3910 DETACHABLE DIAGNOSTIC DEVICE

PN COMPATIBILITY LISTING

PN 9623

LIST OF EFFECTIVE PAGES

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INTRODUCTION

THIS MANUAL CONTAINS THREE PARTS:

1. INTRODUCTION - WHICH DEFINES THE CONTENT OF THE MANUAL AND EXPLAINS HOW TO USE IT.

2. RESERVED FOR FUTURE USE.

3. TU COMPATIBILITY - WHICH CONTAIN THE PART NUMBER COMPATIBILITY PAGES FOR THE TAPE UNIT (TU).

DOWNWARD COMPATIBLE: A NEW ASSEMBLY (USUALLY A HIGHER PN) IS A DIRECT REPLACEMENT (DOWNWARD COMPATIBLE) FOR AN OLD ASSEMBLY (USUALLY A LOWER PN) WHEN IT DOES NOT DEGRADE MACHINE PERFORMANCE. DOWNWARD COMPATIBILITY IS INDICATED WHEN BOTH ASSEMBLIES HAVE THE SAME COMPATIBILITY NUMBER.

UPWARD COMPATIBLE: AN OLD ASSEMBLY (USUALLY A LOWER PN) IS EQUIVALENT TO (UPWARD COMPATIBLE) AND MAY DIRECTLY REPLACE A NEW ASSEMBLY (USUALLY A HIGHER PN) IF ITS USE DOES NOT AFFECT MACHINE PERFORMANCE. UPWARD COMPATIBILITY IS INDICATED WHEN ASSEMBLIES HAVING THE SAME COMPATIBILITY NUMBER ARE ALSO INDICATED AS "EQUIVALENT" IN THE "DESCRIPTION OF EC" FIELD.

EACH PAGE IN THE COMPATIBILITY SECTION CONTAINS THE COMPATIBILITY INFORMATION FOR A SINGLE CARD TYPE. IT SHOWS THE HISTORY OF ENGINEERING CHANGES (EC'S) THAT RESULTED IN PART NUMBER CHANGES FOR THAT CARD. IT ALSO SHOWS WHICH PART NUMBERS ARE OBSOLETE AND WHAT PART NUMBERS CAN BE USED TO REPLACE THEM.

FOR SOME CARDS, THE FUNCTIONAL CHANGES THAT RESULTED IN NEW PART NUMBERS WILL NOT FUNCTION WITHOUT CORRESPONDING MACHINE REWORK. THIS USUALLY RESULTS IN A COMPATIBILITY NUMBER

CHANGE FOR THE NEW ASSEMBLY. THE "DESCRIPTION OF EC" FIELD WILL SUMMARIZE THE CHANGES. THE FIELD APL DEFINING THE REQUIRED REWORK WILL BE LISTED IN A SEPARATE COLUMN NEXT TO THE EC NUMBER.

IF THE COMPATIBILITY NUMBER DOES NOT CHANGE, THE NEW CARD WILL PERFORM AT LEAST THE SAME FUNCTIONS AS THE OLDER CARD.

COMPATIBILITY AND OBSOLESCENCE

ANY PART NUMBER THAT IS PREFIXED WITH AN ASTERISK (*) IS AN OBSOLETE PART NUMBER. OBSOLETE MEANS THAT THE PART WILL NO LONGER BE SUPPLIED. IF AN OBSOLETE PART IS ORDERED, THE FIELD PARTS CRIB WILL SUBSTITUTE A PART THAT IS DOWNWARD COMPATIBLE OR EQUIVALENT TO THE PART NUMBER ORDERED.

FOR SOME CIRCUIT CARDS, ALL PART NUMBERS OF THE CARD AT A PARTICULAR COMPATIBILITY NUMBER HAVE BEEN OBSOLETED, LEAVING NO AVAILABLE REPLACEMENTS AT THAT COMPATIBILITY NUMBER. THIS SITUATION OCCURS WHEN A CARD IS OBSOLETED BY A MANDATORY EC. IF A REPLACEMENT IS ORDERED FOR AN OBSOLETE CARD FOR WHICH THERE IS NO REPLACEMENT AT THE COMPATIBILITY NUMBER, IT IS POSSIBLE THAT ONE OR MORE MANDATORY EC'S ARE MISSING FROM THE MACHINE. CHECK THE EC HISTORY LOG FOR THAT MACHINE, AND THE COMPATIBILITY PAGE FOR THAT CARD FOR "DESCRIPTION OF EC" AND THE APPLICABLE APL NUMBERS. UPDATE THE MACHINE SUCH THAT A REPLACEMENT CARD OF A HIGHER COMPATIBILITY NUMBER CAN BE USED. (IT MAY BE NECESSARY TO ORDER THE INDICATED APL WHICH WILL PRODUCE THE CORRECT CARD NEEDED).

DOWNWARD COMPATIBILITY IS DESIGNATED BY THE COMPATIBILITY NUMBER TO THE RIGHT OF THE PART NUMBER. A CARD OF A GIVEN PART NUMBER IS DOWNWARD COMPATIBLE WITH ALL THOSE LOWER PART NUMBER CARDS THAT HAVE THE SAME COMPATIBILITY NUMBER. THIS MEANS IT CAN BE USED TO REPLACE ANY OF THE LOWER PART NUMBER CARDS HAVING THE SAME COMPATIBILITY NUMBER WITHOUT REQUIRING REWORK TO THE CARD OR MACHINE.

FOR EXAMPLE:

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL
*42150101	1	IR - W/W BOARD	40020	NONE
*42150102	1	ADD REWORK	40030	NONE
42150202	1	IMBED REWORK - EQUIV TO 102	40040	8612
*42150203	2	ADD REWORK. REQUIRED MBD AT LEVEL ____.	40050	8619
42150204	2	ADD REWORK	40060	NONE

IN THE ABOVE EXAMPLE:

P/N 42150 101 CAN REPLACE ONLY ITSELF.
P/N 42150 102 CAN REPLACE ITSELF OR P/N 42150101 (OR -202 BECAUSE IT IS EQUIVALENT).
P/N 42150 202 CAN REPLACE ITSELF, P/N 42150101 OR P/N 42150102.
P/N 42150 203 CAN REPLACE ONLY ITSELF. (CAN NOT REPLACE LOWER LEVEL CARDS UNLESS MBD CHANGE OR OTHER PREREQUISITE IS INSTALLED).
P/N 42150 204 CAN REPLACE ITSELF AND -203. (CAN NOT REPLACE LOWER LEVEL CARDS UNLESS MBD CHANGE OR OTHER PREREQUISITE IS INSTALLED).

* THE ASTERISK TO THE LEFT OF A PART NUMBER INDICATES THAT THE PART IS OBSOLETE AND IS NO LONGER SUPPORTED BY MANUFACTURING. THE HIGHEST LEVEL PART FOR EACH COMPATIBILITY LEVEL SHOULD NOT CARRY AN ASTERISK BECAUSE MANUFACTURING MUST SUPPORT FIELD SPARES UNTIL ALL MACHINES HAVE BEEN BROUGHT TO THE NEXT COMPATIBILITY LEVEL.

CAUTION

UPWARD COMPATIBILITY EXISTS ONLY IF TWO CARDS WITH THE SAME COMPATIBILITY NUMBER ARE DESCRIBED AS "EQUIVALENT" IN THE "DESCRIPTION OF EC" FIELD. ANY OTHER SUBSTITUTION OF A LOWER PART NUMBER CARD FOR A HIGHER PART NUMBER CARD REQUIRES A GREAT DEAL OF CAUTION. SUCH PRACTICE MAY RESULT IN NOISE PROBLEMS, TIMING PROBLEMS, DIAGNOSTIC ERRORS, ETC. ANY ATTEMPT TO UTILIZE SUCH A LOWER PART NUMBER CARD REQUIRES ENSURING THAT FUNCTIONAL CHANGES OR IMPROVEMENTS MISSING FROM THE LOWER PART NUMBER CARD WILL NOT RESULT IN CUSTOMER SYSTEM OPERATION DEGRADATION. REFERENCE THE DESCRIPTION OF EACH CHANGE MISSING FROM THE CARD AND ENSURE THAT NO MACHINE WIRING CHANGES OR COMPANION CHANGES TO OTHER CARDS WERE REQUIRED AT THE TIME THE HIGHER PART NUMBER WAS INSTALLED ORIGINALLY. USAGE IN THIS MANNER IS NOT RECOMMENDED AND SHOULD BE AVOIDED IF POSSIBLE.

UPDATING THE MANUAL

TO UPDATE THE MANUAL, INSERT THE NEW PAGES ACCORDING TO THE NEW LIST OF EFFECTIVE PAGES. REMOVE AND DISCARD ANY PAGES THAT ARE REPLACED BY A LATER EC LEVEL, OR ARE SHOWN AS DELETED FROM THE LIST OF EFFECTIVE PAGES.

COMMENTS CONCERNING THE CONTENT OF THIS MANUAL SHOULD BE DIRECTED TO TAPE PUBLICATIONS SERVICES AT THE ADDRESS BELOW. IN CASE OF ERRORS, PLEASE GIVE SPECIFIC PAGE AND LINE REFERENCES, WHERE APPROPRIATE. FOR A REPLY INCLUDE NAME AND ADDRESS.

REQUESTS FOR ADDITIONAL COPIES OF THIS MANUAL SHOULD BE DIRECTED TO THE FIELD CRIB VIA FIELD INVENTORY SYSTEM (FIS) TERMINALS.

THIS PUBLICATION WAS PREPARED BY STORAGE TECHNOLOGY CORPORATION, TAPE PUBLICATIONS SERVICES, MD AD, P.O. BOX 98, LOUISVILLE, COLORADO 80028.

