2
270 + B REG BIT 0 TO ALU AQ2
AV182 AV222
465 + CHANGE ALU 2 BIT AV132-AR2
265 + SIGN CONTROL AV132-AS2
*** AV122 ***
443 + OR NUMERIC AQ2
AV152 AV162 AV192 AV202
446 + OR ZONE AB2
AV172 AV182 AV212 AV222
459 + AND ZONE AC2
AV172 AV182 AV212 AV222
456 + AND NUMERIC AD2
AV152 AV162 AV192 AV202
202 + BIN OR DEC COMP A REG AV144-AE2
206 - BIN OR DEC COMP A REG AV144-AE6
425 + BIN OR DEC SUB GATE AF2
AV152 AV162 AV192 AV202
429 - BIN OR DEC SUB GATE AV144-AF6
387 + BIN SUB GATE AG2
AV172 AV182 AV212 AV222
415 - TEST FALSE KG121-AL2
LOC. TYPE
A-B3H2 Y646
PAGE VER EC LEV
AV101 000 830225
AV112 000 830225
AV122 000 830225
AV101
AV122
000
ALU
E.C.-HISTORY-C MACH.CPU15FST
FRAME 01 AV101
IBM CORP.GSD AV122
DATE LAST EC
04-15-76 830225
P.N. 4238804 000



LOC. TYPE
A-B3H2 Y646

PAGE VER EC LEV
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AV142 000 830225

ALU		
E.C.-HISTORY	MACH.CPU15FST	
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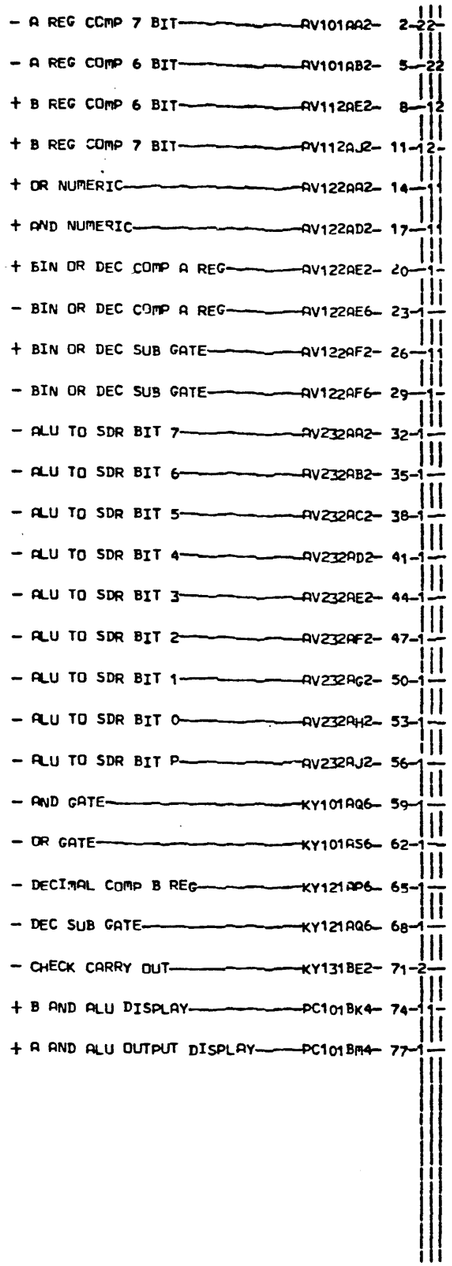
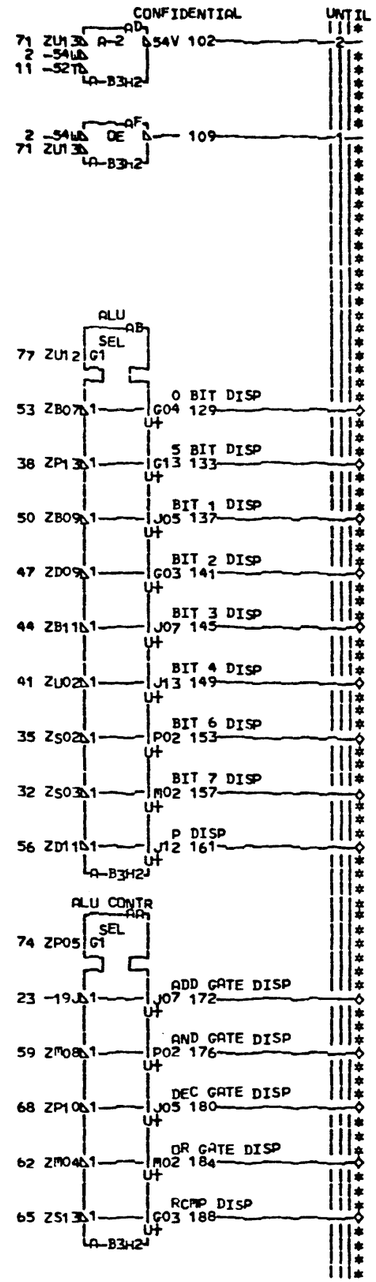
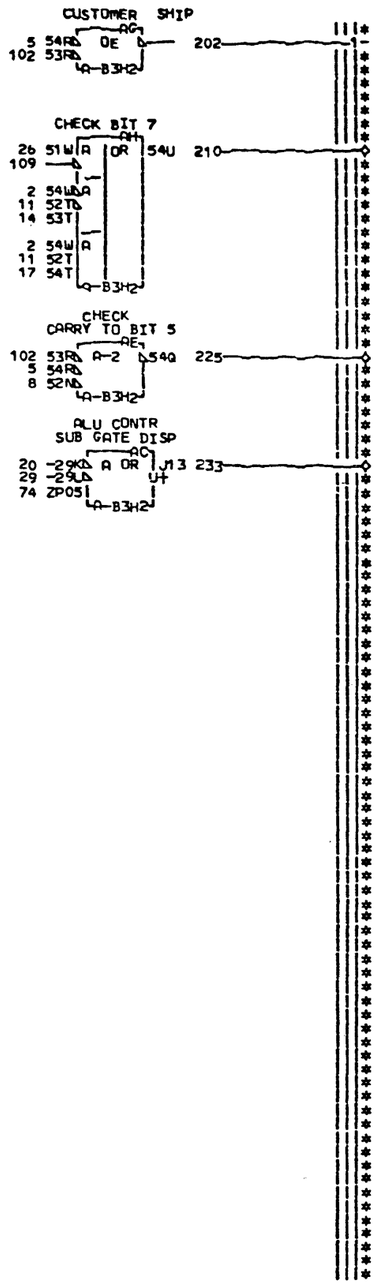
	IBM CORP.GSD	AV142
DATE LAST EC	P.N. 4238805	000
04-15-76 830225		



IBM CONFIDENTIAL UNTIL FIRST CUSTOMER SHIP





*** AV144 *** 000 AV144 AV152

157 + ALU BIT 7 DISP KE295-AC2
184 + ALU CONTR OR GATE DISP KE295-AD2
133 + ALU 5 BIT DISP KE295-AE2
145 + ALU BIT 3 DISP KE295-AF2
172 + ALU CONTR ADD GATE DISP KE295-AG2
129 + ALU 0 BIT DISP KE295-AH2
161 + ALU P DISP KE295-AJ2
149 + ALU BIT 4 DISP KE295-AP2
233 + ALU CONTR SUB GATE DISP KE295-AQ2
153 + ALU BIT 6 DISP KE295-AR2
176 + ALU CONTR AND GATE DISP KE295-AS2
137 + ALU BIT 1 DISP KE295-AT2
180 + ALU CONTR DEC GATE DISP KE295-AU2
141 + ALU BIT 2 DISP KE295-AV2
188 + ALU CONTR RCMP DISP KE295-AW2

*** AV152 ***

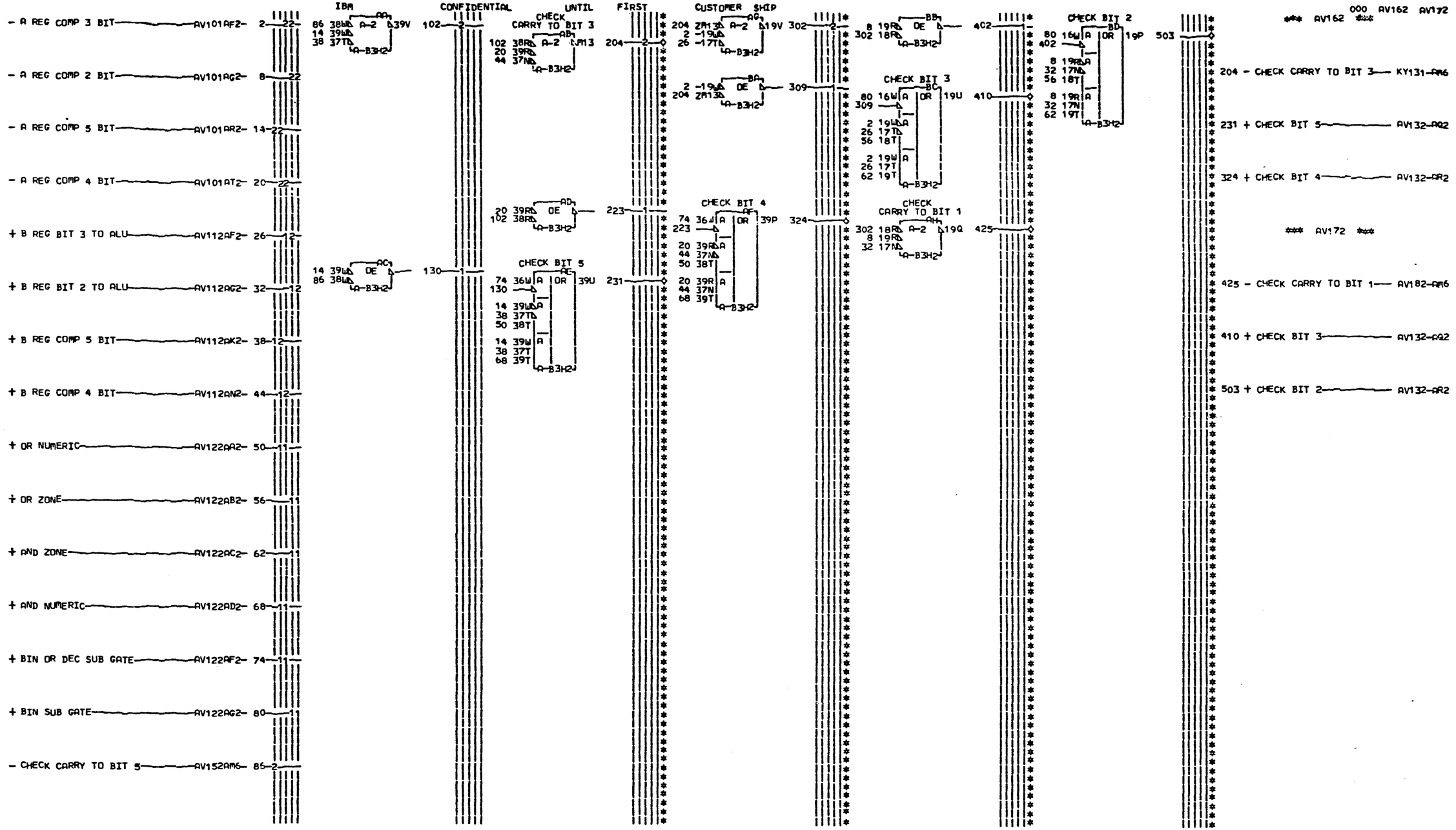
225 - CHECK CARRY TO BIT 5 AV162-AM6
210 + CHECK BIT 7 AV132-AQ2
303 + CHECK BIT 6 AV132-AR2

LOC. TYPE
A-B3H2 Y646

PAGE VER EC LEV
AV144 000 830225
AV152 000 830225

AV144
AV152
000

ALU
E.C. HISTORY C. MACH.CPU 15FST
FRAME 01 AV144
IBM CORP.GSD AV152
DATE LAST EC P.N. 4238806 000
04-15-76 830225



LOC. TYPE
A-B3H2 Y646

PAGE	VER	EC LEV
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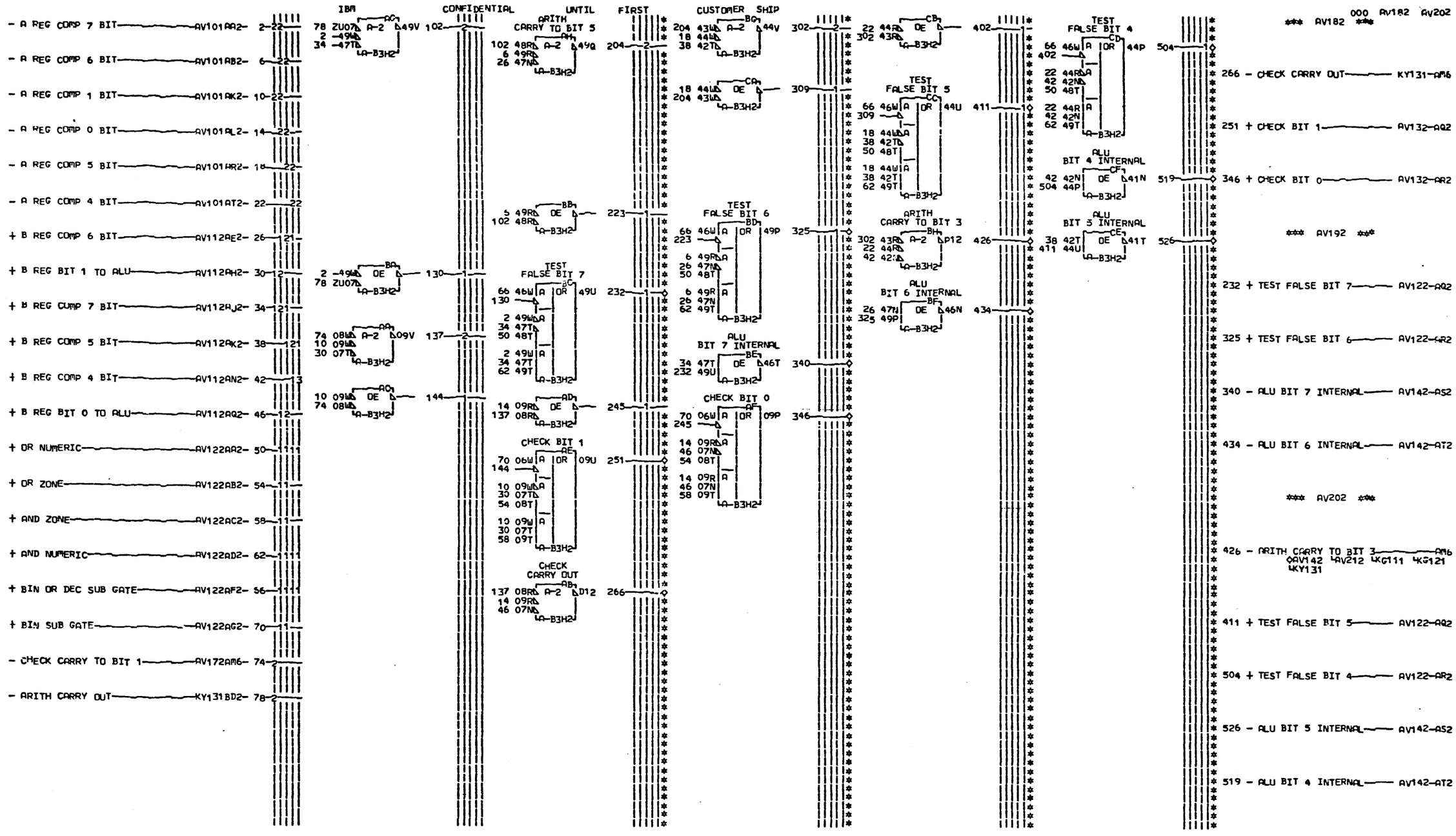
AV172	000	830225

AV162
AV172
000

ALU
E.C.-HISTORY — C1 MACH.CPU 5FST
FRAME 01 AV162
IBM CORP.GSD AV172
DATE LAST EC 04-15-76 830225
P.No. 4238807 000


- A REG COMP 7 BIT AV101AA2- 2-22
- A REG COMP 6 BIT AV101AB2- 6-22
- A REG COMP 1 BIT AV101AK2- 10-22
- A REG COMP 0 BIT AV101AL2- 14-22
- A REG COMP 5 BIT AV101AR2- 18-22
- A REG COMP 4 BIT AV101AT2- 22-22
+ B REG COMP 6 BIT AV112AE2- 26-21
+ B REG BIT 1 TO ALU AV112AH2- 30-12
+ B REG COMP 7 BIT AV112AJ2- 34-21
+ B REG COMP 5 BIT AV112AK2- 38-21
+ B REG COMP 4 BIT AV112AN2- 42-13
+ B REG BIT 0 TO ALU AV112AQ2- 46-12
+ OR NUMERIC AV122AA2- 50-1111
+ OR ZONE AV122AB2- 54-11
+ AND ZONE AV122AC2- 58-11
+ AND NUMERIC AV122AD2- 62-1111
+ BIN OR DEC SUB GATE AV122AF2- 56-1111
+ BIN SUB GATE AV122AG2- 70-11
- CHECK CARRY TO BIT 1 AV172AM6- 74-2
- ARITH CARRY OUT KY131BD2- 78-2
IBM CONFIDENTIAL UNTIL FIRST CUSTOMER SHIP
ARITH CARRY TO BIT 5
TEST FALSE BIT 7
CHECK BIT 1
CHECK CARRY OUT
TEST FALSE BIT 6
ALU BIT 7 INTERNAL
CHECK BIT 0
TEST FALSE BIT 5
ARITH CARRY TO BIT 3
ALU BIT 6 INTERNAL
TEST FALSE BIT 4
ALU BIT 5 INTERNAL
ALU BIT 4 INTERNAL
*** AV182 ***
000 AV182 AV202
266 - CHECK CARRY OUT KY131-AM6
251 + CHECK BIT 1 AV132-AQ2
346 + CHECK BIT 0 AV132-AR2
*** AV192 ***
232 + TEST FALSE BIT 7 AV122-AQ2
325 + TEST FALSE BIT 6 AV122-AR2
340 - ALU BIT 7 INTERNAL AV142-AS2
434 - ALU BIT 6 INTERNAL AV142-AT2
*** AV202 ***
426 - ARITH CARRY TO BIT 3 AM6
AV142 AV212 KG111 KG121
KY131
411 + TEST FALSE BIT 5 AV122-AQ2
504 + TEST FALSE BIT 4 AV122-AR2
526 - ALU BIT 5 INTERNAL AV142-AS2
519 - ALU BIT 4 INTERNAL AV142-AT2
LOC. TYPE
A-B3H2 Y646
PAGE VER EC LEV
AV182 000 830225
AV192 000 830225
AV202 000 830225
AV182
AV202
000
ALU
E.C. HISTORY
MACH.CPU15FST
FRAME 01
IBM CORP.GSD
DATE LAST EC
04-15-76 830225
P.N. 4238932
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AV202
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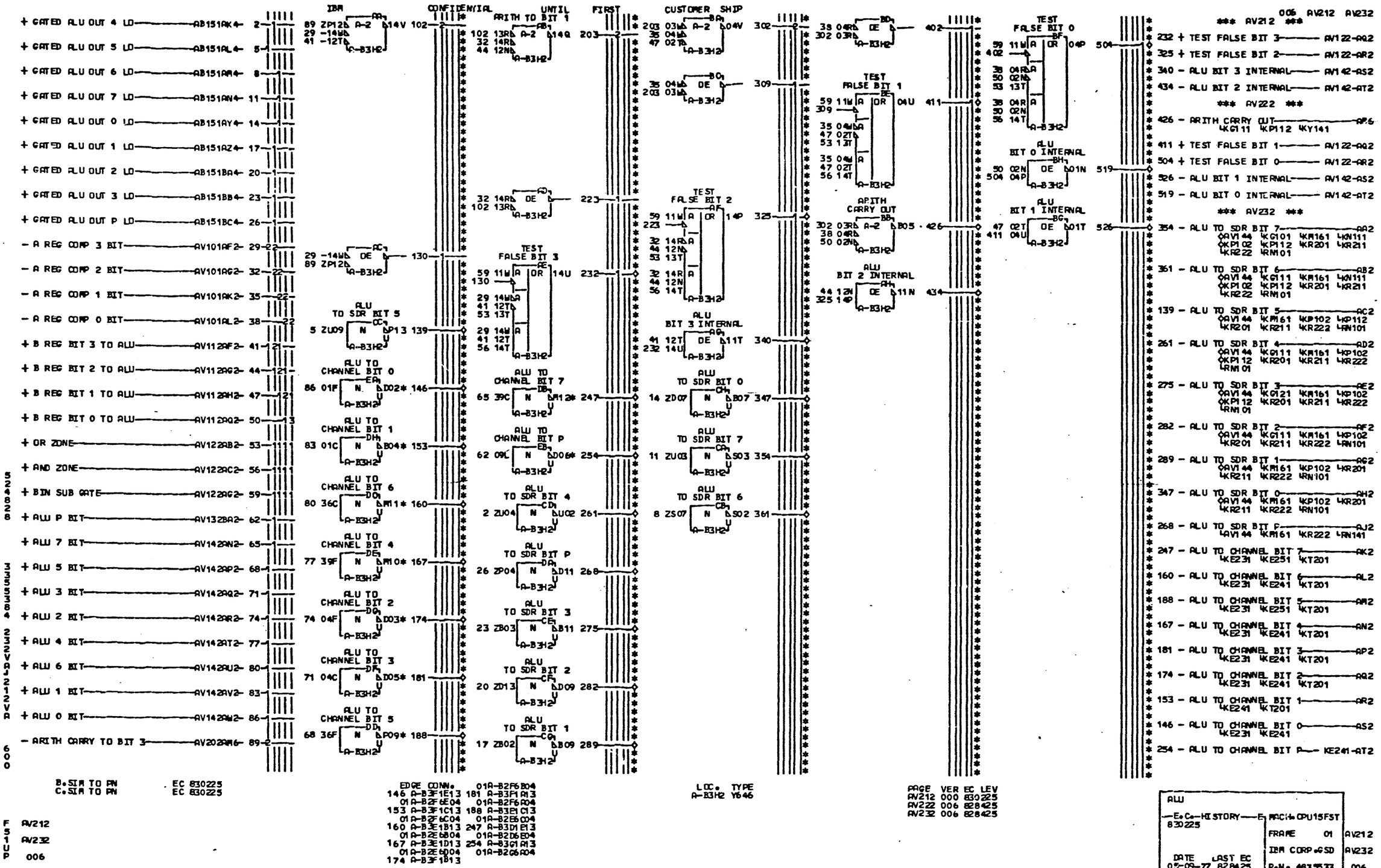
+ GATED ALU OUT 4 LD — AB151AK4 — 2
+ GATED ALU OUT 5 LD — AB151AL4 — 5
+ GATED ALU OUT 6 LD — AB151AR4 — 8
+ GATED ALU OUT 7 LD — AB151AN4 — 11
+ GATED ALU OUT 0 LD — AB151AY4 — 14
+ GATED ALU OUT 1 LD — AB151AZ4 — 17
+ GATED ALU OUT 2 LD — AB151BA4 — 20
+ GATED ALU OUT 3 LD — AB151BB4 — 23
+ GATED ALU OUT P LD — AB151BC4 — 26
- A REG COMP 3 BIT — AV101AF2 — 29-22
- A REG COMP 2 BIT — AV101AG2 — 32-22
- A REG COMP 1 BIT — AV101AK2 — 35-22
- A REG COMP 0 BIT — AV101AL2 — 38-22
+ B REG BIT 3 TO ALU — AV112AF2 — 41-121
+ B REG BIT 2 TO ALU — AV112AG2 — 44-121
+ B REG BIT 1 TO ALU — AV112AH2 — 47-121
+ B REG BIT 0 TO ALU — AV112AQ2 — 50-13
+ OR ZONE — AV122AB2 — 53-1111
+ AND ZONE — AV122AC2 — 56-1111
+ BIN SUB GATE — AV122AG2 — 59-1111
+ ALU P BIT — AV132BA2 — 62-1
+ ALU 7 BIT — AV142AN2 — 65-1
+ ALU 5 BIT — AV142AP2 — 68-1
+ ALU 3 BIT — AV142AQ2 — 71-1
+ ALU 2 BIT — AV142AR2 — 74-1
+ ALU 4 BIT — AV142AT2 — 77-1
+ ALU 6 BIT — AV142AU2 — 80-1
+ ALU 1 BIT — AV142AV2 — 83-1
+ ALU 0 BIT — AV142AW2 — 86-1
- ARITH CARRY TO BIT 3 — AV202AA6 — 89-2
IBM CONFIDENTIAL UNTIL FIRST
ARITH TO BIT 1
ALU TO SDR BIT 5
ALU TO CHANNEL BIT 0
ALU TO CHANNEL BIT 1
ALU TO CHANNEL BIT 6
ALU TO CHANNEL BIT 4
ALU TO CHANNEL BIT 2
ALU TO CHANNEL BIT 3
ALU TO CHANNEL BIT 5
ALU TO CHANNEL BIT 7
ALU TO CHANNEL BIT P
ALU TO SDR BIT 4
ALU TO SDR BIT P
ALU TO SDR BIT 3
ALU TO SDR BIT 2
ALU TO SDR BIT 1
TEST FALSE BIT 3
CUSTOMER SHIP
TEST FALSE BIT 2
ALU BIT 3 INTERNAL
ALU TO SDR BIT 0
ALU TO SDR BIT 7
ALU TO SDR BIT 6
TEST FALSE BIT 1
ARITH CARRY OUT
ALU BIT 2 INTERNAL
TEST FALSE BIT 0
ALU BIT 0 INTERNAL
ALU BIT 1 INTERNAL
*** AV212 ***
*** AV222 ***
*** AV232 ***
232 + TEST FALSE BIT 3 — AV122-AQ2
325 + TEST FALSE BIT 2 — AV122-AR2
340 - ALU BIT 3 INTERNAL — AV142-AS2
434 - ALU BIT 2 INTERNAL — AV142-AT2
426 - ARITH CARRY OUT — AP6
411 + TEST FALSE BIT 1 — AV122-AQ2
504 + TEST FALSE BIT 0 — AV122-AR2
526 - ALU BIT 1 INTERNAL — AV142-AS2
519 - ALU BIT 0 INTERNAL — AV142-AT2
354 - ALU TO SDR BIT 7 — AA2
361 - ALU TO SDR BIT 6 — AB2
139 - ALU TO SDR BIT 5 — AC2
261 - ALU TO SDR BIT 4 — AD2
275 - ALU TO SDR BIT 3 — AE2
282 - ALU TO SDR BIT 2 — AF2
289 - ALU TO SDR BIT 1 — AG2
347 - ALU TO SDR BIT 0 — AH2
268 - ALU TO SDR BIT P — AJ2
247 - ALU TO CHANNEL BIT 7 — AK2
160 - ALU TO CHANNEL BIT 6 — AL2
188 - ALU TO CHANNEL BIT 5 — AM2
167 - ALU TO CHANNEL BIT 4 — AN2
181 - ALU TO CHANNEL BIT 3 — AP2
174 - ALU TO CHANNEL BIT 2 — AQ2
153 - ALU TO CHANNEL BIT 1 — AR2
146 - ALU TO CHANNEL BIT 0 — AS2
254 - ALU TO CHANNEL BIT P — KE241-AT2
B.SIA TO PN EC 830225
C.SIA TO PN EC 830225
EDGE CONN.
LOC. TYPE
A-B3H2 Y646
PAGE VER EC LEV
AV212 000 830225
AV222 006 828425
AV232 006 828425
ALU
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830225
DATE LAST EC
05-09-77 828425
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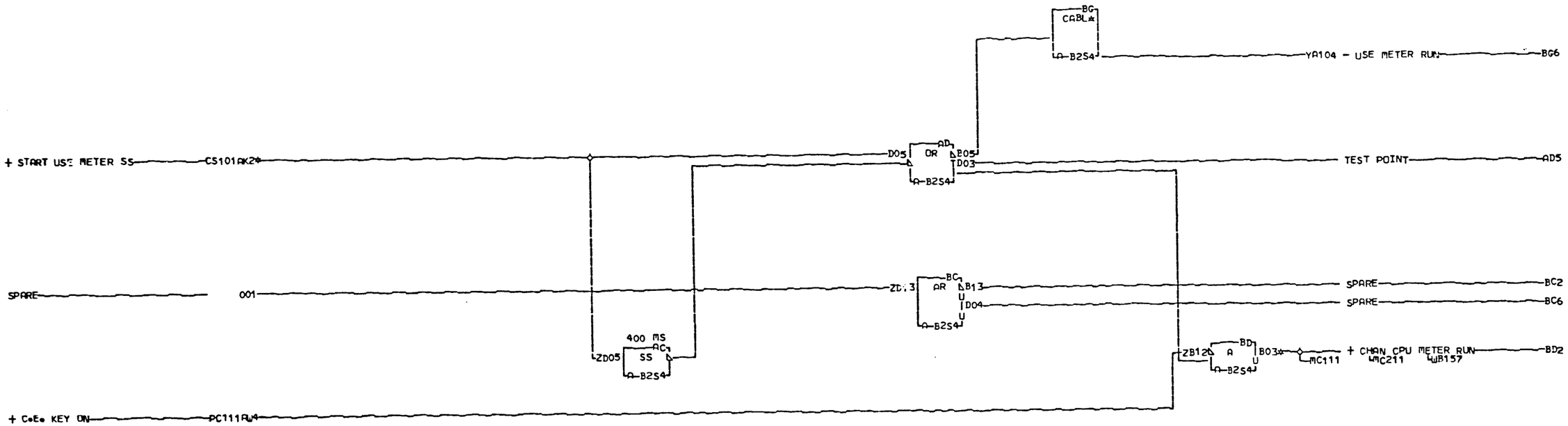
IBM CORP.GSD AV232
P.N. 4835533 006



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RESISTOR 01A-A3K1B13
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BD2 A-B2N1E13
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01A-B1A5B13
01A-A1K1B13
01A-A1K6B04
01A-A2K1B13

LOC. TYPE
A-B2S4 2587

USE METER

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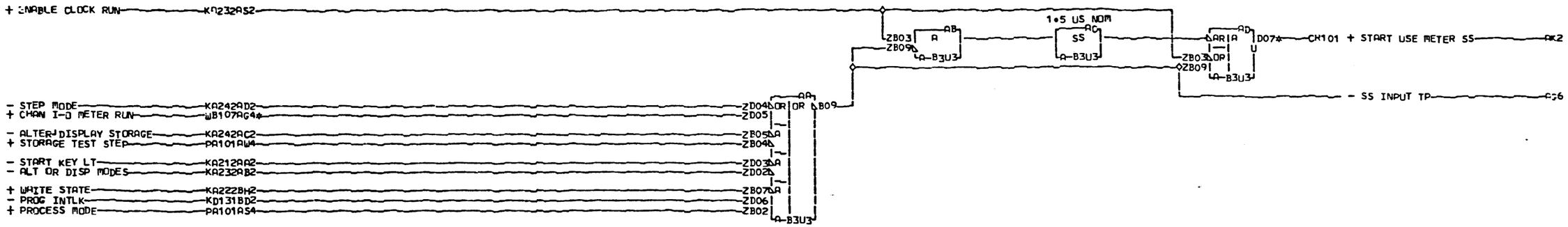
DATE LAST EC	IBM CORP. GSD	000
04-15-76 830225	P.N. 4238808	



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AD2 A-B3D1E11
01A-B2D6E02

LOC. TYPE

METER CONTROL

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FRAME 01

IBM CORP. GSD

DATE 04-15-76 LAST EC 830225 P.N. 4238809

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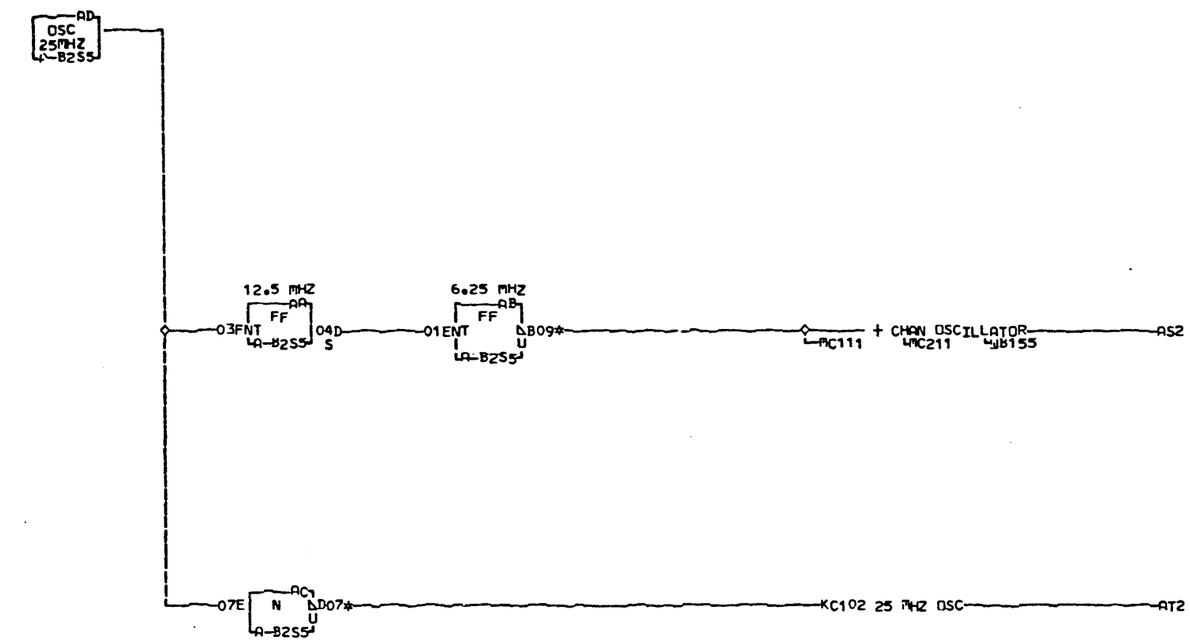


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K                 01A-B1E6B04
A                 01A-B1A3B04
1                 01A-A1Q1B13
0                 01A-A1Q6B04
1                 01A-A2Q1B13
                  01A-A2Q6B04
000               01A-A3Q1B13
                AC2 A-B2T6A04
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LOC. TYPE
A-B2S5 2580

25 MHZ OSCILLATOR		
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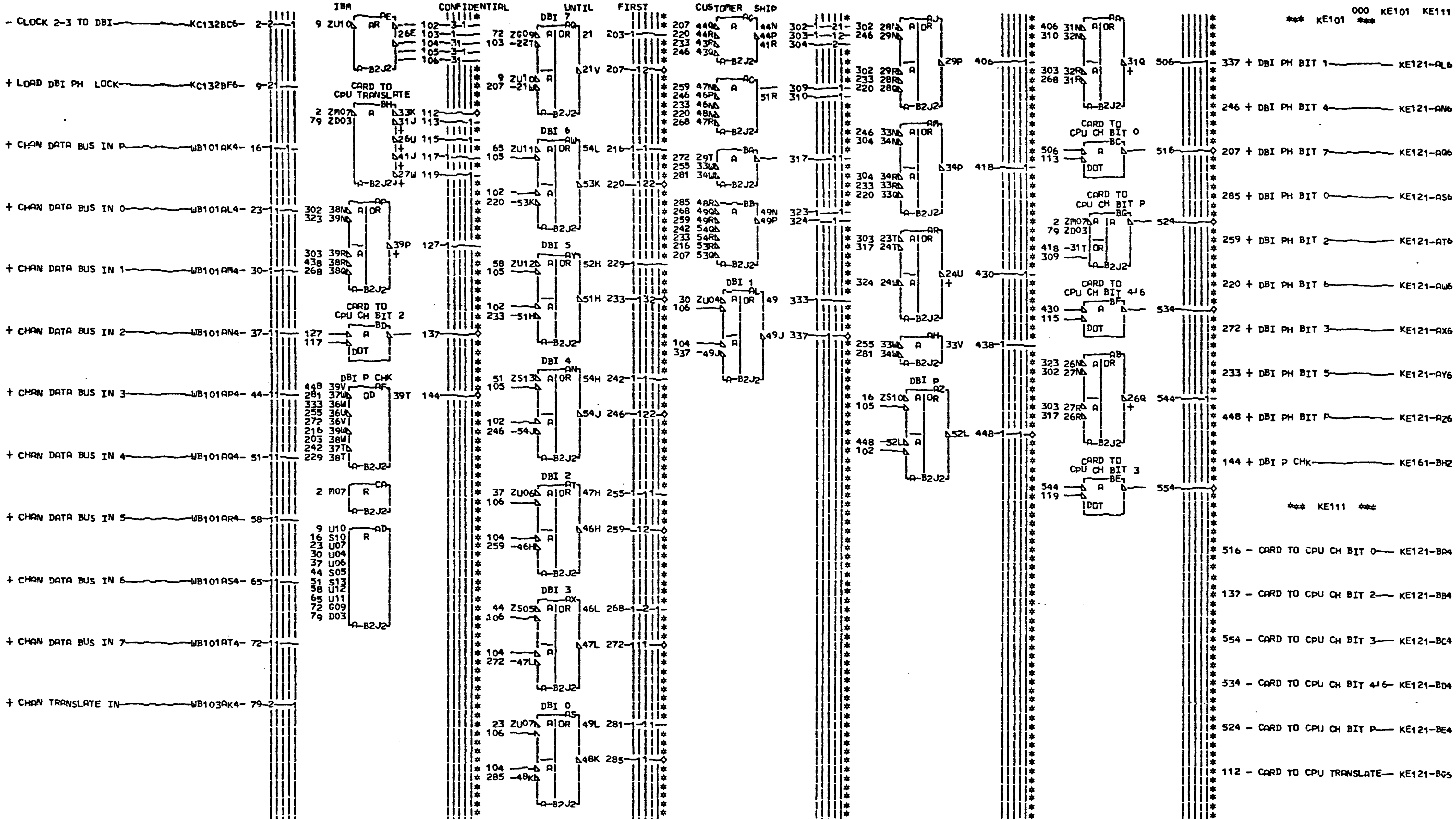
04-15-76 830225		



PAGE VER EC LFV
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KE111 000 830225