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CD TYPE: MA
CD LOC : A04
MACHINE: 3910
DESCRIPTION - PROCESSOR/FLOPPY CONTROLLER CARD, 16K
PG EC LEVEL - 46082 DATE 03/82

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*400010101-6	1	INITIAL RELEASE OF WW BOARD	46002	NONE
*400010102-4	1	1. WIRING CHANGE TO USE A DIFFERENT COUNTER. 2. APL CHANGES TO USE IC'S THAT ARE MORE READILY AVAILABLE.	46033	NONE
*400010102-4	1	1. SYSTEM LOGIC UPDATES TO PICK-UP CARD LOGIC CHANGES IN EC'S 46033 MA, 46034 MB, 46035 MC. 2. DOCUMENTATION CLEAN-UP OF 1900 INTERFACE OPTION-DOC ASSY.	46044	NONE
*400010202-2	1	1. INITIAL RELEASE OF PCB 2. IMBED REWORK. EQUIVALENT TO PN 400010102.	46046	NONE
*400010203-0	1	1. WIRING CHANGES FOR 1791-01 FLOPPY CONTROLLER CHIP. STILL EQUIVALENT TO PN 400010102 2. UPDATE NOTES ON KEYBOARD DRAWING.	46070	NONE
*400010103-2	1	1. ADD DOUBLE DENSITY WRITE PRECOMPENSATION TO FLOPPY CIRCUIT. 2. RELEASE OF NEW BRING-UP PROMS.	46082	NONE
*400010204-8	1	1. ADD DOUBLE DENSITY WRITE PRECOMPENSATION TO FLOPPY CICRUIT. 2. ADD NON-MASKABLE INTERRUPT DISABLE. 3. RELEASE OF NEW BRING-UP PROMS. 4. ADD IC SOCKETS FOR BRING-UP PROMS.	46082	NONE

CD TYPE: MA (CONT.)
CD LOC : A04
MACHINE: 3910
DESCRIPTION - PROCESSOR/FLOPPY CONTROLLER CARD, 16K
PG EC LEVEL - 46125 DATE 03/82

ASSY PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL
400010104-0	1	ELIMINATE A POSSIBLE GLITCH PULSE IN THE FLOPPY DRIVE DATA SEPARATOR CIRCUIT. EQUIVALENT TO 400010205/306/307.	46118	69824
400010205-5	1	SAME DESCRIPTION AS, AND EQUIV. TO 400010104/306/307.	46118	69824
*400010306-1	1	IMBED OF 16K WITH NEW DATA SEPARATOR. EQUIVALENT TO 400010104/205. NONE SHIPPED.	46083 46083N	69914
400010307-9	1	INCORPORATE CARD MANUFACTURING CHANGES AND REWORK FA09 TO MEET WORST CASE TIMING. EQUIVALENT TO 400010104/205	46125	NONE

CD TYPE: MA
CD LOC : A04
MACHINE: 3910
DESCRIPTION - PROCESSOR/FLOPPY CONTROLLER CARD, 32K
PG EC LEVEL - 46125 DATE 03/82

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*401310201-9	1	INITIAL RELEASE OF 32K MA CARD. NONE SHIPPED.	46083	66915
401310202-7	1	INCORPORATE CARD MANUFACTURING CHANGES AND REWORK FA09 TO MEET WORST CASE TIMING.	46125	NONE

CD TYPE: MB
CD LOC : 02
MACHINE: 3910
DESCRIPTION - CRT, USART CARD
PG EC LEVEL - 46110 DATE 11/81

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*400011101	1	INITIAL RELEASE OF WW BOARD	46003	NONE
*400011102	1	ADDITION OF A WIRE TO PREVENT THE CRT CONTROLLER FROM HANGING UP THE PROCESSOR.	46034	NONE
*400011102	1	1. SYSTEM LOGIC UPDATES TO PICK-UP CARD LOGIC CHANGES IN EC'S 46033 MA, 46034 MB, 46035 MC. 2. DOCUMENTATION CLEANUP OF 1900 INTERFACE OPTION DOC ASSY.	46044	NONE
*400011202	1	1. INITIAL RELEASE OF PCB IMBED REWORK. EQUIVALENT TO PN 400011102.	46054	NONE
*400011103	1	1. MODIFICATION OF SDI INTERFACE. 2. ELIMINATE CRT FLICKER. EQUIV TO 400011203.	46081	67045
*400011203	1	1. MODIFICATION OF SDI INTERFACE. 2. ELIMINATION OF CRT FLICKER. EQUIV TO 400011103.	46081	67045
400011104	1	ADD KEYBOARD STROBE FILTER. EQUIVALENT TO 400011204.	46095	NONE
*400011204	1	ADD KEYBOARD STROBE FILTER. EQUIVALENT TO 400011104.	46095	NONE
400011205	1	ADD MISSING TIE-UP CONNECTION TO LOGIC GATE ON PC CARD. EQUIVALENT TO 400011104.	46110	67854

CD TYPE: MC
CD LOC : 03
MACHINE: 3910
DESCRIPTION - 3910-1900 INTERFACE CARD
PG EC LEVEL - 46069 DATE 02/81

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*400012101	1	INITIAL RELEASE OF WW BOARD	46004	NONE
*400012102	1	1. WIRING CHANGE TO SPEED UP TIMING FOR 1935 FCU. 2. WIRING CHANGE TO ADD EXTRA STATUS BITS FOR 1935 FCU.	46035	NONE
*400012102	1	1. SYSTEM LOGIC UPDATES TO PICK-UP CARD LOGIC CHANGES IN EC'S 46033 MA, 46034 MB, 46035 MC. 2. DOCUMENTATION CLEANUP OF 1900 INTERFACE OPTION-DOC ASSY.	46044	NONE
*400012103	1	WIRING CHANGE TO STOP RINGING ON -MREQ LINE.	46050	NONE
*400012104	1	WIRING CHANGE TO BUFFER DATA LINES AND READ DATA LINES TO ACCOMMODATE 1935/1950 WORST CASE.	46055	NONE
*400012104	1	ADD MISSING ENTRIES ON DRAWING FROM EC 46055.	46055Z	NONE
*400012104	1	ADD NEW WIRELIST MC	56055X	NONE
400012105	1	ADDITION OF REAPER RESET SIGNAL. EQUIVALENT TO 400012205.	46069	67268
400012205	1	INITIAL RELEASE OF PC BOARD. EQUIVALENT TO PN 400012105. PAPER CHANGE, CORRECT WIRELIST.	46069	67268

CD TYPE: MD
CD LOC : 04
MACHINE: 3910
DESCRIPTION - 3910-MICROSEQUENCER INTERFACE CARD
PG EC LEVEL - 46091 DATE 02/81

ASSY PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL
*400013101	1	INITIAL RELEASE OF WW BOARD	46005	NONE
*400013102	1	WIRING CHANGE TO ACCOMMODATE MQ POD CARD.	46040	NONE
400013103	1	REPLACEMENT OF 74LS133 WITH A 74S133.	46091	67386

CD TYPE: MP
MACHINE: 3910
DESCRIPTION - DRIVE MICROSEQUENCER CARD
PG EC LEVEL - 46093 DATE 02/81

ASSY PN	COMP. NO.	FIELD DESCRIPTION OF EC	EC NO.	APL
*400014301	1	INITIAL RELEASE OF PCB	46041	NONE
400014302	1	REPLACEMENT OF 74LS133 WITH 74S133.	46093	67511

CD TYPE: MQ
MACHINE: 3910
DESCRIPTION - FORMATTER MICROSEQUENCER CARD
PG EC LEVEL - 46042 DATE 06/80

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL
400042201	1	INITIAL RELEASE OF PCB	46042	NONE

CD TYPE: PA
CD LOC :
MACHINE: 3920/25
DESCRIPTION - PROCESSOR CARD
PG EC LEVEL - 46515 DATE 11/82

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
*402275201	1	INITIAL RELEASE OF PC LAYOUT.	46511	NONE
402275202	1	REMOVE INVERTER FROM CLOCK LINE OF NMI FLIP-FLOP FOR OPTION BUS: ADD RESET, POWER ON INDICATOR, EXTERNAL MEMORY ENABLE SIGNALS; CORRECT DIRECTION CONTROL OF ADDRESS TRANSCIEVERS. USE 33 OHM PULL DOWN R-PK. USE 100UF CAP FOR RESET CIRCUIT. RELEASE OF NEW BOOT PROM.	46515	NONE

CD TYPE: MBD
MACHINE: 3910
DESCRIPTION - MOTHERBOARD
PG EC LEVEL - 46089 DATE 12/80

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL
*400009301	1	INITIAL RELEASE OF MBD	46000	
*400009302	1	DIMENSIONAL CHANGES TO MOTHERBOARD, CARD CAGE, MBD ASSY, KEYBOARD AND CARD CAGE ASSY. (KEYBOARD FUNCTIONALLY INTERCHANGABLE)	46027	
*400009303	1	1. DIMENSIONAL CHANGES TO MOTHERBOARD 2. REVISE WIRELIST ON MBD ASSY.	46031	
*400009304	1	CHANGE 60 PIN CONNECTOR TO A LOCKING TYPE	46053	
400009305	1	DELETION OF SIGNAL GROUND CONNECTIONS ON THE FLOPPY DRIVE SIGNAL CABLE.	46089	67210

CD TYPE: CHASSIS ASSY, POWER SUPPLY
CD LOC : BASE PLATE ASSY
MACHINE: 3910
DESCRIPTION - GENERATE +5, +12, -5, -12V
PG EC LEVEL - 46133 DATE 07/82

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL
*400009802	1	INITIAL RELEASE	46017	NONE
*400009803	1	ADD BRID RECT TO CHASSIS	46013	NONE
*400009804	1	ADD 5V BYPASS RESISTOR	46015	66320
*400009805	1	CHANGED FAN AIRFLOW NEW MY AND MZ CARDS	46023	66357
*400009806	1	CHANGED R4	46057	*66486
*400009806	1	CHANGED ASSY LABEL	46064	NONE
*400009807	1	CHANGED R2 & R13. MODIFIED "UV".	46086	67024
*400009808	1	NEW MZ CARD, IN LINE FUSES	46066	NONE
*400009809	1	ADD GROMMET STRIP TO CHASSIS EDGES.	46094	NONE
400009810	1	INCREASED DRIVE TO Q1 ON MY CARD.	46132	NONE
400009810	1	INCREASED UV CIRCUIT DELAY TIME.	46133	NONE

MACHINE: 3910
DESCRIPTION - KEYBOARD
PG EC LEVEL - 46116 DATE 10/81

CARD PN	COMP. NO.	DESCRIPTION OF EC	EC NO.	FIELD APL.
400002902-7	1	INITIAL RELEASE KEYBOARD ASSY.	46096	NONE
401310001-3	2	RELEASE NEW KEYBOARD 46116 EQUIVALENT TO 400002902. FB 69801 CONTAINS KEYBOARD AND ADDITIONAL MOUNTING HARDWARE FOR REPLACING KEYBOARD 400002902.	46116	69801

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ASSEMBLY PARTS LIST

BOILER ARC DOC

PRINT DATE	PAGE	E.C. NO.
07-07-82	1	46133

DIV	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	400001101	7	AC	N	TLA SYSTEM LOGIC	N	REL	07-01-82	3910	07-06-82

T	FIND NO.	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	001	01	400041201	7		1	PC	SLG,MA,400010101,W/W	N			46044			7929
	001	02	400041202	5		1	PC	SLG,MA,400010102,W/W	N		46044	46082		7929	8045
	001	03	400041203	3		1	PC	SLG MA 400010103,W/W	N		46082	46118		8045	8129
	001	04	400041204	1		1	PC	SLG,MA,400010104 W/W	N		46118			8129	
	110	01	400041301	5		1	PC	SLG,MB,400011101,W/W	N			46044			7929
	110	02	400041302	3		1	PC	SLG,MB,400011102,W/W	N		46044	46081		7929	8044
	110	03	400041303	1		1	PC	SYS LGC GP,MB,400011103,WW	N		46081	46095		8044	8115
	110	04	400041304	9		1	PC	SYSLGCGP,MB,400011104,WW	N		46095			8115	
	120	01	400041401	3		1	PC	SLG,MC,400012101,W/W	N			46044			7929
	120	02	400041402	1		1	PC	SLG,MC,400012102,W/W	N		46044	46050		7929	7930
	120	03	400041403	9		1	PC	SLG,MC,400012103,W/W	N		46050	46055		7930	8004
	120	04	400041404	7		1	PC	SLG,MC,400012104,W/W	N		46055	46069		8004	8119
	120	05	400041405	4		1	PC	SLG,MC,400012105,WW	N		46069			8119	
	130	01	400041501	0		1	PC	SLG,MD,400013101,W/W	N			46040			7951
	130	02	400041502	8		1	PC	SYS LGC GP,MD400013102,W/W	N		46040	46091		7951	8111
	130	03	400041503	6		1	PC	SYS LGC GP,MD400013103,W/W	N		46091			8111	
	140	01	400040801	5		1	PC	SLG,MM,PAGES	N						
	170	01	04000084	6		1	PC	SCHEMATIC,PWR SUPPLY,120 V	D			46057			7941
	170	02	400008401	4		1	PC	SCHEMATIC,PWRSUPPLY,120V	D		46057	46064		7941	8006
	170	03	400008402	2		1	PC	SCHEMATIC,PWR SUPPLY,120V	D		46064	46086		8006	8023
	170	04	400008403	0		1	PC	SCHEMATIC,PWR SUPPLY,120V	D		46086	PLC 3598		8023	8119
	170	05	400008404	8		1	PC	SCHEMATIC,PWR SUPPLY,120V	D		PLC 3598	46132		8119	8224
	170	06	400008405	5		1	PC	SCHEMATIC, POWER SUPPLY, 120V	D		46132	46133		8224	8226
	170	07	400008406	3		1	PC	SCHEMATIC, PWR SUPPLY, 120V	D		46133			8226	
	180	01	04000054	9		1	PC	SCHEMATIC,PWR SUPPLY,240 V	D			46057			7941
	180	02	400005401	7		1	PC	SCHEMATIC,PWRSUPPLY,240V	D		46057	46064		7941	8006
	180	03	400005402	5		1	PC	SCHEMATIC,POWER SUPPLY,240V	D		46064	46086		8006	8023
	180	04	400005403	3		1	PC	SCHEMATIC,POWERSUPPLY,240V	D		46086	46066		8023	8116
	180	05	400005404	1		1	PC	SCHEMATIC,PWR SUPPLY,240V	D		46066	46132		8116	8224
	180	06	400005405	8		1	PC	SCHEMATIC, POWER SUPPLY, 240V	D		46132	46133		8224	8226
	180	07	400005406	6		1	PC	SCHEMATIC, PWR SUPPLY, 240V	D		46133			8226	
	190	01	400003601	7		1	PC	SCHEMATIC,MY CARD	D		46064			8006	
	200	02	400003401	9		1	PC	SCHEMATIC POWER SUPPLY,MZ	D		46057	46064		7941	8006

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ASSEMBLY PARTS LIST

BOILED ARC DOC

PRINT DATE	PAGE	E.C. NO.
07-07-82	2	46133

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	400001101	7	AC	N	TLA SYSTEM LOGIC	N	REL	07-01-82	3910	07-06-82

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	200	03	400003402	7		1	PC	SCHEMATIC,MZ CARD	D		46064	46086		8006	8023
	200	04	400003403	5		1	PC	SCHEMATIC POWER SUPPLY, MZ	D		46086	PLC 3598		8023	8119
	200	05	400003404	3		1	PC	SCHEMATIC PWR SUPPLY,MZ	D		PLC 3598	46132		8119	8224
	200	06	400003405	0		1	PC	SCHEMATIC, POWER SUPPLY, MZ	D		46132	46133		8224	8226
	200	07	400003406	8		1	PC	SCHEMATIC, POWER SUPPLY, MZ	D		46133			8226	
	210	01	401301201	0		1	PC	SYS LGC GP,400010202,MA,PC	N		46041	46070		7947	8001
	210	02	401301202	8		1	PC	SYS LGC GP,400010203,MA,PC	N		46070	46082		8001	8045
	210	03	401301203	6		1	PC	SYSLGCGP,400010204,MA,DC	N		46082	46118		8045	8129
	210	04	401301204	4		1	PC	SYS LGCGP,400010205,MA,PC	N		46118			8129	
	220	01	401302801	6		1	PC	SYS LGC GP,MB,400011202,PC	N		46041	46081		7947	8044
	220	02	401302802	4		1	PC	SYS LGC GP,MB,400011203,PC	N		46081	46095		8044	8115
	220	03	401302803	2		1	PC	SYSLGGGP,MB,400011204,PC	N		46095	46110		8115	8147
	220	04	401302804	0		1	PC	SYS LGC GP,MB,400011205,PC	N		46110			8147	
	230	01	400016702	5		1	PC	CD LGC GP,MP,PC	N		46042	46093		7951	8111
	230	02	400016703	3		1	PC	CD LGC GP,MP,PC	N		46091			8111	
	240	01	400044201	4		1	PC	CD LOG GP,MQ,PC	N		46042			7951	
	250	01	401304001	1		1	PC	SYS LGC GP,MC400012205,PC	N		46069			8119	
	251	01	401308401	9		1	PC	SYS LGC GP,MA,MULTI P/N'S	N		46083	46125		8201	8204
	251	02	401308402	7		1	PC	SYS LGC GP,MA,MULTI P/NS	N		46125			8204	
								0052 TOTAL LINES							

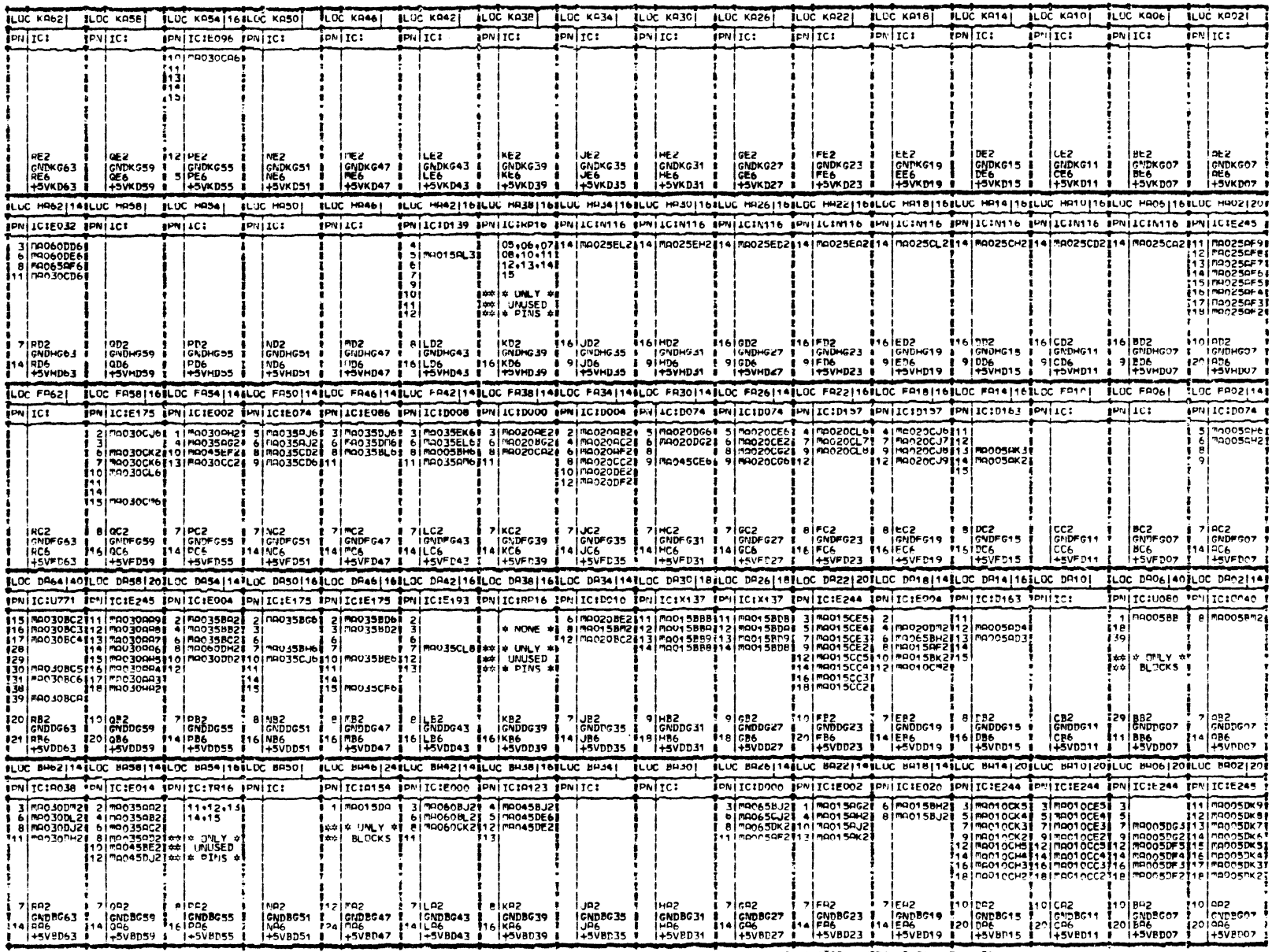
BUILD ARC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	EC
01-07-81	1	46118

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
05	400041204	1	D	N	SLG MA 400010104,W/W	N	REL	09-09-80	3910	11-13-80