CHANNEL IN		
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DATE 04-15-76 LAST EC 830225	P.N. 4238821	000

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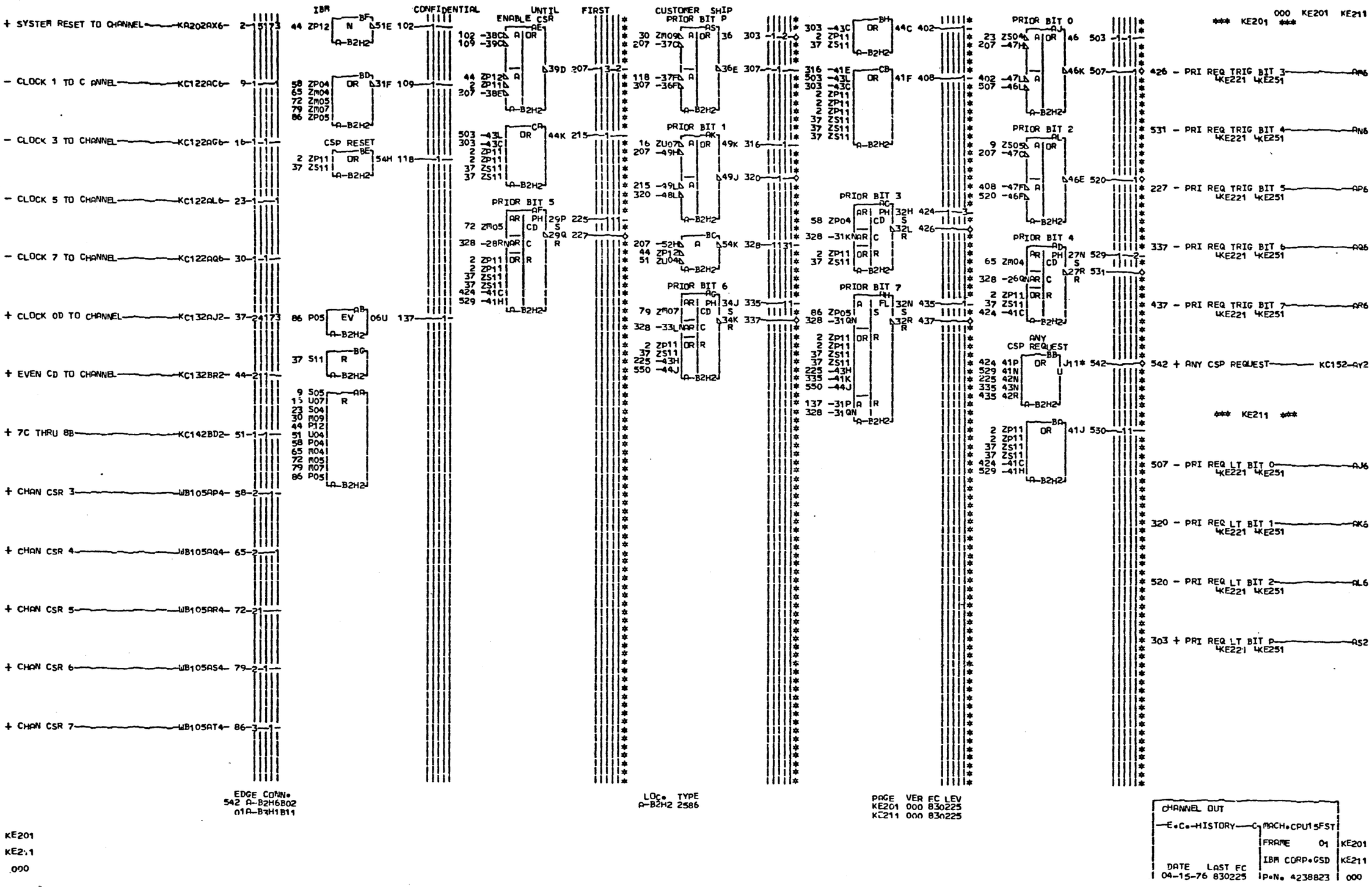
KE111
000


+ SYSTEM RESET TO CHANNEL KA202AX6
- CLOCK 1 TO C HANNEL KC122AC6
- CLOCK 3 TO CHANNEL KC122AG6
- CLOCK 5 TO CHANNEL KC122AL6
- CLOCK 7 TO CHANNEL KC122AQ6
+ CLOCK 0D TO CHANNEL KC132AJ2
+ EVEN CD TO CHANNEL KC132BR2
+ 7C THRU 8B KC142BD2
+ CHAN CSR 3 WB105AP4
+ CHAN CSR 4 WB105AQ4
+ CHAN CSR 5 WB105AR4
+ CHAN CSR 6 WB105AS4
+ CHAN CSR 7 WB105AT4
IBR
CSP RESET
ENABLE CSR UNTIL
PRIOR BIT 5
CONFIDENTIAL
FIRST
CUSTOMER SHIP
PRIOR BIT P
PRIOR BIT 1
PRIOR BIT 6
PRIOR BIT 3
PRIOR BIT 7
PRIOR BIT 0
PRIOR BIT 2
PRIOR BIT 4
ANY CSP REQUEST
*** KE201 ***
*** KE211 ***
426 - PRI REQ TRIG BIT 3 AR6
531 - PRI REQ TRIG BIT 4 AN6
227 - PRI REQ TRIG BIT 5 AP6
337 - PRI REQ TRIG BIT 6 AQ6
437 - PRI REQ TRIG BIT 7 AR6
542 + ANY CSP REQUEST KC152AY2
507 - PRI REQ LT BIT 0 AJ6
320 - PRI REQ LT BIT 1 AK6
520 - PRI REQ LT BIT 2 AL6
303 + PRI REQ LT BIT P AS2
EDGE CONN.
542 A-B2H6B02
01A-B3H1B11
LOC. TYPE
A-B2H2 2586
PAGE VER EC LEV
KE201 000 830225
KE211 000 830225
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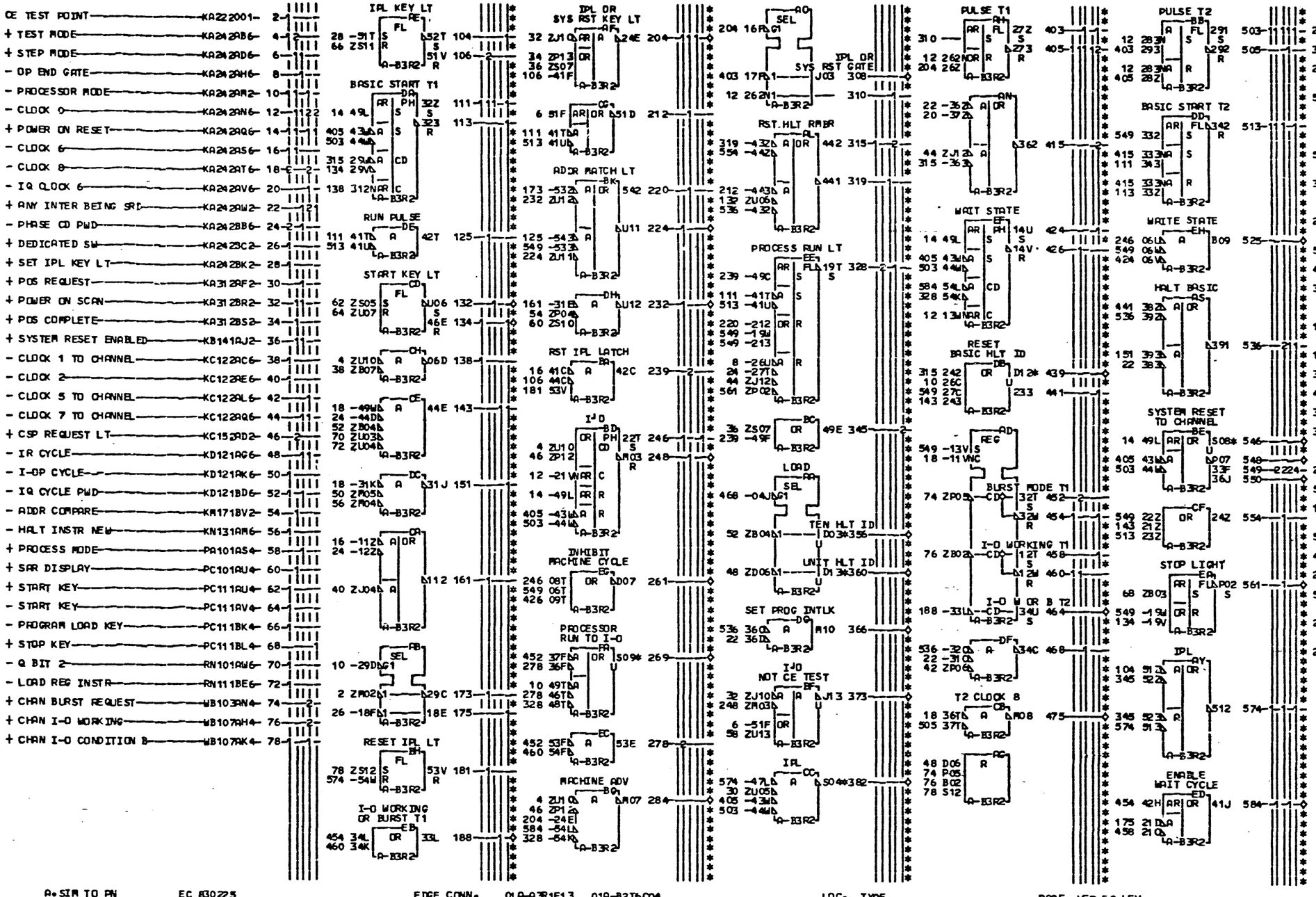
E.C.-HISTORY
MACH.CPU15FST
FRAME 01
IBM CORP.GSD
DATE LAST EC
04-15-76 830225
P.N. 4238823
KE201
KE211
000



A. SIM TO PN EC 830225
B. SIM TO PN EC 830225
C. SIM TO PN EC 830225

FSIZE KA202
KA222
UP 006

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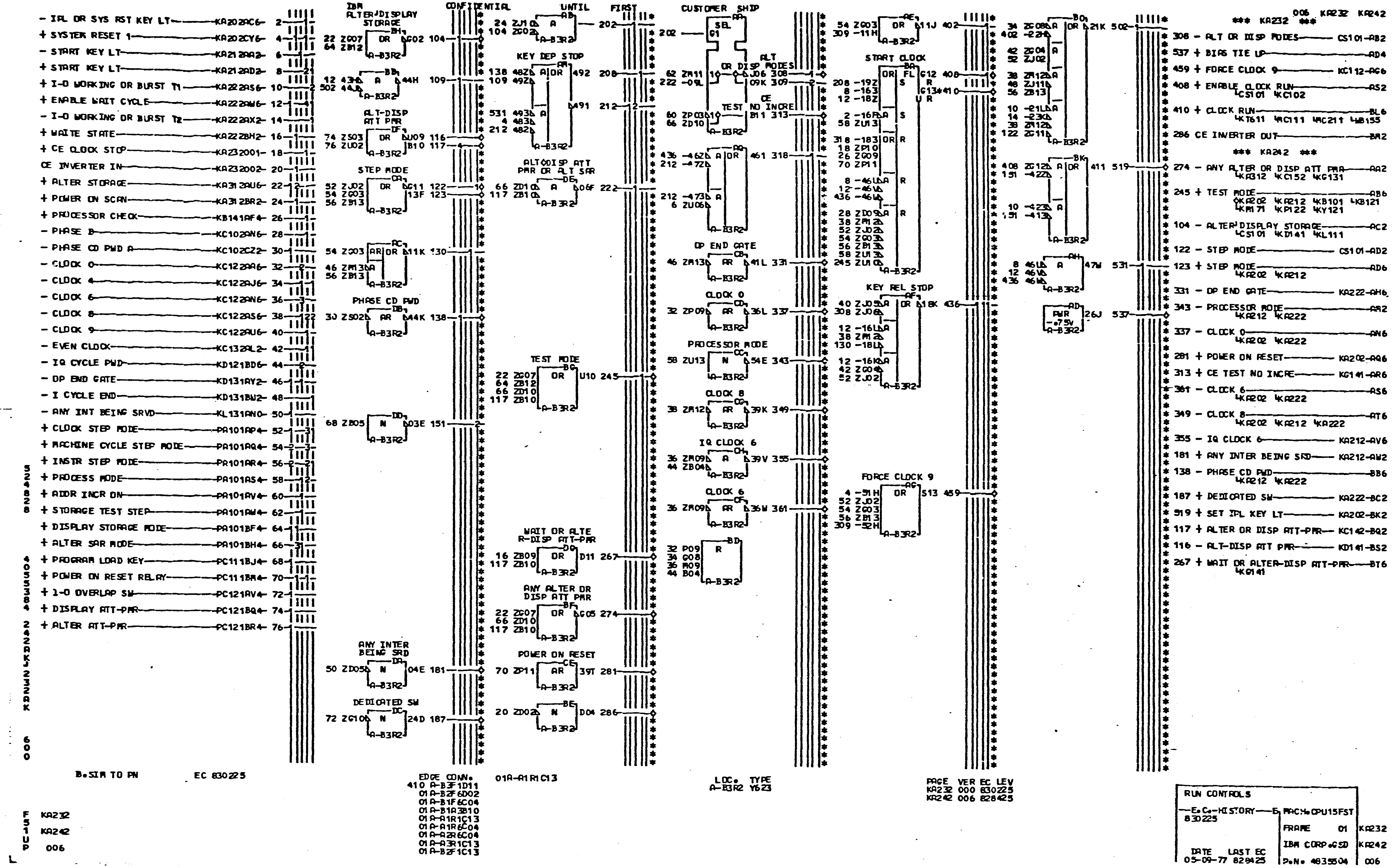
269 A-B3U1C13 356 A-B3K1B11
01A-B2U6C04 01A-B2K6B02
01A-B1F6E04 360 A-B3J1E11
01A-B1A3B12 01A-B2J6E02
01A-B2F1E13 382 A-B3T1D13
01A-A1R1E13 01A-B2T6D04
01A-A1R6E04 439 A-B3J1D11
01A-A2R1E13 01A-B2J6D02
01A-A2R6E04 546 A-B3T1C13

LOC. TYPE
A-B3R2 Y623

PAGE VER EC LEV
KA202 006 828425
KA212 006 828425
KA222 006 828425

RUN CONTROLS
E. C. HISTORY — 5
MACH. CPU15FST
FRAME 01 KA202
IBM CORP. GSD KA222
DATE LAST EC
05-09-77 828425
P. N. 4835503 006


CONFIDENTIAL
- IPL OR SYS RST KEY LT — KA202AC6 — 2
+ SYSTEM RESET 1 — KA202CY6 — 4
- START KEY LT — KA212AA2 — 6
+ START KEY LT — KA212AD2 — 8
+ I-O WORKING OR BURST T1 — KA222AS6 — 10
+ ENABLE WAIT CYCLE — KA222AW6 — 12
- I-O WORKING OR BURST T2 — KA222AX2 — 14
+ WAITE STATE — KA222BH2 — 16
+ CE CLOCK STOP — KA232001 — 18
CE INVERTER IN — KA232002 — 20
+ ALTER STORAGE — KA312AU6 — 22
+ POWER ON SCAN — KA312BR2 — 24
+ PROCESSOR CHECK — KB141AF4 — 26
- PHASE B — KC102AN6 — 28
- PHASE CD PWD A — KC102CZ2 — 30
- CLOCK 0 — KC122AA6 — 32
- CLOCK 4 — KC122AJ6 — 34
- CLOCK 6 — KC122AN6 — 36
- CLOCK 8 — KC122AS6 — 38
- CLOCK 9 — KC122AU6 — 40
- EVEN CLOCK — KC132AL2 — 42
- IQ CYCLE PWD — KD121BD6 — 44
- OP END GATE — KD131AY2 — 46
- I CYCLE END — KD131BU2 — 48
- ANY INT BEING SRVD — KL131AN0 — 50
+ CLOCK STEP MODE — PA101AP4 — 52
+ MACHINE CYCLE STEP MODE — PA101AQ4 — 54
+ INSTR STEP MODE — PA101AR4 — 56
+ PROCESS MODE — PA101AS4 — 58
+ ADDR INCR ON — PA101AV4 — 60
+ STORAGE TEST STEP — PA101AW4 — 62
+ DISPLAY STORAGE MODE — PA101BF4 — 64
+ ALTER SAR MODE — PA101BH4 — 66
+ PROGRAM LOAD KEY — PC111BJ4 — 68
+ POWER ON RESET RELAY — PC111BM4 — 70
+ I-O OVERLAP SW — PC121AV4 — 72
+ DISPLAY ATT-PAR — PC121BQ4 — 74
+ ALTER ATT-PAR — PC121BR4 — 76
ALTER DISPLAY STORAGE
ALT-DISP ATT PAR
STEP MODE
PHASE CD PWD
ANY INTER BEING SRD
DEDICATED SW
UNTIL FIRST
KEY DEP STOP
ALT DISP ATT PAR OR ALT SAR
TEST MODE
WAIT OR ALTE R-DISP ATT-PAR
ANY ALTER OR DISP ATT PAR
POWER ON RESET
CUSTOMER SHIP
ALT OR DISP MODES
CE TEST NO INCRE
OP END GATE
CLOCK 0
PROCESSOR MODE
CLOCK 8
IQ CLOCK 6
CLOCK 6
START CLOCK
KEY REL STOP
FORCE CLOCK 9
PWR -.75V
*** KA232 ***
006 KA232 KA242
308 - ALT OR DISP MODES — CS101-AB2
537 + BIAS TIE UP — AD4
459 + FORCE CLOCK 9 — KC112-AG6
408 + ENABLE CLOCK RUN — AS2 CS101 KC102
410 + CLOCK RUN — BL6 KT611 KC111 KC211 KB155
286 CE INVERTER OUT — BA2
*** KA242 ***
274 - ANY ALTER OR DISP ATT PAR — AA2 KA312 KC152 KG131
245 + TEST MODE — AB6 KA202 KA212 KB101 KB121 KM171 KP122 KY121
104 - ALTER DISPLAY STORAGE — AC2 CS101 KD141 KL111
122 - STEP MODE — CS101-AD2
123 + STEP MODE — AD6 KA202 KA212
331 - OP END GATE — KA222-AH6
343 - PROCESSOR MODE — AA2 KA212 KA222
337 - CLOCK 0 — AN6 KA202 KA222
281 + POWER ON RESET — KA202-AQ6
313 + CE TEST NO INCRE — KG141-AR6
361 - CLOCK 6 — AS6 KA202 KA222
349 - CLOCK 8 — AT6 KA202 KA212 KA222
355 - IQ CLOCK 6 — KA212-AV6
181 + ANY INTER BEING SRD — KA212-AW2
138 - PHASE CD PWD — BB6 KA212 KA222
187 + DEDICATED SW — KA222-BC2
519 + SET IPL KEY LT — KA202-BK2
117 + ALTER OR DISP ATT-PAR — KC142-BQ2
116 - ALT-DISP ATT PAR — KD141-BS2
267 + WAIT OR ALTER-DISP ATT-PAR — BT6 KG141
B.SIM TO PN
EC 830225
EDGE CONN. 410 A-B3F1D11 01A-B2F6D02 01A-B1F6C04 01A-B1A3B10 01A-A1R1C13 01A-A1R6C04 01A-A2R6C04 01A-A3R1C13 01A-B2F1C13
01A-A1R1C13
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PAGE VER EC LEV KA232 000 830225 KA242 006 828425
RUN CONTROLS
E.C. HISTORY 830225
MACH. CPU15FST
FRAME 01 KA232
IBM CORP.GSD KA242
DATE 05-09-77 LAST EC 828425
P.N. 4835504 006
F KA232
S KA242
U P 006

A.SIM TO PN EC 830225
B.SIM TO PN EC 830225

EDGE CONN.
566 A-B3A6E04
01 A-A4V5B08
01 A-A4U5B08
01 A-B4V5B08
575 A-B3N6B04
01 A-A4V5B10
01 A-A4U5B10
01 A-B4V5B10

LOC. TYPE
A-B3U4 BE03

PAGE VER EC LEV
KA312 006 828425
KA322 006 828425

POWER ON SCAN
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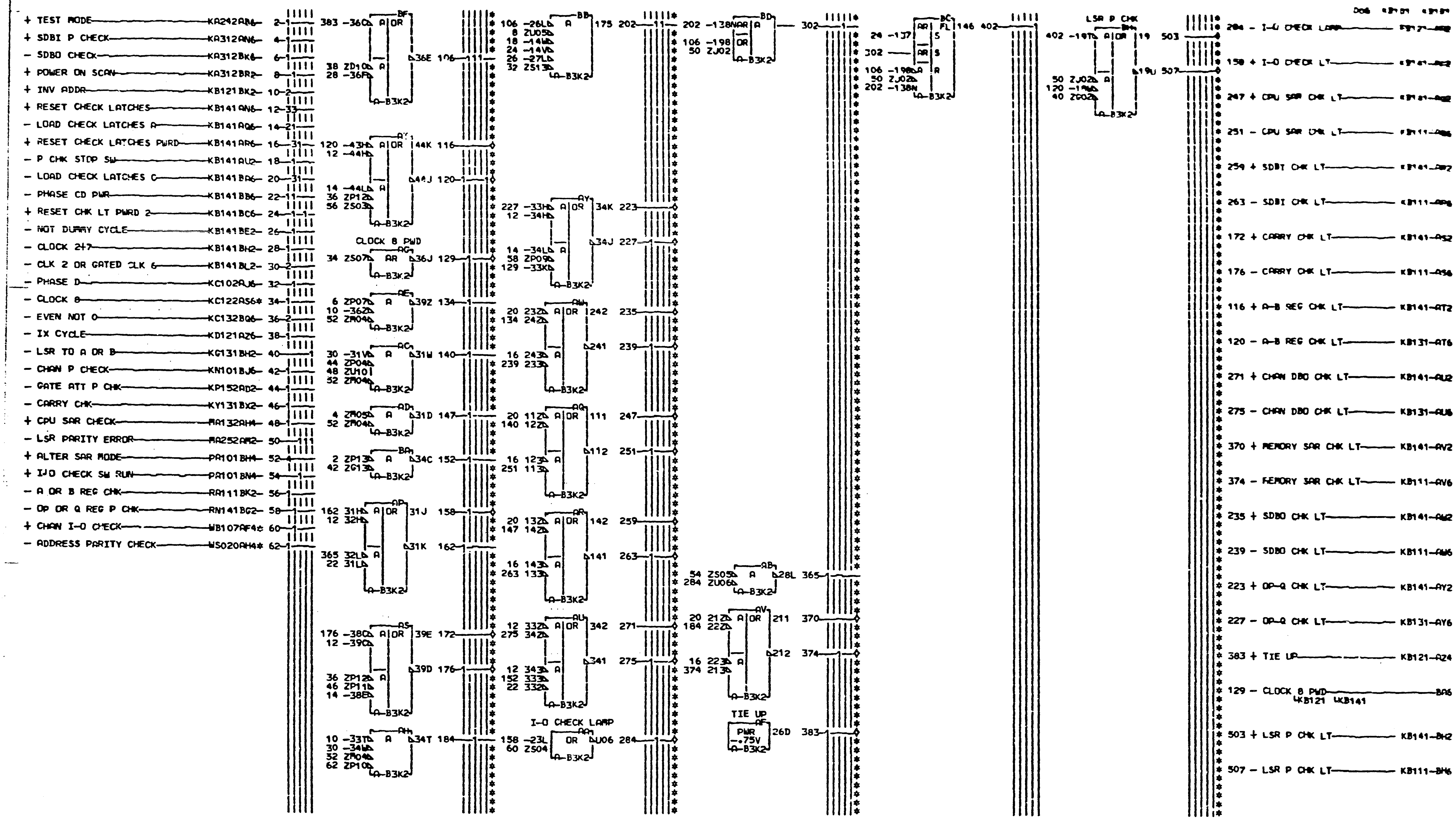
MACH. CPU15FST
FRAME 01 KA312
IBM CORP. RO KA322
DATE LAST EC
05-09-77 828425
P.N. 4835505 006


+ TEST MODE KA242AN4 2
+ SDBI P CHECK KA312AN6 4
- SDBO CHECK KA312BK6 6
+ POWER ON SCAN KA312BR2 8
+ INV ADDR KB121BK2 10
+ RESET CHECK LATCHES KB141AN6 12
- LOAD CHECK LATCHES A KB141AQ6 14
+ RESET CHECK LATCHES PWRD KB141AR6 16
- P CHK STOP SW KB141AU2 18
- LOAD CHECK LATCHES C KB141BA6 20
- PHASE CD PWR KB141BB6 22
+ RESET CHK LT PWRD 2 KB141BC6 24
- NOT DUMMY CYCLE KB141BE2 26
- CLOCK 2+7 KB141BH2 28
- CLK 2 OR GATED CLK 6 KB141BL2 30
- PHASE D KC102AJ6 32
- CLOCK 8 KC122AS6* 34
- EVEN NOT 0 KC132BQ6 36
- IX CYCLE KD121AZ6 38
- LSR TO A OR B KG131BH2 40
- CHAN P CHECK KN101BJ6 42
- GATE ATT P CHK KP152AD2 44
- CARRY CHK KY131BX2 46
+ CPU SAR CHECK MA132AH4 48
- LSR PARITY ERROR MA252AM2 50
+ ALTER SAR MODE PA101BH4 52
+ I/O CHECK SW RUN PA101BN4 54
- A OR B REG CHK RA111BK2 56
- OP OR Q REG P CHK RN141BG2 58
+ CHAN I-O CHECK WB107AF4* 60
- ADDRESS PARITY CHECK WS020AH4* 62
CLOCK 8 PWD
I-O CHECK LAMP
TIE UP
LSR P CHK
284 - I-O CHECK LAMP
158 + I-O CHECK LT
247 + CPU SAR CHK LT
251 - CPU SAR CHK LT
259 + SDBI CHK LT KB141-AR2
263 - SDBI CHK LT KB111-AR6
172 + CARRY CHK LT KB141-AS2
176 - CARRY CHK LT KB111-AS6
116 + A-B REG CHK LT KB141-AT2
120 - A-B REG CHK LT KB131-AT6
271 + CHAN DBO CHK LT KB141-AU2
275 - CHAN DBO CHK LT KB131-AU6
370 + MEMORY SAR CHK LT KB141-AV2
374 - MEMORY SAR CHK LT KB111-AV6
235 + SDBO CHK LT KB141-AW2
239 - SDBO CHK LT KB111-AW6
223 + OP-Q CHK LT KB141-AY2
227 - OP-Q CHK LT KB131-AY6
383 + TIE UP KB121-AZ4
129 - CLOCK 8 PWD KB121 KB141 BA6
503 + LSR P CHK LT KB141-BH2
507 - LSR P CHK LT KB111-BH6

EDGE CONN.
34 RESISTOR A-B3K2S07
60 RESISTOR A-B3K2S04
62 RESISTOR A-B3K2P10

LOC. TYPE
A-B3K2 Y621

PAGE VER EC LEV
KB101 006 572330

PROC CHECK LATCHES AND DISPLAY
E.C. HISTORY 828425
MACH. CPU15FST
FRAME 01 KB101
IBM CORP.GSD KB101
DATE 05-15-78 LAST EC 572330
P.N. 4835506 006

KB101
KB101
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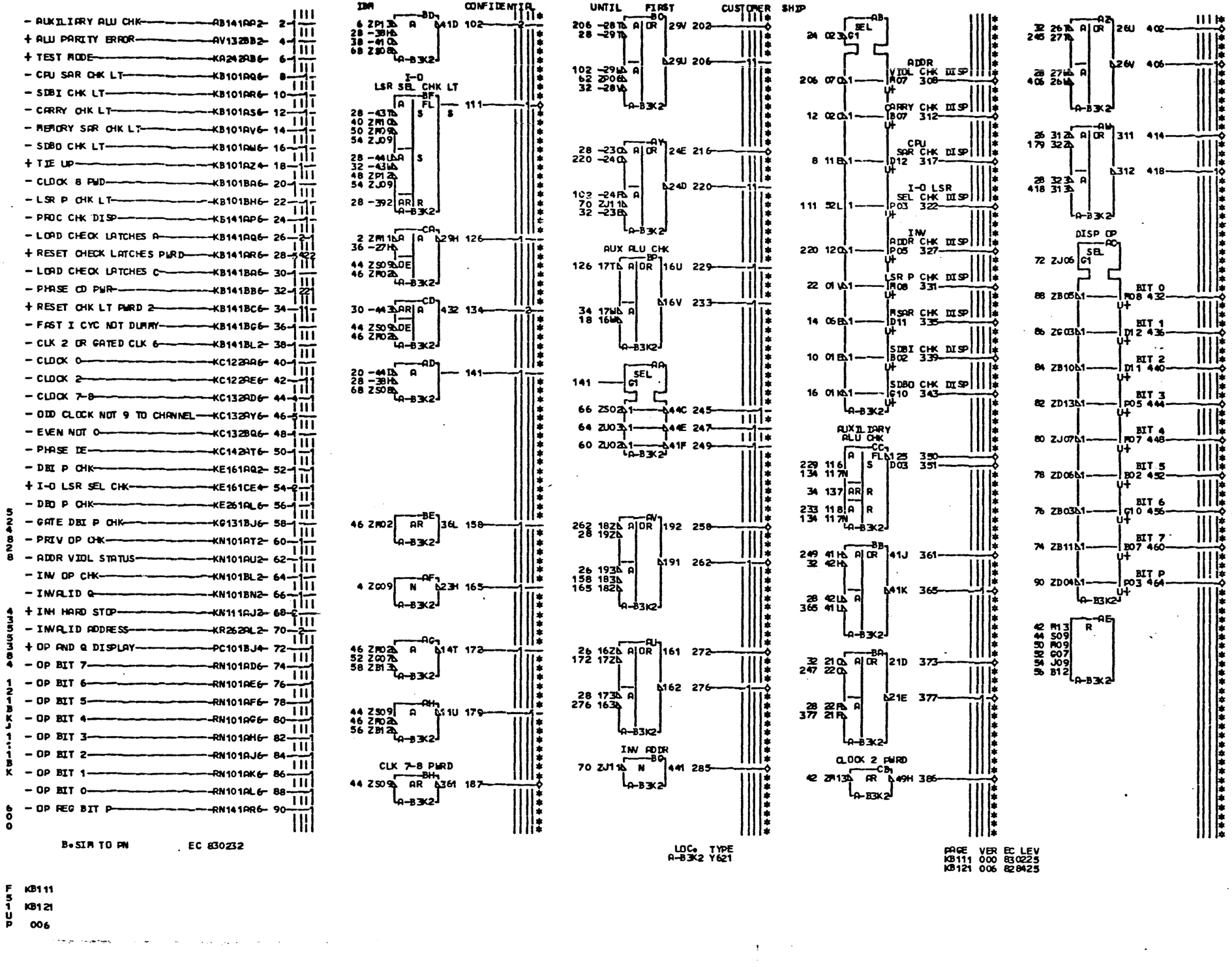

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LOC. TYPE
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KB121	006	828425

F KB111
5 KB121
1 UP 006

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E.C.O. HISTORY — E. MACH. CPU15FST
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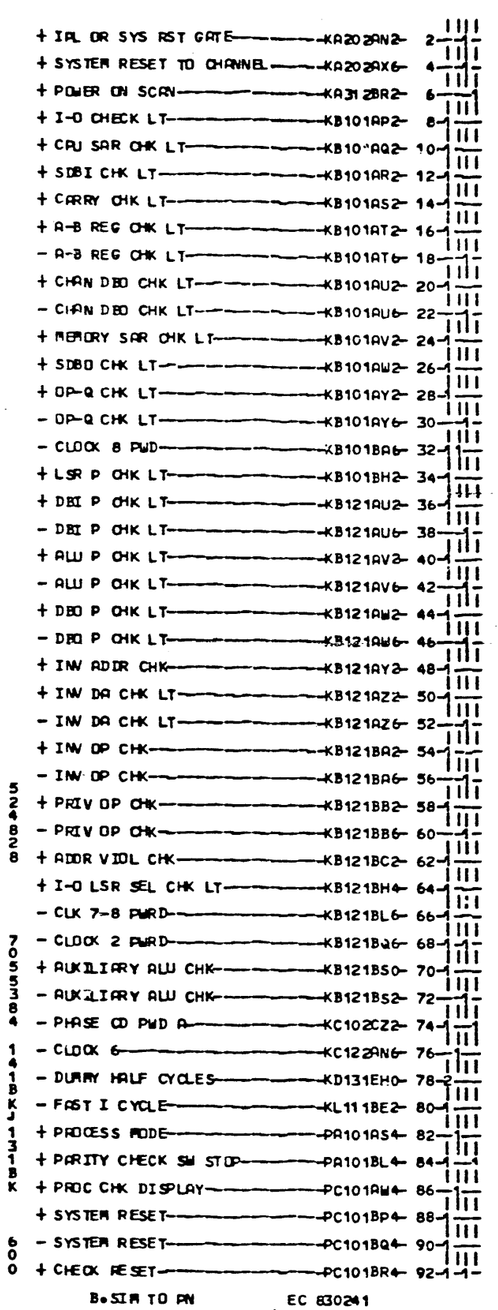
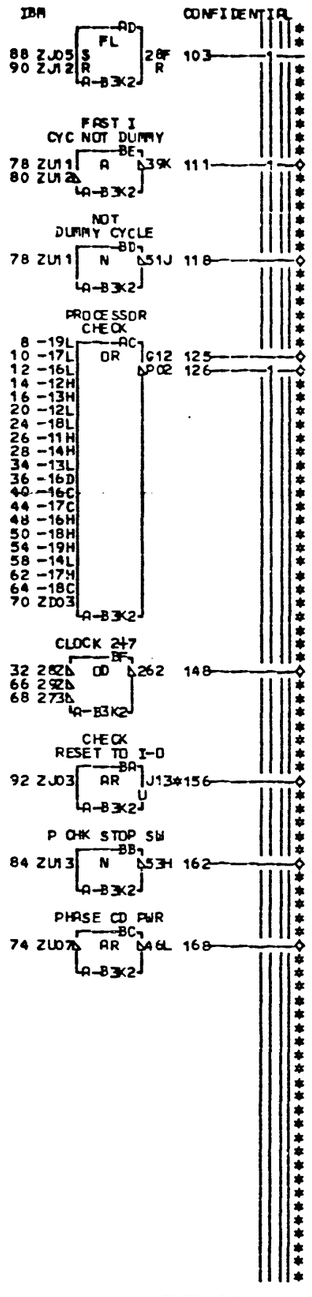
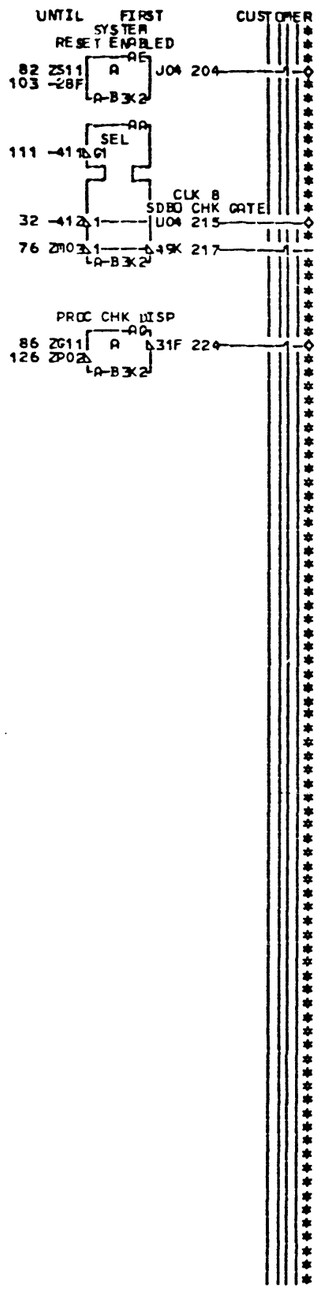
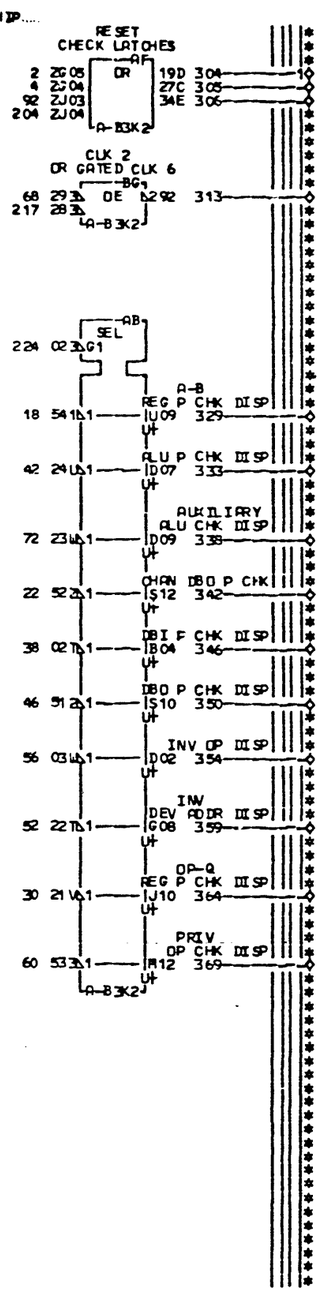
IBM CORP. GSD		KB121
P.N. 4835534		006