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	EC NO. OUT	S/N	WK IN	WK OUT
	000	01	400005504	8		REF	PC	W/W CARD LOGIC,AM 205 MA	D						
	001	01	400033104	3		REF	PC	SYS LOGIC,MA005, W/W	D						
	002	01	400033201	7		REF	PC	SYS LOGIC,MA010,W/W	D						
	003	01	400033301	5		REF	PC	SYS LOGIC,MA015,W/W	D						
	004	01	400033401	3		REF	PC	SYS LOGIC,MA020,W/W	D						
	005	01	400033501	0		REF	PC	SYS LOGIC,MA025,W/W	D						
	006	01	400033602	5		REF	PC	SYS LOGIC,MA030,W/W	D						
	007	01	400033704	0		REF	PC	SYS LOGIC,MA035,W/W	D						
	008	01	400033801	4		REF	PC	SYS LOGIC,MA040,W/W	D						
	009	01	400033902	9		REF	PC	SYS LOGIC,MA045,W/W	D						
	010	01	400034001	9		REF	PC	SYS LOGIC,MA050,W/W	D						
	011	01	400034102	6		REF	PC	SYS LOGIC,MA060,W/W	D						
	500	01	400010104	0		REF	PC	CKT CD,MA,W/W ASSEMBLY	S						
								0013 TOTAL LINES							



LOC KA62	LOC KA58	LOC KA54 /16	LOC KA50	LOC KA46	LOC KA42	LOC KA38	LOC KA34	LOC KA30	LOC KA26	LOC KA22	LOC KA18	LOC KA14	LOC KA10	LOC KA06	LOC KA02
PN IC:	PN IC:	PN IC:E096	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:
		10 MA030CA6													
		11													
		13													
		14													
		15													
RE2	QE2	12 PE2	NE2	ME2	LE2	KE2	JE2	HE2	GE2	FE2	EE2	DE2	CE2	BE2	AE2
GNDKG63	GNDKG59	GNDKG55	GNDKG51	GNDKG47	GNDKG43	GNDKG39	GNDKG35	GNDKG31	GNDKG27	GNDKG23	GNDKG19	GNDKG15	GNDKG11	GNDKG07	GNDKG07
RE6	QE6	5 PE6	NE6	ME6	LE6	KE6	JE6	HE6	GE6	FE6	EE6	DE6	CE6	BE6	AE6
+5VKD63	+5VKD59	+5VKD55	+5VKD51	+5VKD47	+5VKD43	+5VKD39	+5VKD35	+5VKD31	+5VKD27	+5VKD23	+5VKD19	+5VKD15	+5VKD11	+5VKD07	+5VKD07

LOC MA62 /14	LOC MA58	LOC MA54	LOC MA50	LOC MA46	LOC MA42 /16	LOC MA38 /16	LOC MA34 /16	LOC MA30 /16	LOC MA26 /16	LOC MA22 /16	LOC MA18 /16	LOC MA14 /16	LOC MA10 /16	LOC MA06 /16	LOC MA02 /20
PN IC:E032	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:D139	PN IC:RP16	PN IC:N116	PN IC:N116	PN IC:N116	PN IC:N116	PN IC:N116	PN IC:N116	PN IC:N116	PN IC:N116	PN IC:E245
3 MA060DD6					4	05,06,07	14 MA025EL2	14 MA025EM2	14 MA025ED2	14 MA025EA2	14 MA025CL2	14 MA025CH2	14 MA025CD2	14 MA025CA2	11 MA025DF9
6 MA060DE6					5 MA015AL3	08,10,11									12 MA025DF8
8 MA065DF6					6	12,13,14									13 MA025DF7
11 MA030CD6					7	15									14 MA025DF6
					9										15 MA025DF5
					10	** * ONLY *									16 MA025DF4
					11	** UNUSED									17 MA025DF3
					12	** * PINS *									18 MA025DF2
7 RD2	QD2	PD2	ND2	MD2	LD2	KD2	16 JD2	16 HD2	16 GD2	16 FD2	16 ED2	16 DD2	16 CD2	16 BD2	10 AD2
GNDHG63	GNDHG59	GNDHG55	GNDHG51	GNDHG47	GNDHG43	GNDHG39	GNDHG35	GNDHG31	GNDHG27	GNDHG23	GNDHG19	GNDHG15	GNDHG11	GNDHG07	GNDHG07
14 RD6	QD6	PD6	ND6	MD6	16 LD6	16 KD6	9 JD6	9 HD6	9 GD6	9 FD6	9 ED6	9 DD6	9 CD6	9 BD6	20 AD6
+5VMD63	+5VMD59	+5VMD55	+5VMD51	+5VMD47	+5VMD43	+5VMD39	+5VMD35	+5VMD31	+5VMD27	+5VMD23	+5VMD19	+5VMD15	+5VMD11	+5VMD07	+5VMD07

LOC FA62	LOC FA58 /16	LOC FA54 /14	LOC FA50 /14	LOC FA46 /14	LOC FA42 /14	LOC FA38 /14	LOC FA34 /14	LOC FA30 /14	LOC FA26 /14	LOC FA22 /16	LOC FA18 /16	LOC FA14 /16	LOC FA10	LOC FA06	LOC FA02 /14
PN IC:	PN IC:E175	PN IC:E002	PN IC:E074	PN IC:E086	PN IC:D008	PN IC:D000	PN IC:D004	PN IC:D074	PN IC:D074	PN IC:D157	PN IC:D157	PN IC:D163	PN IC:	PN IC:	PN IC:D074
	2	1 MA030CJ6	5 MA030AH2	5 MA035AJ6	3 MA035DJ6	3 MA035EK6	3 MA020AE2	2 MA020AB2	5 MA020DG6	5 MA020CE6	4 MA020CL6	4 MA020CJ6	11		5 MA005CH2
	3	4 MA035AG2	6 MA035AJ2	6 MA035DD6	6 MA035EL6	6 MA020BG2	4 MA020AC2	6 MA020DG2	6 MA020CE2	7 MA020CL7	7 MA020CJ7	12		6 MA005CH2	
	6 MA030CK2	10 MA045EF2	8 MA035CD2	8 MA035BL6	8 MA005BH6	8 MA020CA2	6 MA020AF2	8	8 MA020CG2	9 MA020CL8	13 MA020CJ8	13 MA005AK3		8	
	7 MA030CK6	13 MA030CC2	9 MA035CD6	11	11 MA035AM6	11	8 MA020CC2	9 MA045CE6	9 MA020CG6	12	12 MA020CJ9	14 MA005AK2		9	
	10 MA030CL6						10 MA020DE2					15			
	11						12 MA020DF2								
	14														
	15 MA030C96														
RC2	8 QC2	7 PC2	7 NC2	7 MC2	7 LC2	7 KC2	7 JC2	7 HC2	7 GC2	8 FC2	8 EC2	8 DC2		CC2	7 BC2	7 AC2
GNDFG63	GNDFG59	GNDFG55	GNDFG51	ME6	GNDFG43	GNDFG39	GNDFG35	GNDFG31	GNDFG27	GNDFG23	GNDFG19	GNDFG15		GNDFG11	GNDFG07	GNDFG07
RC6	16 QC6	14 PC6	14 NC6	14 MC6	14 LC6	14 KC6	14 JC6	14 HC6	14 GC6	16 FC6	16 EC6	15 DC6		CC6	14 BC6	14 AC6
+5VFD63	+5VFD59	+5VFD55	+5VFD51	+5VFD47	+5VFD43	+5VFD39	+5VFD35	+5VFD31	+5VFD27	+5VFD23	+5VFD19	+5VFD15		+5VFD11	+5VFD07	+5VFD07

LOC DA64 /40	LOC DA58 /20	LOC DA54 /14	LOC DA50 /16	LOC DA46 /16	LOC DA42 /16	LOC DA38 /16	LOC DA34 /14	LOC DA30 /18	LOC DA26 /18	LOC DA22 /20	LOC DA18 /14	LOC DA14 /16	LOC DA10	LOC DA06 /40	LOC DA02 /14
PN IC:U771	PN IC:E245	PN IC:E004	PN IC:E175	PN IC:E175	PN IC:E193	PN IC:RP16	PN IC:D010	PN IC:X137	PN IC:X137	PN IC:E244	PN IC:E004	PN IC:D163	PN IC:	PN IC:U080	PN IC:E040
15 MA030BC2	11 MA030A98	2 MA035B02	2 MA035BG6	2 MA035BD6	2	1 6	MA020BE2	11 MA015BBB	11 MA015BD8	3 MA015CE5	2	11		1 MA005BB	8 MA005BM2
16 MA030BC3	12 MA030A88	4 MA035BB2	3	3 MA035BD2	3	* NONE *	8 MA015BB2	12 MA015BB9	12 MA015BD6	5 MA015CE4	4 MA020DM2	12 MA005AD4		18	
17 MA030BC4	13 MA030A87	6 MA035BC2	6		6	12	MA020BC2	13 MA015BB9	13 MA015BN9	7 MA015CE3	6 MA065BH2	13 MA005AD3		19	
28	14 MA030A86	8 MA030DM2	7 MA035BH6	7	7 MA035CL8	** * ONLY *		14 MA015BB8	14 MA015BD8	9 MA015CE2	8 MA015AF2	14		1 ** * ONLY *	
29	15 MA030AH5	10 MA030DD2	10 MA035CJ6	10 MA035BE6	12	** UNUSED				12 MA015CC5	10 MA015BK2	15		2 ** BLOCKS	
30 MA030BC5	16 MA030BA4	12	11	11	13	** * PINS *				14 MA015CC4	12 MA010CM2				
31 MA030BC6	17 MA030AA3		14	14						16 MA015CC3					
38	18 MA030AH2		15	15 MA035CF6						18 MA015CC2					
39 MA030BCA															
20 RB2	10 QB2	7 PB2	8 NB2	8 MB2	8 LB2	KB2	7 JB2	9 HB2	9 GB2	10 FB2	7 EB2	8 DB2	CB2	29 BB2	7 AB2
GNDDG63	GNDDG59	GNDDG55	GNDDG51	GNDDG47	GNDDG43	GNDDG39	GNDDG35	GNDDG31	GNDDG27	GNDDG23	GNDDG19	GNDDG15	GNDDG11	GNDDG07	GNDDG07
21 RB6	20 QB6	14 PB6	16 NB6	16 MB6	16 LB6	16 KB6	14 JB6	18 HB6	18 GB6	20 FB6	14 EB6	16 DB6	CB6	11 BB6	14 AB6
+5VDD63	+5VDD59	+5VDD55	+5VDD51	+5VDD47	+5VDD43	+5VDD39	+5VDD35	+5VDD31	+5VDD27	+5VDD23	+5VDD19	+5VDD15	+5VDD11	+5VDD07	+5VDD07

LOC BA62 /14	LOC BA58 /14	LOC BA54 /16	LOC BA50	LOC BA46 /24	LOC BA42 /14	LOC BA38 /16	LOC BA34	LOC BA30	LOC BA26 /14	LOC BA22 /14	LOC BA18 /14	LOC BA14 /20	LOC BA10 /20	LOC BA06 /20	LOC BA02 /20
PN IC:A038	PN IC:E014	PN IC:TR16	PN IC:	PN IC:A154	PN IC:E000	PN IC:A123	PN IC:	PN IC:	PN IC:D000	PN IC:E020	PN IC:E002	PN IC:E244	PN IC:E244	PN IC:E244	PN IC:E245
3 MA030DM2	2 MA035AA2	11,12,15		1 MA015DA	3 MA060BJ2	4 MA045BJ2			3 MA065BJ2	1 MA015AG2	6 MA015BH2	3 MA010CK5	3 MA010CE5	3	11 MA005DK9
6 MA030DL2	4 MA035AB2	14,15		3	6 MA060BL2	5 MA045DE6			6 MA065CJ2	4 MA015AH2	8 MA015BJ2	5 MA010CK4	5	5	12 MA005DK8
8 MA030DJ2	6 MA035AC2			** * ONLY *	8 MA060CK2	12 MA045DE2			8 MA065DK2	6 MA015AJ2		7 MA010CK3	7 MA010CE3	7 MA005DG3	13 MA005DK7
11 MA030DH2	8 MA035AD2	** * ONLY *		** BLOCKS	11	13			11 MA065AF2	13 MA015AK2		9 MA010CK2	9 MA010CE2	9 MA005DG2	14 MA005DK6
	10 MA045BE2	** UNUSED										12 MA010CH5	12 MA010CC5	12 MA005DF5	15 MA005DK5
	12 MA045BJ2	** * PINS *										14 MA010CH4	14 MA010CC4	14 MA005DF4	16 MA005DK4
												16 MA010CH3	16 MA010CC3	16 MA005DF3	17 MA005DK3
												18 MA010CH2	18 MA010CC2	18 MA005DF2	18 MA005DK2
7 RA2	7 QA2	8 PA2	MA2	12 MA2	7 LA2	8 KA2	JA2	HA2	7 GA2	7 FA2	7 EA2	10 DA2	10 CA2	10 BA2	10 AA2
GNDBG63	GNDBG59	GNDBG55	GNDBG51	GNDBG47	GNDBG43	GNDBG39	GNDBG35	GNDBG31	GNDBG27	GNDBG23	GNDBG19	GNDBG15	GNDBG11	GNDBG07	GNDBG07
14 RA6	QA6	16 PA6	2a MA6	MA6	14 LA6	16 KA6	JA6	14 HA6	GA6	14 FA6	14 EA6	20 DA6	20 CA6	20 BA6	20 AA6
+5VBD63	+5VBD59	+5VBD55	+5VBD51	+5VBD47	+5VBD43	+5VBD39	+5VBD35	+5VBD31	+5VBD27	+5VBD23	+5VBD19	+5VBD15	+5VBD11	+5VBD07	+5VBD07

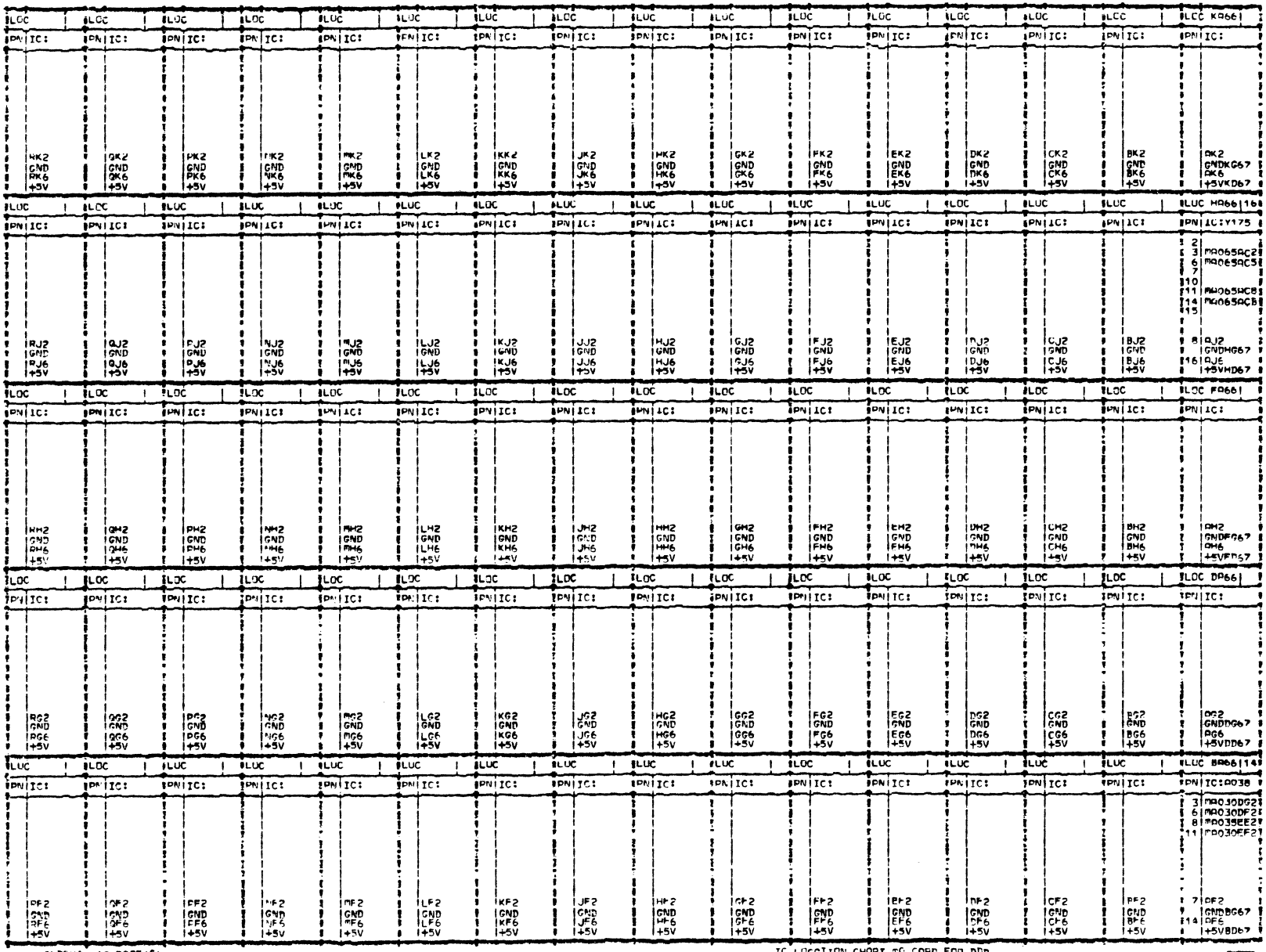
INDEX: 12 PAGE(S)

PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL
MA005	4000200032	46082	MA030	4000205023	46082	MA060	4000210023	46082
MA010	4000201014	46002	MA035	4000206047	46118	MA065	4000211013	46002
MA015	4000202012	46002	MA040	4000207011	46002			
MA020	4000203010	46002	MA045	4000208027	46082			
MA025	4000204018	46002	MA050	4000209017	46002			

IC LOCATION CHART MB CARD FOR DDD

PRESENT EC 46118	DATE 7/07/81		CD PN	4000101040	PAGE 1
PREV EC 46082	PAGE PN 4000055048	CD TYPE MB	FLEVEL	PROTUTYP	OF 2

HMB2 07/08/81 07/08/81 PAGE: PDDD516 XX



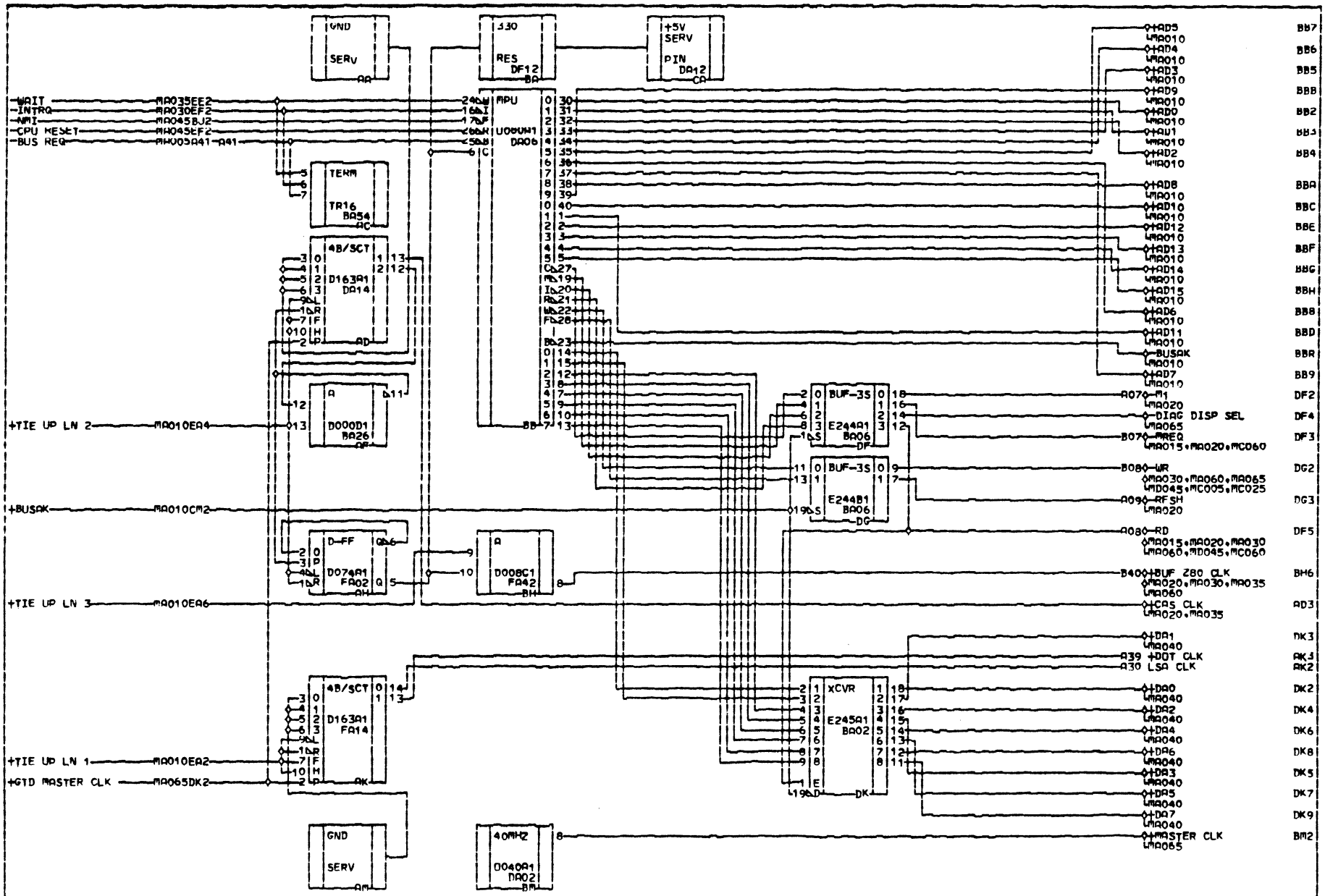
INDEX: 12 PAGE(S)