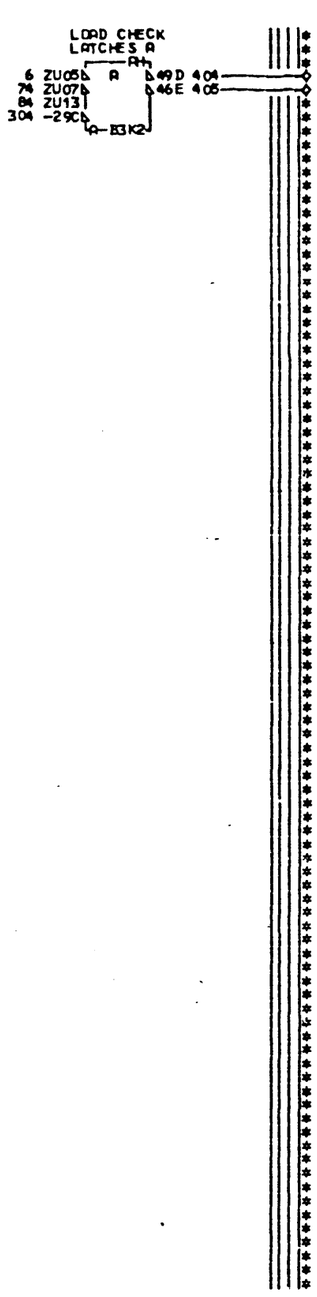
DATE LAST EC
05-09-77 828425











006 KB131 KB141

*** KB131 ***

329 + A-B REG P CHK DISP — KE295-AF2
350 + DBO P CHK DISP — KE295-AH2
369 + PRIV OP CHK DISP — KE295-AK2
342 + CHAN DBO P CHK — KE295-AM2
333 + ALU P CHK DISP — KE295-AP2
364 + OP-Q REG P CHK DISP — KE295-AR2
354 + INV OP DISP — KE295-AT2
338 + AUXILIARY ALU CHK DISP — KE295-AU2
359 + INV DEV ADDR DISP — KE295-AV2
345 + DBI P CHK DISP — KE295-AX2

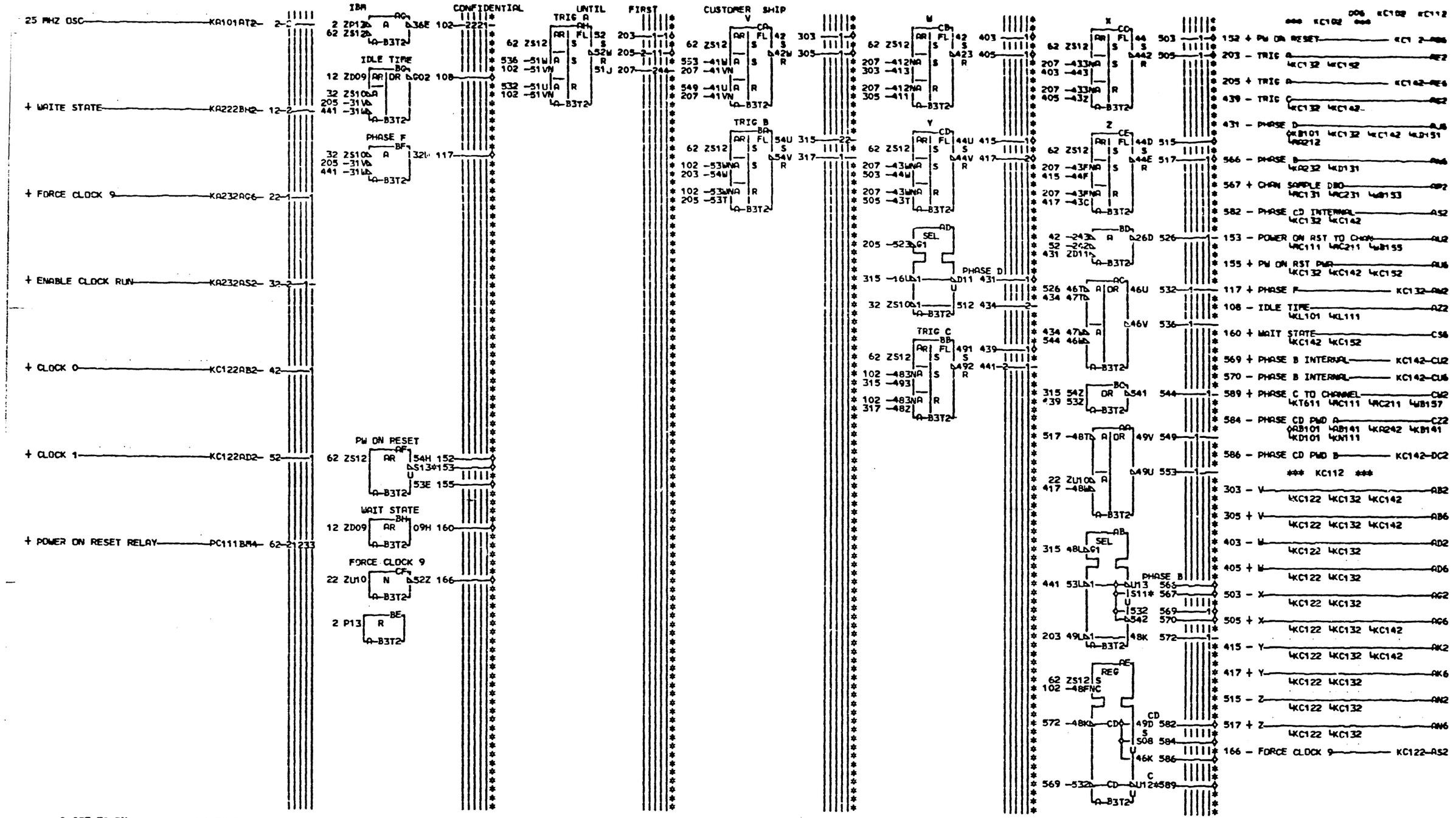
*** KB141 ***

125 + PROCESSOR CHECK — KA232-AF4
204 + SYSTEM RESET ENABLED — KA202-AJ2
304 + RESET CHECK LATCHES — KB101-AN6
224 - PROC CHK DISP — KB111-AP6
404 - LOAD CHECK LATCHES A — AQ6
4KB101 4KB121
305 + RESET CHECK LATCHES PWRD — AR6
4KB101 4KB121
156 + CHECK RESET TO I-O — AS6
4RC111 4RC211 4WB155
162 - P CHK STOP SW — KB101-AU2
126 - PROCESSOR CHECK — PC111-AW2
405 - LOAD CHECK LATCHES C — BA6
4KB101 4KB121
168 - PHASE CD PWR — BB6
4KB101 4KB121
306 + RESET CHK LT PWRD 2 — BC6
4KB101 4KB121
118 - NOT DUMMY CYCLE — KB101-BE2
111 - FAST I CYC NOT DUMMY — KB121-BG6
148 - CLOCK 2+7 — KB101-BH2
215 + CLK 8 SDBO CHK GATE — KA312-BK2
313 - CLK 2 OR GATED CLK 6 — BL2
4KB101 4KB121

PROC CHECK LATCHES AND DISPLAY
E.C.-HISTORY-E.C.
830225
830232

DATE LAST EC
05-09-77 828425

PACH. CPU15FST
FRAME 01 KB131
IBM CORP. GSD KB141
P.N. 4835537 006



A-SIM TO PN EC 572330

KC102
KC112
006

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153 A-B3Q1A11	567 A-B1A6D04	589 A-B3T1E13
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01A-B1F6B04	01A-B3P1E11	01A-B1G6A04
01A-B1A3B09	01A-B2P6E02	01A-B1A3B13
01A-B2F1B13	01A-A1T1A13	01A-B2G1A13
01A-A1R1B13	01A-A1T6A04	01A-A1S1A13
01A-A1R6B04	01A-A2T6A04	01A-A1S6A04
01A-A2R1B13	01A-A3T1A13	01A-A2S1A13
01A-A2R6B04	01A-B2A1D13	

LOC. TYPE
A-B3T2 Y639

PAGE VER EC LEV
KC102 006 572330
KC112 000 830225

CLOCK CONTROLS

E.C. HISTORY	MACH.CPU15FST	
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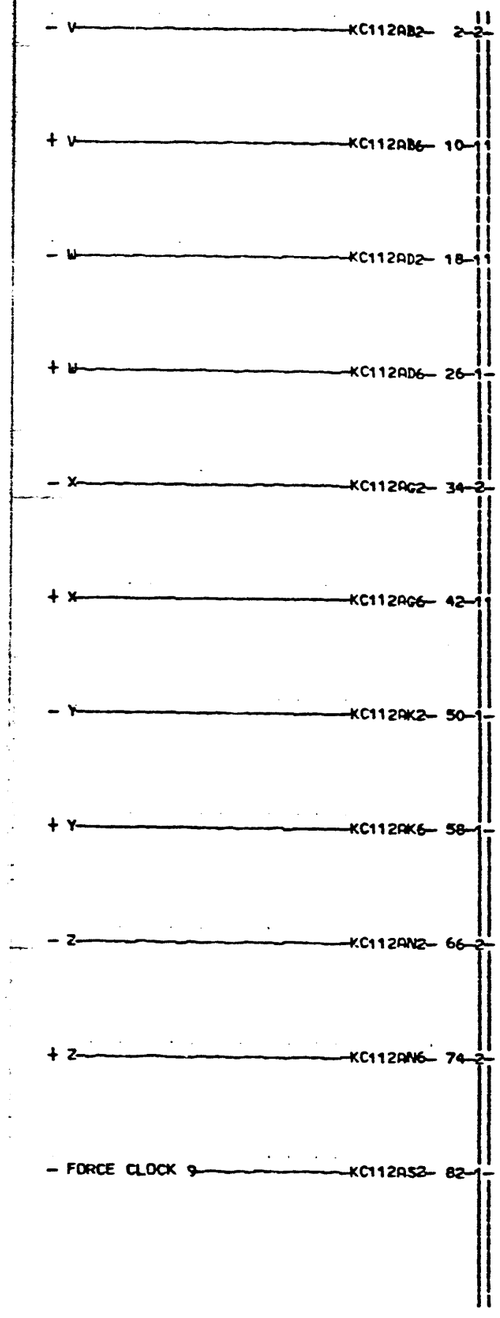
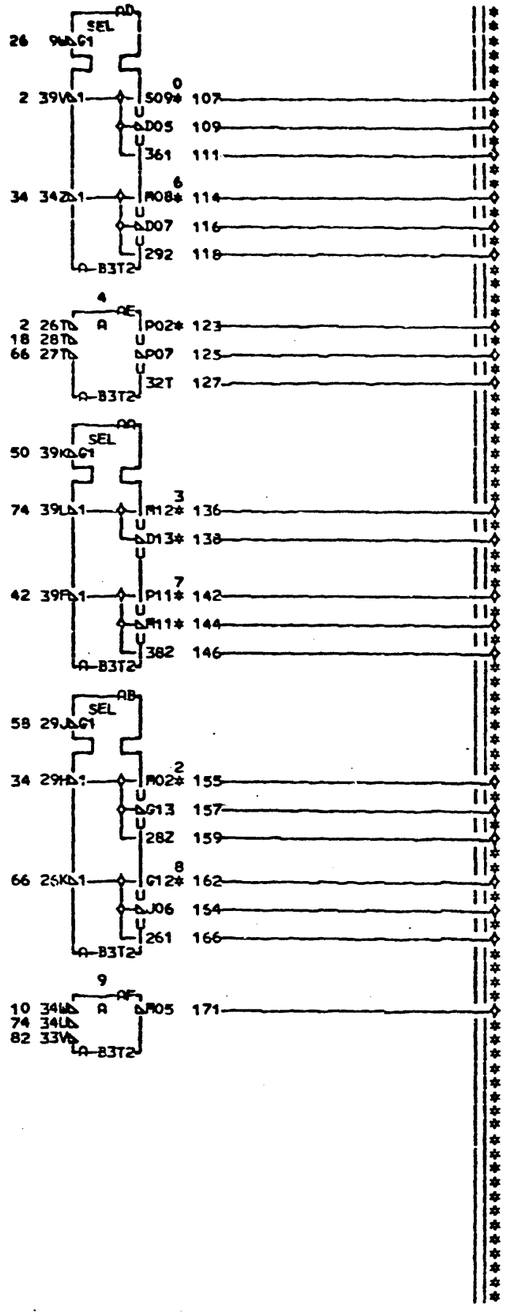
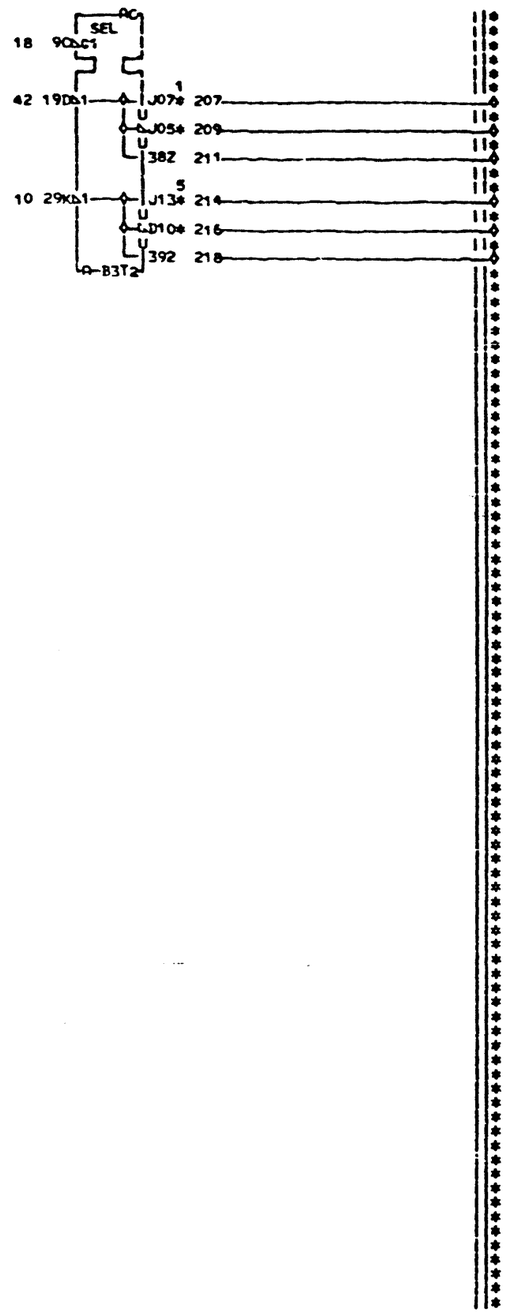
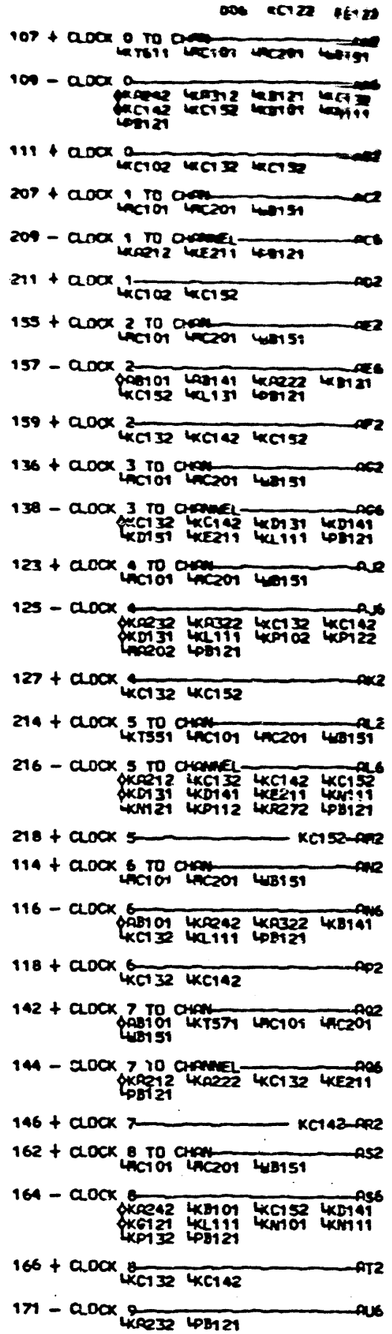
	IBM CORP.-SD	KC112
DATE LAST EC	P.N. 4835508	006
05-15-78 572330		









EDGE CD No.											
107 A-B1D6E02	14 A B1F6 02	01A-B2E1E11	01A-B E6D02	01A-B2R6E04	155 A-B1E6C02	1A-B A3D1	0 A-B3 1B13	01A-B2R6B04			
01A-B1A3D02	01A-B1E6E02	01A-B1A3D06	01A-B1F6D02	01A-B1A3D05	01A-B3S1A13	01A-B2Q6B04	01A-B1F6B02				
01A-B1A3D02	01A-B3R1C13	01A-B1A3D07	01A-A1Q1D11	01A-B1A3D11	01A-B3Q1C13	01A-B2G1A11	01A-B2E1A11	01A-B1A3D09			
01A-B3P1E13	01A-B2R6C04	01A-A1Q1E11	01A-A1Q6D02	01A-B2F1D11	01A-B2Q6C04	01A-A1S1A11	01A-A1Q1A11	01A-A1R1B11			
01A-B2D1E11	01A-B2F1C11	01A-A1Q6E02	01A-B2Q6D04	01A-A1R1D11	01A-A1Q1C11	01A-A1S6A02	C1A-A1Q6A02	01A-A1R6B02			
01A-B2P6E04	01A-A1R1C11	01A-B2R6A04	01A-A2Q1D11	01A-A1R6D02	01A-A1G6C02	01A-B2S6A04	01A-A2Q1A11	01A-B2F1B11			
01A-A1P1E11	01A-A1R6C02	01A-A2Q1E11	01A-A2Q6D02	01A-A2R1D11	01A-B2E1C11	01A-A2S1A11	01A-A2Q6A02	01A-A2R1B11			
01A-A1P6E02	01A-A2R1C11	01A-A2Q6E02	01A-A3Q1D11	01A-A2R6D02	01A-A2Q1C11	01A-A2S6A02	01A-A3Q1A11	01A-A2R6B02			
01A-A2P1E11	01A-A2R6C02	01A-A3Z1E11	138 A-B3Q1D11	01A-A3R1D11	01A-A2Q6C02	01A-A3S1A11	209 A-B3Q1C11	01A-A3R1B11			
01A-A2P6E02	01A-A3R1C11	136 A-B3Z1D13	01A-B2Q6D02	144 A-B3R1B11	01A-A3Q1C11	207 A-B1E6A02	01A-B2Q6C02	216 A-B3Q1E11			
01A-A3P1E11	123 A-B3R1A13	01A-B2E1D1:	142 A-B3R1E13	01A-B2R6B02	162 A-B1G6A02	01A-B1A3D03	214 A-B3R1B13	01A-B2Q6E02			

LOC.	TYPE	PAGE	VER	EC LEV
A-B3T2	Y639	KC122	006	572330

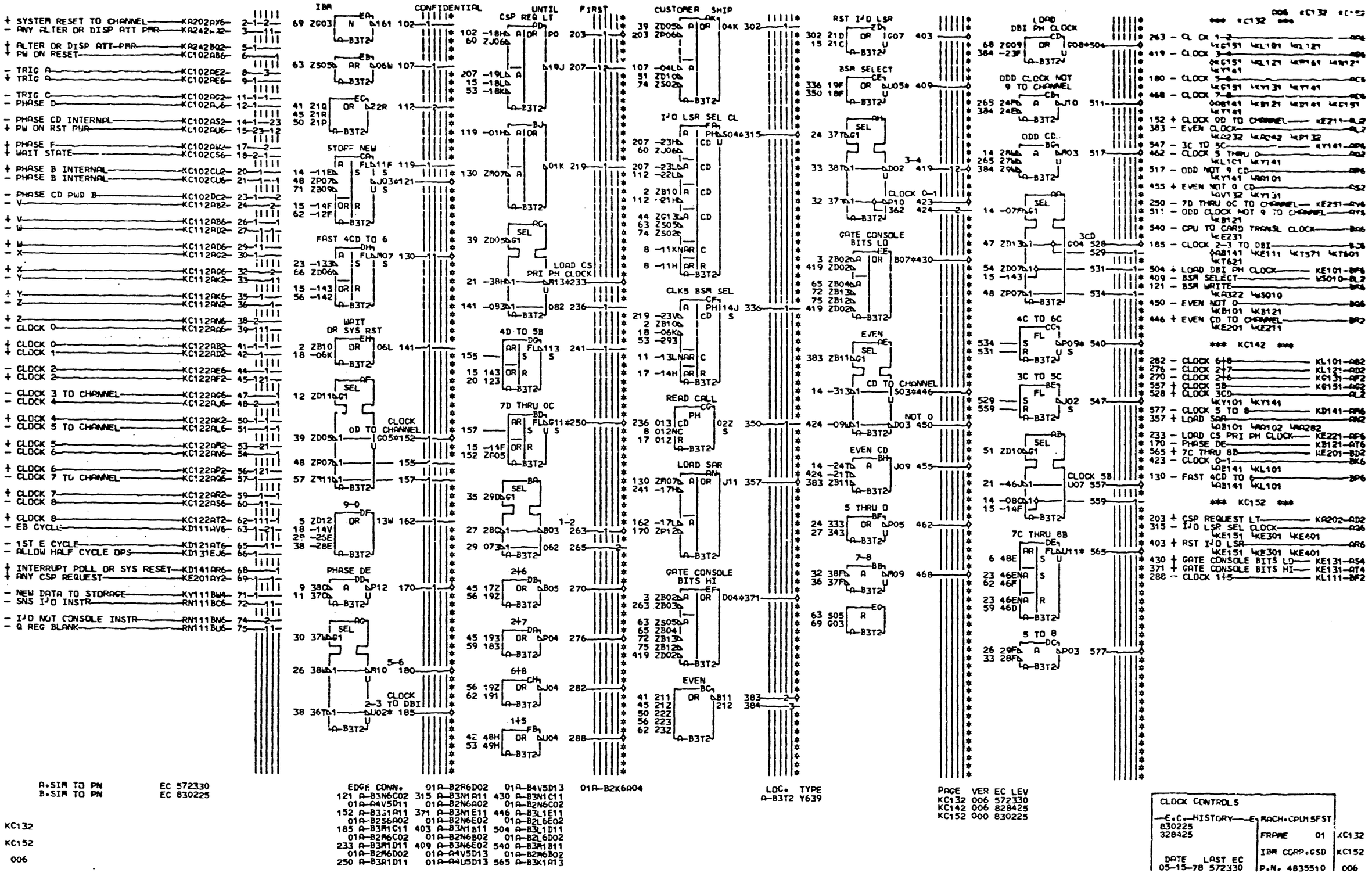
KC122

KC122

006 SIM TO PN EC 572330

CLOCK CONTROLS

E.C. HISTORY	E.	MACH.CPU1SFST		
828425		FRAME	01	KC122
		IBM CORP.GSD		KC122
DATE LAST EC 05-15-78 572330		P.N. 4835509		006



A=SIM TO PN EC 572330
B=SIM TO PN EC 830225

KC132

KC152

006

EDGE CONN.

121 A-B3N6C02	315 A-B3N1A11	430 A-B3N1C11	01A-B2R6D02
01A-A4V5D11	01A-B2N6A02	01A-B2N6C02	01A-B4V5D13
152 A-B331A11	371 A-B3N1E11	446 A-B3L1E11	01A-B2K6A04
01A-B2S6A02	01A-B2N6E02	01A-B2L6E02	
185 A-B3M1C11	403 A-B3N1B11	504 A-B3L1D11	
01A-B2M6C02	01A-B2N6B02	01A-B2L6D02	
233 A-B3M1D11	409 A-B3N6E02	540 A-B3M1B11	
01A-B2M6D02	01A-A4V5D13	01A-B2M6B02	
250 A-B3R1D11	01A-AWL5D13	565 A-B3K1A13	

LOC. TYPE
A-B3T2 Y639

PAGE	VER	EC LEV
KC132	006	572330
KC142	006	828425
KC152	000	830225

CLOCK CONTROLS

EC HISTORY	MACH CPU MFST
830225 328425	FRAME 01 KC132
DATE LAST EC	IBM CORP. GSD KC152
05-15-78 572330	P.N. 4835510 006

006 KD101 KD121

*** KD101 ***

223 + CLOCK 0 MACH CYC ADV — KD141-AA2
206 + I-OP TRIG — KD131-AJ6
376 + I-Q TRIG — KD131-AR6
244 - SYSTEM RESET — KD141-BK2
245 + SYSTEM RESET PWRD — BK6
4KD131 4KD141
367 + TRIG RESET PWR — KD131-BP6
564 - EB TRIG — KD131-BZ4
238 - SYS RESET AND FORCE — KD141-CC2
239 + SYS RST AND FORCE — CC6
4KD131 4KD141
105 - MACHINE ADVANCE — KD141-CJ2
231 + CLK 0 OR SYS RST — KD131-CR6
355 + OP END CLK 0 — CQ2
4KD131 4KD151

*** KD111 ***

340 + IR TRIG — KD131-AB6
541 - IX1+IL1 — KD131-AM2
251 + INHIBIT MACHINE CYCLE — KD141-AR2
414 - EB CYCLE — AV6
4KC152 4KG151 4KL101 4KL111
4KL121 4KM101 4KN121 4KP122
4KP132 4KY141 4PB111
524 + 1ST E CYCLE TRIG — KD131-BJ6
145 + 2 ADD I END — KD131-BK6
416 - EB CYCLE PWR — BY6
4KD131 4KD141
445 - RECOMPL CYCLE — CA6
4KG151 4KL101 4KL121 4KY141

*** KD121 ***

439 - IX1 CYCLE — AB6
4KL111 4KL121 4PB111
442 - IX2 CYCLE — AC6
4KL111 4KL121 4PB111
477 - IQ CYCLE INTERNAL — AD6
4KD131 4KD141 4KD151
166 + CHAN IR CYCLE — AF2
4KT561 4RC131 4RC231 4WB155
435 - IR CYCLE — AG6
4KA212 4KD151 4KL101 4KL111
4KM111 4KM121 4KY121 4PB111
419 - IH1 CYCLE — AH6
4KL111 4PB111
429 - IL1 CYCLE — AJ6
4KL111 4PB111
425 - I-OP CYCLE — AK6
4KB141 4KA212 4KD141 4KG151
4KL101 4KL111 4KN101 4PB111
422 - IH2 CYCLE — AL6
4KL111 4PB111
432 - IL2 CYCLE — AM6
4KL111 4PB111
410 - EA CYCLE — AN6
4KG111 4KL121 4KP152 4KY101
4PB111
407 - 1ST E CYCLE — AT6
4KC152 4KG151 4KL111 4KP112
4KP142 4KR272 4KY141
160 + CHAN EB NOT 1 — AV2
156 + CHAN EB 1 — AW2
4KT561 4RC131 4RC231 4WB155
137 - E CYCLE — AY6
4KM101 4KY141
129 - IX CYCLE — AZ6
4KB101 4KB141 4KB101
473 + CHAN IQ CYCLE — BD2
475 - IQ CYCLE PWD — BD6
4KB101 4KA212 4KA242 4KG121
4KG131 4KL101 4KL111 4KL121
4KM101 4PB111

A. SIM TO PN EC 830225
B. SIM TO PN EC 830225
C. SIM TO PN EC 830225

F KD101
51 KD121
UP 006

EDGE CONN.

156 A-B1B6C04	160 A-B1B6E04	166 A-B3C1A11	473 A-B3B1D11
01A-B1A2B06	01A-B1A2B08	01A-B2C6A02	01A-B2B1A13
01A-B3C1C11	01A-B3C1B11	01A-B1B6B04	01A-B1B6A04
01A-B2B1C13	01A-B2B1E13	01A-B1A2B05	01A-B1A2B04
01A-B2C6C02	01A-A1U13J3	01A-B2B1B13	01A-A1T1C13
01A-A1T1E13	01A-A1U6B04	01A-A1T1D13	01A-A1T6C04
01A-A1T6E04	01A-B2C6B02	01A-A1T6D04	01A-B2B6D02
01A-A2T1E13	01A-A2U1B13	01A-A2T1D13	01A-A2T1C13
01A-A2T6E04	01A-A2U6B04	01A-A2T6D04	01A-A2T6C04

01A-A3T1C13

LOC. TYPE
A-B3S2 Y629

PAGE	VER	EC LEV
KD101	006	828425
KD111	006	828425
KD121	006	828425

CYCLE CONTROLS
E.C.-HISTORY
MACH. CPU15FST
FRAME 01 KD101
IBM CORP. GSD KD121
P.N. 4835511 006
DATE LAST EC
05-09-77 828425

A=SIM TO PN EC 830232
B=SIM TO PN EC 830225
C=SIM TO PN EC 830225

F KD131
5 KD151
U
P 006

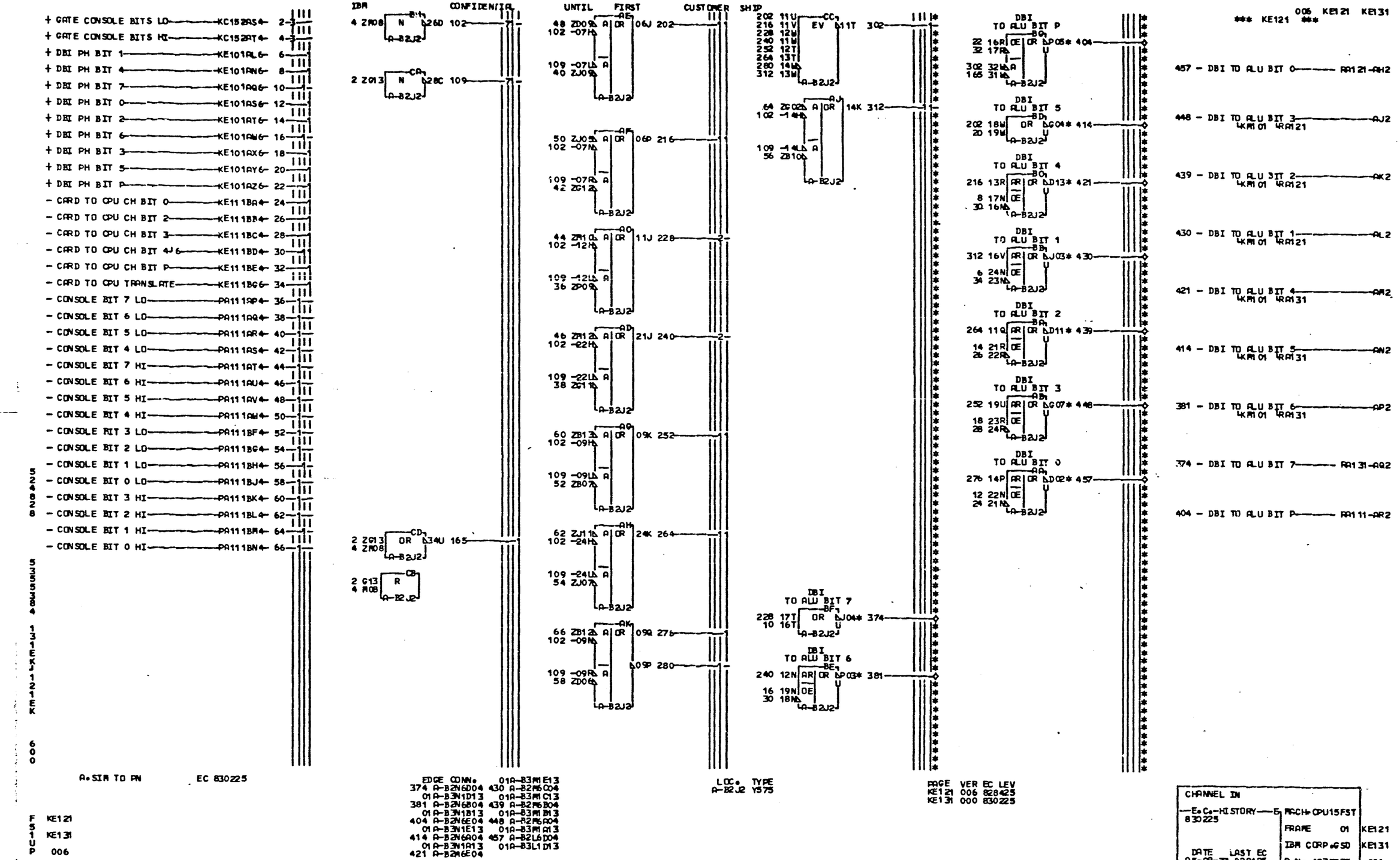
EDGE CONN= 01A-A3Q1C13
538 A-31E6C04
01A-B1A3B05
01A-B3C1E11
01A-B3E1C13
01A-B2C6E02
01A-A1Q1C13
01A-H1Q6C04
01A-A2Q1C13
01A-A2Q6C04

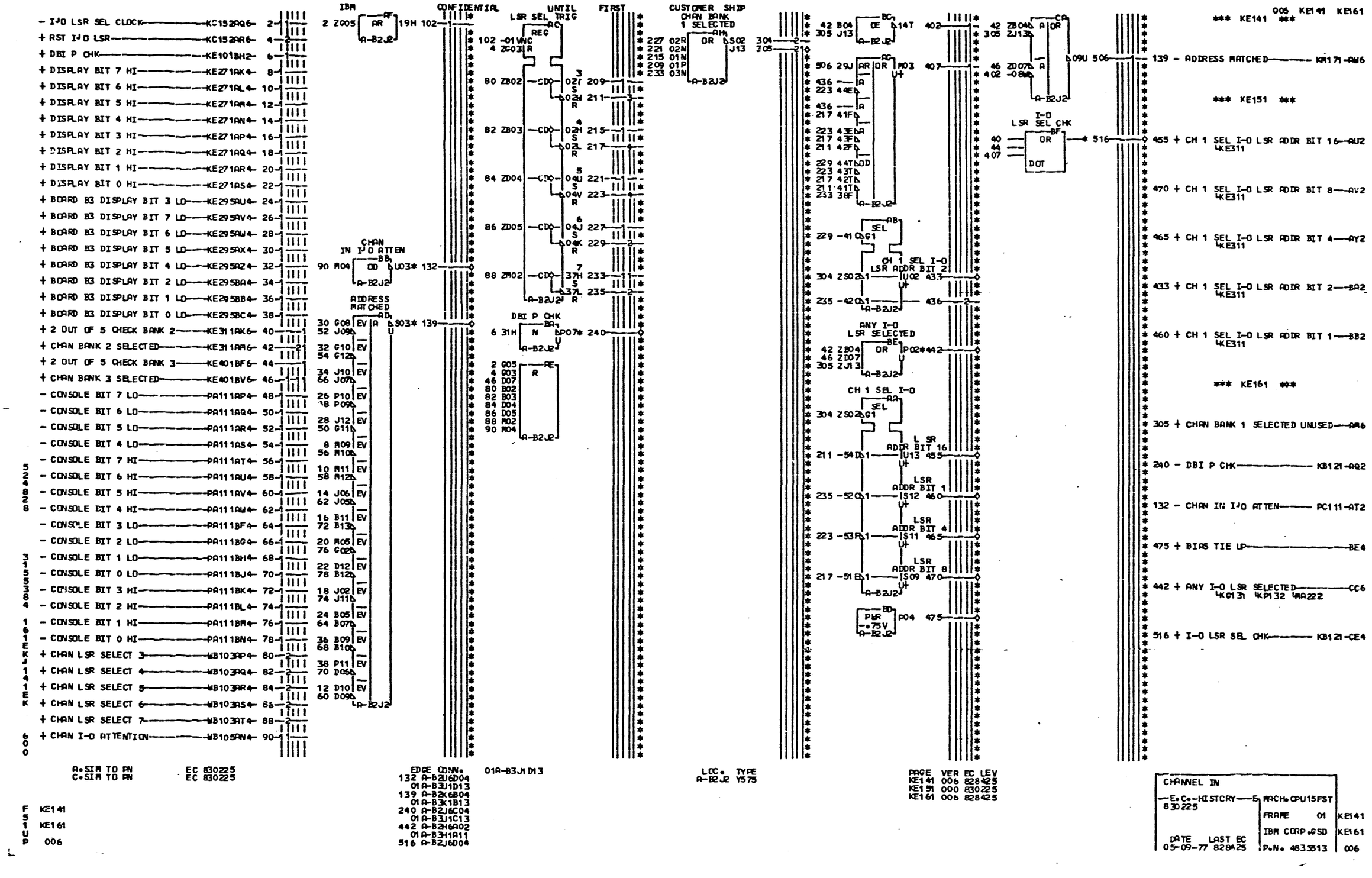
LOC= TYPE
A-B3S2 Y629

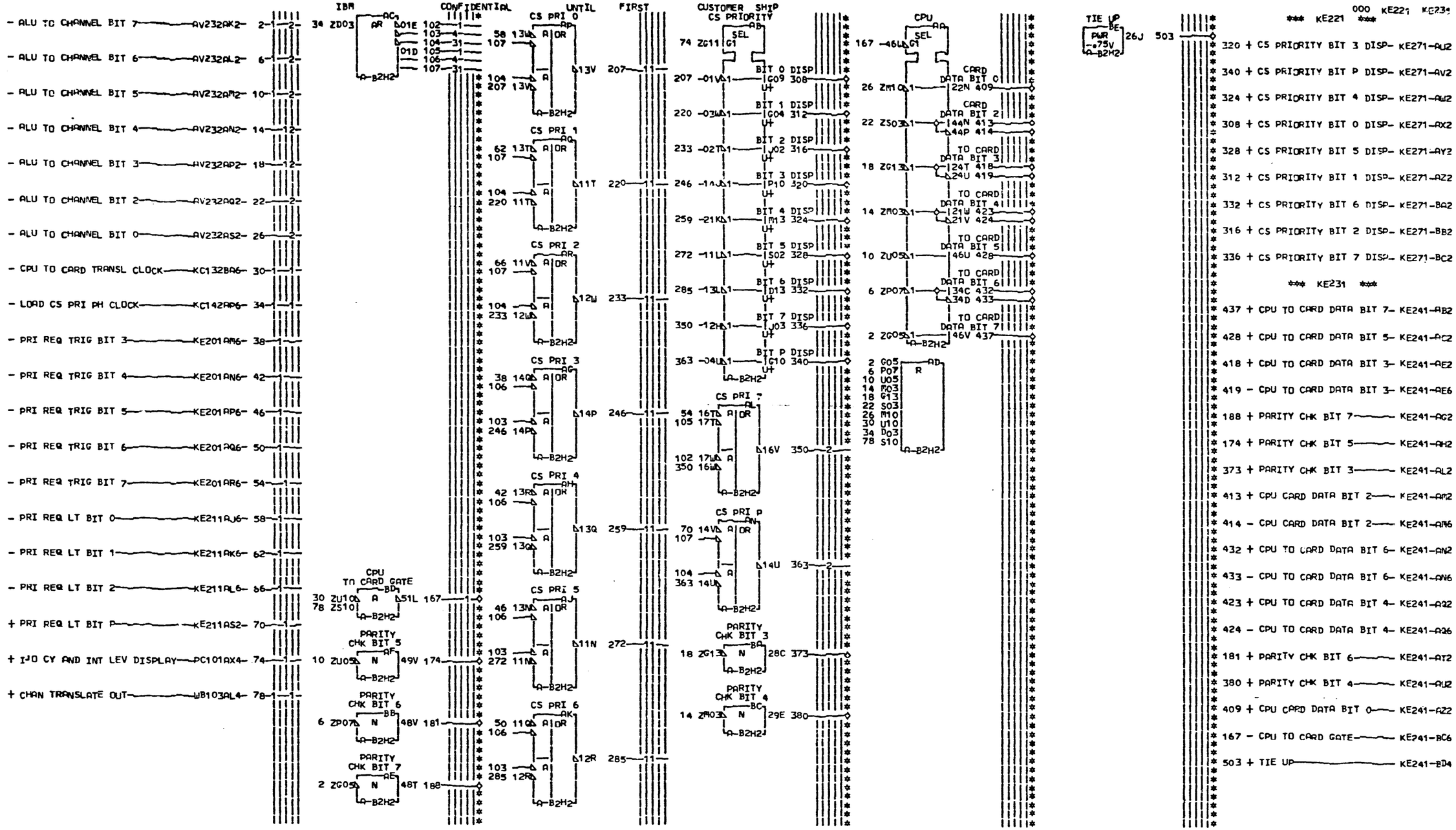
PAGE	VER	EC LEV
KD131	006	828425
KD141	006	828425
KD151	006	828425