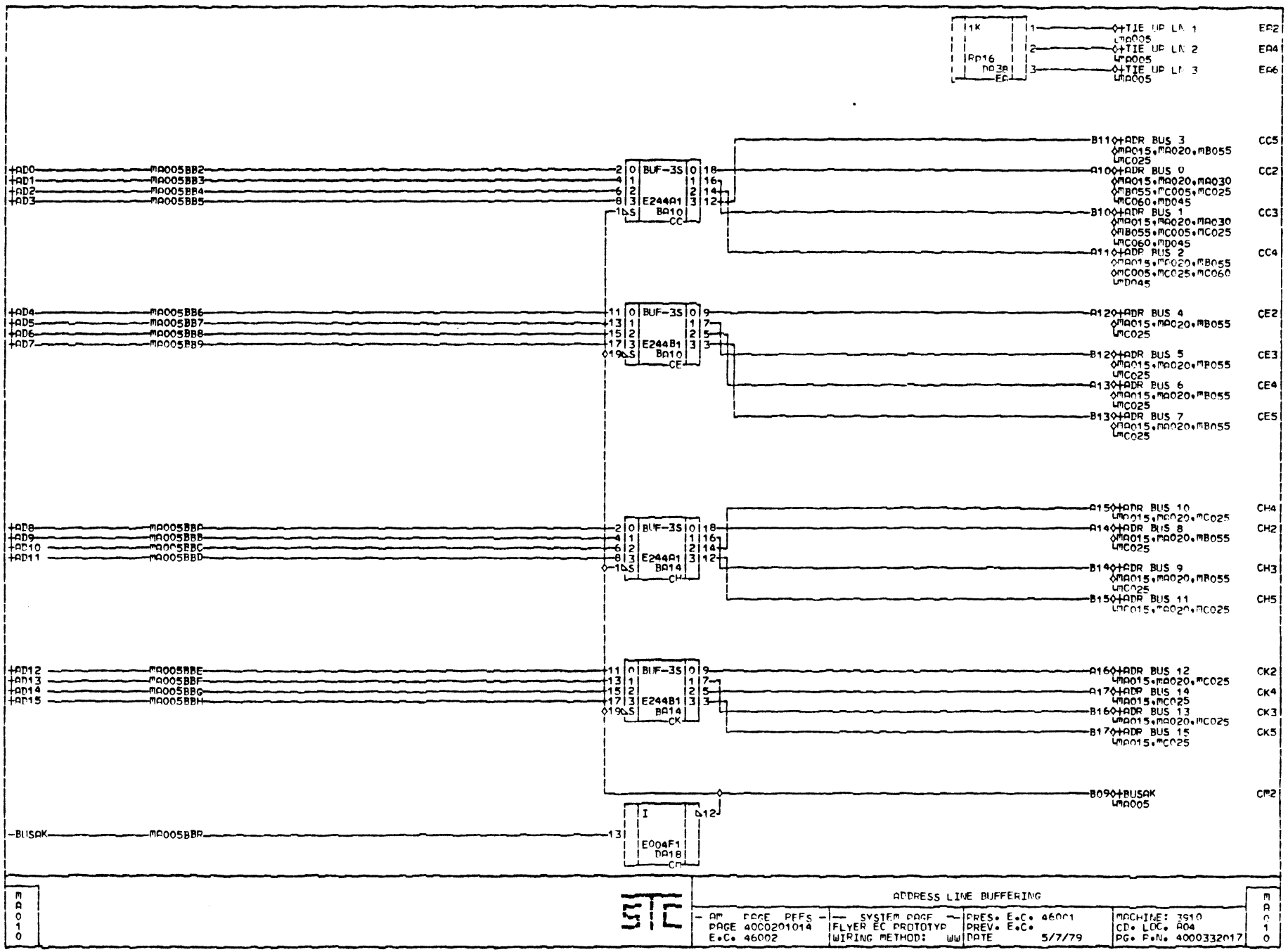
PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL
MA005	4000200032	46082	MA030	4000205023	46082	MA060	4000210023	46082
MA010	4000201014	46002	MA035	4000206047	46118	MA065	4000211013	46002
MA015	4000202012	46002	MA040	4000207011	46002			
MA020	4000203010	46002	MA045	4000208027	46082			
MA025	4000204018	46002	MA050	4000209017	46002			

TC LOCATION CHART MC CARD FOR DDD

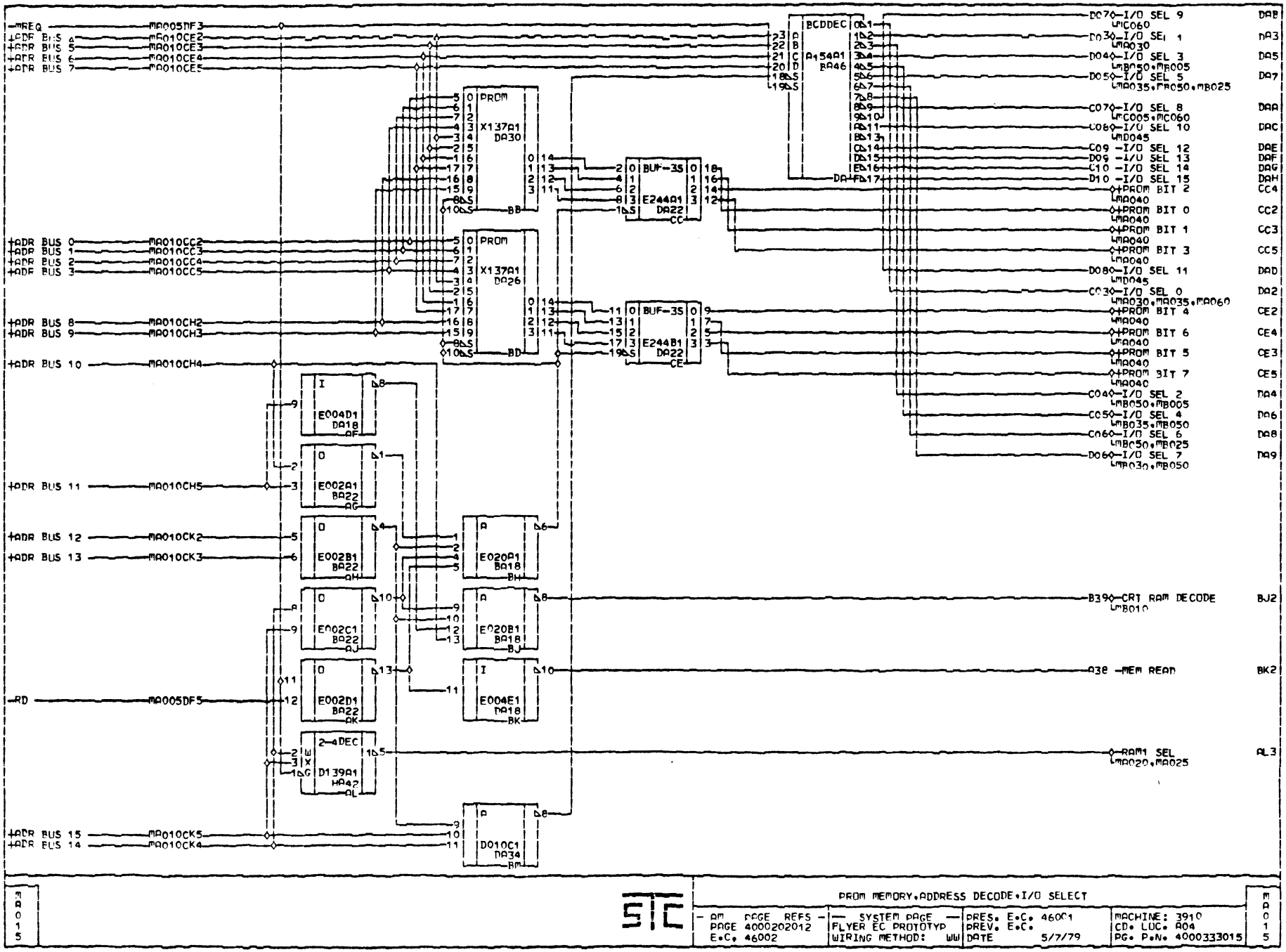
PRESENT EC 46118	DATE 7/07/81		CD PN	4000101040	PAGE 2 OF 2
PREV EC 46082	PAGE PN 4000055048	CD TYPE MA	FLEVEL	PROTOTYP	

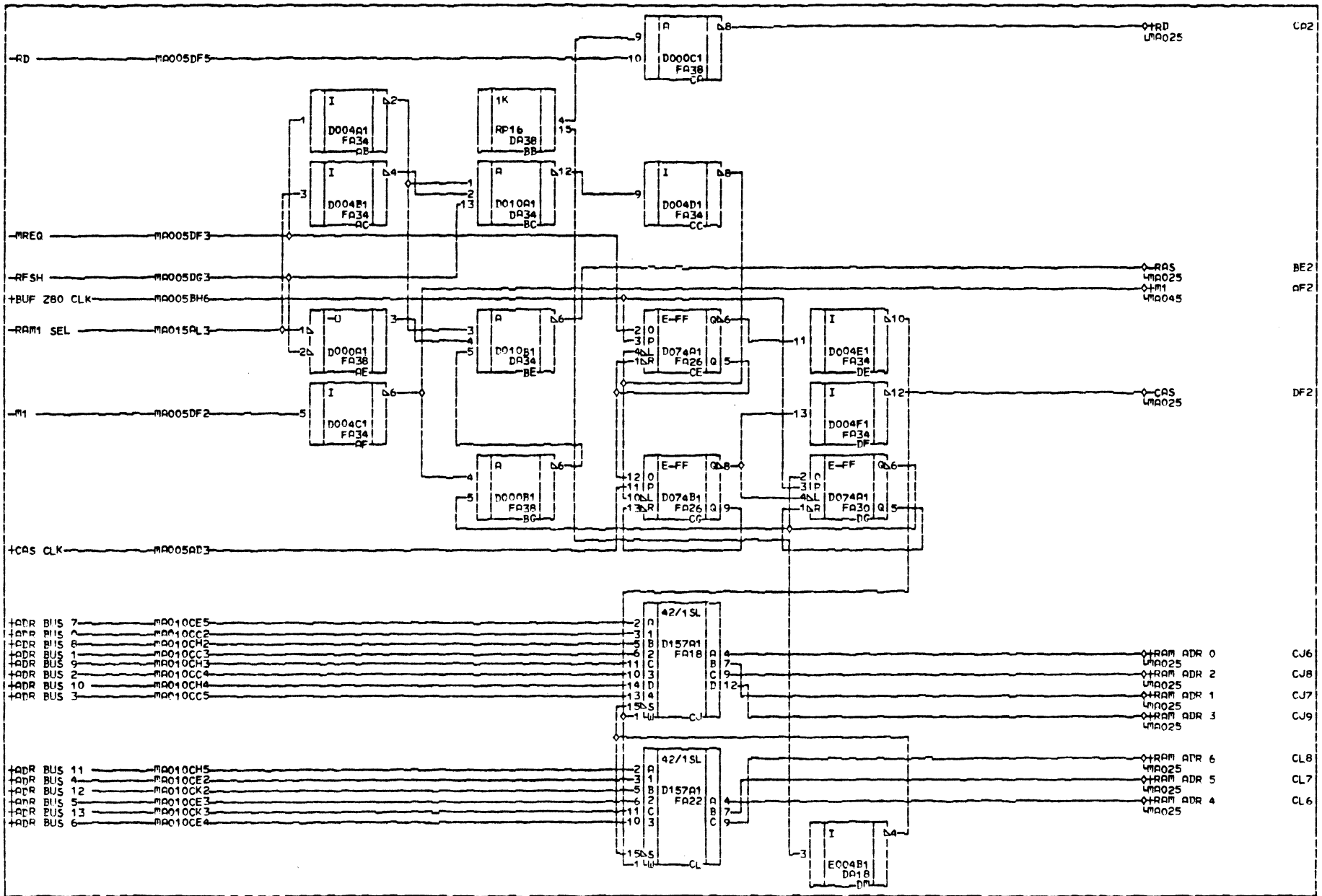
HMA2 07/08/81 07/06/81 PROF: PDDD516 XX


GND
SERV
330
RES
DF12
+5V
SERV
PIN
WAIT
INTRQ
NMI
CPU RESET
BUS REQ
MPU
TERM
TR16
4B/SCT
D163A1
BUF-3S
E244A1
BUF-3S
E244B1
D-FF
D074A1
D008C1
4B/SCT
D163A1
XCVR
E245A1
GND
SERV
40MHZ
D040A1
+TIE UP LN 2
+BUSAK
+TIE UP LN 3
+TIE UP LN 1
+GTD MASTER CLK
DIAG DISP SEL
WR
RFSH
RD
BUF Z80 CLK
CAS CLK
MASTER CLK
MICRO-PROCESSOR,CLOCKS,AND BUFFER CIRCUITS
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. 46082
PREV. E.C. 46033
DATE 7/03/80
MACHINE: 3910
PG. P.N. 4000331043



MA010	ADDRESS LINE BUFFERING				MA010
	- AM PAGE REFS - PAGE 4000201014 E.C. 46002	- SYSTEM PAGE - FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4000332017	


-MREQ MA005DF3
+ADR BUS 4 MA010CE2
+ADR BUS 5 MA010CE3
+ADR BUS 6 MA010CE4
+ADR BUS 7 MA010CE5
+ADR BUS 0 MA010CC2
+ADR BUS 1 MA010CC3
+ADR BUS 2 MA010CC4
+ADR BUS 3 MA010CC5
+ADR BUS 8 MA010CH2
+ADR BUS 9 MA010CH3
+ADR BUS 10 MA010CH4
+ADR BUS 11 MA010CH5
+ADR BUS 12 MA010CK2
+ADR BUS 13 MA010CK3
-RD MA005DF5
+ADR BUS 15 MA010CK5
+ADR BUS 14 MA010CK4
PROM X137A1 DA30
PROM X137A1 DA26
BUF-3S E244A1 DA22 CC
BUF-3S E244B1 DA22 CE
BCDDEC A154A1 BA46
E004D1 DA18 AF
E002A1 BA22 AG
E002B1 BA22 AH
E020A1 BA18 BH
E002C1 BA22 AJ
E020B1 BA18 BJ
E002D1 BA22 AK
E004E1 DA18 BK
2-4DEC D139A1 HA42 AL
D010C1 DA34 BM
D070-I/O SEL 9 DAB
D030-I/O SEL 1 DA3
D040-I/O SEL 3 DA5
D050-I/O SEL 5 DA7
C070-I/O SEL 8 DAA
C060-I/O SEL 10 DAC
C09 -I/O SEL 12 DAE
D09 -I/O SEL 13 DAF
C10 -I/O SEL 14 DAG
D10 -I/O SEL 15 DAH
+PROM BIT 2 CC4
+PROM BIT 0 CC2
+PROM BIT 1 CC3
+PROM BIT 3 CC5
D080-I/O SEL 11 DAD
C030-I/O SEL 0 DA2
+PROM BIT 4 CE2
+PROM BIT 6 CE4
+PROM BIT 5 CE3
+PROM BIT 7 CE5
C040-I/O SEL 2 DA4
C050-I/O SEL 4 DA6
C060-I/O SEL 6 DA8
D060-I/O SEL 7 DA9
B39 -CRT RAM DECODE BJ2
A38 -MEM READ BK2
-RAM1 SEL AL3
PROM MEMORY,ADDRESS DECODE,I/O SELECT
MA015
SIC
- AM PAGE REFS - PAGE 4000202012 E.C. 46002
— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW
PRES. E.C. 46001 PREV. E.C. DATE 5/7/79
MACHINE: 3910 CD. LOC. A04 PG. P.N. 4000333015



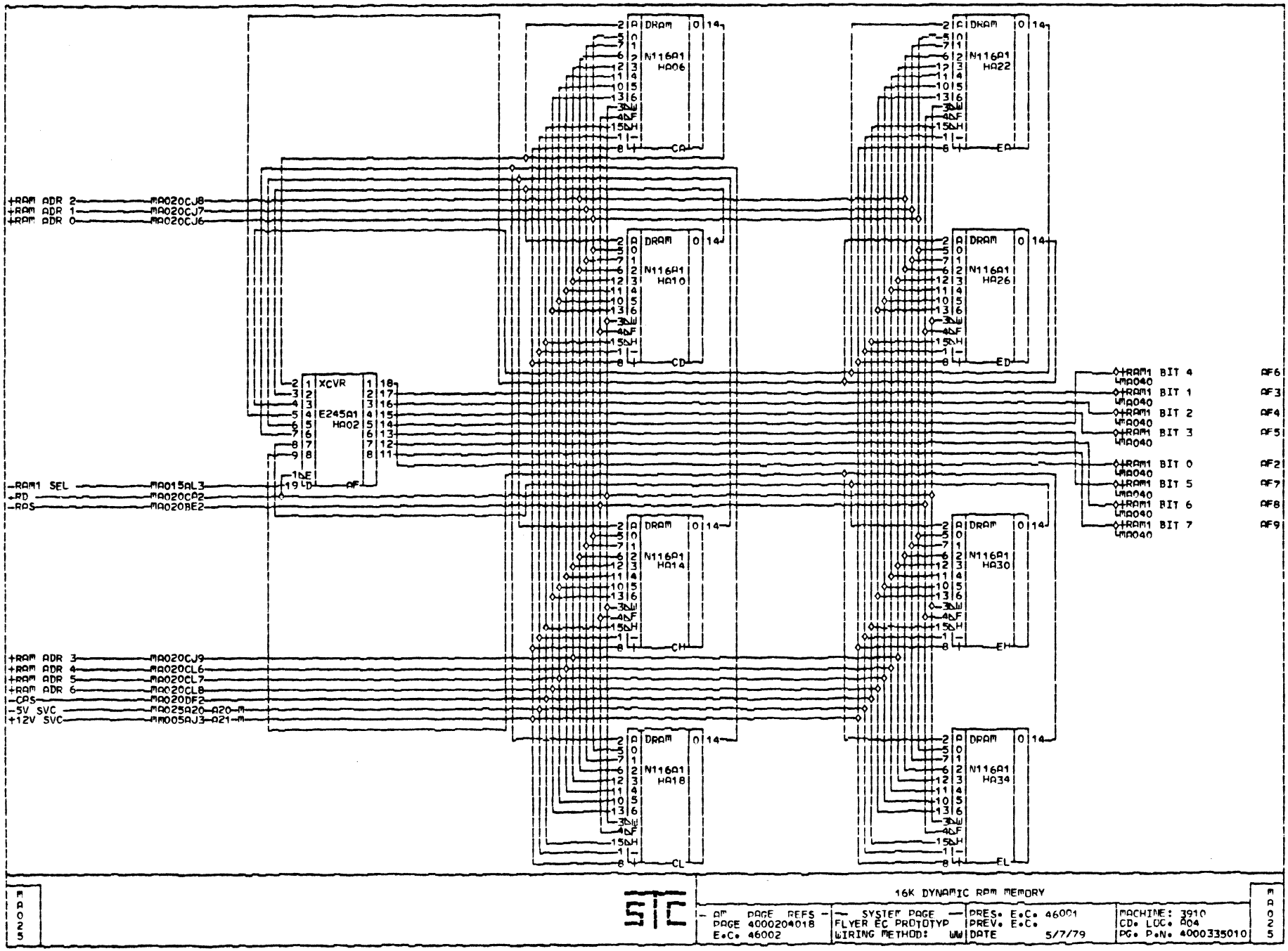
MA020

STC

DYNAMIC RAM ADDRESS CONTROL AND MULTIPLEXING

AM PAGE REFS — PAGE 4000203010 E.C. 46002	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4000334013