CYCLE CONTROLS

E= C= HISTORY	E=	MACH= CPU15FST	
		FRAME 01	KD131
DATE LAST EC		IBM CORP.GSD	KD151
05-09-77 828425		P.N= 4835512	006

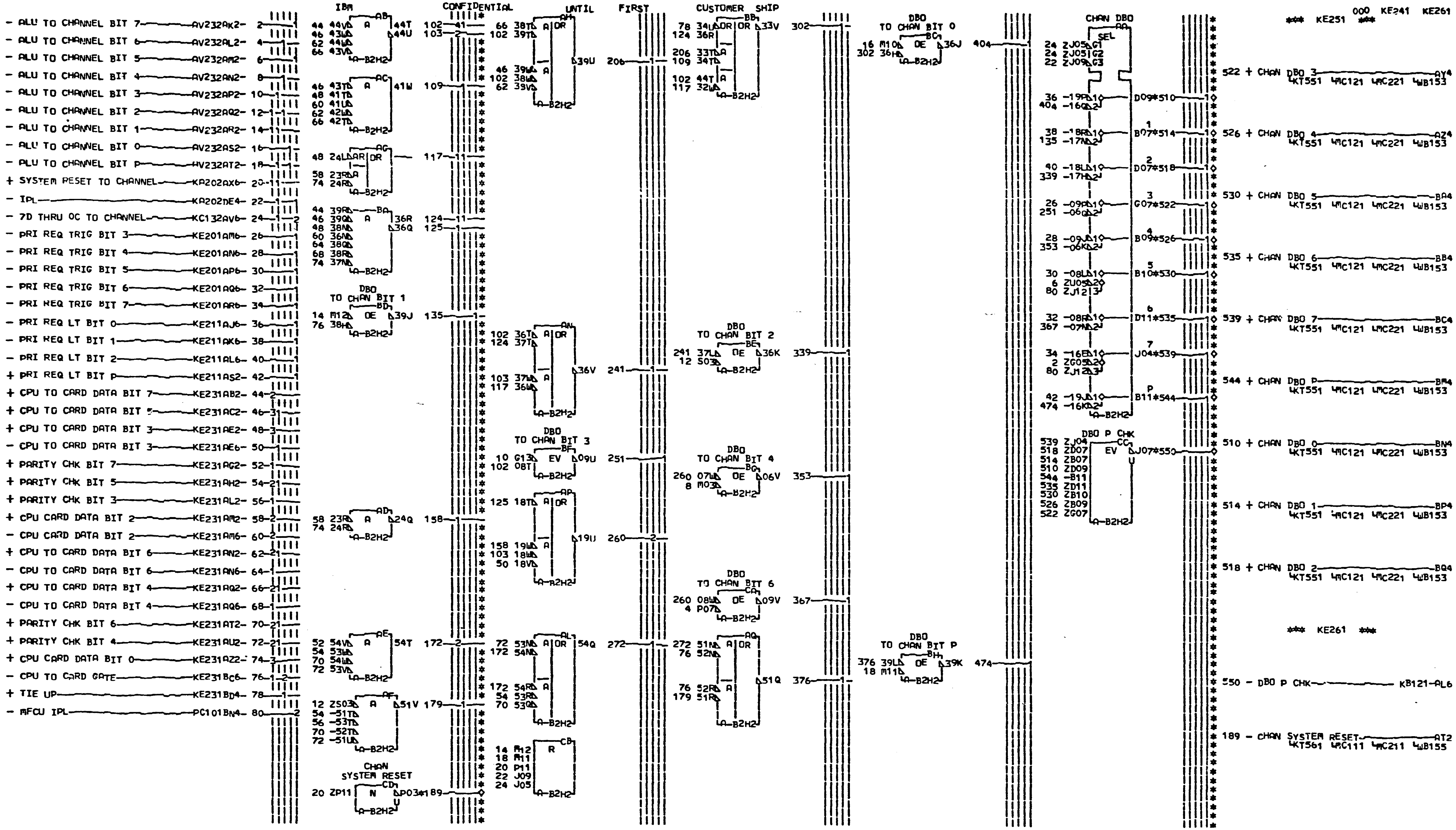

+ GATE CONSOLE BITS LO KC152AS4 2
+ GATE CONSOLE BITS HI KC152AT4 4
+ DBI PH BIT 1 KE101AL6 6
+ DBI PH BIT 4 KE101AN6 8
+ DBI PH BIT 7 KE101AQ6 10
+ DBI PH BIT 0 KE101AS6 12
+ DBI PH BIT 2 KE101AT6 14
+ DBI PH BIT 6 KE101AW6 16
+ DBI PH BIT 3 KE101AX6 18
+ DBI PH BIT 5 KE101AY6 20
+ DBI PH BIT P KE101AZ6 22
- CARD TO CPU CH BIT 0 KE111BA4 24
- CARD TO CPU CH BIT 2 KE111BB4 26
- CARD TO CPU CH BIT 3 KE111BC4 28
- CARD TO CPU CH BIT 4 KE111BD4 30
- CARD TO CPU CH BIT P KE111BE4 32
- CARD TO CPU TRANSLATE KE111BG6 34
- CONSOLE BIT 7 LO PA111AP4 36
- CONSOLE BIT 6 LO PA111AR4 38
- CONSOLE BIT 5 LO PA111AS4 40
- CONSOLE BIT 4 LO PA111AT4 42
- CONSOLE BIT 7 HI PA111AU4 44
- CONSOLE BIT 6 HI PA111AV4 46
- CONSOLE BIT 5 HI PA111AW4 48
- CONSOLE BIT 4 HI PA111BF4 50
- CONSOLE BIT 3 LO PA111BG4 52
- CONSOLE BIT 2 LO PA111BH4 54
- CONSOLE BIT 1 LO PA111BJ4 58
- CONSOLE BIT 0 LO PA111BK4 60
- CONSOLE BIT 3 HI PA111BL4 62
- CONSOLE BIT 2 HI PA111BM4 64
- CONSOLE BIT 1 HI PA111BN4 66
- CONSOLE BIT 0 HI
A-SIM TO PN EC 830225
F KE121
S KE131
U
P 006
IBM
CONFIDENTIAL
UNTIL FIRST CUSTOMER SHIP
DBI TO ALU BIT P
DBI TO ALU BIT 5
DBI TO ALU BIT 4
DBI TO ALU BIT 1
DBI TO ALU BIT 2
DBI TO ALU BIT 3
DBI TO ALU BIT 0
DBI TO ALU BIT 7
DBI TO ALU BIT 6
457 - DBI TO ALU BIT 0 RA121-AH2
448 - DBI TO ALU BIT 3 AJ2
439 - DBI TO ALU BIT 2 AK2
430 - DBI TO ALU BIT 1 AL2
421 - DBI TO ALU BIT 4 AM2
414 - DBI TO ALU BIT 5 AN2
381 - DBI TO ALU BIT 6 AP2
374 - DBI TO ALU BIT 7 RA131-AR2
404 - DBI TO ALU BIT P RA111-AR2
EDGE CONN. 01A-B3M1E13
374 A-B2N6D04 430 A-B2M6C04
01 A-B3N1D13 01A-B3M1C13
381 A-B2N6B04 439 A-B2M6B04
01 A-B3N1B13 01A-B3M1B13
404 A-B2N6E04 448 A-B2M6A04
01 A-B3N1E13 01A-B3M1A13
414 A-B2N6A04 457 A-B2L6D04
01 A-B3N1A13 01A-B3L1D13
421 A-B2M6E04
LOC. TYPE
A-B2J2 Y575
PAGE VER EC LEV
KE121 006 828425
KE131 000 830225
005 KE121 KE131
*** KE121 ***
CHANNEL IN
E.C.-HISTORY
830225
ARCH. CPU15FST
FRAME 01 KE121
IBM CORP. GSD KE131
DATE LAST EC
05-09-77 828425
P.N. 4835535 006


- I-O LSR SEL CLOCK — KC152AQ6
+ RST I-O LSR — KC152AR6
+ DBI P CHK — KE101BH2
+ DISPLAY BIT 7 HI — KE271AK4
+ DISPLAY BIT 6 HI — KE271AL4
+ DISPLAY BIT 5 HI — KE271AM4
+ DISPLAY BIT 4 HI — KE271AN4
+ DISPLAY BIT 3 HI — KE271AP4
+ DISPLAY BIT 2 HI — KE271AQ4
+ DISPLAY BIT 1 HI — KE271AR4
+ DISPLAY BIT 0 HI — KE271AS4
+ BOARD B3 DISPLAY BIT 3 LO — KE295AU4
+ BOARD B3 DISPLAY BIT 7 LO — KE295AV4
+ BOARD B3 DISPLAY BIT 6 LO — KE295AW4
+ BOARD B3 DISPLAY BIT 5 LO — KE295AX4
+ BOARD B3 DISPLAY BIT 4 LO — KE295AZ4
+ BOARD B3 DISPLAY BIT 2 LO — KE295BA4
+ BOARD B3 DISPLAY BIT 1 LO — KE295BB4
+ BOARD B3 DISPLAY BIT 0 LO — KE295BC4
+ 2 OUT OF 5 CHECK BANK 2 — KE311AK6
+ CHAN BANK 2 SELECTED — KE311AM6
+ 2 OUT OF 5 CHECK BANK 3 — KE401BF6
+ CHAN BANK 3 SELECTED — KE401BV6
- CONSOLE BIT 7 LO — PA111AP4
- CONSOLE BIT 6 LO — PA111AQ4
- CONSOLE BIT 5 LO — PA111AR4
- CONSOLE BIT 4 LO — PA111AS4
- CONSOLE BIT 7 HI — PA111AT4
- CONSOLE BIT 6 HI — PA111AU4
- CONSOLE BIT 5 HI — PA111AV4
- CONSOLE BIT 4 HI — PA111AW4
- CONSOLE BIT 3 LO — PA111BF4
- CONSOLE BIT 2 LO — PA111BG4
- CONSOLE BIT 1 LO — PA111BH4
- CONSOLE BIT 0 LO — PA111BJ4
- CONSOLE BIT 3 HI — PA111BK4
- CONSOLE BIT 2 HI — PA111BL4
- CONSOLE BIT 1 HI — PA111BM4
- CONSOLE BIT 0 HI — PA111BN4
+ CHAN LSR SELECT 3 — WB103AP4
+ CHAN LSR SELECT 4 — WB103AQ4
+ CHAN LSR SELECT 5 — WB103AR4
+ CHAN LSR SELECT 6 — WB103AS4
+ CHAN LSR SELECT 7 — WB103AT4
+ CHAN I-O ATTENTION — WB105AN4
IBM CONFIDENTIAL
UNTIL FIRST
CUSTOMER SHIP
CHAN BANK 1 SELECTED
LSR SEL CLOCK REG
CHAN IN I-O ATTEN
ADDRESS MATCHED
DBI P CHK
ANY I-O LSR SELECTED
CH 1 SEL I-O LSR ADDR BIT 2
CH 1 SEL I-O LSR ADDR BIT 16
LSR ADDR BIT 1
LSR ADDR BIT 4
LSR ADDR BIT 8
I-O LSR SEL CHK
PWR -.75V
A-B2J2
*** KE141 ***
139 - ADDRESS MATCHED — KA171-AW6
*** KE151 ***
455 + CH 1 SEL I-O LSR ADDR BIT 16 — AU2 4KE311
470 + CH 1 SEL I-O LSR ADDR BIT 8 — AV2 4KE311
465 + CH 1 SEL I-O LSR ADDR BIT 4 — AY2 4KE311
433 + CH 1 SEL I-O LSR ADDR BIT 2 — BA2 4KE311
460 + CH 1 SEL I-O LSR ADDR BIT 1 — BB2 4KE311
*** KE161 ***
305 + CHAN BANK 1 SELECTED UNUSED — AR6
240 - DBI P CHK — KB121-AQ2
132 - CHAN IN I-O ATTEN — PC111-AT2
475 + BIAS TIE UP — BE4
442 + ANY I-O LSR SELECTED — CC6 4KG131 4KP132 4AA222
516 + I-O LSR SEL CHK — KB121-CE4
A-SIM TO PN EC 830225
C-SIM TO PN EC 830225
KE141
KE161
006
EDGE CONN. 01A-B3J1D13
132 A-B2J6D04
01 A-B3J1D13
139 A-B2K6B04
01 A-B3K1B13
240 A-B2J6C04
01 A-B3J1C13
442 A-B2H6A02
01 A-B3H1A11
516 A-B2J6D04
LOC. TYPE
A-B2J2 Y575
PAGE VER EC LEV
KE141 006 828425
KE151 000 830225
KE161 006 828425
CHANNEL IN
E.C.-HISTORY — 5 ARCH. CPU15FST
830225
FRAME 01 KE141
IBM CORP. GSD KE161
DATE LAST EC
05-09-77 828425
P.N. 4835313 006


IBM CONFIDENTIAL UNTIL FIRST
- ALU TO CHANNEL BIT 7 AV232AK2- 2
- ALU TO CHANNEL BIT 6 AV232AL2- 6
- ALU TO CHANNEL BIT 5 AV232AM2- 10
- ALU TO CHANNEL BIT 4 AV232AN2- 14
- ALU TO CHANNEL BIT 3 AV232AP2- 18
- ALU TO CHANNEL BIT 2 AV232AQ2- 22
- ALU TO CHANNEL BIT 0 AV232AS2- 26
- CPU TO CARD TRANSL CLOCK KC132BA6- 30
- LOAD CS PRI PH CLOCK KC142AP6- 34
- PRI REQ TRIG BIT 3 KE201AM6- 38
- PRI REQ TRIG BIT 4 KE201AN6- 42
- PRI REQ TRIG BIT 5 KE201AP6- 46
- PRI REQ TRIG BIT 6 KE201AQ6- 50
- PRI REQ TRIG BIT 7 KE201AR6- 54
- PRI REQ LT BIT 0 KE211AJ6- 58
- PRI REQ LT BIT 1 KE211AK6- 62
- PRI REQ LT BIT 2 KE211AL6- 66
+ PRI REQ LT BIT P KE211AS2- 70
+ I/O CY AND INT LEV DISPLAY PC101AX4- 74
+ CHAN TRANSLATE OUT WB103AL4- 78
CS PRI 0
CS PRI 1
CS PRI 2
CS PRI 3
CS PRI 4
CS PRI 5
CS PRI 6
CS PRI 7
CS PRI P
CUSTOMER SHIP CS PRIORITY
BIT 0 DISP
BIT 1 DISP
BIT 2 DISP
BIT 3 DISP
BIT 4 DISP
BIT 5 DISP
BIT 6 DISP
BIT 7 DISP
BIT P DISP
CPU
CARD DATA BIT 0
CARD DATA BIT 2
TO CARD DATA BIT 3
TO CARD DATA BIT 4
TO CARD DATA BIT 5
TO CARD DATA BIT 6
TO CARD DATA BIT 7
CPU TO CARD GATE
PARITY CHK BIT 5
PARITY CHK BIT 6
PARITY CHK BIT 7
PARITY CHK BIT 3
PARITY CHK BIT 4
TIE UP
PWR -.75V
A-B2H2
*** KE221 ***
320 + CS PRIORITY BIT 3 DISP- KE271-AU2
340 + CS PRIORITY BIT P DISP- KE271-AV2
324 + CS PRIORITY BIT 4 DISP- KE271-AW2
308 + CS PRIORITY BIT 0 DISP- KE271-AX2
328 + CS PRIORITY BIT 5 DISP- KE271-AY2
312 + CS PRIORITY BIT 1 DISP- KE271-AZ2
332 + CS PRIORITY BIT 6 DISP- KE271-BA2
316 + CS PRIORITY BIT 2 DISP- KE271-BB2
336 + CS PRIORITY BIT 7 DISP- KE271-BC2
*** KE231 ***
437 + CPU TO CARD DATA BIT 7- KE241-AB2
428 + CPU TO CARD DATA BIT 5- KE241-AC2
418 + CPU TO CARD DATA BIT 3- KE241-AE2
419 - CPU TO CARD DATA BIT 3- KE241-AE6
188 + PARITY CHK BIT 7 KE241-AG2
174 + PARITY CHK BIT 5 KE241-AH2
373 + PARITY CHK BIT 3 KE241-AL2
413 + CPU CARD DATA BIT 2 KE241-AM2
414 - CPU CARD DATA BIT 2 KE241-AM6
432 + CPU TO CARD DATA BIT 6- KE241-AN2
433 - CPU TO CARD DATA BIT 6- KE241-AN6
423 + CPU TO CARD DATA BIT 4- KE241-AR2
424 - CPU TO CARD DATA BIT 4- KE241-AR6
181 + PARITY CHK BIT 6 KE241-AT2
380 + PARITY CHK BIT 4 KE241-AU2
409 + CPU CARD DATA BIT 0 KE241-AZ2
167 - CPU TO CARD GATE KE241-BC6
503 + TIE UP KE241-BD4
LOC. TYPE
A-B2H2 2586
PAGE VER EC LEV
KE221 000 830225
KE231 000 830225
KE221
KE231
000
CHANNEL OUT
E.C.-HISTORY
MACH.CPU15FST
FRAME 01 KE221
IBM CORP.GSD KE231
DATE LAST EC
04-15-76 830225
P.N. 4238936 000

CONFIDENTIAL UNTIL FIRST CUSTOMER SHIP

IBM



- ALU TO CHANNEL BIT 7 AV232AK2 2
- ALU TO CHANNEL BIT 6 AV232AL2 4
- ALU TO CHANNEL BIT 5 AV232AM2 6
- ALU TO CHANNEL BIT 4 AV232AN2 8
- ALU TO CHANNEL BIT 3 AV232AP2 10
- ALU TO CHANNEL BIT 2 AV232AQ2 12
- ALU TO CHANNEL BIT 1 AV232AR2 14
- ALU TO CHANNEL BIT 0 AV232AS2 16
- ALU TO CHANNEL BIT P AV232AT2 18
+ SYSTEM RESET TO CHANNEL KA202AX6 20
- IPL KA202AE4 22
- 7D THRU 0C TO CHANNEL KC132AV6 24
- PRI REQ TRIG BIT 3 KE201AM6 26
- PRI REQ TRIG BIT 4 KE201AN6 28
- PRI REQ TRIG BIT 5 KE201AP6 30
- PRI REQ TRIG BIT 6 KE201AQ6 32
- PRI REQ TRIG BIT 7 KE201AR6 34
- PRI REQ LT BIT 0 KE211AJ6 36
- PRI REQ LT BIT 1 KE211AK6 38
- PRI REQ LT BIT 2 KE211AL6 40
+ PRI REQ LT BIT P KE211AS2 42
+ CPU TO CARD DATA BIT 7 KE231AB2 44
+ CPU TO CARD DATA BIT 5 KE231AC2 46
+ CPU TO CARD DATA BIT 3 KE231AE2 48
- CPU TO CARD DATA BIT 3 KE231AE6 50
+ PARITY CHK BIT 7 KE231AG2 52
+ PARITY CHK BIT 5 KE231AH2 54
- PARITY CHK BIT 3 KE231AL2 56
+ CPU CARD DATA BIT 2 KE231AM2 58
- CPU CARD DATA BIT 2 KE231AM6 60
+ CPU TO CARD DATA BIT 6 KE231AN2 62
- CPU TO CARD DATA BIT 6 KE231AN6 64
+ CPU TO CARD DATA BIT 4 KE231AQ2 66
- CPU TO CARD DATA BIT 4 KE231AQ6 68
+ PARITY CHK BIT 6 KE231AT2 70
+ PARITY CHK BIT 4 KE231AU2 72
+ CPU CARD DATA BIT 0 KE231AZ2 74
- CPU TO CARD GATE KE231BC6 76
+ TIE UP KE231BD4 78
- MFCU IPL PC101BN4 80
DBO TO CHAN BIT 0
DBO TO CHAN BIT 1
DBO TO CHAN BIT 2
DBO TO CHAN BIT 3
DBO TO CHAN BIT 4
DBO TO CHAN BIT 6
DBO TO CHAN BIT P
CHAN SYSTEM RESET
CHAN DBO
SEL
DBO P CHK
KE251 000 KE241 KE261
522 + CHAN DBO 3 AY4
526 + CHAN DBO 4 AZ4
530 + CHAN DBO 5 BA4
535 + CHAN DBO 6 BB4
539 + CHAN DBO 7 BC4
544 + CHAN DBO P BM4
510 + CHAN DBO 0 BN4
514 + CHAN DBO 1 BP4
518 + CHAN DBO 2 BQ4
KE261
550 - DBO P CHK KB121-AL6
189 - CHAN SYSTEM RESET AT2

EDGE CONN.
189 A-B2E1D13
01A-B1E6D04
01A-B1A3B06
01A-A1Q1D13
01A-A1Q6D04
01A-A2Q1D13
01A-A2Q6D04
01A-A3Q1D13
510 A-B2A1E11

01A-B1A6E02
01A-B1A2D03
01A-A1T1B11
01A-A1T6B02
01A-A2T1B11
01A-A2T6B02
01A-A3T1B11
514 A-B2B1B11
01A-B1B6B02
01A-B1A2D05

01A-A1T1D11
01A-A1T6D02
01A-A2T1D11
01A-A2T6D02
01A-A3T1D11
518 A-B2B1C11
01A-B1B6C02
01A-B1A2D06
01A-A1T1E11
01A-A1T6E02

01A-A2T1E11
01A-A2T6E02
01A-A3T1E11
522 A-B2B1D11
01A-B1B6D02
01A-B1A2D07
01A-A1U1A11
01A-A1U6A02
01A-A2U1A11
01A-A2U6A02

01A-A3U1A11
526 A-B2C1A11
01A-B1C6A02
01A-B1A2D09
01A-A1U1C11
01A-A1U6C02
01A-A2U1C11
01A-A2U6C02
01A-A3U1C11
530 A-B2C1B11

01A-B1C6B02
01A-B1A2D10
01A-A1U1D11
01A-A1U6D02
01A-A2U1D11
01A-A2U6D02
01A-A3U1D11
535 A-B2C1C11
01A-B1C6C02
01A-B1A2D11

01A-A1U1E11
01A-A1U6E02
01A-A2U1E11
01A-A2U6E02
01A-A3U1E11
539 A-B2C1E11
01A-B1C6E02
01A-B1A2D13
01A-A1V1B11
01A-A1V6B02

01A-A2V1B11
01A-A2V6B02
01A-A3V1B11
544 A-B2A1D11
01A-B1A6D02
01A-B1A2D02
01A-A1T1A11
01A-A1T6A02
01A-A2T1A11
01A-A2T6A02

01A-A3T1A11
550 A-B2H6D02
01A-A3H1M11

LOC. A-B2H2 TYPE 2586

PAGE	VER	EC LEV
KE241	000	830225
KE251	000	830225
KE261	000	830225

KE241
KE261
000

CHANNEL OUT		
E.C. HISTORY	C. MACH. CPU15FST	
	FRAME 01	KE241
	IBM CORP. GSD	KE261
DATE 04-15-76 LAST EC 830225	P.N. 4238824	000

+ CS PRIORITY BIT 3 DISP — KE221AU2 — 2-1
+ CS PRIORITY BIT P DISP — KE221AV2 — 5-1
+ CS PRIORITY BIT 4 DISP — KE221AW2 — 8-1
+ CS PRIORITY BIT 0 DISP — KE221AX2 — 11-1
+ CS PRIORITY BIT 5 DISP — KE221AY2 — 14-1
+ CS PRIORITY BIT 1 DISP — KE221AZ2 — 17-1
+ CS PRIORITY BIT 6 DISP — KE221BA2 — 20-1
+ CS PRIORITY BIT 2 DISP — KE221BB2 — 23-1
+ CS PRIORITY BIT 7 DISP — KE221BC2 — 26-1
+ BOARD B3 DISPLAY BIT 3 LO — KE295AU4 — 29-2
+ BOARD B3 DISPLAY BIT 7 LO — KE295AV4 — 32-1
+ BOARD B3 DISPLAY BIT 6 LO — KE295AW4 — 35-3
+ BOARD B3 DISPLAY BIT 5 LO — KE295AX4 — 38-1
+ BOARD B3 DISPLAY BIT 4 LO — KE295AZ4 — 41-1
+ BOARD B3 DISPLAY BIT 2 LO — KE295BA4 — 44-1
+ BOARD B3 DISPLAY BIT 1 LO — KE295BB4 — 47-1
+ BOARD B3 DISPLAY BIT 0 LO — KE295BC4 — 50-1
+ BOARD B3 DISPLAY BIT P LO — KE295BD4 — 53-1
+ BOARD B3 DISPLAY BIT 7 HI — KE540AF5 — 56-1
+ BOARD B3 DISPLAY BIT 6 HI — KE540AF7 — 59-1
+ BOARD B3 DISPLAY BIT 5 HI — KE540AG1 — 62-1
+ BOARD B3 DISPLAY BIT 4 HI — KE540AG3 — 65-1
+ BOARD B3 DISPLAY BIT 3 HI — KE540AG5 — 68-1
+ BOARD B3 DISPLAY BIT 2 HI — KE540AG7 — 71-1
+ BOARD B3 DISPLAY BIT 1 HI — KE540AH1 — 74-1
+ BOARD B3 DISPLAY BIT 0 HI — KE540AH3 — 77-1
+ BOARD B3 DISPLAY BIT P HI — KE540AH5 — 80-1

DISPLAY BIT 7 HI — AB — OR * — DOT — 56, 26 — * 104
DISPLAY BIT 2 HI — AC — OR * — DOT — 23, 71 — * 112
DISPLAY BIT 6 HI — AC — OR * — DOT — 20, 59 — * 120
DISPLAY BIT 1 HI — AH — OR * — DOT — 17, 74 — * 128
DISPLAY BIT 5 HI — AI — OR * — DOT — 62, 14 — * 136
DISPLAY BIT 0 HI — BA — OR * — DOT — 77, 11 — * 144
DISPLAY BIT 4 HI — AE — OR * — DOT — 8, 65 — * 152
— BB — OR * — DOT — 80, 5 — * 158
DISPLAY BIT 3 HI — AF — OR * — DOT — 68, 2 — * 166
DISPLAY BIT P LO — DD — N — A-B2H2 — 53 ZD05 — D04 174
DISPLAY BIT 0 LO — DC — N — A-B2H2 — 50 ZM02 — P02 181
DISPLAY BIT 1 LO — DB — N — A-B2H2 — 47 ZD06 — D10 188

DISPLAY BIT 7 HI — BC — N — A-B2H2 — 104 ZJ03 — D12 204
DISPLAY BIT 2 HI — BH — N — A-B2H2 — 112 ZJ02 — D02 211
DISPLAY BIT 6 HI — BE — N — A-B2H2 — 120 ZD13 — B12 218
DISPLAY BIT 1 HI — CA — N — A-B2H2 — 128 ZG04 — B02 225
DISPLAY BIT 5 HI — BF — N — A-B2H2 — 136 ZS02 — B13 232
DISPLAY BIT 0 HI — CB — N — A-B2H2 — 144 ZG09 — G08 239
DISPLAY BIT 4 HI — BD — N — A-B2H2 — 152 ZM13 — S12 246
DISPLAY BIT P HI — CC — N — A-B2H2 — 158 ZG10 — G03 253
DISPLAY BIT 3 HI — BG — N — A-B2H2 — 166 ZP10 — G02 260
DISPLAY BIT 2 LO — DA — N — A-B2H2 — 44 ZB03 — B04 267
DISPLAY BIT 4 LO — CG — N — A-B2H2 — 41 ZB05 — J06 274
DISPLAY BIT 5 LO — CF — N — A-B2H2 — 38 ZU12 — U11 281
DISPLAY BIT 7 LO — CE — N — A-B2H2 — 32 ZS13 — U13 288

35 ZS09 — AL — A OR — U09 302
35 ZS09 — A
DISPLAY BIT 3 LO — CH — N — A-B2H2 — 29 ZG12 — J10 316
29 G12 — CD — R — A-B2H2
32 S13
35 S09
44 B03
47 D06
50 M02
53 D05
38 U12 — AA — R — A-B2H2
41 B05
104 J03
120 D13
136 S02
152 M13
166 P10
112 J02
128 G04
144 G09
158 G10

*** KE271 *** 000 KE271 KE281

104 + DISPLAY BIT 7 HI — KE141-AK4
120 + DISPLAY BIT 6 HI — KE141-AL4
136 + DISPLAY BIT 5 HI — KE141-AM4
152 + DISPLAY BIT 4 HI — KE141-AN4
166 + DISPLAY BIT 3 HI — KE141-AP4
112 + DISPLAY BIT 2 HI — KE141-AQ4
128 + DISPLAY BIT 1 HI — KE141-AR4
144 + DISPLAY BIT 0 HI — KE141-AS4
204 - DISPLAY BIT 7 HI — PB101-AU2
246 - DISPLAY BIT 4 HI — PB101-AW2
218 - DISPLAY BIT 6 HI — PB101-AX2
232 - DISPLAY BIT 5 HI — PB101-AY2
260 - DISPLAY BIT 3 HI — PB101-AZ2
211 - DISPLAY BIT 2 HI — PB101-BA2
225 - DISPLAY BIT 1 HI — PB101-BB2
239 - DISPLAY BIT 0 HI — PC101-BC2
253 - DISPLAY BIT P HI — PC101-BD2

*** KE281 ***

268 - DISPLAY BIT 7 LO — PB101-AK2
302 - DISPLAY BIT 6 LO — PB101-AL2
281 - DISPLAY BIT 5 LO — PB101-AM2
274 - DISPLAY BIT 4 LO — PB101-AN2
316 - DISPLAY BIT 3 LO — PB101-AP2
267 - DISPLAY BIT 2 LO — PB101-AQ2
188 - DISPLAY BIT 1 LO — PB101-AR2
181 - DISPLAY BIT 0 LO — PB101-AS2
174 - DISPLAY BIT P LO — PB101-AT2

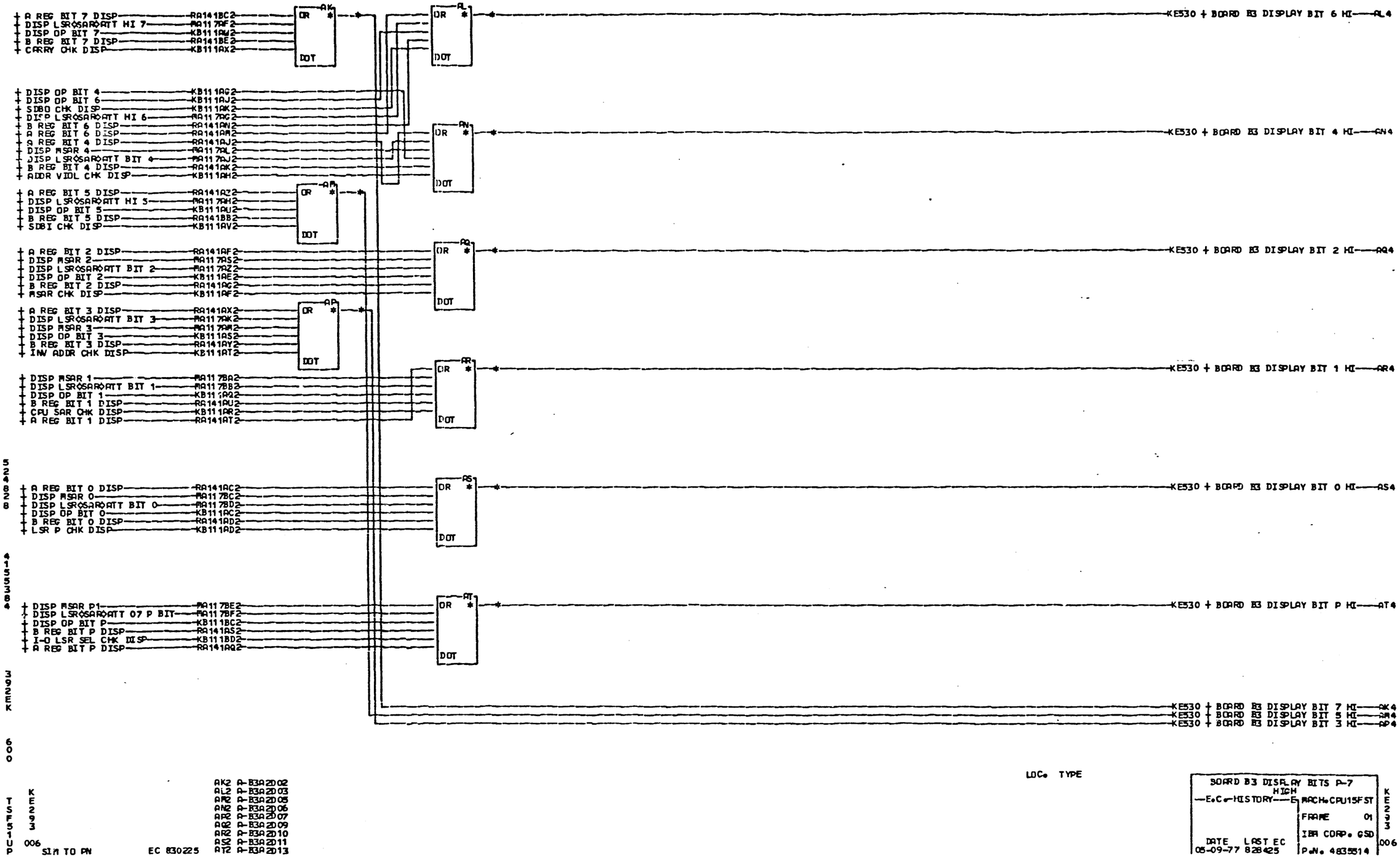
EDGE CONN.
104 A-B2A4D02
112 A-B2A4N09
120 A-B2A4D03
128 A-B2A4D10
136 A-B2A4D05
144 A-B2A4D11
152 A-B2A4D06
158 A-B2A4D13
166 A-P2H4D07

KE271
KE281
000

LOC. TYPE
A-B2H2 2586

PAGE VER EC LEV
KE271 000 830225
KE281 000 830225

CHANNEL OUT
F.C. HISTORY — C — MACH.CPU15FST
FRAME 01 — KE271
IBM CORP.GSD — KE281
DATE LAST EC 04-15-76 830225 — P.N. 4238825 — 000



5 2 4 8 2 8

4 1 5 5 3 8 4

3 9 2 E K

6 0 0

T S 2 9 3 1 U P

K E

006 SIM TO PN EC 830225

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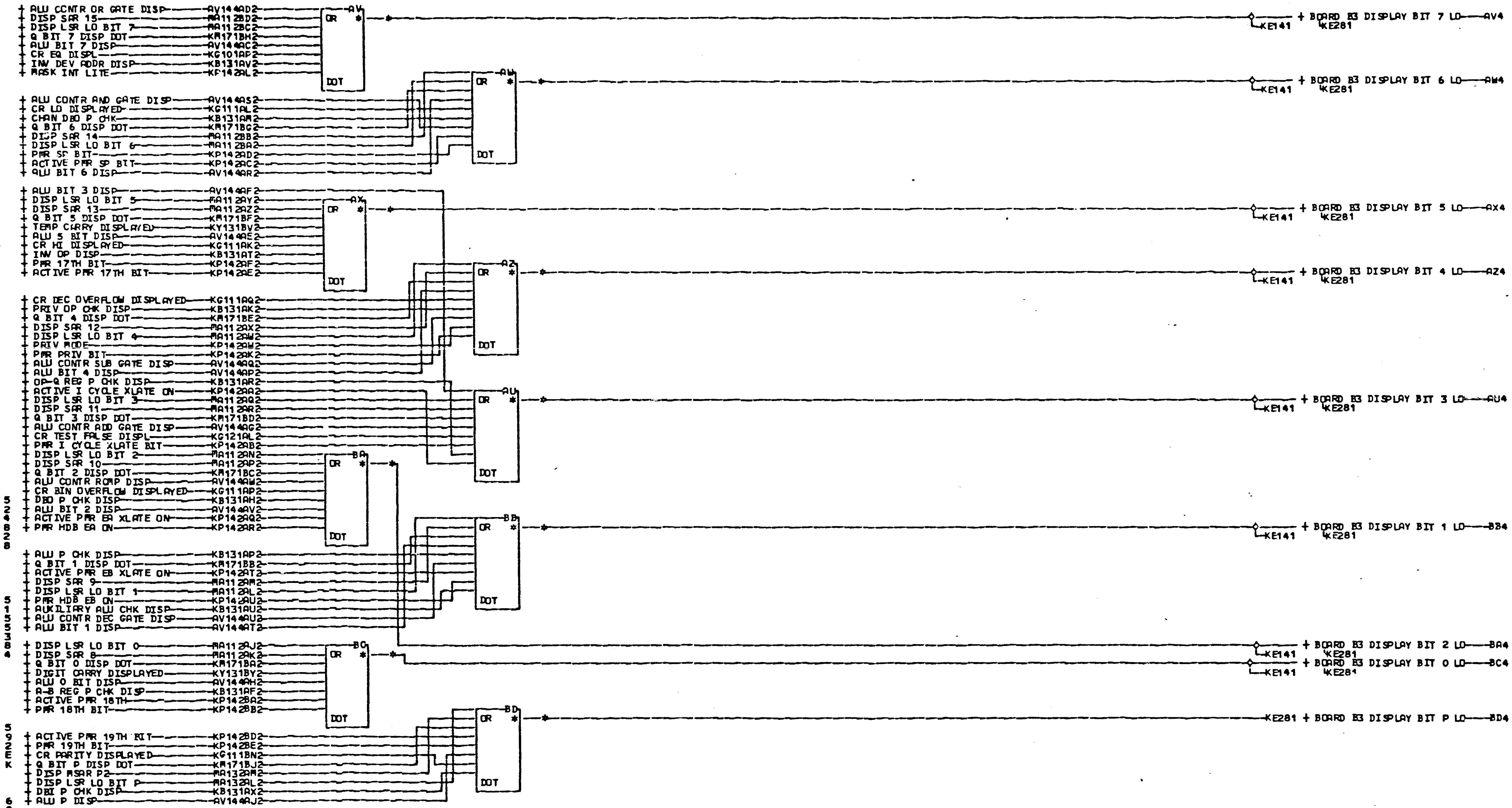
AL2	A-B3A2D03
AM2	A-B3A2D05
AN2	A-B3A2D06
AP2	A-B3A2D07
AQ2	A-B3A2D09
AR2	A-B3A2D10
AS2	A-B3A2D11
AT2	A-B3A2D13

LOC. TYPE

BOARD B3 DISPLAY BITS P-7
HIGH
E.C. HISTORY — E
MACH. CPU15FST
FRAME 01
IBM CORP. GSD
DATE LAST EC
05-09-77 828425
P.N. 4835514

K E 2 9 3 006


+ ALU CCNTR OR GATE DISP—AV144AD2
+ DISP SAR 15—MA112BD2
+ DISP LSR LO BIT 7—MA112BC2
+ Q BIT 7 DISP DOT—KM171BH2
+ ALU BIT 7 DISP—AV144AC2
+ CR EQ DISPL—KG101AP2
+ INV DEV ADDR DISP—KB131AV2
+ MASK INT LITE—KP142AL2
+ ALU CONTR AND GATE DISP—AV144AS2
+ CR LO DISPLAYED—KG111AL2
+ CHAN DBO P CHK—KB131AM2
+ Q BIT 6 DISP DOT—KM171BG2
+ DISP SAR 14—MA112BB2
+ DISP LSR LO BIT 6—MA112BA2
+ PMR SP BIT—KP142AD2
+ ACTIVE PMR SP BIT—KP142AC2
+ ALU BIT 6 DISP—AV144AR2
+ ALU BIT 3 DISP—AV144AF2
+ DISP LSR LO BIT 5—MA112AY2
+ DISP SAR 13—MA112AZ2
+ Q BIT 5 DISP DOT—KM171BF2
+ TEMP CARRY DISPLAYED—KY131BV2
+ ALU 5 BIT DISP—AV144AE2
+ CR HI DISPLAYED—KG111AK2
+ INV OP DISP—KB131AT2
+ PMR 17TH BIT—KP142AF2
+ ACTIVE PMR 17TH BIT—KP142AE2
+ CR DEC OVERFLOW DISPLAYED—KG111AQ2
+ PRIV OP CHK DISP—KB131AK2
+ Q BIT 4 DISP DOT—KM171BE2
+ DISP SAR 12—MA112AX2
+ DISP LSR LO BIT 4—MA112AW2
+ PRIV MODE—KP142AW2
+ PMR PRIV BIT—KP142AK2
+ ALU CONTR SUB GATE DISP—AV144AQ2
+ ALU BIT 4 DISP—AV144AP2
+ OP-Q REG P CHK DISP—KB131AR2
+ ACTIVE I CYCLE XLATE ON—KP142AA2
+ DISP LSR LO BIT 3—MA112AQ2
+ DISP SAR 11—MA112AR2
+ Q BIT 3 DISP DOT—KM171BD2
+ ALU CONTR ADD GATE DISP—AV144AG2
+ CR TEST FALSE DISPL—KG121AL2
+ PMR I CYCLE XLATE BIT—KP142AB2
+ DISP LSR LO BIT 2—MA112AN2
+ DISP SAR 10—MA112AP2
+ Q BIT 2 DISP DOT—KM171BC2
+ ALU CONTR ROMP DISP—AV144AW2
+ CR BIN OVERFLOW DISPLAYED—KG111AP2
+ DBO P CHK DISP—KB131AH2
+ ALU BIT 2 DISP—AV144AV2
+ ACTIVE PMR EA XLATE ON—KP142AQ2
+ PMR HDB EA ON—KP142AR2
+ ALU P CHK DISP—KB131AP2
+ Q BIT 1 DISP DOT—KM171BB2
+ ACTIVE PMR EB XLATE ON—KP142AT2
+ DISP SAR 9—MA112AM2
+ DISP LSR LO BIT 1—MA112AL2
+ PMR HDB EB ON—KP142AU2
+ AUXILIARY ALU CHK DISP—KB131AU2
+ ALU CONTR DEC GATE DISP—AV144AU2
+ ALU BIT 1 DISP—AV144AT2
+ DISP LSR LO BIT 0—MA112AJ2
+ DISP SAR 8—MA112AK2
+ Q BIT 0 DISP DOT—KM171BA2
+ DIGIT CARRY DISPLAYED—KY131BY2
+ ALU 0 BIT DISP—AV144AH2
+ A-B REG P CHK DISP—KB131AF2
+ ACTIVE PMR 18TH—KP142BA2
+ PMR 18TH BIT—KP142BB2
+ ACTIVE PMR 19TH BIT—KP142BD2
+ PMR 19TH BIT—KP142BE2
+ CR PARITY DISPLAYED—KG111BN2
+ Q BIT P DISP DOT—KM171BJ2
+ DISP MSAR P2—MA132AM2
+ DISP LSR LO BIT P—MA132AL2
+ DBI P CHK DISP—KB131AX2
+ ALU P DISP—AV144AJ2
AV OR DOT
AW OR DOT
AX OR DOT
AZ OR DOT
AU OR DOT
BA OR DOT
BB OR DOT
BC OR DOT
BD OR DOT
KE141 + BOARD B3 DISPLAY BIT 7 LO—AV4 KE281
KE141 + BOARD B3 DISPLAY BIT 6 LO—AW4 KE281
KE141 + BOARD B3 DISPLAY BIT 5 LO—AX4 KE281
KE141 + BOARD B3 DISPLAY BIT 4 LO—AZ4 KE281
KE141 + BOARD B3 DISPLAY BIT 3 LO—AU4 KE281
KE141 + BOARD B3 DISPLAY BIT 1 LO—BB4 KE281
KE141 + BOARD B3 DISPLAY BIT 2 LO—BA4 KE281
KE141 + BOARD B3 DISPLAY BIT 0 LO—BC4 KE281
KE281 + BOARD B3 DISPLAY BIT P LO—BD4

5248288 5155384 592EK 600

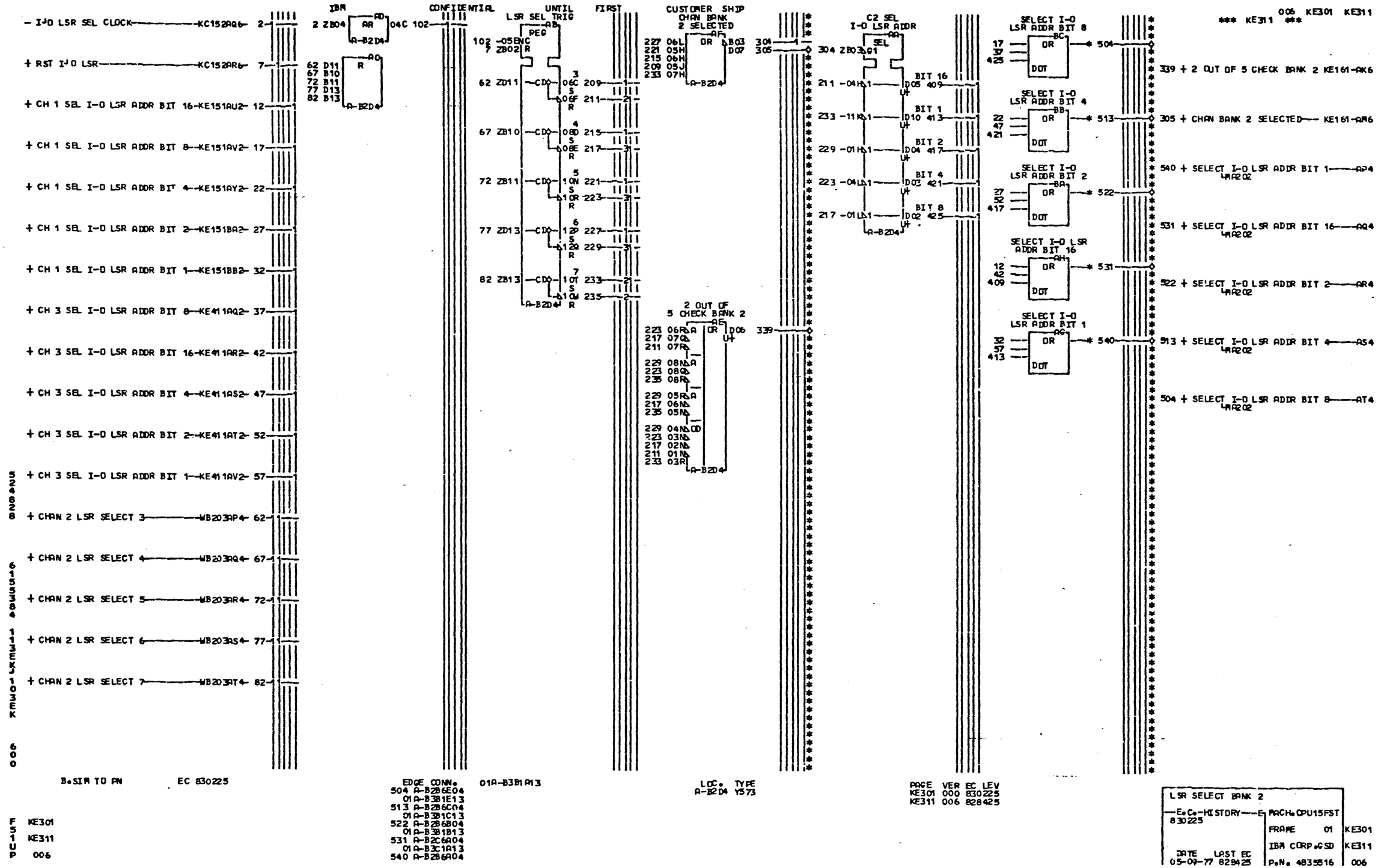
AU2 A-B3A2B08	01A-B2A4B06	
01A-B2A4B08	BA2 A-B3A2B09	
AV2 A-B3A2B02	01A-B2A4B09	
01A-B2A4B02	BB2 A-B3A2B10	
AW2 A-B3A2B04	01A-B2A4B10	
01A-B2A4B04	BC2 A-B3A2B12	
AX2 A-B3A2B05	01A-B2A4B12	
01A-B2A4B05	BD2 A-B3A2B13	
AZ2 A-B3A2B06	01A-B2A4B13	

TSF51UP KE295 006 SIM TO PN EC 830225

LOC. TYPE

BOARD B3 DISPLAY BITS P-7 LOW
—E.C.—HISTORY—E. MACH. CPU15FST
FRAME 01
IBM CORP. GSD
DATE 05-09-77 LAST EC 828425
P.N. 4835515

KE295 006


- I-O LSR SEL CLOCK —— KC152AQ6 2
+ RST I-O LSR —— KC152AR6 7
+ CH 1 SEL I-O LSR ADDR BIT 16 —— KE151AU2 12
+ CH 1 SEL I-O LSR ADDR BIT 8 —— KE151AV2 17
+ CH 1 SEL I-O LSR ADDR BIT 4 —— KE151AY2 22
+ CH 1 SEL I-O LSR ADDR BIT 2 —— KE151BA2 27
+ CH 1 SEL I-O LSR ADDR BIT 1 —— KE151BB2 32
+ CH 3 SEL I-O LSR ADDR BIT 8 —— KE411AQ2 37
+ CH 3 SEL I-O LSR ADDR BIT 16 —— KE411AR2 42
+ CH 3 SEL I-O LSR ADDR BIT 4 —— KE411AS2 47
+ CH 3 SEL I-O LSR ADDR BIT 2 —— KE411AT2 52
+ CH 3 SEL I-O LSR ADDR BIT 1 —— KE411AV2 57
+ CHAN 2 LSR SELECT 3 —— WB203AP4 62
+ CHAN 2 LSR SELECT 4 —— WB203AQ4 67
+ CHAN 2 LSR SELECT 5 —— WB203AR4 72
+ CHAN 2 LSR SELECT 6 —— WB203AS4 77
+ CHAN 2 LSR SELECT 7 —— WB203AT4 82
IBR
CONFIDENTIAL
UNTIL LSR SEL TRIG
FIRST
CUSTOMER SHIP CHAN BANK 2 SELECTED
2 OUT OF 5 CHECK BANK 2
C2 SEL I-O LSR ADDR
BIT 16
BIT 1
BIT 2
BIT 4
BIT 8
SELECT I-O LSR ADDR BIT 8
SELECT I-O LSR ADDR BIT 4
SELECT I-O LSR ADDR BIT 2
SELECT I-O LSR ADDR BIT 16
SELECT I-O LSR ADDR BIT 1
006 KE301 KE311
*** KE311 ***
339 + 2 OUT OF 5 CHECK BANK 2 KE161-AK6
305 + CHAN BANK 2 SELECTED —— KE161-AM6
540 + SELECT I-O LSR ADDR BIT 1 —— AP4
531 + SELECT I-O LSR ADDR BIT 16 —— AQ4
522 + SELECT I-O LSR ADDR BIT 2 —— AR4
513 + SELECT I-O LSR ADDR BIT 4 —— AS4
504 + SELECT I-O LSR ADDR BIT 8 —— AT4
B.SIM TO PN EC 830225
EDGE CONN. 01A-B3B1A13
LOC. TYPE
PAGE VER EC LEV
LSR SELECT BANK 2
E.C.-HISTORY
PARCH. CPU15FST
FRAME 01 KE301
IBM CORP. GSD KE311
P.N. 4835516 006
DATE LAST EC
05-09-77 828425
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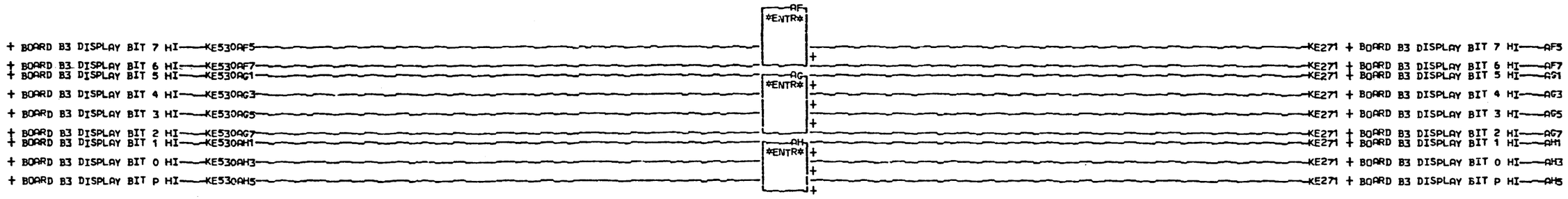
5 KE311
U
P 006



KE540
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LOC. TYPE

INTERFACE LINES ENTERING THE CHAN BOARD FROM THE B3 BD
E.C. HISTORY — CHAN.CPU15FST
FRAME 01
IBM CORP. GSD
DATE LAST EC
04-15-76 830225
P.N. 4238831
KE540
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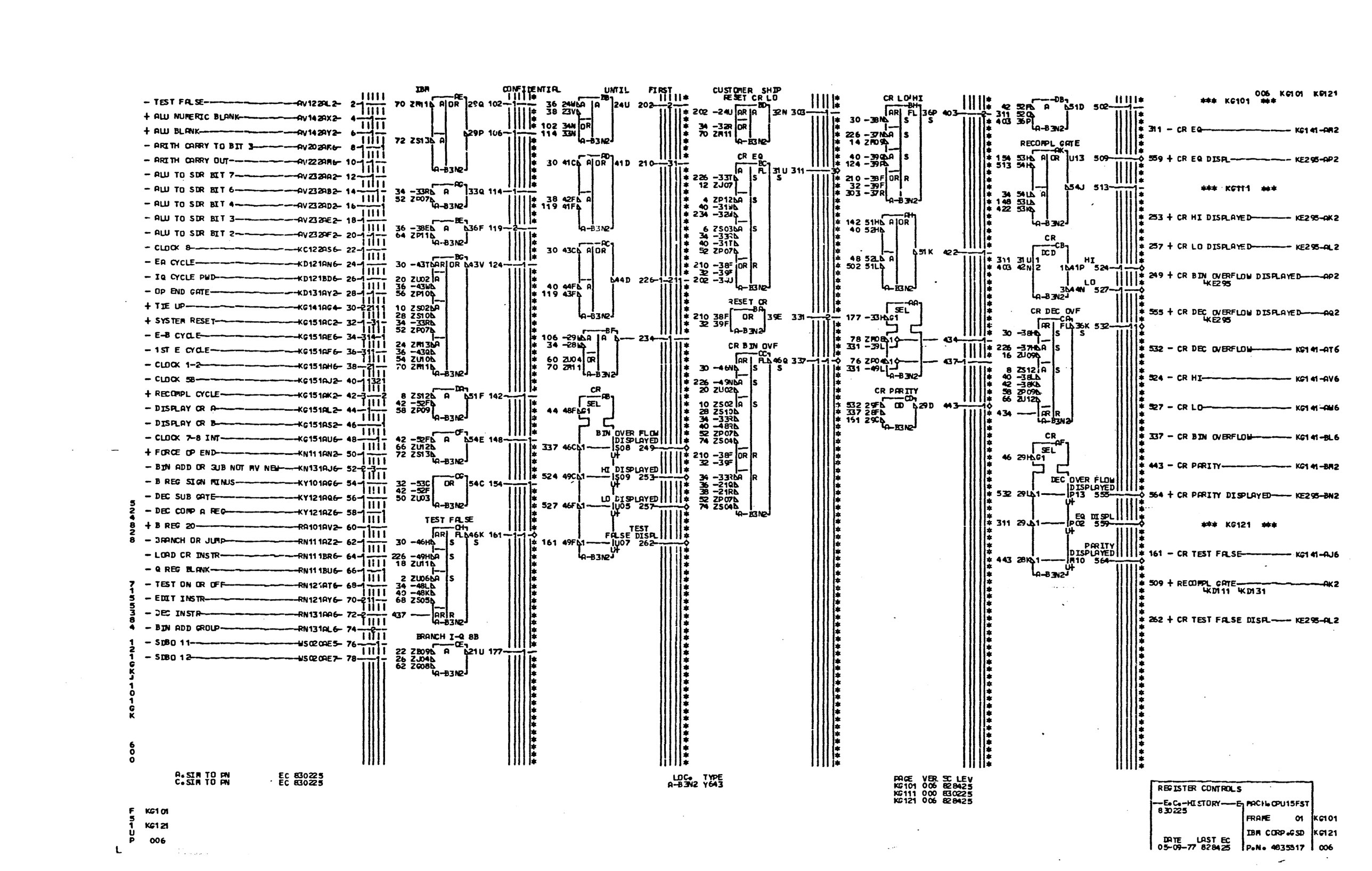
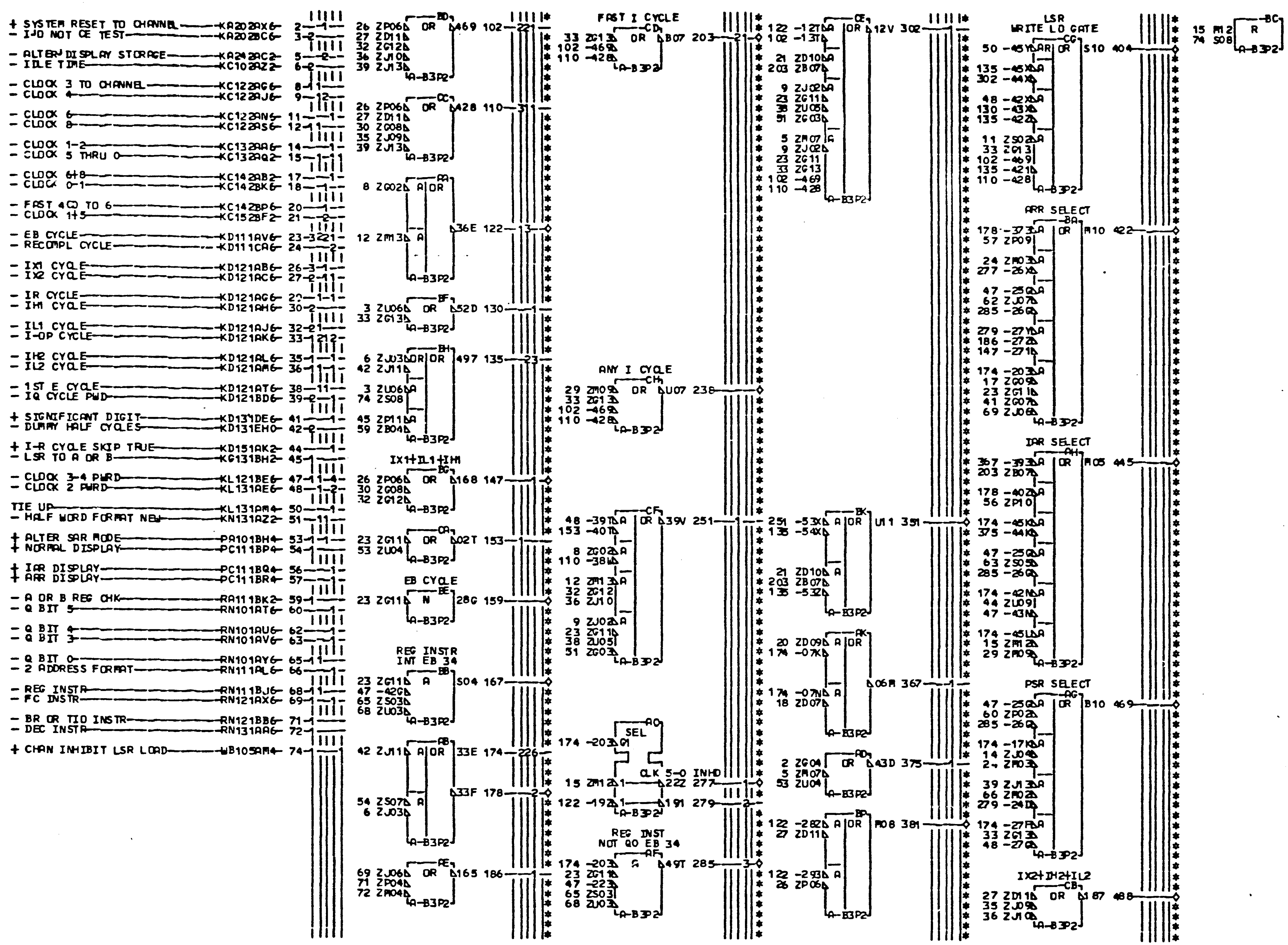

CONFIDENTIAL
- TEST FALSE
+ ALU NUMERIC BLANK
+ ALU BLANK
- ARITH CARRY TO BIT 3
- ARITH CARRY OUT
- ALU TO SDR BIT 7
- ALU TO SDR BIT 6
- ALU TO SDR BIT 4
- ALU TO SDR BIT 3
- ALU TO SDR BIT 2
- CLOCK 8
- EA CYCLE
- IQ CYCLE PWD
- OP END GATE
+ TIE UP
+ SYSTEM RESET
- E-B CYCLE
- 1ST E CYCLE
- CLOCK 1-2
- CLOCK 58
+ RECOMPL CYCLE
- DISPLAY CR A
- DISPLAY CR B
- CLOCK 7-8 INT
+ FORCE OP END
- BIN ADD OR SUB NOT AV NEW
- B REG SIGN MINUS
- DEC SUB GATE
- DEC COMP A REG
+ B REG 20
- BRANCH OR JUMP
- LOAD CR INSTR
- Q REG BLANK
- TEST ON OR OFF
- EDIT INSTR
- DEC INSTR
- BIN ADD GROUP
- SIBO 11
- SIBO 12
IBM
UNTIL
FIRST
CUSTOMER SHIP RESET CR LO
CR LO HI
CR EQ
RECOMPL GATE
CR
DCD
HI
LO
CR DEC OVF
CR BIN OVF
RESET CR
CR PARITY
SEL
CR
BIN OVER FLOW DISPLAYED
HI DISPLAYED
LO DISPLAYED
TEST FALSE DISPL
DEC OVER FLOW DISPLAYED
EQ DISPL
PARITY DISPLAYED
TEST FALSE
BRANCH I-Q BB
006 KG101 KG121
*** KG101 ***
311 - CR EQ
559 + CR EQ DISPL
*** KG111 ***
253 + CR HI DISPLAYED
257 + CR LO DISPLAYED
249 + CR BIN OVERFLOW DISPLAYED
4KE295
555 + CR DEC OVERFLOW DISPLAYED
4KE295
532 - CR DEC OVERFLOW
524 - CR HI
527 - CR LO
337 - CR BIN OVERFLOW
443 - CR PARITY
564 + CR PARITY DISPLAYED
*** KG121 ***
161 - CR TEST FALSE
509 + RECOMPL GATE
4KD111 4KD131
262 + CR TEST FALSE DISPL
A. SIM TO PN EC 830225
C. SIM TO PN EC 830225
LOC. TYPE
A-B3N2 Y643
PAGE VER SC LEV
KG101 006 828425
KG111 000 830225
KG121 006 828425
REGISTER CONTROLS
E. C. HISTORY
830225
DATE LAST EC
05-09-77 828425
PACH. CPU15FST
FRAME 01 KG101
IBM CORP. GSD KG121
P.N. 4835517 006
F KG101
KG121
P 006

- SYS RESET KA202BA2- 2
- I-O NOT CE TEST KA202BC6- 4
- ANY ALTER OR DISP ATT PAR KA242AA2- 6
+ CE TEST NO INCRE KA242AR6- 8
+ WAIT OR ALTER-DISP ATT-PAR KA242BT6- 10
- CLOCK 1-2 KC132AA6- 12
- CLOCK 3-4 KC132AB6- 14
- CLOCK 5-6 KC132AC6- 16
- CLOCK 7-8 KC132AD6- 18
- CLOCK 2-6 KC142AF2- 20
+ CLOCK 5B KC142AG2- 22
- EB CYCLE KD111AV6- 24
- RECOMPL CYCLE KD111CA6- 26
- I-OP CYCLE KD121AK6- 28
- 1ST E CYCLE KD121AT6- 30
- IQ CYCLE PND KD121BD6- 32
+ I-R CYCLE SKIP TRUE KD151AK2- 34
+ IR PROG BACKUP KD151AP2- 36
+ ANY I-O LSR SELECTED KE161CC6- 38
- CR EQ KG101AM2- 40
- CR DEC OVERFLOW KG111AT6- 42
- CR HI KG111AV6- 44
- CR LO KG111AW6- 46
- CR BIN OVERFLOW KG111BL6- 48
- CR PARITY KG111BM2- 50
- CR TEST FALSE KG121AJ6- 52
- FAST I CYCLE KL111BE2- 54
- INH SDR XFER NEW KN101AK2- 56
- INVALID ADDRESS KR262AL2- 58
+ E-A ELIMINATE KY111AH2- 60
+ COND REG DISPLAY PC101AV4- 62
- OP BIT 4 RN101AG6- 64
- Q NUM BLANK RN101AZ6- 66
- 2 ADDRESS FORMAT RN111AL6- 68
- ADD TO REG OR STORE INSTR RN111AY6- 70
- SNS I-O INSTR RN111BC6- 72
- I-O NOT CONSOLE INSTR RN111BN6- 74
- ZONE-NUM INTERCHANGE RN121AW6- 76
- DEC INSTR RN131AA6- 78
+ CHAN BLOCK SDR WB105AK4- 80
IBM CONFIDENTIAL UNTIL FIRST
I-OP CYCLE
CLOCK 1-2
CLOCK 5-6 INT
CLOCK 3-4
TIE UP
EB
NOT 1ST CYCLE
CLOCK 7-8 INT
RECOMPL CYCLE
GATE LSR HI TO A
GATE IJO BUS TO A
FORCE BIT 7 TO A
CUSTOMER SHIP
FORCE BIT P TO A
GATE SDR TO B
FORCE P BIT TO B
GATE LSR HI TO B
GATE LSR LO TO B
LSR TO A OR B
GATE LSR LO
SYSTEM RESET
IJO CYCLE NOT TEST
DISPLAY CR A
1ST E CYCLE
E-B CYCLE
CLOCK 5B
006 KG131 KG151
*** KG131 ***
228 + GATE LSR HI TO A RA121-AQ2
236 + GATE IJO BUS TO A RA121-AS2
534 + GATE LSR LO NORMAL TO A RA121-AX2
537 + GATE LSR LO CROSSED TO A AY2
524 - LSR TO A OR B BH2
558 - GATE DBI P CHK KB121-BJ6
*** KG141 ***
146 + TIE UP AG4
516 + GATE LSR LO TO B RA101-AN2
478 + GATE LSR HI TO B RA101-AP2
453 + GATE SDR TO B RA101-AQ2
470 - FORCE P BIT TO B RA111-AY6
439 - MISC BIT 7 TO A AZ6
427 - CR BIT 4 TO A BA6
424 - CR BIT 2 TO A BB6
318 - MISC BIT 3 TO A BC6
306 - MISC BIT 6 TO A BD6
431 - MISC BIT 5 TO A BE6
506 - MISC BIT P TO A BF6
*** KG151 ***
542 + SYSTEM RESET AC2
567 - E-B CYCLE AE6
585 - 1ST E CYCLE AF6
109 - CLOCK 1-2 AH6
573 - CLOCK 5B AJ2
184 + RECOMPL CYCLE AK2
579 - DISPLAY CR A AL2
580 - DISPLAY CR B AS2
178 - CLOCK 7-8 INT KG121-AU6
B-SIM TO PN EC 830225
LOC. TYPE
A-B3N2 Y643
PAGE VER EC LEV
KG131 000 830225
KG141 006 828425
KG151 000 830225
REGISTER CONTROLS
E.C.-HISTORY
830225
DATE LAST EC
05-09-77 828425
AMCH. CPU15FST
FRAME 01 KG131
IBM CORP. GSD KG151
P.N. 4833518 006
F KG131
5 KG151
1 U
P 0C6



*** KL101 *** 006 KL101 KL111

178 – LSR DISPLAY GATE——KL121-AB6

285 – REG INST NOT Q0 EB 34——AS6 KL121 KL131

277 – CLK 5-0 INHD——KL121-AT6

469 + PSR SELECT——MA202-AY2

445 + IAR SELECT——AZ4 KL131 KM111

422 + ARR SELECT——BB4 KL131 KM111

167 + REG INSTR INT EB 34——KM111-BC2

*** KL111 ***

122 – CLOCK 3+8——KL121-AA6

159 + EB CYCLE——KL121-AC2

147 – IX1+IL1+IM1——KL121-AX2

488 – IX2+IH2+IL2——KL121-BC2

203 – FAST I CYCLE——BE2 MB141 MB241 KB141 KD131 KG151 KY141

404 + LSR WRITE LO GATE——MA212-BJ2

351 + LSR WRITE HI GATE——MA212-BK2

238 – ANY I CYCLE——BL2 KM171 KN101 KP152

381 + IX 3+8——MB141-BP2

5 2 4 8 2 8

9 1 5 3 3 8 4

1 1 1 L K J 1 0 1 L K

6 0 0

A.SIM TO PN EC 830225
B.SIM TO PN EC 830225

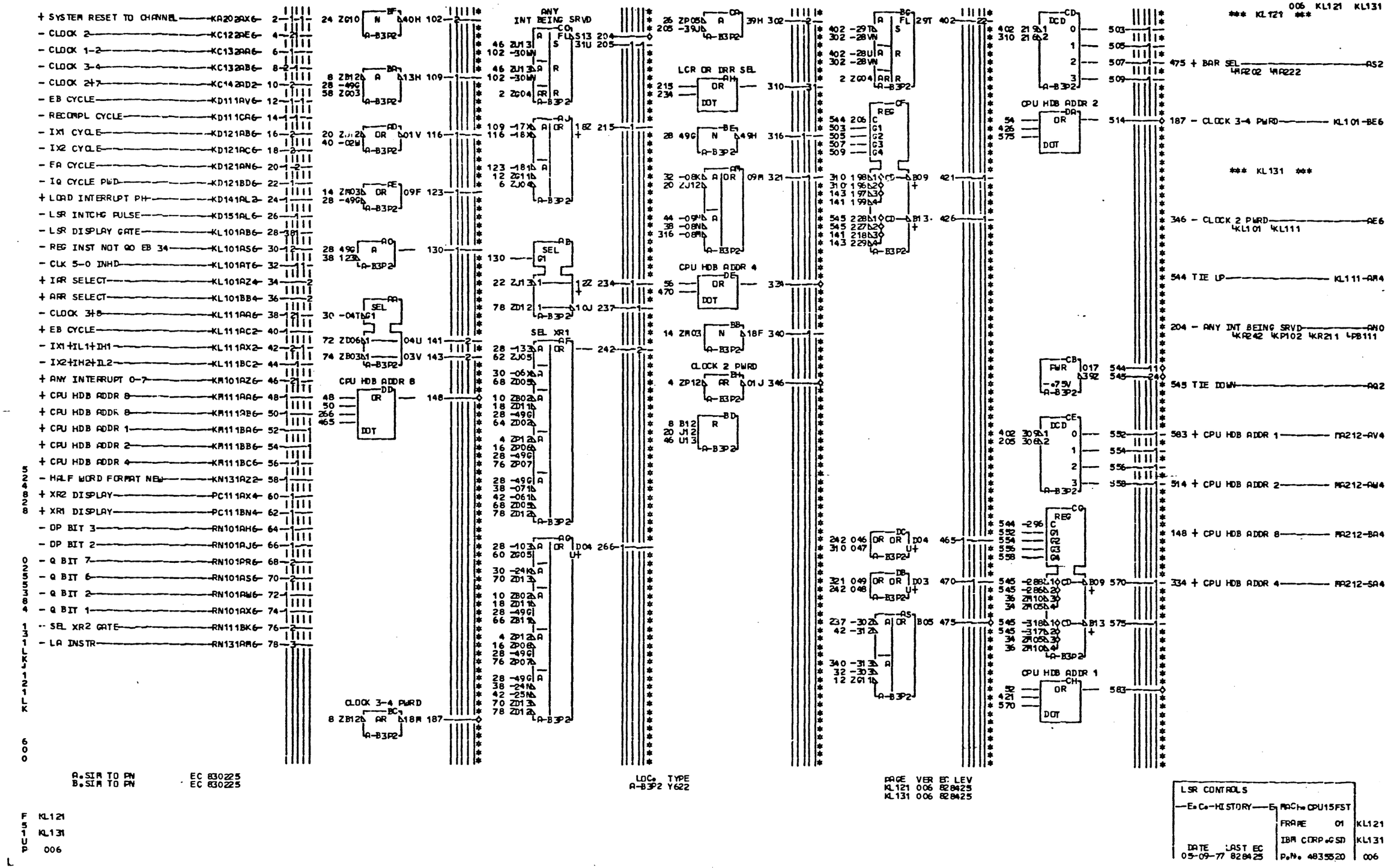
LOC. TYPE
A-B3P2 Y622

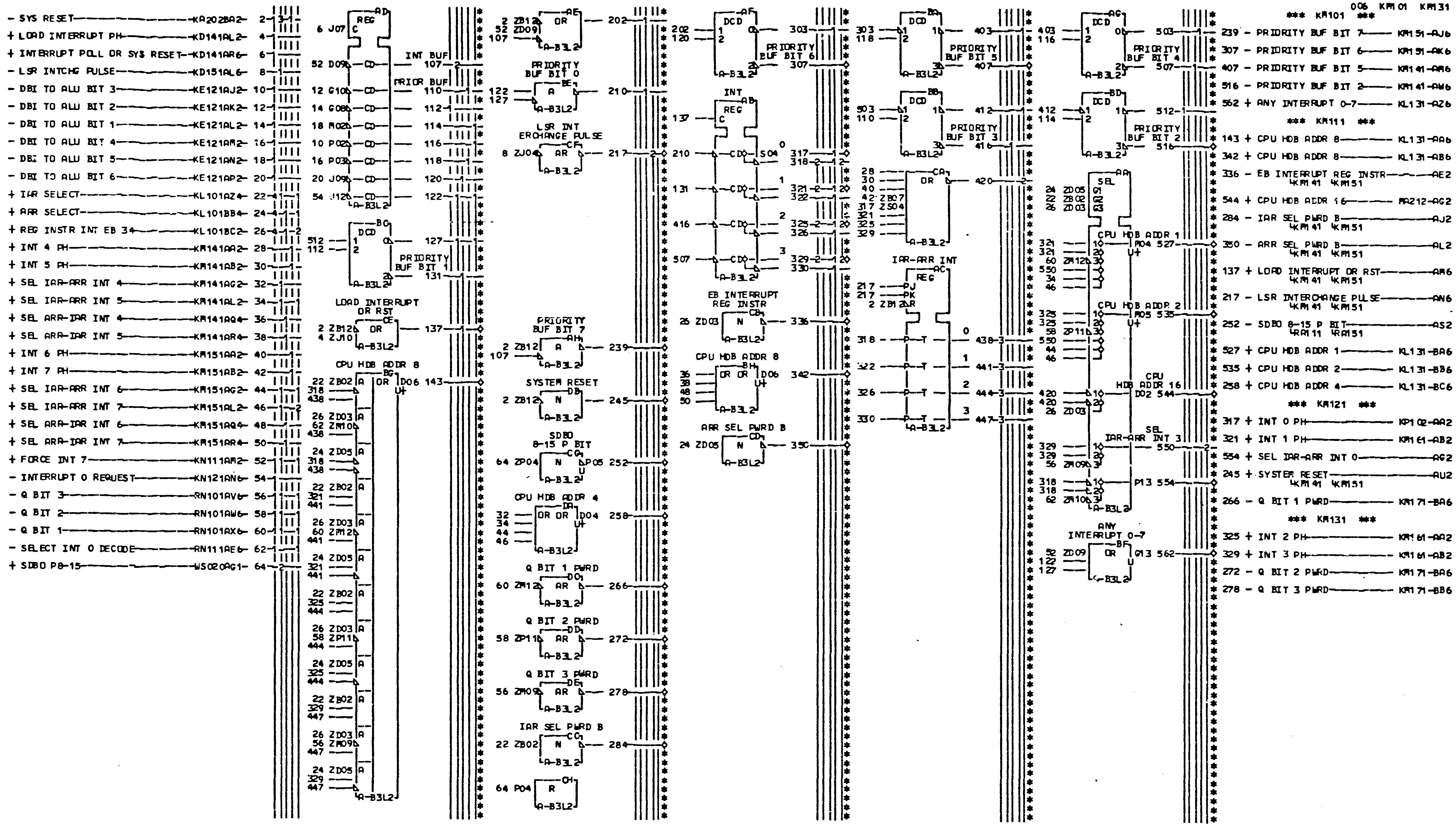
PAGE VER EC LEV
KL101 006 828425
KL111 006 828425

LSR CONTROLS		
E.C.-HISTORY	E.M MACH. CPU15FST	
	FRAME 01	KL101
	IBM CORP.GSD	KL111
DATE 05-09-77 LAST EC 828425	P.N. 4835519	006

F 5 1 U P

KL101
KL111
006


+ SYSTEM RESET TO CHANNEL
- CLOCK 2
- CLOCK 1-2
- CLOCK 3-4
- CLOCK 2+7
- EB CYCLE
- RECOMPL CYCLE
- IX1 CYCLE
- IX2 CYCLE
- FA CYCLE
- IQ CYCLE PWD
+ LOAD INTERRUPT PH
- LSR INTCHG PULSE
- LSR DISPLAY GATE
- REG INST NOT QO EB 34
- CLK 5-0 INHD
+ IAR SELECT
+ ARR SELECT
- CLOCK 3+8
+ EB CYCLE
- IX1+IL1+IH1
- IX2+IH2+IL2
+ ANY INTERRUPT 0-7
+ CPU HDB ADDR 8
+ CPU HDB ADDR 8
+ CPU HDB ADDR 1
+ CPU HDB ADDR 2
+ CPU HDB ADDR 4
- HALF WORD FORMAT NEW
+ XR2 DISPLAY
+ XR1 DISPLAY
- DP BIT 3
- DP BIT 2
- Q BIT 7
- Q BIT 6
- Q BIT 2
- Q BIT 1
- SEL XR2 GATE
- LA INSTR
ANY INT BEING SRVD
CPU HDB ADDR 8
SEL XR1
CLOCK 3-4 PWRD
LCR OR DRR SEL
CPU HDB ADDR 4
CLOCK 2 PWRD
CPU HDB ADDR 2
CPU HDB ADDR 1
*** KL121 ***
*** KL131 ***
475 + BAR SEL
187 - CLOCK 3-4 PWRD
346 - CLOCK 2 PWRD
544 TIE UP
204 - ANY INT BEING SRVD
545 TIE DOWN
583 + CPU HDB ADDR 1
514 + CPU HDB ADDR 2
148 + CPU HDB ADDR 8
334 + CPU HDB ADDR 4
A.SIM TO PN EC 830225
B.SIM TO PN EC 830225
LOC. TYPE
A-B3P2 Y622
PAGE VER EC LEV
KL121 006 828425
KL131 006 828425
LSR CONTROLS
FRAME 01 KL121
IBM CORP.GSD KL131
DATE LAST EC 05-09-77 828425
P.N. 4835520 006


006 KM101 KM131
- SYS RESET KA202BA2 2
+ LOAD INTERRUPT PH KD141AL2 4
+ INTERRUPT POLL OR SYS RESET KD141AR6 6
- LSR INTCHG PULSE KD151AL6 8
- DBI TO ALU BIT 3 KE121AJ2 10
- DBI TO ALU BIT 2 KE121AK2 12
- DBI TO ALU BIT 1 KE121AL2 14
- DBI TO ALU BIT 4 KE121AM2 16
- DBI TO ALU BIT 5 KE121AN2 18
- DBI TO ALU BIT 6 KE121AP2 20
+ IAR SELECT KL101AZ4 22
+ ARR SELECT KL101BB4 24
+ REG INSTR INT EB 34 KL101BC2 26
+ INT 4 PH KM141AA2 28
+ INT 5 PH KM141AB2 30
+ SEL IAR-ARR INT 4 KM141AG2 32
+ SEL IAR-ARR INT 5 KM141AL2 34
+ SEL ARR-IAR INT 4 KM141AQ4 36
+ SEL ARR-IAR INT 5 KM141AR4 38
+ INT 6 PH KM151AA2 40
+ INT 7 PH KM151AB2 42
+ SEL IAR-ARR INT 6 KM151AG2 44
+ SEL IAR-ARR INT 7 KM151AL2 46
+ SEL ARR-IAR INT 6 KM151AQ4 48
+ SEL ARR-IAR INT 7 KM151AR4 50
+ FORCE INT 7 KN111AM2 52
- INTERRUPT 0 REQUEST KN121AN6 54
- Q BIT 3 RN101AV6 56
- Q BIT 2 RN101AW6 58
- Q BIT 1 RN101AX6 60
- SELECT INT 0 DECODE RN111AE6 62
+ SDBO P8-15 WS020AG1 64
REG
INT BUF
PRIOR BUF
DCD
PRIORITY BUF BIT 1
LOAD INTERRUPT OR RST
CPU HDB ADDR 8
PRIORITY BUF BIT 0
LSR INT ERCHANGE PULSE
PRIORITY BUF BIT 7
SYSTEM RESET
SDBO 8-15 P BIT
CPU HDB ADDR 4
Q BIT 1 PWRD
Q BIT 2 PWRD
Q BIT 3 PWRD
IAR SEL PWRD B
PRIORITY BUF BIT 6
EB INTERRUPT REG INSTR
CPU HDB ADDR 8
ARR SEL PWRD B
PRIORITY BUF BIT 5
PRIORITY BUF BIT 3
IAR-ARR INT
PRIORITY BUF BIT 4
PRIORITY BUF BIT 2
SEL
CPU HDB ADDR 1
CPU HDB ADDR 2
CPU HDB ADDR 16
SEL IAR-ARR INT 3
ANY INTERRUPT 0-7
*** KM101 ***
239 - PRIORITY BUF BIT 7 KM151-AJ6
307 - PRIORITY BUF BIT 6 KM151-AK6
407 - PRIORITY BUF BIT 5 KM141-AM6
516 - PRIORITY BUF BIT 2 KM141-AW6
562 + ANY INTERRUPT 0-7 KL131-AZ6
*** KM111 ***
143 + CPU HDB ADDR 8 KL131-AA6
342 + CPU HDB ADDR 8 KL131-AB6
336 - EB INTERRUPT REG INSTR AE2 4KM141 4KM151
544 + CPU HDB ADDR 16 MA212-AG2
284 - IAR SEL PWRD B AJ2 4KM141 4KM151
350 - ARR SEL PWRD B AL2 4KM141 4KM151
137 + LOAD INTERRUPT OR RST AM6 4KM141 4KM151
217 - LSR INTERCHANGE PULSE AN6 4KM141 4KM151
252 - SDBO 8-15 P BIT AS2 4KM111 4KM151
527 + CPU HDB ADDR 1 KL131-BA6
535 + CPU HDB ADDR 2 KL131-BB6
258 + CPU HDB ADDR 4 KL131-BC6
*** KM121 ***
317 + INT 0 PH KM102-AA2
321 + INT 1 PH KM161-AB2
554 + SEL IAR-ARR INT 0 AG2
245 + SYSTEM RESET AU2 4KM141 4KM151
266 - Q BIT 1 PWRD KM171-BA6
*** KM131 ***
325 + INT 2 PH KM161-AA2
329 + INT 3 PH KM161-AB2
272 - Q BIT 2 PWRD KM171-BA6
278 - Q BIT 3 PWRD KM171-BB6

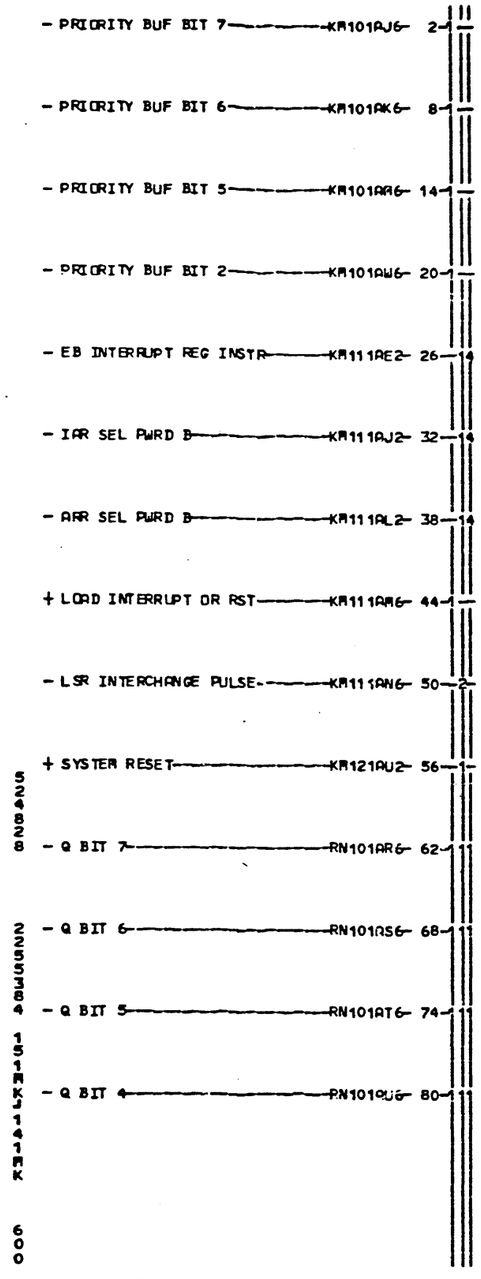
A. SIM TO PN EC 830225
B. SIM TO PN EC 830225
C. SIM TO PN EC 830225
D. SIM TO PN EC 830225

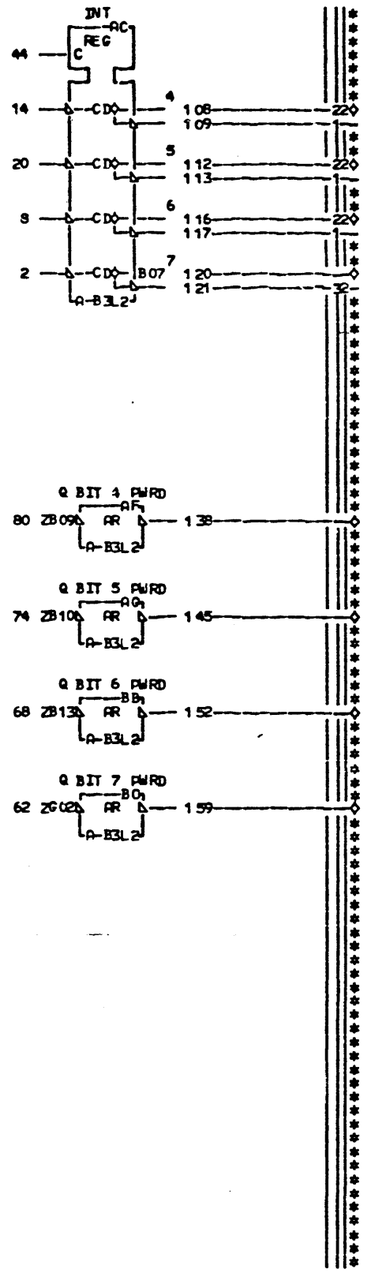
LOC. TYPE
A-B3L2 BE02

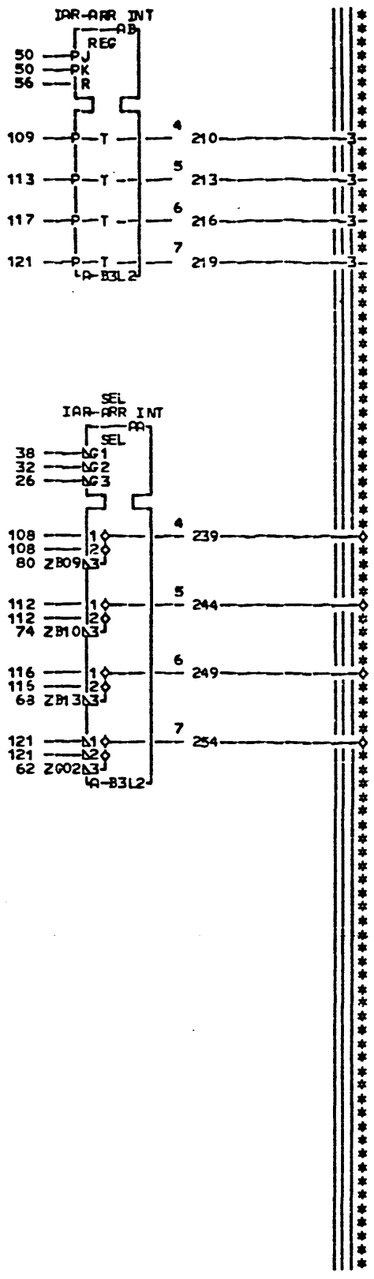
PAGE	VER	EC LEV
KM101	006	828425
KM111	006	828425
KM121	006	828425
KM131	006	828425

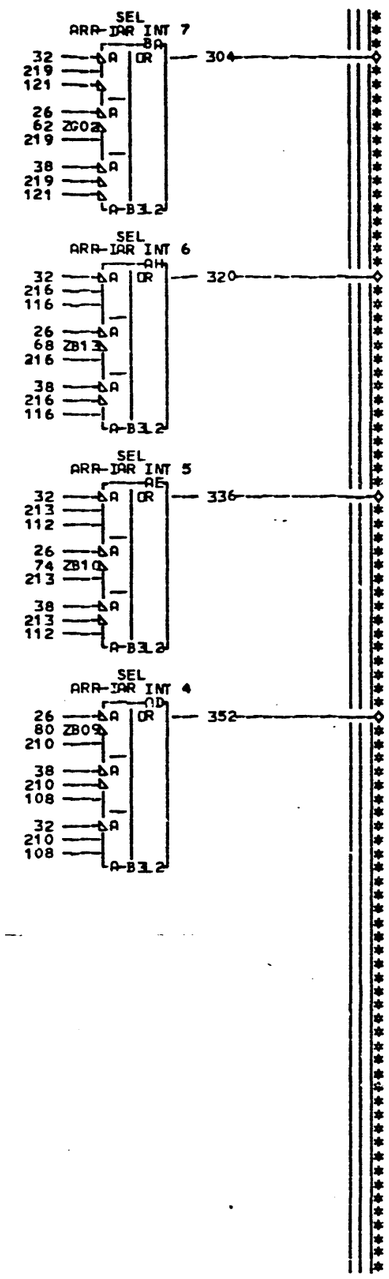
F KM101
S
I KM131
U
P 006

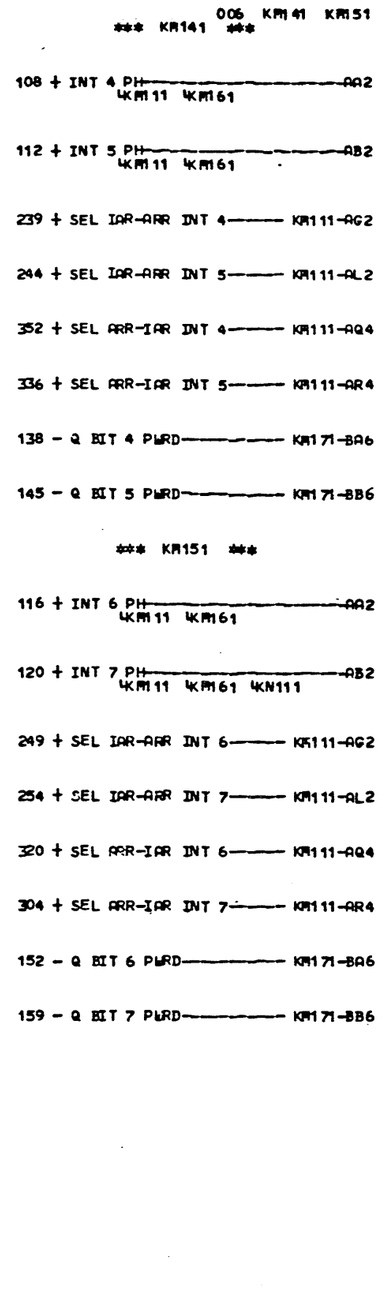
INTERRUPT CARD
INTERRUPT BUFFER
E.C.-HISTORY E. MACH. CPU15FST
FRAME 01 KM101
IBM CORP.RO KM131
DATE 05-09-77 LAST EC 828425 P.N. 4835521 006











A.SIM TO PN EC 830225
B.SIM TO PN EC 830225

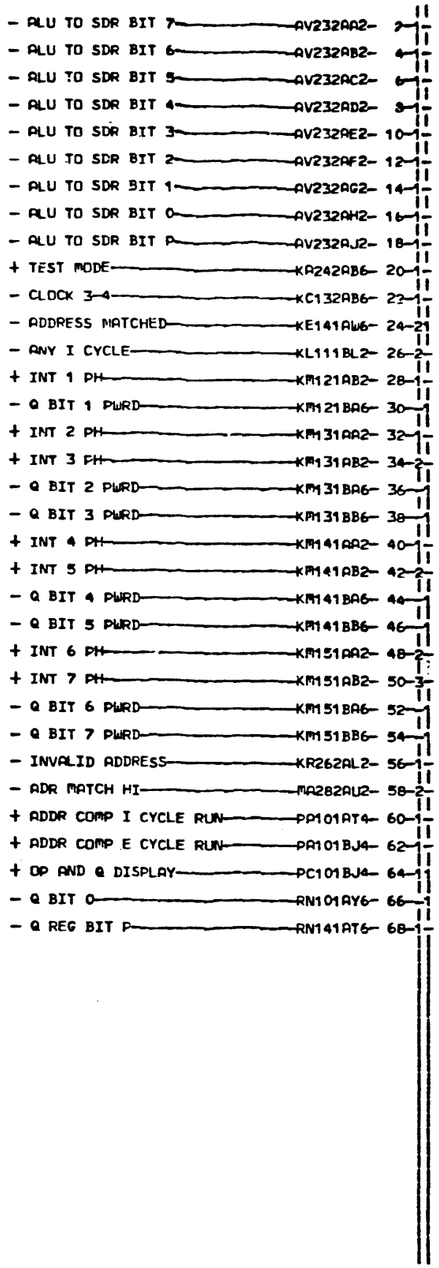
LOC. TYPE
A-B3L2 BE02

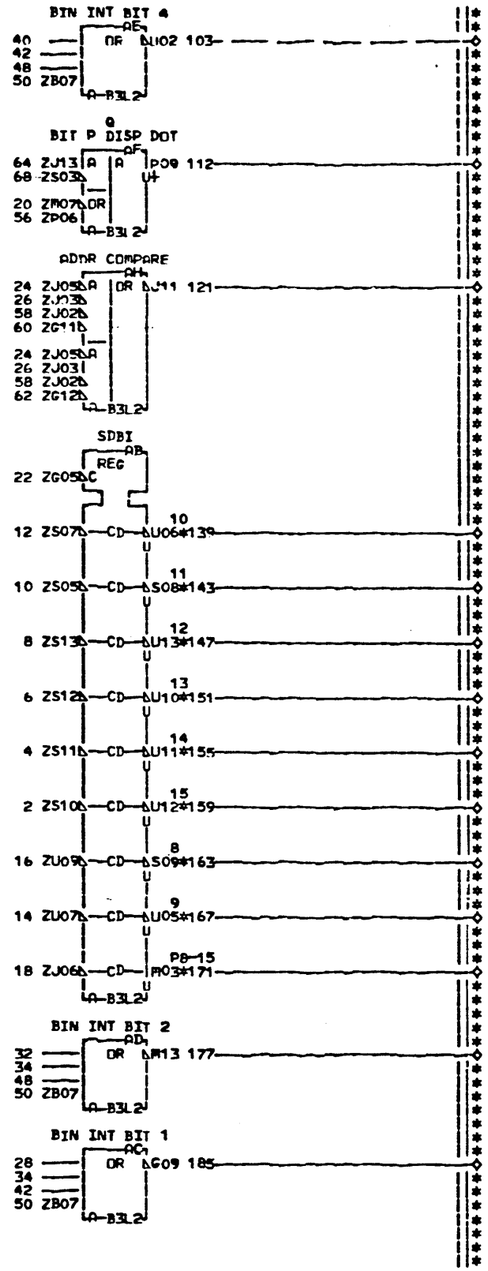
PAGE VER EC LEV
KM141 006 828425
KM151 006 828425

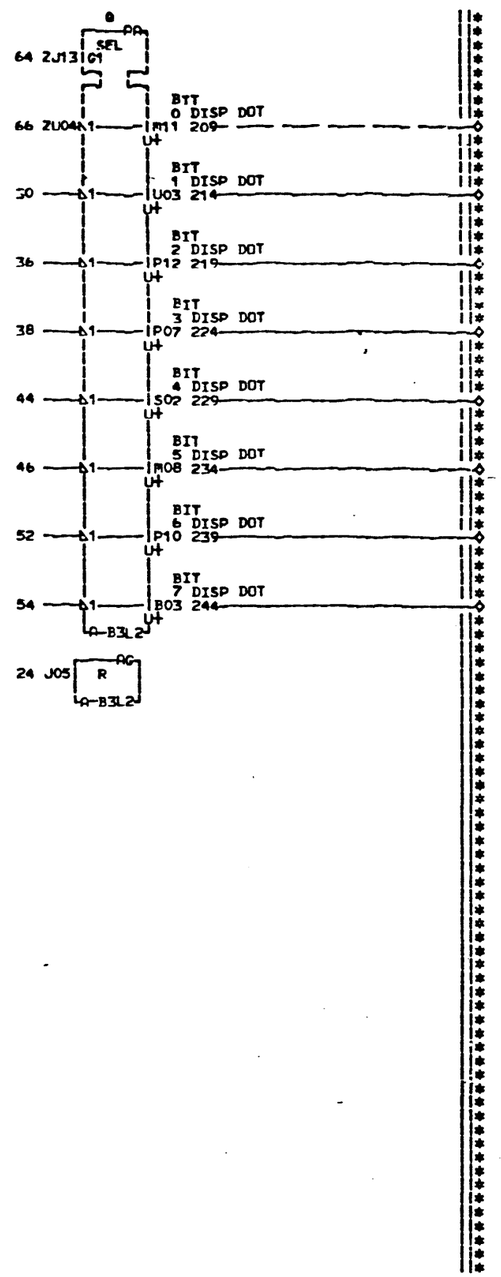
F KM141
I KM151
L 006

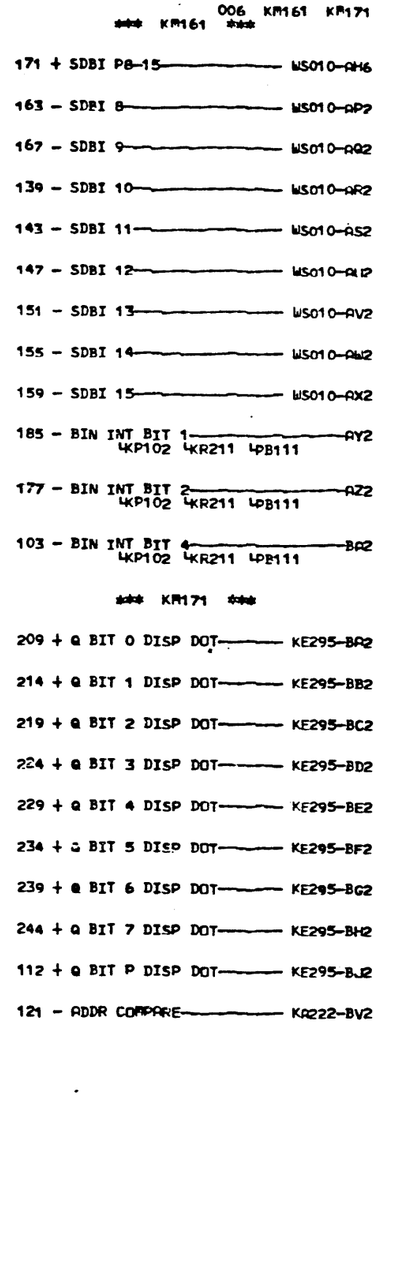
INTERRUPT CARD
IAR-ARR LSR SELECT 4-7
E.C.-HISTORY — E.C. ARCH. CPU15FST

	FRAME 01	KM141
	IBM CORP. RO	KM151
DATE LAST EC	P.N. 4835522	006
05-09-77 828425		









A=SIM TO PN EC 830241
B=SIM TO PN EC 830225

KM161
KM171
006

EDGE CONN=

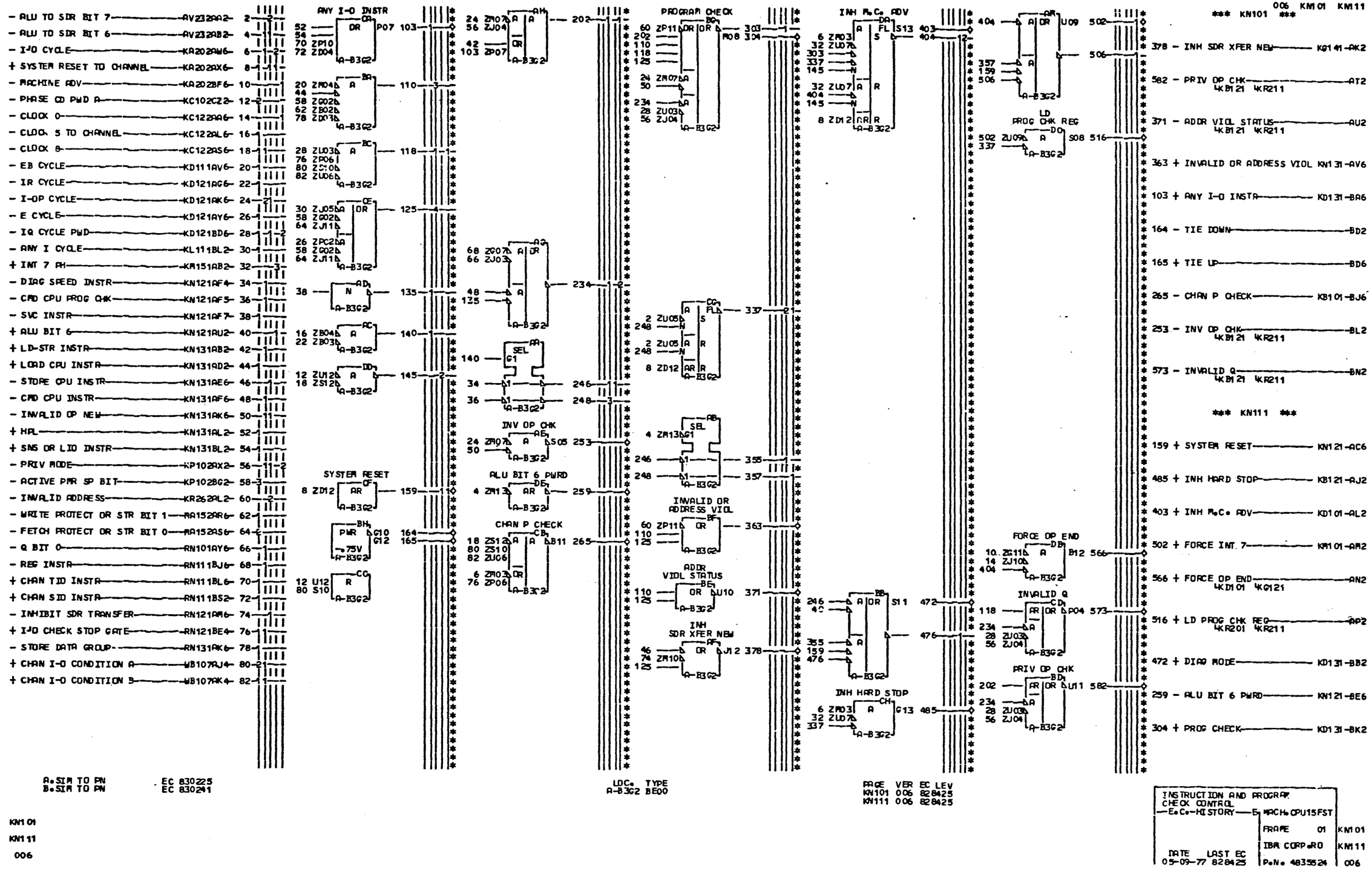
139 A-B3J6C02	01A-A4V4D10 01A-A4U4D10	01A-B4V4B12 159 A-B3K6B04
143 A-B3J6D04	01A-A4V4D09 01A-B4V4D10 01A-A4U4D10	01A-B4V4B13 01A-A4U4B13 171 A-B3K6B02
147 A-B3J6D02	01A-B4V4D09 01A-A4V4D11 01A-A4U4D11	01A-B4V4B13 163 A-B3J6B04 01A-A4V4B10 01A-B4V4D11 01A-A4U4B10 155 A-B3K6A04 01A-B4V4B10 01A-A4V4B12 01A-A4U4B12 167 A-B3J6C04
	01A-A4V4B09 01A-A4U4D09 01A-B4V4D09 01A-A4U4D09 01A-B4V4D09 01A-A4V4B10 01A-B4V4B10	01A-A4U4B09 01A-B4V4B09 01A-A4U4B09 01A-B4V4B09 01A-A4V4D13 01A-A4U4D13 01A-B4V4D13 01A-A4V4B08 01A-A4U4B08 01A-B4V4B08

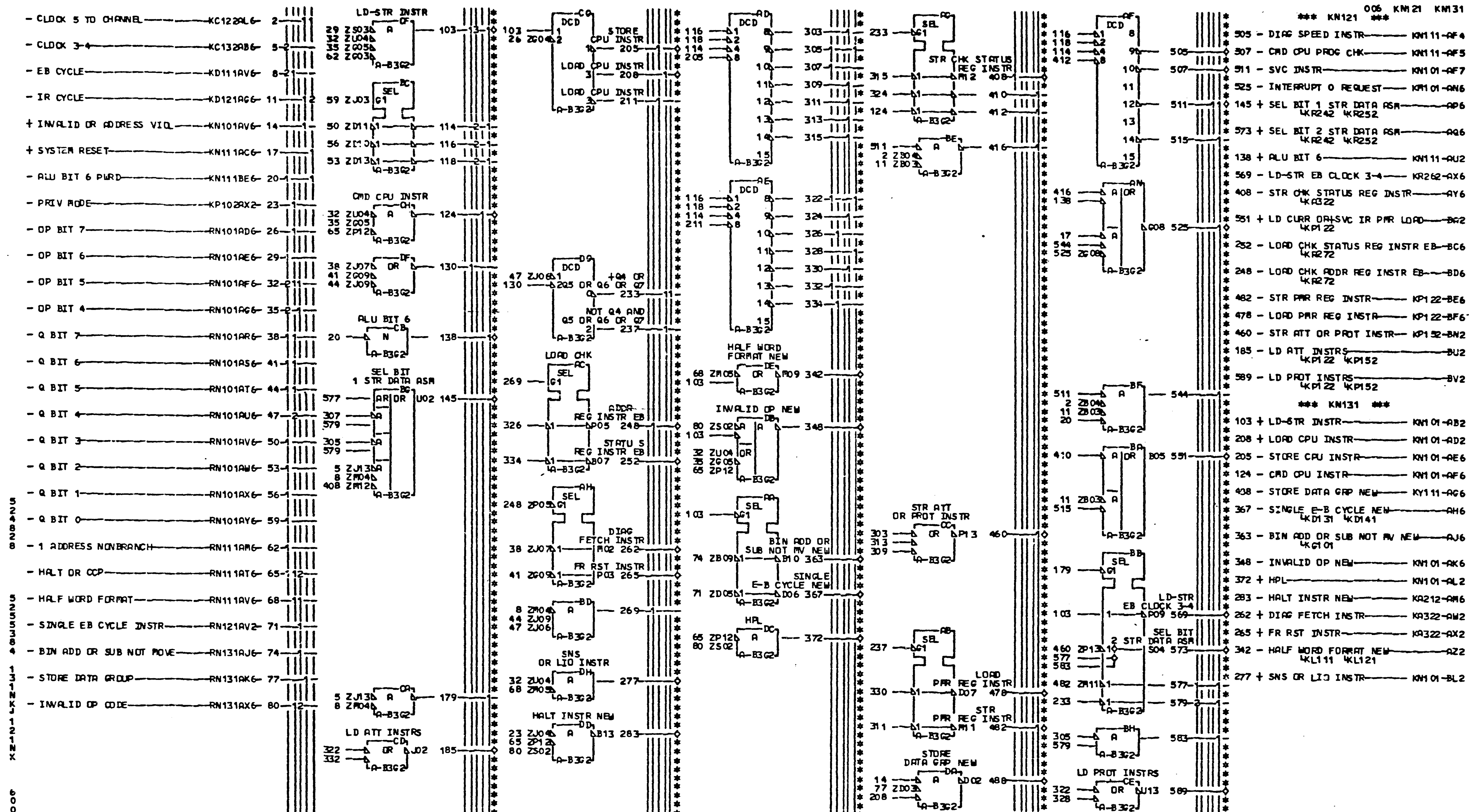
LOC= TYPE
A-B3L2 BE02

PAGE VER EC LEV
KM161 006 828425
KM171 006 828457

INTERRUPT CARD
ALU REGISTER FOR "S
E=C=-HISTORY- E=MACH=CPU15FST
828425

DATE LAST EC	FRAME 01	KM161
10-06-77 828457	IBM CORP=RO	KM171
	P=N= 4835523	006


- ALU TO SDR BIT 7 AV232AA2
- ALU TO SDR BIT 6 AV232AB2
- I/O CYCLE KA202AW6
+ SYSTEM RESET TO CHANNEL KA202AX6
- MACHINE ADV KA202BF6
- PHASE CD PWD A KC102CZ2
- CLOCK 0 KC122AA6
- CLOCK 5 TO CHANNEL KC122AL6
- CLOCK 8 KC122AS6
- EB CYCLE KD111AV6
- IR CYCLE KD121AG6
- I-OP CYCLE KD121AK6
- E CYCLE KD121AY6
- IQ CYCLE PWD KD121BD6
- ANY I CYCLE KL111BL2
+ INT 7 PH KM151AB2
- DIAG SPEED INSTR KN121AF4
- CPD CPU PROG CHK KN121AF5
- SVC INSTR KN121AF7
+ ALU BIT 6 KN121AU2
+ LD-STR INSTR KN131AB2
+ LOAD CPU INSTR KN131AD2
- STORE CPU INSTR KN131AE6
- CPD CPU INSTR KN131AF6
- INVALID OP NEW KN131AK6
+ HPL KN131AL2
+ SNS OR LID INSTR KN131BL2
- PRIV MODE KP102AX2
- ACTIVE PWR SP BIT KP102BG2
- INVALID ADDRESS KR262AL2
- WRITE PROTECT OR STR BIT 1 MA152AR6
- FETCH PROTECT OR STR BIT 0 MA152AS6
- Q BIT 0 RN101AY6
- REG INSTR RN111BJ6
+ CHAN TID INSTR RN111BL6
+ CHAN SID INSTR RN111BS2
- INHIBIT SDR TRANSFER RN121AM6
+ I/O CHECK STOP GATE RN121BE4
- STORE DATA GROUP RN131AK6
+ CHAN I-O CONDITION A WB107AJ4
+ CHAN I-O CONDITION B WB107AK4
5248 - 4255384 - 1111NK1101NK 600
ANY I-O INSTR
SYSTEM RESET
PROGRAM CHECK
INH MACH ADV
LD PROG CHK REG
INV OP CHK
ALU BIT 6 PWRD
CHAN P CHECK
INVALID OR ADDRESS VIOL
ADDR VIOL STATUS
INH SDR XFER NEW
FORCE OP END
INVALID Q
PRIV OP CHK
INH HARD STOP
006 KM101 KM111
*** KN101 ***
378 - INH SDR XFER NEW KB141-AK2
582 - PRIV OP CHK 4KB121 4KR211 AT2
371 - ADDR VIOL STATUS 4KB121 4KR211 AU2
363 + INVALID OR ADDRESS VIOL KN131-AV6
103 + ANY I-O INSTR KD131-BA6
164 - TIE DOWN BD2
165 + TIE UP BD6
265 - CHAN P CHECK KB101-BJ6
253 - INV OP CHK 4KB121 4KR211 BL2
573 - INVALID Q 4KB121 4KR211 BN2
*** KN111 ***
159 + SYSTEM RESET KN121-AC6
485 + INH HARD STOP KB121-AJ2
403 + INH MACH ADV KD101-AL2
502 + FORCE INT 7 KM101-AM2
566 + FORCE OP END 4KD101 4KG121 AN2
516 + LD PROG CHK REG 4KR201 4KR211 AP2
472 + DIAG MODE KD131-BB2
259 - ALU BIT 6 PWRD KN121-BE6
304 + PROG CHECK KD131-BK2
A. SIM TO PN EC 830225
B. SIM TO PN EC 830241
LDC. TYPE A-B3G2 BE00
PAGE VER EC LEV
KN101 006 828425
KN111 006 828425
FSUP KN101 KN111 006
INSTRUCTION AND PROGRAM CHECK CONTROL
E.C. HISTORY
MACH. CPU15FST
FRAME 01 KM101
IBM CORP. RO KM111
DATE LAST EC
05-09-77 828425
P.N. 4835524 006



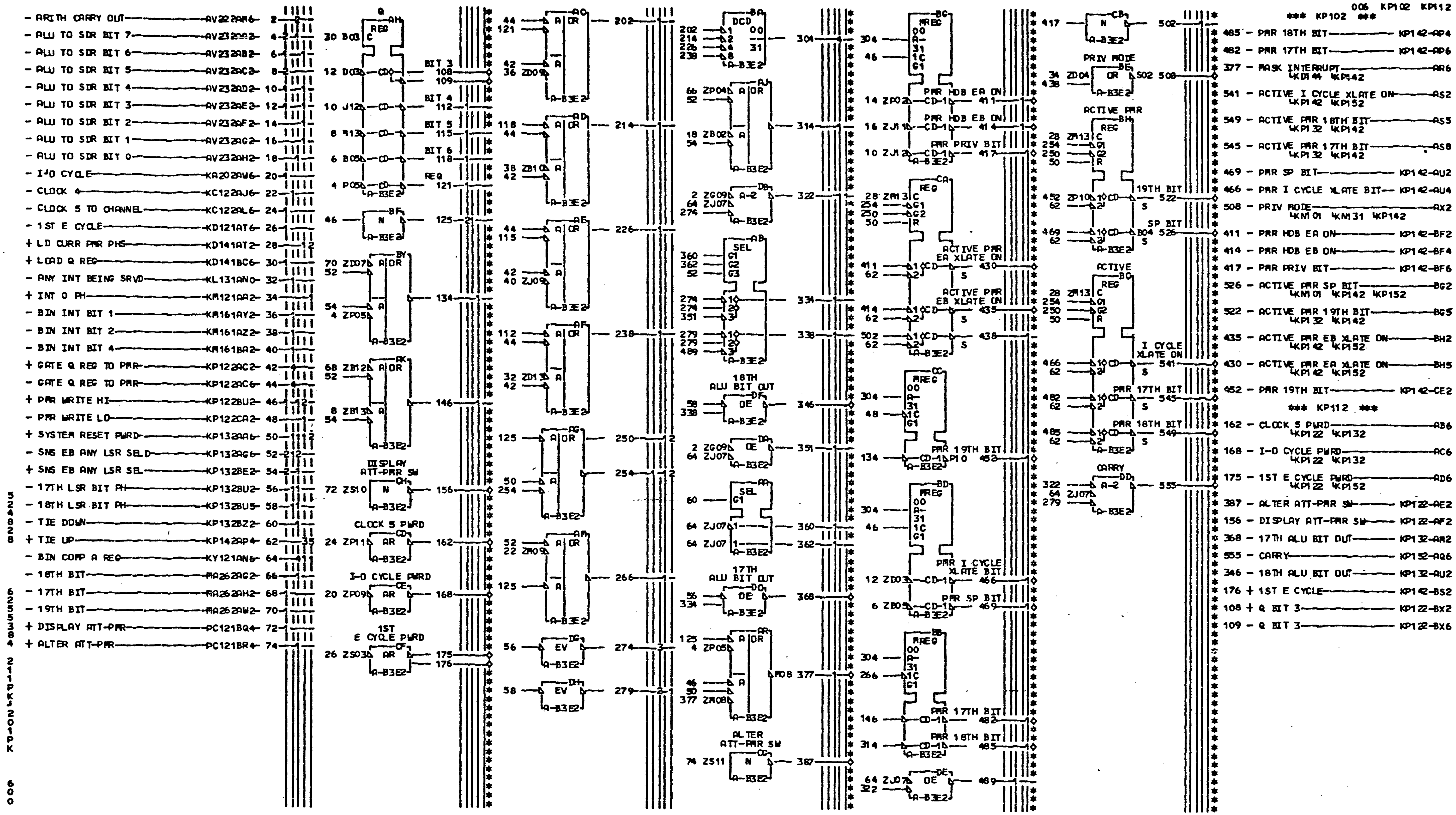
A.SIM TO PN EC 830225
B.SIM TO PN EC 830225

LOC. TYPE
A-B3G2 BE00

PAGE VER EC LEV
KN121 006 828425
KN131 006 828425

F KN121
5 KN131
1
U
P 006

INSTRUCTION AND PROGRAM CHECK CONTROL		
E.C. HISTORY	MACH. CPU15FST	
	FRAME 01	KN121
	IBM CORP.RO	KN131
DATE 05-09-77 LAST EC 828425	P.N. 4835525	006


*** KP102 ***
- ARITH CARRY OUT AV22 2AM6 2
- ALU TO SDR BIT 7 AV232AA2 4
- ALU TO SDR BIT 6 AV232AB2 6
- ALU TO SDR BIT 5 AV232AC2 8
- ALU TO SDR BIT 4 AV232AD2 10
- ALU TO SDR BIT 3 AV232AE2 12
- ALU TO SDR BIT 2 AV232AF2 14
- ALU TO SDR BIT 1 AV232AG2 16
- ALU TO SDR BIT 0 AV232AH2 18
- I-O CYCLE KA202AM6 20
- CLOCK 4 KC122AJ6 22
- CLOCK 5 TO CHANNEL KC122AL6 24
- 1ST E CYCLE KD121AT6 26
+ LD CURR PAR PHS KD141AT2 28
+ LOAD Q REG KD141BC6 30
- ANY INT BEING SRVD KL131AN0 32
+ INT 0 PH KM121AA2 34
- BIN INT BIT 1 KM161AY2 36
- BIN INT BIT 2 KM161AZ2 38
- BIN INT BIT 4 KM161BA2 40
+ GATE Q REG TO PAR KP122AC2 42
- GATE Q REG TO PAR KP122AC6 44
+ PAR WRITE HI KP122BU2 46
- PAR WRITE LO KP122CA2 48
+ SYSTEM RESET PWRD KP132AA6 50
- SNS EB ANY LSR SELD KP132AG6 52
+ SNS EB ANY LSR SEL KP132BE2 54
- 17TH LSR BIT PH KP132BU2 56
- 18TH LSR BIT PH KP132BU5 58
- TIE DOWN KP132BZ2 60
+ TIE UP KP142AP4 62
- BIN COMP A REG KY121AN6 64
- 18TH BIT MA262AG2 66
- 17TH BIT MA262AH2 68
- 19TH BIT MA262AW2 70
+ DISPLAY ATT-PAR PC121BQ4 72
+ ALTER ATT-PAR PC121BR4 74
Q REG AH
BIT 3 BIT 4 BIT 5 BIT 6 REQ
DISPLAY ATT-PAR SW
CLOCK 5 PWRD
I-O CYCLE PWRD
1ST E CYCLE PWRD
DCD SEL
18TH ALU BIT OUT
17TH ALU BIT OUT
ALTER ATT-PAR SW
PAR HDB EA ON
PAR HDB EB ON
PAR PRIV BIT
ACTIVE PAR EA XLATE ON
ACTIVE PAR EB XLATE ON
PAR 19TH BIT
PAR I CYCLE XLATE BIT
PAR SP BIT
PAR 17TH BIT
PAR 18TH BIT
PRIV MODE
ACTIVE PAR
19TH BIT
SP BIT
I CYCLE XLATE ON
CARRY
485 - PAR 18TH BIT KP142-AP4
482 - PAR 17TH BIT KP142-AP6
377 - MASK INTERRUPT 4KD144 4KP142 AR6
541 - ACTIVE I CYCLE XLATE ON 4KP142 4KP152 AS2
549 - ACTIVE PAR 18TH BIT 4KP132 4KP142 AS5
545 - ACTIVE PAR 17TH BIT 4KP132 4KP142 AS8
469 - PAR SP BIT KP142-AU2
466 - PAR I CYCLE XLATE BIT KP142-AU4
508 - PRIV MODE 4KM101 4KM131 4KP142 AX2
411 - PAR HDB EA ON KP142-BF2
414 - PAR HDB EB ON KP142-BF4
417 - PAR PRIV BIT KP142-BF6
526 - ACTIVE PAR SP BIT 4KM101 4KP142 4KP152 BG2
522 - ACTIVE PAR 19TH BIT 4KP132 4KP142 BG5
435 - ACTIVE PAR EB XLATE ON 4KP142 4KP152 BH2
430 - ACTIVE PAR EA XLATE ON 4KP142 4KP152 BH5
452 - PAR 19TH BIT KP142-CE2
*** KP112 ***
162 - CLOCK 5 PWRD 4KP122 4KP132 AB6
168 - I-O CYCLE PWRD 4KP122 4KP132 AC6
175 - 1ST E CYCLE PWRD 4KP122 4KP152 AD6
387 - ALTER ATT-PAR SW KP122-AE2
156 - DISPLAY ATT-PAR SW KP122-AF2
368 - 17TH ALU BIT OUT KP132-AM2
555 - CARRY KP152-AQ6
346 - 18TH ALU BIT OUT KP132-AU2
176 + 1ST E CYCLE KP142-BS2
108 + Q BIT 3 KP122-BX2
109 - Q BIT 3 KP122-BX6

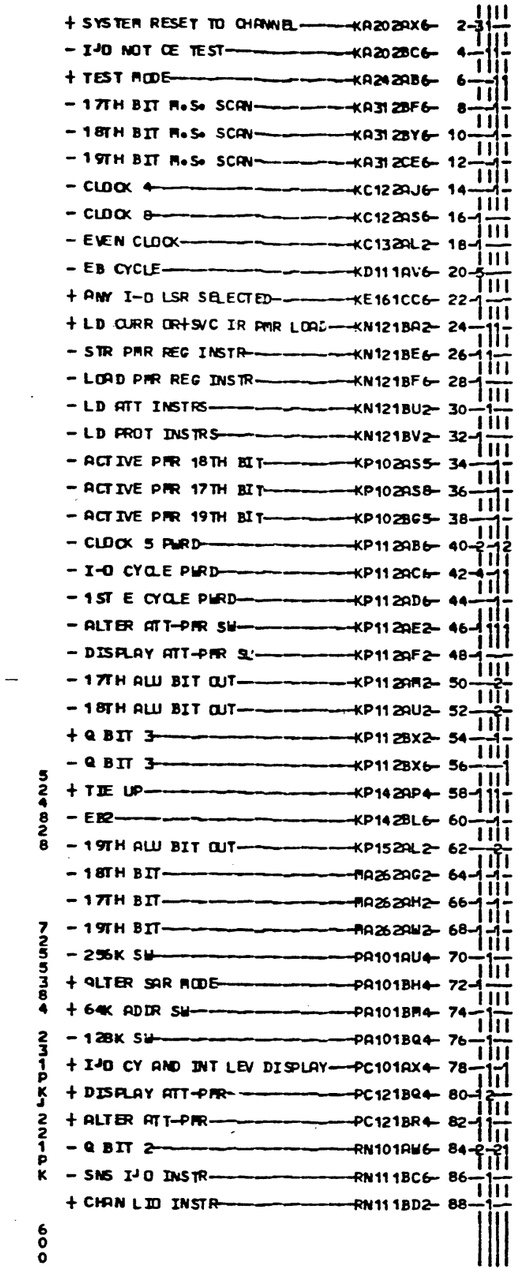
A=SIR TO PN EC 830225
B=SIR TO PN EC 830225

LOC. TYPE
A-B3E2 BE04

PAGE VER EC LEV
KP102 006 828425
KP112 006 828425

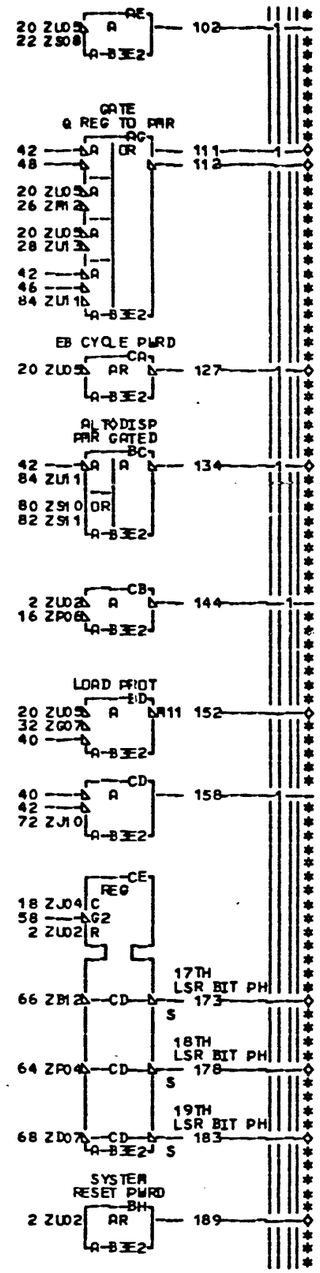
F KP102
S KP112
U
P 006

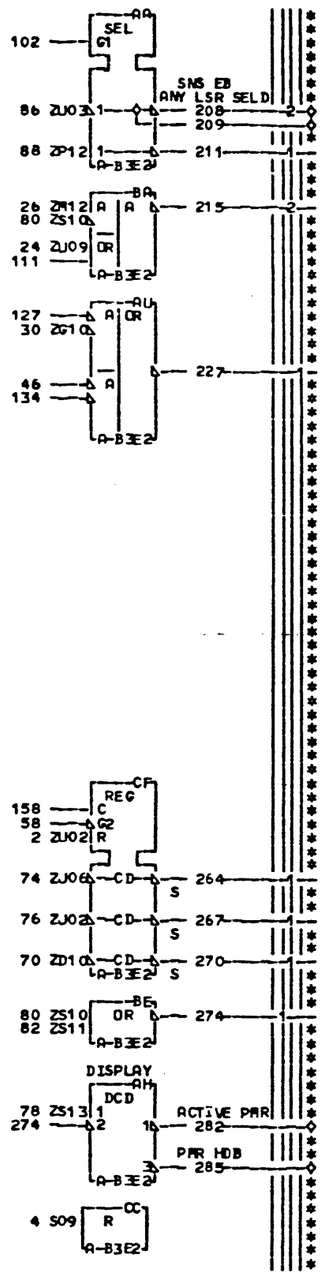
PAR CARD		
E.C.-HISTORY	MACH. CPU15FST	
	FRAME 01	KP102
DATE 05-09-77 LAST EC 828423	IBM CORP. RO	KP112
	P.N. 4835526	006



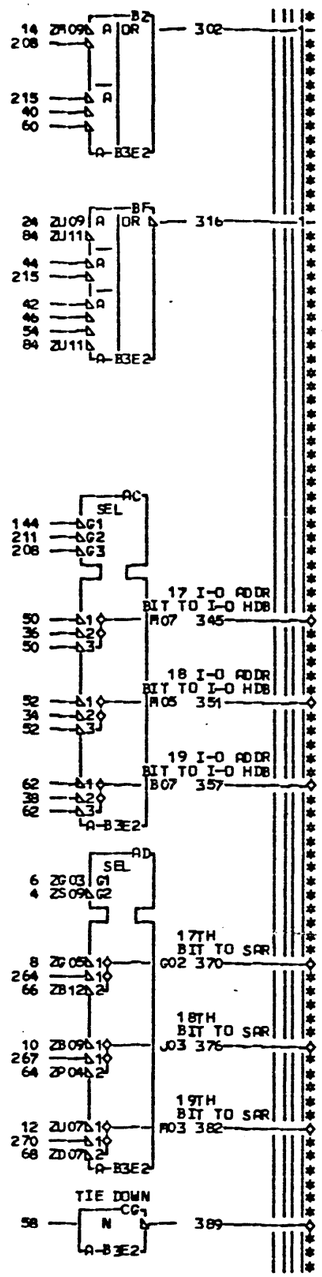
A. SIM TO PN EC 830225
B. SIM TO PN EC 830225

F 51 UP KP122 KP132 006

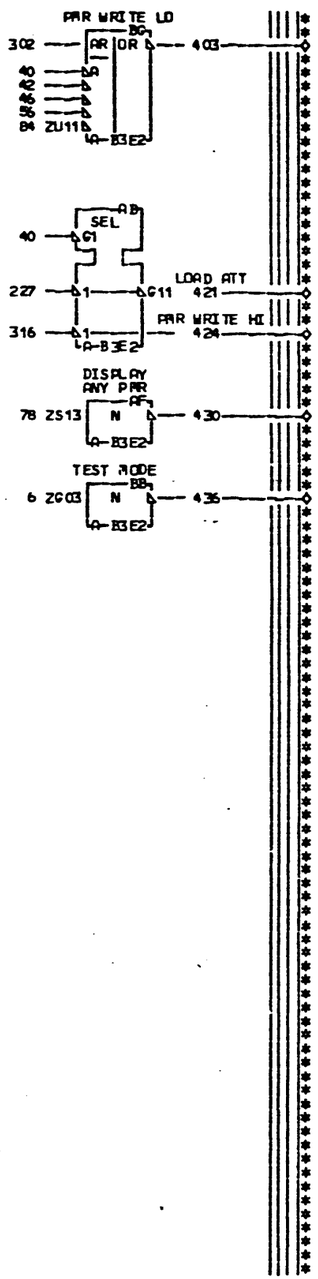




LOC. TYPE
A-B3E2 BE04



PAGE VER SC LEV
KP122 006 828425
KP132 006 828425



PAR CARD
E.C. HISTORY — E. MACH. CPU15FST
FRAME 01 KP122
IBM CORP. RO KP132
DATE LAST EC
05-09-77 828425
P.N. 4835527 006

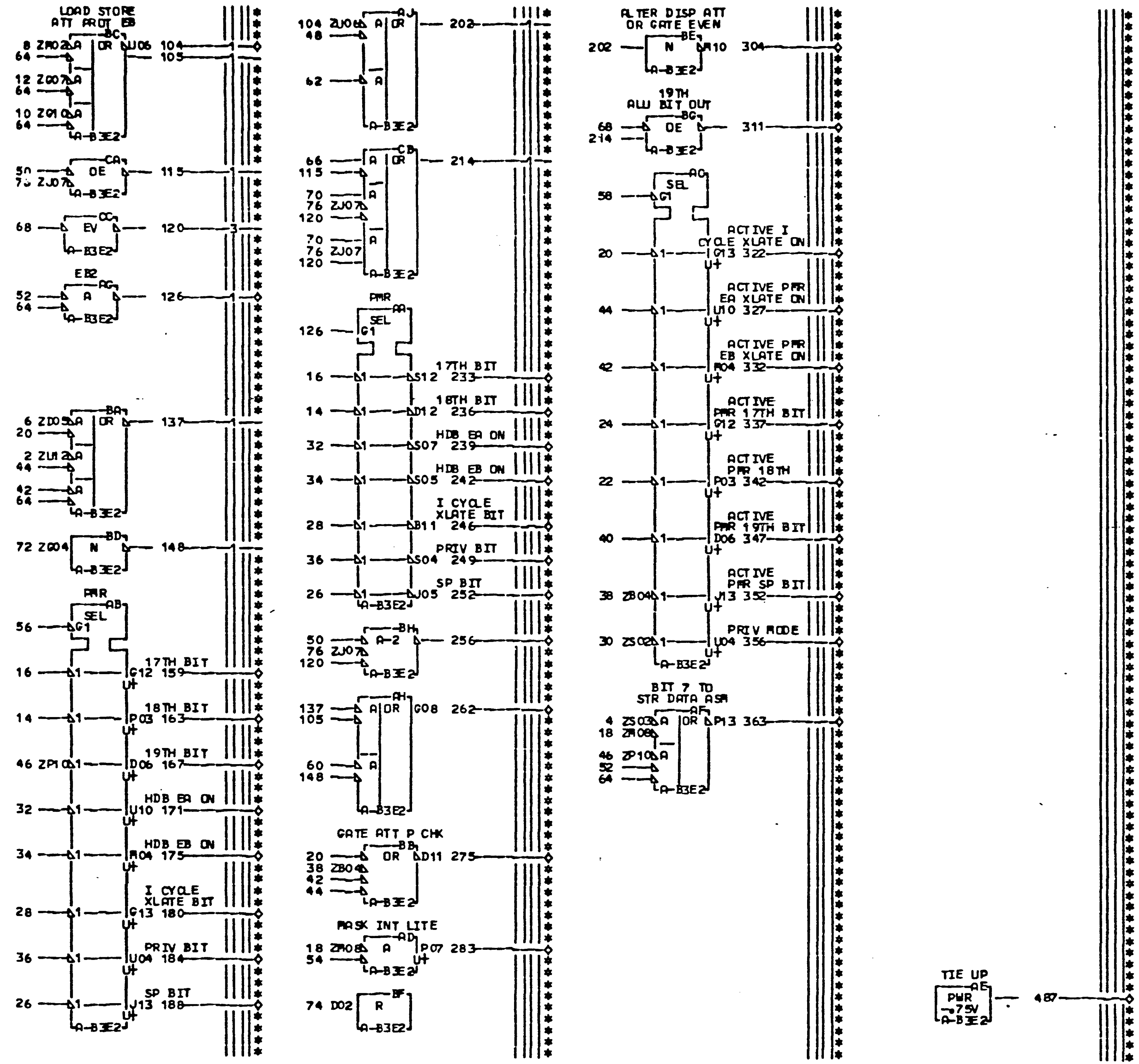
Signal	Source	Pin
- EA CYCLE	KD121AN6	2
- 1ST E CYCLE	KD121AT6	4
- ANY I CYCLE	KL111BL2	6
- STR ATT OR PROT INSTR	KN121BN2	8
- LD ATT INSTRS	KN121BU2	10
- LD PROT INSTRS	KN121BV2	12
- PMR 18TH BIT	KP102AP4	14
- PMR 17TH BIT	KP102AP6	16
- MASK INTERRUPT	KP102AR6	18
- ACTIVE I CYCLE XLATE ON	KP102AS2	20
- ACTIVE PMR 18TH BIT	KP102AS5	22
- ACTIVE PMR 17TH BIT	KP102AS8	24
- PMR SP BIT	KP102AU2	26
- PMR I CYCLE XLATE BIT	KP102AU4	28
- PRIV MODE	KP102AX2	30
- PMR HDB EA ON	KP102BF2	32
- PMR HDB EB ON	KP102BF4	34
- PMR PRIV BIT	KP102BF6	36
- ACTIVE PMR SP BIT	KP102BG2	38
- ACTIVE PMR 19TH BIT	KP102BG5	40
- ACTIVE PMR EB XLATE ON	KP102BH2	42
- ACTIVE PMR EA XLATE ON	KP102BH5	44
- PMR 19TH BIT	KP102CE2	46
- 1ST E CYCLE PWRD	KP112AD6	48
- CARRY	KP112AQ6	50
+ 1ST E CYCLE	KP112BS2	52
- DISPLAY ANY PMR	KP122AB2	54
- DISPLAY PMR HDB	KP122AH6	56
- DISPLAY ACTIVE PMR	KP122AJ6	58
- TEST MODE	KP122AM2	60
- ALTDISP PMR GATED	KP122AT6	62
- EB CYCLE PWRD	KP132AD6	64
- SNS EB ANY LSR SELD	KP132AG6	66
- 19TH LSR BIT PH	KP132BU8	68
- TIE DOWN	KP132BZ2	70
+ ATT T.P.	KP152003	72
CE TERMINATOR	KP152004	74
- BIN COMP A REG	KY121AN6	76

524828

8253384

251PKJ241PK

600



*** KP142 ***

Pin	Signal	Destination
322	+ ACTIVE I CYCLE XLATE ON	KE295-AA2
180	+ PMR I CYCLE XLATE BIT	KE295-AB2
352	+ ACTIVE PMR SP BIT	KE295-AC2
188	+ PMR SP BIT	KE295-AD2
337	+ ACTIVE PMR 17TH BIT	KE295-AE2
159	+ PMR 17TH BIT	KE295-AF2
184	+ PMR PRIV BIT	KE295-AK2
283	+ MASK INT LITE	KE295-AL2
487	+ TIE UP (4KP102 4KP132)	AP4
327	+ ACTIVE PMR EA XLATE ON	KE295-AQ2
171	+ PMR HDB EA ON	KE295-AR2
332	+ ACTIVE PMR EB XLATE ON	KE295-AT2
175	+ PMR HDB EB ON	KE295-AU2
356	+ PRIV MODE	KE295-AW2
342	+ ACTIVE PMR 18TH	KE295-BA2
163	+ PMR 18TH BIT	KE295-BB2
347	+ ACTIVE PMR 19TH BIT	KE295-BD2
167	+ PMR 19TH BIT	KE295-BE2
363	- BIT 7 TO STR DATA ASM	KR252-BJ2
126	- EB2	KP122-BL6
236	- PMR 18TH BIT	KR242-BM6
252	- PMR SP BIT	KR252-BN6
246	- PMR I CYCLE XLATE BIT	KR242-BP6
249	- PMR PRIV BIT	KR252-BQ6
233	- PMR 17TH BIT	KR252-BR6
239	- PMR HDB EA ON	KR242-BS6
242	- PMR HDB EB ON	KR242-BT6

*** KP152 ***

Pin	Signal	Destination
275	- GATE ATT P CHK	KB101-AD2
104	- LOAD STORE ATT PROT EB	MA142-AE6
304	- ALTER DISP ATT OR GATE EVEN (4MA142)	AG2
262	+ XLATE GATE (4MA122 4MA282)	AH2
311	- 19TH ALU BIT OUT	KP132-AL2
256	NOT USED	AM6

A.SIM TO PN EC 830225
B.SIM TO PN EC 830225

LOC. TYPE
A-B3E2 BE04

PAGE VER EC LEV
KP142 006 828425
KP152 006 828425

F51UP KP142 KP152 006

PMR CARD		
E.C.-HISTORY	MACH. CPU15FST	
	FRAME 01	KP142
	IBM CORP.RO	KP152
DATE 05-09-77 LAST EC 828425	P.N. 4835528	006

- ALU TO SDR BIT 7 — AV23 AA2 — 2 — 121
- ALU TO SDR BIT 6 — AV23 AB2 — 3 — 2
- ALU TO SDR BIT 5 — AV23 AC2 — 5 — 2 2
- ALU TO SDR BIT 4 — AV23 AD2 — 6 — 2
- ALU TO SDR BIT 3 — AV23 AE2 — 8 — 112
- ALU TO SDR BIT 2 — AV23 AF2 — 9 — 121
- ALU TO SDR BIT 1 — AV23 AG2 — 11 — 121
- ALU TO SDR BIT 0 — AV23 AH2 — 12 — 112
- RDC CHECK — KA32 AH6 — 14 — 1
- UNCORRECTABLE LTH — KA32 AJ6 — 15 — 1
- CORRECTABLE LTH — KA32 AK6 — 17 — 1
+ BLOCK SDBO CK — KA32 AW6 — 18 — 1
- ANY INT BEING SRVD — KL13 1AN0 — 20 — 1
- BIN INT BIT 1 — KM16 1AY2 — 21 — 1
- BIN INT BIT 2 — KM16 1AZ2 — 23 — 1
- BIN INT BIT 4 — KM16 1BA2 — 24 — 1
- PRIV OP CHK — KN10 1AT2 — 26 — 1
- ADDR VIOL STATUS — KN10 1AU2 — 27 — 1
- INV OP CHK — KN10 1BL2 — 29 — 1
- INVALID Q — KN10 1BN2 — 30 — 1
+ LD PROG CHK REG — KN11 1AP2 — 32 — 4
- INVALID ADDRESS — KR26 2AL2 — 33 — 1
- MSAR 1 PWRD — KR26 2AP6 — 35 — 1
- MSAR 0 PWRD — KR26 2AQ6 — 36 — 1
- MSAR E15 PWRD — KR26 2AR6 — 38 — 1
- MSAR E14 PWRD — KR26 2AT6 — 39 — 1
- MSAR E13 PWRD — KR26 2AY6 — 41 — 1
- SEL CHK STATUS REG LO — KR27 2AD6 — 42 — 6
- SEL CHK STATUS REG HI — KR27 2AE6 — 44 — 6
- SEL CHK ADDR REG LO — KR27 2AF6 — 45 — 42
- SEL CHK ADDR REG HI — KR27 2AG6 — 47 — 24
+ LD CHK ADDR REG HI — KR27 2AH2 — 48 — 1
+ LD CHK ADDR REG LO — KR27 2AJ2 — 50 — 1
+ LD CHK STATUS REG HI — KR27 2AK2 — 51 — 1
+ LD CHK STATUS REG LO — KR27 2AL2 — 53 — 1
- MSAR 2 — MA12 2BA4 — 54 — 1
- MSAR 3 — MA12 2BB4 — 56 — 1
- MSAR 4 — MA12 2BC4 — 57 — 1
- SAR 5 — MA12 7AA2 — 59 — 1
- SAR 6 — MA12 7AB2 — 60 — 1
- SAR 7 — MA12 7AC2 — 62 — 1
- SAR 8 — MA12 7AD2 — 63 — 1
- SAR 9 — MA12 7AE2 — 65 — 1
- SAR 10 — MA12 7AF2 — 66 — 1
- SAR 11 — MA12 7AG2 — 68 — 1
- SAR 12 — MA12 7AH3 — 69 — 1
- SAR 13 — MA12 7AJ2 — 71 — 1
- SAR 14 — MA12 7AK2 — 72 — 1
- SAR 15 — MA12 7AL2 — 74 — 1
A=SIM TO PN EC 830225
B=SIM TO PN EC 830225
F 5 1 U P - 006
KR201
KR211
L
32 ZP05 51 — OR (BA, A-B3D2) — 102 — 3
TIE UP — PWR +.75V (CA, A-B3D2) — 117
32 ZP05 48 — OR (AB, A-B3D2) — 130 — 2
32 ZP05 50 — OR (AA, A-B3D2) — 144 — 24
18 ZL06 32 ZP05 53 — OR (BB, A-B3D2) — 172 — 3
CK STATUS REG HI (BH, REG C G1 G2)
102 44 44
21 ZB05 6 ZJ06 — BIT 4 — 211
20 ZB10 5 ZJ07 — BIT 5 — 215
38 3 ZP02 — BIT 6 — 219
CK STATUS REG HI (BE, REG C G1 G2)
102 44 44
41 12 ZB12 — BIT 0 — 233
117 11 ZD02 — BIT 1 — 237
CK STATUS REG HI (BO, REG C G1 G2)
102 44 44
24 ZB13 9 ZD04 — BIT 2 — 251
23 ZD17 8 ZG09 — BIT 3 — 255
39 2 ZD07 — BIT 7 — 259
CK ADDR REG HI OUT (AH, REG C G1 G2)
130 47 47
57 6 ZJ06 — BIT 4 — 273
59 5 ZJ07 — BIT 5 — 277
60 3 ZP02 — BIT 6 — 281
CK ADDR REG HI OUT (AG, REG C G1 G2)
130 47 47
35 11 ZD02 — BIT 1 — 311
54 9 ZD04 — BIT 2 — 315
CK ADDR REG LO OUT (AF, REG C G1 G2)
144 45 45
65 11 ZD02 — BIT 1 — 329
66 9 ZD04 — BIT 2 — 333
69 6 ZJ06 — BIT 4 — 337
(AE, REG C G1 G2)
130 47 47
56 8 ZG09 — LOAD PROG CHK — 349
36 12 ZB12 — CK ADDR REG HI OUT BIT 0 — 354
62 2 ZD07 — CK ADDR REG HI OUT BIT 7 — 359
CK ADDR REG LO OUT (AD, REG C G1 G2)
144 45 45
72 3 ZP02 — BIT 6 — 373
74 2 ZD07 — BIT 7 — 377
CK ADDR REG LO OUT (AC, REG C G1 G2)
144 45 45
63 12 ZB12 — BIT 0 — 411
68 8 ZG09 — BIT 3 — 415
71 5 ZJ07 — BIT 5 — 419
CK STATUS REG LO (BG, REG C G1 G2)
172 42 42
33 8 ZG09 — BIT 3 — 433
15 3 ZP02 — BIT 6 — 437
14 2 ZD07 — BIT 7 — 441
CK STATUS REG LO (BF, REG C G1 G2)
172 42 42
26 6 ZJ06 — BIT 4 — 455
17 5 ZJ07 — BIT 5 — 459
CK STATUS REG LO (BD, REG C G1 G2)
172 42 42
27 12 ZB12 — BIT 0 — 473
30 11 ZD02 — BIT 1 — 477
29 9 ZD04 — BIT 2 — 481
LOC. TYPE A-B3D2 BE05
PAGE VER EC LEV
KR201 006 828425
KR211 006 828425
006 KR201 KR211
*** KR201 ***
411 - CK ADDR REG LO OUT BIT 0 — KR22 2-AF2
415 - CK ADDR REG LO OUT BIT 3 — KR22 2-AF5
419 - CK ADDR REG LO OUT BIT 5 — KR23 2-AF8
373 - CK ADDR REG LO OUT BIT 6 — KR23 2-AG2
377 - CK ADDR REG LO OUT BIT 7 — KR23 2-AG5
354 - CK ADDR REG HI OUT BIT 0 — KR23 2-AH2
349 + LOAD PROG CHK — KR22-AH5
359 - CK ADDR REG HI OUT BIT 7 — KR23 2-AH8
329 - CK ADDR REG LO OUT BIT 1 — KR22 2-AJ2
333 - CK ADDR REG LO OUT BIT 2 — KR22 2-AJ5
337 - CK ADDR REG LO OUT BIT 4 — KR22 2-AJ8
311 - CK ADDR REG HI OUT BIT 1 — KR22 2-AL2
315 - CK ADDR REG HI OUT BIT 2 — KR22 2-AL5
273 - CK ADDR REG HI OUT BIT 4 — KR23 2-AM2
277 - CK ADDR REG HI OUT BIT 5 — KR23 2-AM5
281 - CK ADDR REG HI OUT BIT 6 — KR23 2-AM8
*** KR211 ***
251 - CK STATUS REG HI BIT 2- KR22-AE2
255 - CK STATUS REG HI BIT 3- KR22-AE5
259 - CK STATUS REG HI BIT 7- KR23 2-AE8
473 - CK STATUS REG LO BIT 0- KR22-AF2
477 - CK STATUS REG LO BIT 1- KR22-AF5
481 - CK STATUS REG LO BIT 2- KR22-AF8
233 - CK STATUS REG HI BIT 0- KR22-AG2
237 - CK STATUS REG HI BIT 1- KR22-AG5
455 - CK STATUS REG LO BIT 4- KR23 2-AJ2
459 - CK STATUS REG LO BIT 5- KR23 2-AJ5
433 - CK STATUS REG LO BIT 3- KR22-AK2
437 - CK STATUS REG LO BIT 6- KR23 2-AK5
441 - CK STATUS REG LO BIT 7- KR23 2-AK8
211 - CK STATUS REG HI BIT 4- KR23 2-AL2
215 - CK STATUS REG HI BIT 5- KR23 2-AL5
219 - CK STATUS REG HI BIT 6- KR23 2-AL8
117 + TIE UP — AS4
KR22 4KR232 4KR242 4KR252 4KR262
PROGRAM CHECK REGISTERS — E.C.-HISTORY — E. MACH. CPU15FST
FRAME 01 KR201
IBM CORP. RO KR211
DATE LAST EC 05-09-77 828425
P.N. 4835529 006

006 KR222 KR232

*** KR222 ***

312 - BIT 0 CK REG TO STR ASMBLR — AA2
4KR242

319 - BIT 1 CK REG TO STR ASMBLR — AA7
4KR242

260 - BIT 2 CK REG TO STR ASMBLR — AC2
4KR242

267 - BIT 3 CK REG TO STR ASMBLR — AC7
4KR242

*** KR232 ***

236 - BIT 4 CK REG TO STR ASMBLR — AA2
4KR252

243 - BIT 5 CK REG TO STR ASMBLR — AA7
4KR252

212 - BIT 6 CK REG TO STR ASMBLR — AC2
4KR252

219 - BIT 7 CK REG TO STR ASMBLR — AC7
4KR252

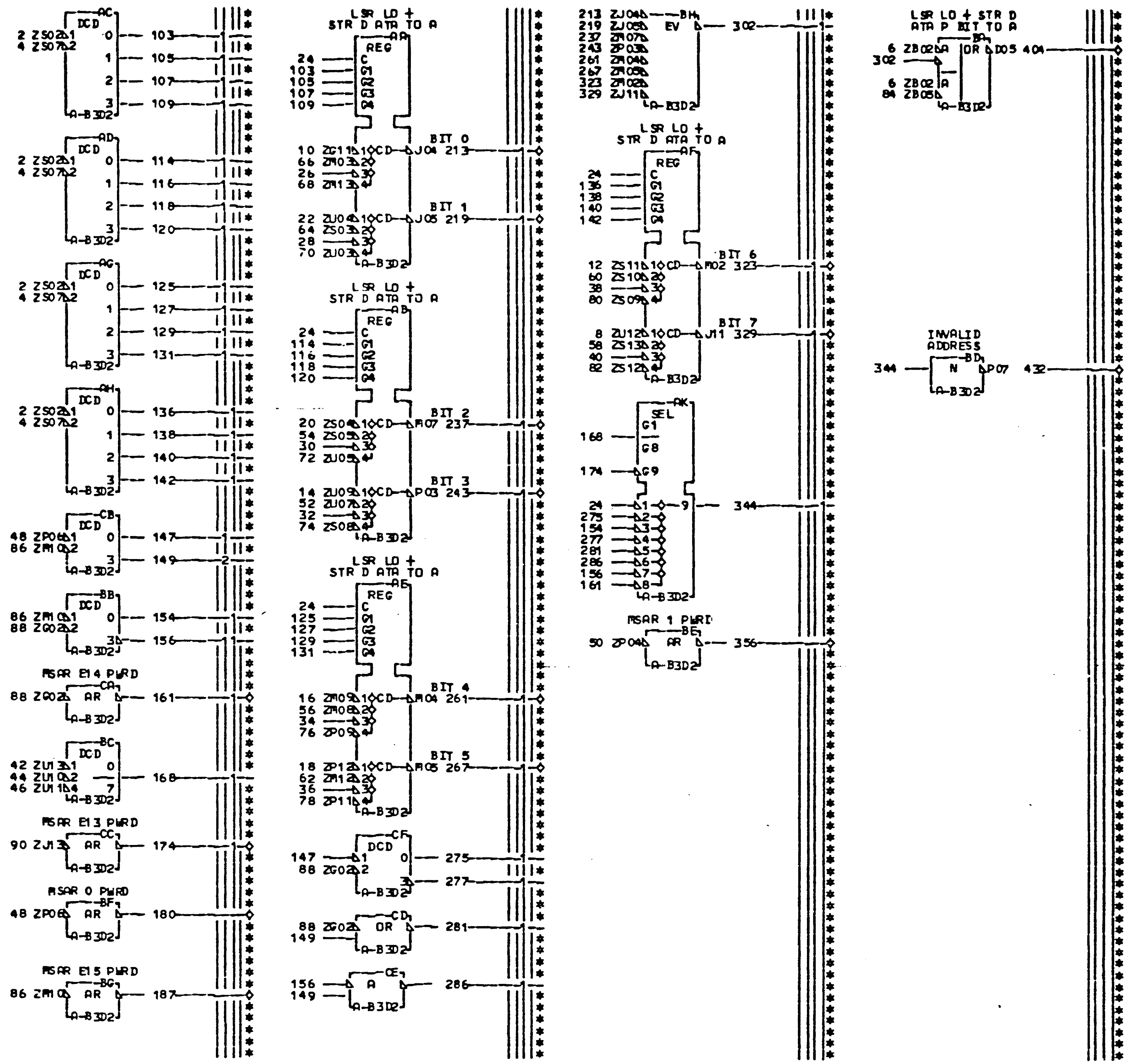
LOC. TYPE
A-B3D2 BE05

PAGE VER EC LEV
KR222 006 828425
KR232 006 828425

PROGRAM CHECK
REGISTERS AND ASSEMBLER
E.C. HISTORY — E. MACH. CPU15FST

DATE	LAST EC		
05-09-77	828425	FRAME 01	KR222
		IBM CORP. RO	KR232
		P.N. 4835530	006

+ SEL BIT 1 STR DATA ASM —— KN121AP6 - 2
+ SEL BIT 2 STR DATA ASM —— KN121AQ6 - 4
- LD-STR EB CLOCK 3-4 —— KN121AX6 - 6
- BIT 7 TO STR DATA ASM —— KP142BJ2 - 8
- PMR 18TH BIT —— KP142BR6 - 10
- PMR SP BIT —— KP142BN6 - 12
- PMR I CYCLE XLATE BIT —— KP142BP6 - 14
- PMR PRIV BIT —— KP142BQ6 - 16
- PMR 17TH BIT —— KP142BR6 - 18
- PMR HDB EA ON —— KP142BS6 - 20
- PMR HDB EB ON —— KP142BT6 - 22
+ TIE UP —— KR211AS4 - 24
- BIT 0 CK REG TO STR ASMBLR —— KR222AA2 - 26
- BIT 1 CK REG TO STR ASMBLR —— KR222AA7 - 28
- BIT 2 CK REG TO STR ASMBLR —— KR222AC2 - 30
- BIT 3 CK REG TO STR ASMBLR —— KR222AC7 - 32
- BIT 4 CK REG TO STR ASMBLR —— KR232AA2 - 34
- BIT 5 CK REG TO STR ASMBLR —— KR232AA7 - 36
- BIT 6 CK REG TO STR ASMBLR —— KR232AC2 - 38
- BIT 7 CK REG TO STR ASMBLR —— KR232AC7 - 40
+ 320◊352◊448◊512K BSM —— KR262004 - 42
+ 288◊352◊480◊512K BSM —— KR262005 - 44
+ 288◊320◊416◊512K BSM —— KR262006 - 46
- MSAR 0 —— MA122AQ4 - 48
- MSAR 1 —— MA122AR4 - 50
- STORE ATT BIT 3 —— MA152AA6 - 52
- STORE ATT BIT 2 —— MA152AB6 - 54
- STORE ATT BIT 4 —— MA152AC6 - 56
- STORE ATT BIT 7 —— MA152AD6 - 58
- STORE ATT BIT 6 —— MA152AE6 - 60
- STORE ATT BIT 5 —— MA152AF6 - 62
- WRITE PROTECT OR STR BIT 1 —— MA152AR6 - 64
- FETCH PROTECT OR STR BIT 0 —— MA152AS6 - 66
- LSR BIT 0 LD —— MB104AA4 - 68
- LSR BIT 1 LD —— MB104AB4 - 70
- LSR BIT 2 LD —— MB104AC4 - 72
- LSR BIT 3 LD —— MB104AD4 - 74
- LSR BIT 4 LD —— MB104AE4 - 76
- LSR BIT 5 LD —— MB104AF4 - 78
- LSR BIT 6 LD —— MB104AG4 - 80
- LSR BIT 7 LD —— MB104AH4 - 82
- LSR BIT P LD —— MB104AJ4 - 84
- MSAR E15 —— MB105AK4 - 86
- MSAR E14 —— MB105AL4 - 88
- MSAR E13 —— MB105AN4 - 90



*** KR242 ***

213 - LSR LD + STR DATA TO A BIT 0 — AA2 (KR101, KR121, KR131)

219 - LSR LD + STR DATA TO A BIT 1 — AA7 (KR101, KR121, KR131)

237 - LSR LD + STR DATA TO A BIT 2 — AC2 (KR101, KR121, KR131)

243 - LSR LD + STR DATA TO A BIT 3 — AC7 (KR101, KR121, KR131)

*** KR252 ***

261 - LSR LD + STR DATA TO A BIT 4 — AA2 (KR111, KR121, KR131)

267 - LSR LD + STR DATA TO A BIT 5 — AA7 (KR111, KR121, KR131)

323 - LSR LD + STR DATA TO A BIT 6 — AC2 (KR111, KR121, KR131)

329 - LSR LD + STR DATA TO A BIT 7 — AC7 (KR111, KR121, KR131)

*** KR262 ***

404 - LSR LD + STR DATA P BIT TO A — AE2 (KR111)

432 - INVALID ADDRESS —— AL2 (KB121, KG141, KM171, KN101, KR211, KY111)

356 - MSAR 1 PWRD —— KR201-AP6

180 - MSAR 0 PWRD —— KR201-AQ6

187 - MSAR E15 PWRD —— KR211-AR6

161 - MSAR E14 PWRD —— KR211-AT6

174 - MSAR E13 PWRD —— KR211-AY6

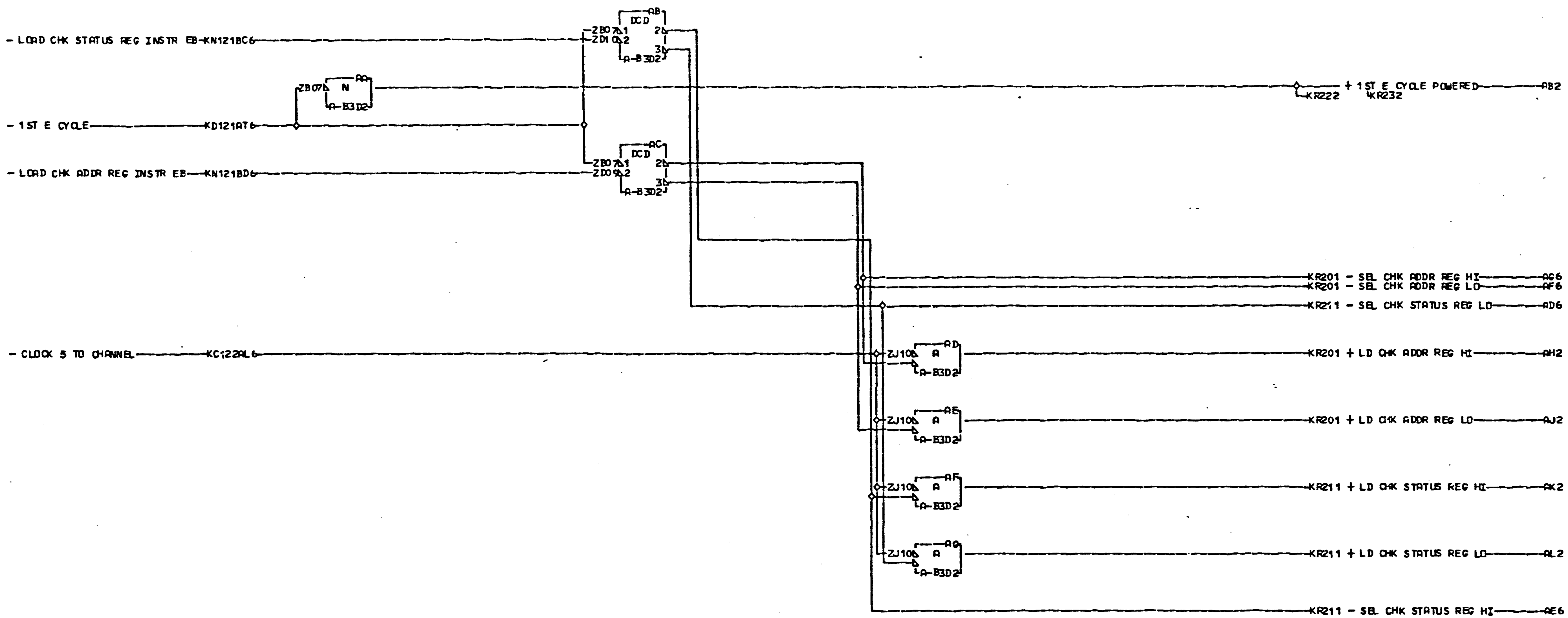
A. SIM TO PN — EC 830225
B. SIM TO PN — EC 830225
C. SIM TO PN — EC 830225

LOC. TYPE
A-B3D2 BE05

PAGE	VER	EC LEV
KR242	006	828425
KR252	006	828425
KR262	006	828425

F51UP KR242 KR262 006

STORE DATA LSR LD ASSEMBLER TO A REG		
E.C. HISTORY	MACH. CPU15FST	
	FRAME 01	KR242
	IBM CORP. RO	KR262
DATE 05-09-7? LAST EC 828425	P.N. 4835531	006



524828

2333384

272RK

600

LOC. TYPE
A-B3D2 BE05

PROGRAM CHECK REGISTERS	
—E.C.-HISTORY—E	MACH.CPU15FST
	FRAME 01
	IBM CORP. RO
DATE 06-09-77 LAST EC 828425	F.N. 4935532

KR272 006

TSF51UP KR272 006 SIM TO PN EC 830225

IBM

CONFIDENTIAL UNTIL FIRST CUSTOMER SHIP

000 KT201 KT201

- ALU TO CHANNEL BIT 7 —— AV232AK2- 2
- ALU TO CHANNEL BIT 6 —— AV232AL2- 11
- ALU TO CHANNEL BIT 5 —— AV232AM2- 20
- ALU TO CHANNEL BIT 4 —— AV232AN2- 29
- ALU TO CHANNEL BIT 3 —— AV232AP2- 38
- ALU TO CHANNEL BIT 2 —— AV232AQ2- 47
- ALU TO CHANNEL BIT 1 —— AV232AR2- 56
+ LOAD UNIT HLT ID —— KA212AW2* 65
+ RESET BASIC HLT ID —— KA212AX2* 74
+ LOAD TEN HLT ID —— KA212AY2* 83

83 ZJ02 SEL AB G1
11 ZG11 1 — 106
56 ZB09 1 — 108
38 ZB02 1 — 110
20 ZD02 1 — 112
2 ZB04 1 — 114
47 ZG12 1 — 116
29 ZJ10 1 — 118
A-B2K4

65 ZG02 SEL AA G1
11 ZG11 1 — 126
56 ZB09 1 — 128
38 ZB02 1 — 130
20 ZD02 1 — 132
2 ZB04 1 — 134
47 ZG12 1 — 136
29 ZJ10 1 — 138
A-B2K4

74 ZJ12 DISPL HLT REG AC R

108 S TEN A D12 208 S
116 S TEN B G13 212 S
110 S TEN C J07 216 S
118 S TEN D J13 220 S
112 S TEN E G05 224 S
106 S TEN F J11 228 S
114 S TEN G G09 232 S
128 S UNIT A B12 236 S
136 S UNIT B D13 240 S
130 S UNIT C D10 244 S
138 S UNIT D D11 248 S
132 S UNIT E B07 252 S
126 S UNIT F J06 256 S
134 S UNIT G B13 260 S
A-B2K4

236 - DISPL HLT UNIT A —— PB131-AC6
244 - DISPL HLT UNIT C —— PB131-AD6
252 - DISPL HLT UNIT E —— PB131-AE6
260 - DISPL HLT UNIT G —— PB131-AF6
240 - DISPL HLT UNIT B —— PB131-AG6
248 - DISPL HLT UNIT D —— PB131-AH6
256 - DISPL HLT UNIT F —— PB131-AJ6
208 - DISPL HLT TEN A —— PB131-AN6
216 - DISPL HLT TEN C —— PB131-AP6
224 - DISPL HLT TEN E —— PB131-AQ6
232 - DISPL HLT TEN G —— PB131-AR6
212 - DISPL HLT TEN B —— PB131-AS6
220 - DISPL HLT TEN D —— PB131-AT6
228 - DISPL HLT TEN F —— PB131-AU6

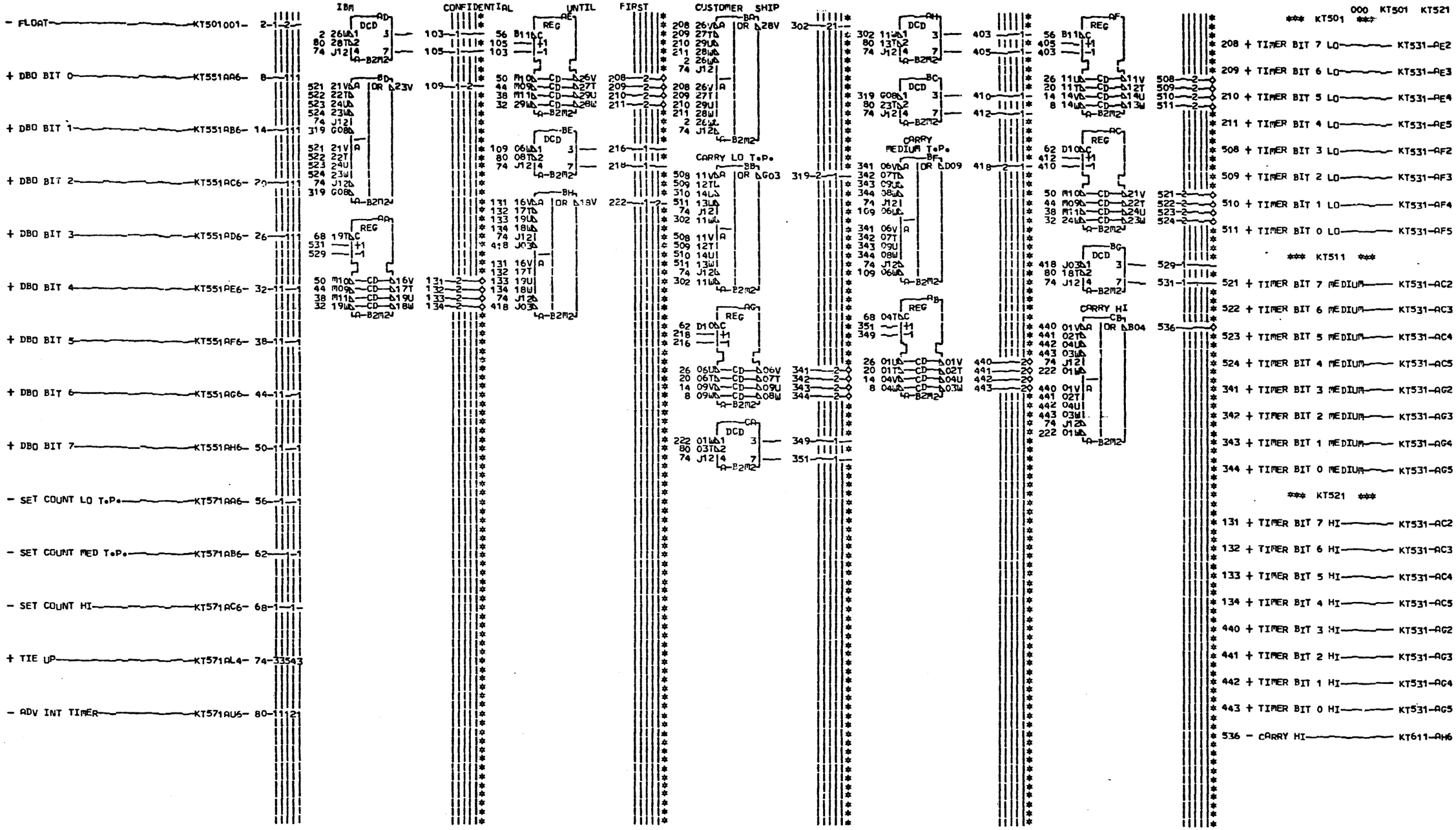
EDGE CONN.
65 RESISTOR A-R2K4G02
74 RESISTOR A-B2K4J12
83 RESISTOR A-B2K4J02

LOC. TYPE
A-B2K4 2584

PAGE VER EC LEV
KT201 000 830225

HALT ID
E.C.-HISTORY — C. MPCH.CPU15FST
FRAME 01 KT201
IBM CORP.GSD KT201
DATE LAST EC
04-15-76 830225
P.N. 4238948 000

KT201
KT2C1
000


IBM
CONFIDENTIAL
UNTIL
FIRST
CUSTOMER SHIP
CARRY LO T.P.
CARRY MEDIUM T.P.
CARRY HI
000 KT501 KT521
*** KT501 ***
208 + TIMER BIT 7 LO — KT531-AE2
209 + TIMER BIT 6 LO — KT531-AE3
210 + TIMER BIT 5 LO — KT531-AE4
211 + TIMER BIT 4 LO — KT531-AE5
508 + TIMER BIT 3 LO — KT531-AF2
509 + TIMER BIT 2 LO — KT531-AF3
510 + TIMER BIT 1 LO — KT531-AF4
511 + TIMER BIT 0 LO — KT531-AF5
*** KT511 ***
521 + TIMER BIT 7 MEDIUM — KT531-AC2
522 + TIMER BIT 6 MEDIUM — KT531-AC3
523 + TIMER BIT 5 MEDIUM — KT531-AC4
524 + TIMER BIT 4 MEDIUM — KT531-AC5
341 + TIMER BIT 3 MEDIUM — KT531-AG2
342 + TIMER BIT 2 MEDIUM — KT531-AG3
343 + TIMER BIT 1 MEDIUM — KT531-AG4
344 + TIMER BIT 0 MEDIUM — KT531-AG5
*** KT521 ***
131 + TIMER BIT 7 HI — KT531-AC2
132 + TIMER BIT 6 HI — KT531-AC3
133 + TIMER BIT 5 HI — KT531-AC4
134 + TIMER BIT 4 HI — KT531-AC5
440 + TIMER BIT 3 HI — KT531-AG2
441 + TIMER BIT 2 HI — KT531-AG3
442 + TIMER BIT 1 HI — KT531-AG4
443 + TIMER BIT 0 HI — KT531-AG5
536 - CARRY HI — KT611-AH6
+ FLOAT — KT501001
+ DBO BIT 0 — KT551AA6
+ DBO BIT 1 — KT551AB6
+ DBO BIT 2 — KT551AC6
+ DBO BIT 3 — KT551AD6
+ DBO BIT 4 — KT551AE6
+ DBO BIT 5 — KT551AF6
+ DBO BIT 6 — KT551AG6
+ DBO BIT 7 — KT551AH6
- SET COUNT LO T.P. — KT571AA6
- SET COUNT MED T.P. — KT571AB6
- SET COUNT HI — KT571AC6
+ TIE UP — KT571AL4
- ADV INT TIMER — KT571AU6
KT501
KT521
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LOC. TYPE
A-B2M2 Y567
PAGE VER EC LEV
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KT511 000 830225
KT521 000 830225
TIMER
E.C.-HISTORY
C-MACH.CPU15FST
FRAME 01
IBM CORP.GSD
DATE LAST EC
04-15-76 830225
P.N. 4238849
KT501
KT521
000

+ TIMER BIT 7 LO — KT501AE2 — 2
+ TIMER BIT 6 LO — KT501AE3 — 5
+ TIMER BIT 5 LO — KT501AE4 — 8
+ TIMER BIT 4 LO — KT501AE5 — 11
+ TIMER BIT 3 LO — KT501AF2 — 14
+ TIMER BIT 2 LO — KT501AF3 — 17
+ TIMER BIT 1 LO — KT501AF4 — 20
+ TIMER BIT 0 LO — KT501AF5 — 23
+ TIMER BIT 7 MEDIUM — KT511AC2 — 26
+ TIMER BIT 6 MEDIUM — KT511AC3 — 29
+ TIMER BIT 5 MEDIUM — KT511AC4 — 32
+ TIMER BIT 4 MEDIUM — KT511AC5 — 35
+ TIMER BIT 3 MEDIUM — KT511AG2 — 38
+ TIMER BIT 2 MEDIUM — KT511AG3 — 41
+ TIMER BIT 1 MEDIUM — KT511AG4 — 44
+ TIMER BIT 0 MEDIUM — KT511AG5 — 47
+ TIMER BIT 7 HI — KT521AC2 — 50
+ TIMER BIT 6 HI — KT521AC3 — 53
+ TIMER BIT 5 HI — KT521AC4 — 56
+ TIMER BIT 4 HI — KT521AC5 — 59
+ TIMER BIT 3 HI — KT521AG2 — 62
+ TIMER BIT 2 HI — KT521AG3 — 65
+ TIMER BIT 1 HI — KT521AG4 — 68
+ TIMER BIT 0 HI — KT521AG5 — 71
SPARE — KT531001 — 74
+ N CODE 1 T.P. — KT551BA2 — 77-211
+ EB-2 — KT561AB6 — 80-211
- SAMPLE TIMER T.P. — KT571AG6 — 83-82
+ TIE UP — KT571AL4 — 86-66

AH DCD 0 — 103; 1 — 105; 2 — 107; 3 — 109
8 -03 A1 / 77 ZJ11 B2
A-B2M2

AE REG
83 ZD03 C / 83 ZD03 R
62 -04R — CD-2 — 04P 118
65 -02R — CD-2 — 01R 120
68 -03N — CD-2 — 04N 122
71 -01N — CD-2 — 01Q 124
74 -02N — CD-2 — 126
A-B2M2

AC REG
83 ZD03 C / 83 ZD03 R
32 -09R — CD-2 — 09P 135
35 -07R — CD-2 — 06R 137
38 -08N — CD-2 — 09N 139
41 -06N — CD-2 — 06Q 141
44 -07N — CD-2 — 06P 143
A-B2M2

AB REG
83 ZD03 C / 83 ZD03 R
17 -14R — CD-2 — 14P 152
20 -12R — CD-2 — 11R 154
23 -13N — CD-2 — 14N 156
26 -11N — CD-2 — 11Q 158
29 -12N — CD-2 — 11P 160
A-B2M2

AA REG
83 ZD03 C / 83 ZD03 R
2 -29R — CD-2 — 29P 169
5 -27R — CD-2 — 26R 171
8 -28N — CD-2 — 29N 173
11 -26N — CD-2 — 26Q 175
14 -27N — CD-2 — 26P 177
A-B2M2

AG DCD 0 — 182; 1 — 184; 2 — 186; 3 — 188
80 -08L A1 / 77 ZJ11 B2
A-B2M2

BD REG
86 ZJ12 C / 103 G1 / 105 G2 / 107 G3 / 109 G4
120 -04K A1 CD — 04H 212 — BIT 2
141 -04J A2
152 -03K A3
86 ZD05 A4
118 -01K A1 CD — 02L 218 — BIT 3
139 -01H A2
177 -01J A3
86 ZD02 A4
A-B2M2

BC REG
86 ZJ12 C / 182 G1 / 184 G2 / 186 G3 / 188 G4
273 -09K A1 CD — 09H 247 — BIT 4
137 -09J A2
175 -08K A3
86 ZB10 A4
271 -06K A1 CD — 07L 253 — BIT 5
135 -06H A2
173 -06J A3
86 ZD07 A4
A-B2M2

AD REG
83 ZD03 C / 83 ZD03 R
47 -19R — CD-2 — 19P 265
50 -17R — CD-2 — 16R 267
53 -18N — CD-2 — 19N 269
56 -16N — CD-2 — 16Q 271
59 -17N — CD-2 — 16P 273
A-B2M2

AF DCD 0 — 278; 1 — 280; 2 — 282; 3 — 284
80 -23L A1 / 77 ZJ11 B2
A-B2M2

BB REG
86 ZJ12 C / 278 G1 / 280 G2 / 282 G3 / 284 G4
269 -23K A1 CD — 24H 312 — BIT 6
160 -24J A2
171 -23K A3
86 ZG11 A4
267 -21K A1 CD — 22L 318 — BIT 7
158 -21H A2
169 -21J A3
86 ZJ09 A4
A-B2M2

BA DCD 0 — 326; 1 — 328; 2 — 330; 3 — 332
80 -13L A1 / 77 ZJ11 B2
A-B2M2

BE REG
86 ZJ12 C / 326 G1 / 328 G2 / 330 G3 / 332 G4
124 -14K A1 CD — 14H 346 — BIT 0
265 -14J A2
156 -13K A3
86 ZG02 A4
122 -11K A1 CD — 12L 352 — BIT 1
143 -11H A2
154 -11J A3
86 ZD12 A4
A-B2M2

126 SPARE — AE0
318 - TIMER DATA BIT 7 — KT541-AK2
312 - TIMER DATA BIT 6 — KT541-AK7
253 - TIMER DATA BIT 5 — KT541-AL2
247 - TIMER DATA BIT 4 — KT541-AL7
218 - TIMER DATA BIT 3 — KT541-AM2
212 - TIMER DATA BIT 2 — KT541-AM7
352 - TIMER DATA BIT 1 — KT541-AN2
346 - TIMER DATA BIT 0 — KT541-AN7

000 KT531 KT531

LOC. TYPE
A-B2M2 Y567

PAGE VER EC LEV
KT531 000 830225

KT531
KT531
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TIMER
E.C. HISTORY — C. MACH. CPU13FST
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IBM CORP. GSD | KT531
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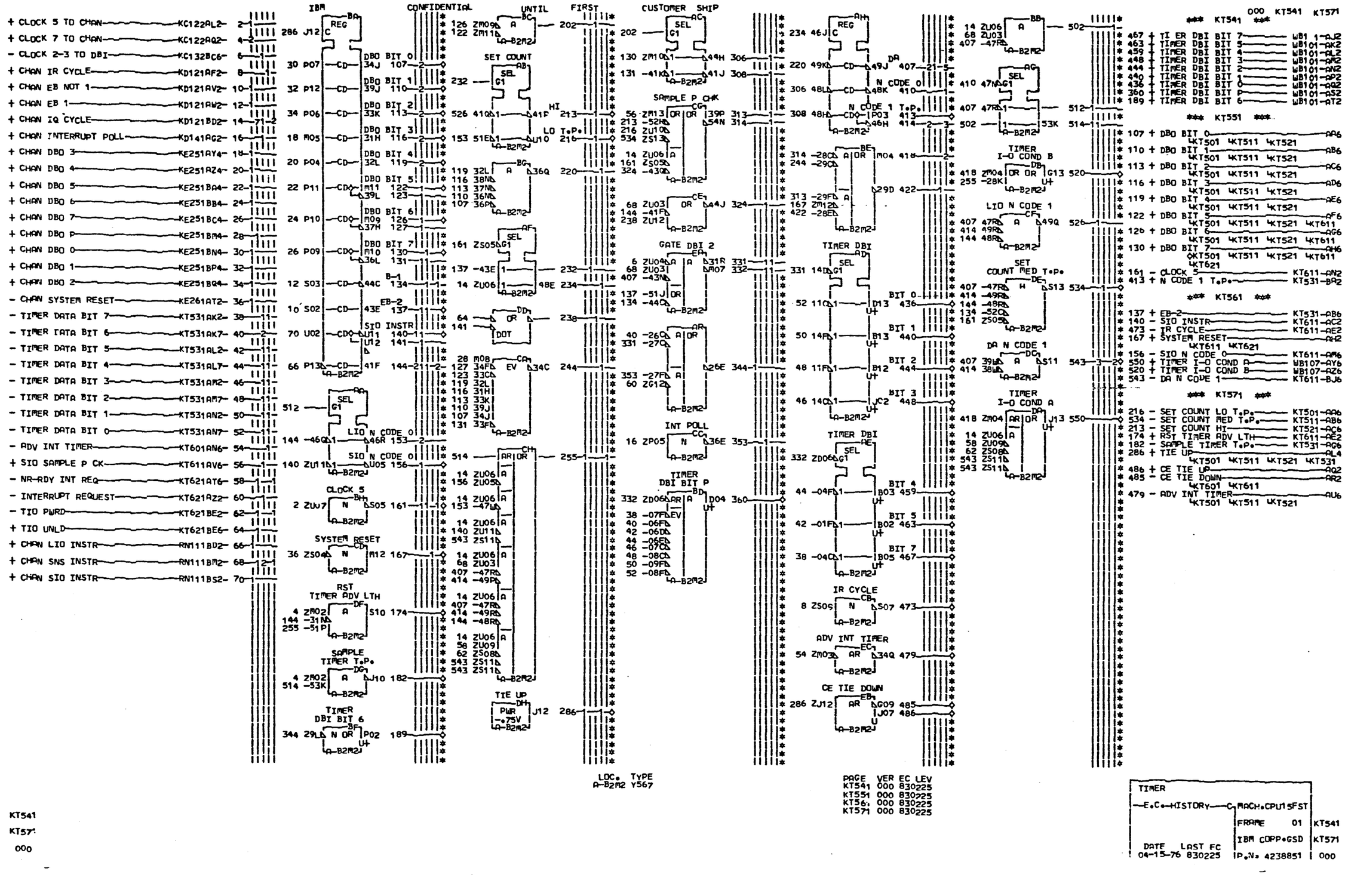
04-15-76 830225
P.N. 4238850 | 000


IBM
CONFIDENTIAL
UNTIL
FIRST
CUSTOMER SHIP
+ CLOCK 5 TO CHAN
+ CLOCK 7 TO CHAN
- CLOCK 2-3 TO DBI
+ CHAN IR CYCLE
+ CHAN EB NOT 1
+ CHAN EB 1
+ CHAN IO CYCLE
+ CHAN INTERRUPT POLL
+ CHAN DBO 3
+ CHAN DBO 4
+ CHAN DBO 5
+ CHAN DBO 6
+ CHAN DBO 7
+ CHAN DBO P
+ CHAN DBO 0
+ CHAN DBO 1
+ CHAN DBO 2
- CHAN SYSTEM RESET
- TIMER DATA BIT 7
- TIMER DATA BIT 6
- TIMER DATA BIT 5
- TIMER DATA BIT 4
- TIMER DATA BIT 3
- TIMER DATA BIT 2
- TIMER DATA BIT 1
- TIMER DATA BIT 0
- ADV INT TIMER
+ SIO SAMPLE P CK
- NR-RDY INT REQ
- INTERRUPT REQUEST
- TIO PWRD
+ TIO UNLD
+ CHAN LIO INSTR
+ CHAN SNS INSTR
+ CHAN SIO INSTR
DBO BIT 0
DBO BIT 1
DBO BIT 2
DBO BIT 3
DBO BIT 4
DBO BIT 5
DBO BIT 6
DBO BIT 7
SET COUNT
SAMPLE P CK
GATE DBI 2
INT POLL
TIMER DBI BIT P
TIMER DBI
BIT 0
BIT 1
BIT 2
BIT 3
BIT 4
BIT 5
BIT 7
N CODE 0
N CODE 1 T.P.
LIO N CODE 1
SET COUNT MED T.P.
DA N CODE 1
TIMER I-O COND A
TIMER I-O COND B
IR CYCLE
ADV INT TIMER
CE TIE DOWN
LIO N CODE 0
SIO N CODE 0
CLOCK 5
SYSTEM RESET
RST TIMER ADV LTH
SAMPLE TIMER T.P.
TIMER DBI BIT 6
TIE UP
EB-2
SIO INSTR
HI
LO T.P.
*** KT541 ***
+ TI ER DBI BIT 7
+ TIMER DBI BIT 5
+ TIMER DBI BIT 4
+ TIMER DBI BIT 3
+ TIMER DBI BIT 2
+ TIMER DBI BIT 1
+ TIMER DBI BIT 0
+ TIMER DBI BIT P
+ TIMER DBI BIT 6
*** KT551 ***
+ DBO BIT 0
+ DBO BIT 1
+ DBO BIT 2
+ DBO BIT 3
+ DBO BIT 4
+ DBO BIT 5
+ DBO BIT 6
+ DBO BIT 7
- CLOCK 5
+ N CODE 1 T.P.
*** KT561 ***
+ EB-2
- SIO INSTR
- IR CYCLE
+ SYSTEM RESET
- SIO N CODE 0
+ SET COUNT LO T.P.
- SET COUNT MED T.P.
- SET COUNT HI
+ RST TIMER ADV LTH
+ SAMPLE TIMER T.P.
+ TIE UP
+ CE TIE UP
- CE TIE DOWN
+ ADV INT TIMER
*** KT571 ***
+ TIMER I-O COND A
+ TIMER I-O COND B
- DA N CODE 1
KT541
KT571
000
LOC. TYPE
A-B2M2 Y567
PAGE VER EC LEV
KT541 000 830225
KT551 000 830225
KT561 000 830225
KT571 000 830225
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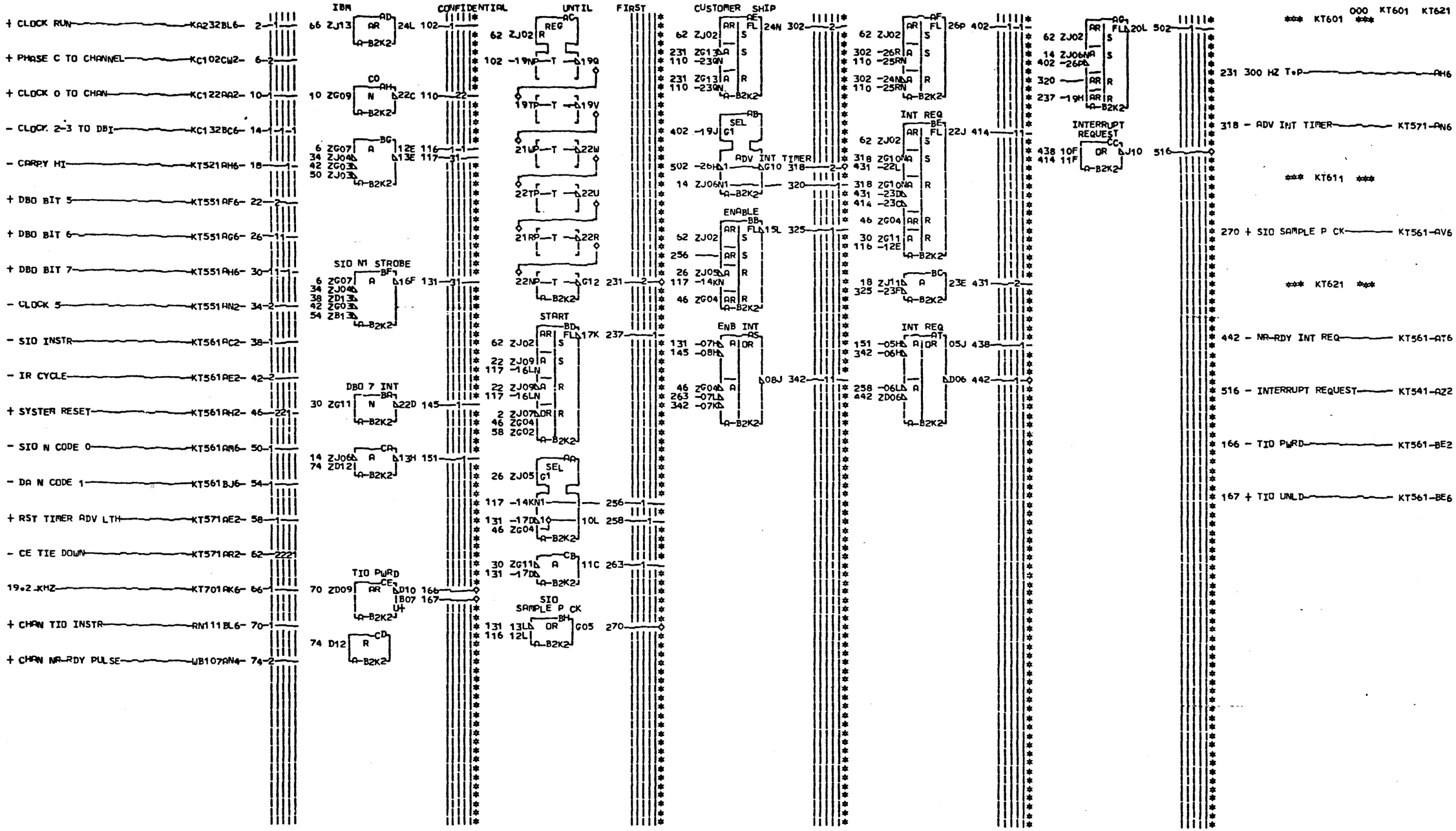
P.N. 4238851 000


CONFIDENTIAL
+ CLOCK RUN
+ PHASE C TO CHANNEL
+ CLOCK 0 TO CHAN
- CLOCK 2-3 TO DBI
- CARRY HI
+ DBO BIT 5
+ DBO BIT 6
+ DBO BIT 7
- CLOCK 5
- SIO INSTR
- IR CYCLE
+ SYSTEM RESET
- SIO N CODE 0
- DA N CODE 1
+ RST TIMER ADV LTH
- CE TIE DOWN
19.2 KHZ
+ CHAN TIO INSTR
+ CHAN NR-RDY PULSE
IBM
CO
DBO 7 INT
SIO N1 STROBE
TIO PWRD
UNTIL
START
SIO SAMPLE P CK
FIRST
CUSTOMER SHIP
ENABLE
ENB INT
ADV INT TIMER
INT REQ
INTERRUPT REQUEST
*** KT601 ***
231 300 HZ TOP
318 - ADV INT TIMER
*** KT611 ***
270 + SIO SAMPLE P CK
*** KT621 ***
442 - NR-RDY INT REQ
516 - INTERRUPT REQUEST
166 - TIO PWRD
167 + TIO UNLD
LOC. TYPE
A-B2K2 Y665
PAGE VER EC LEV
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KT611 000 830225
KT621 000 830225
INTERVAL TIMER
E.C. HISTORY
MACH.CPU15FST
FRAME 01
IBM CORP.GSD
DATE LAST EC
04-15-76 830225
P.N. 4238852
KT601
KT621
000

KT701 000

LOC. TYPE
A-B2S2 9270

TIMER OSCILLATOR		
E.C. HISTORY	C. RACH.CPU15FST	KT701
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	IBM CORP. GSD	000
DATE LAST EC	P.N. 4238853	
04-15-76 830225		