MA020



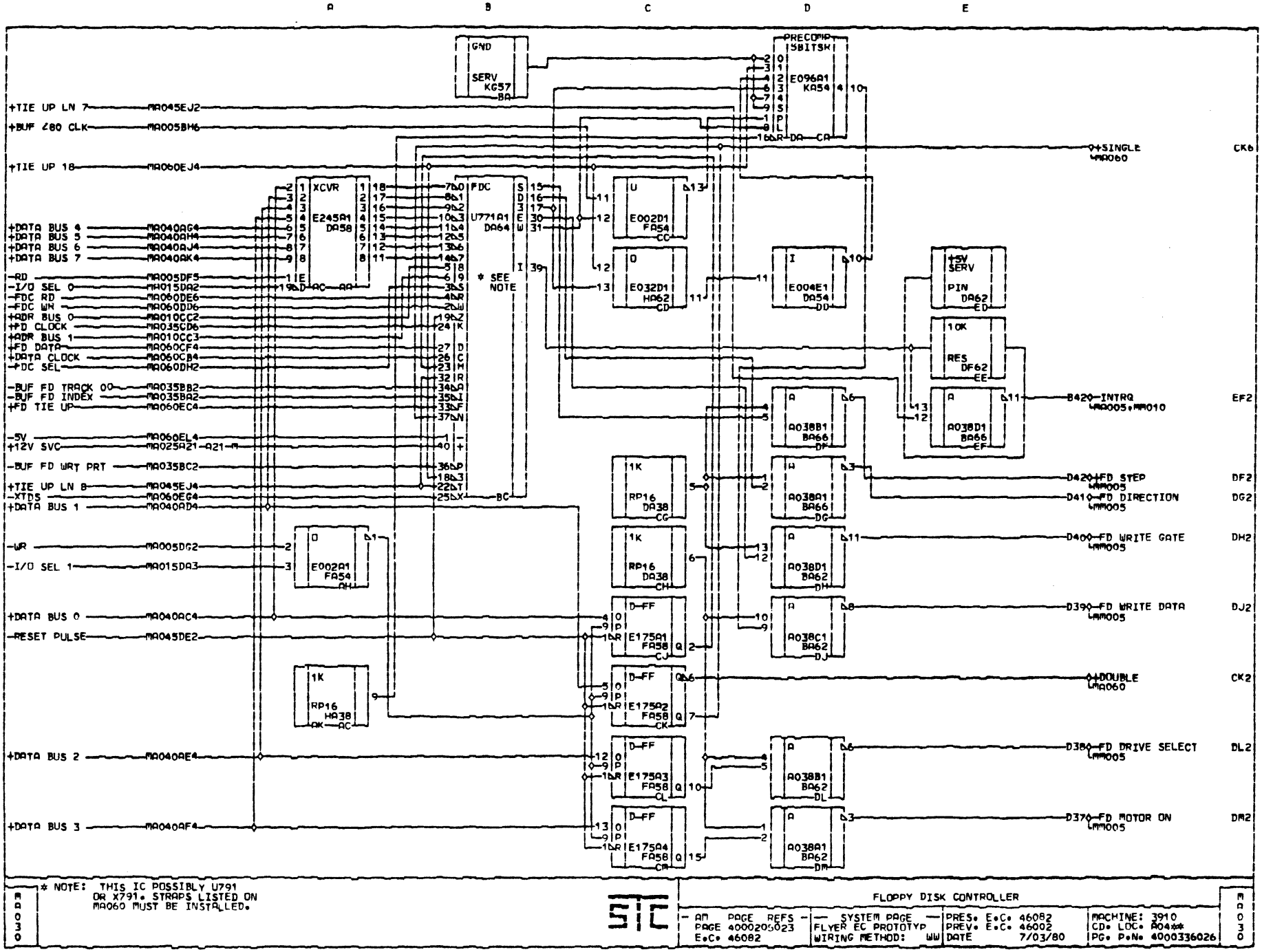
MA025

16K DYNAMIC RAM MEMORY

— AM PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46001	MACHINE: 3910
PAGE 4000204018	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. 004
E.C. 46002	WIRING METHOD: WW	DATE 5/7/79	PG. P.N. 4000335010

MA025

HMA2 05/11/79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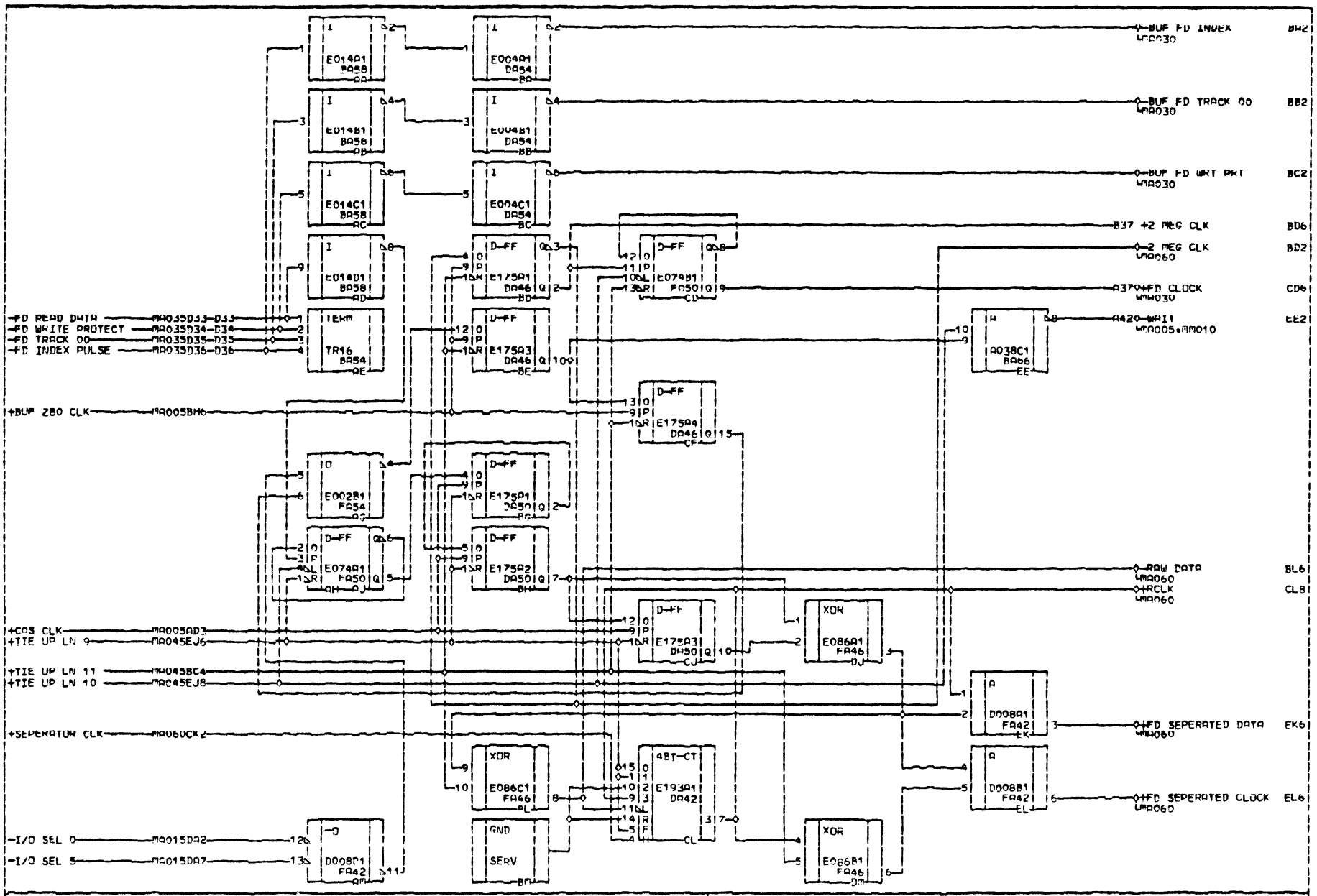
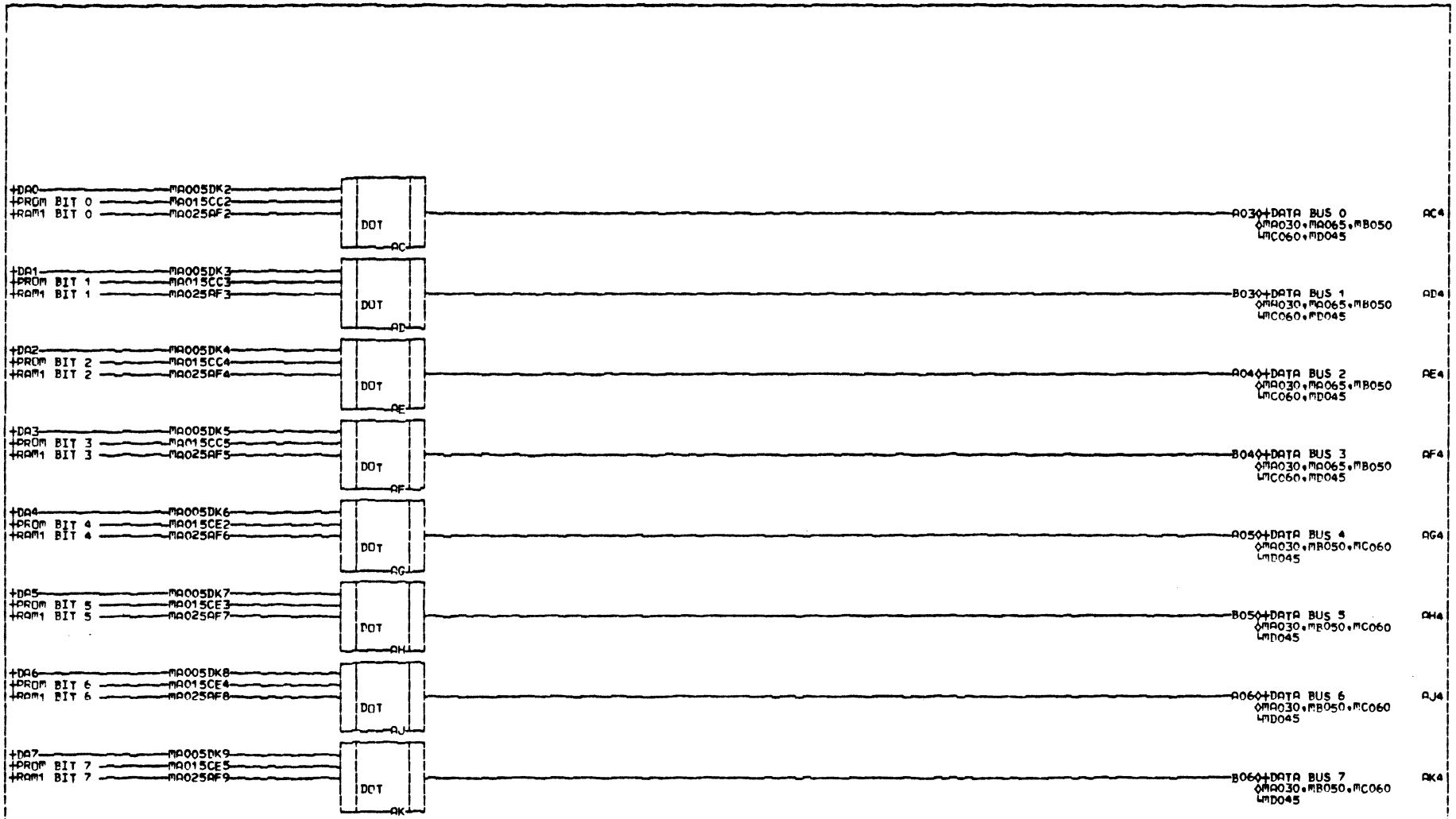
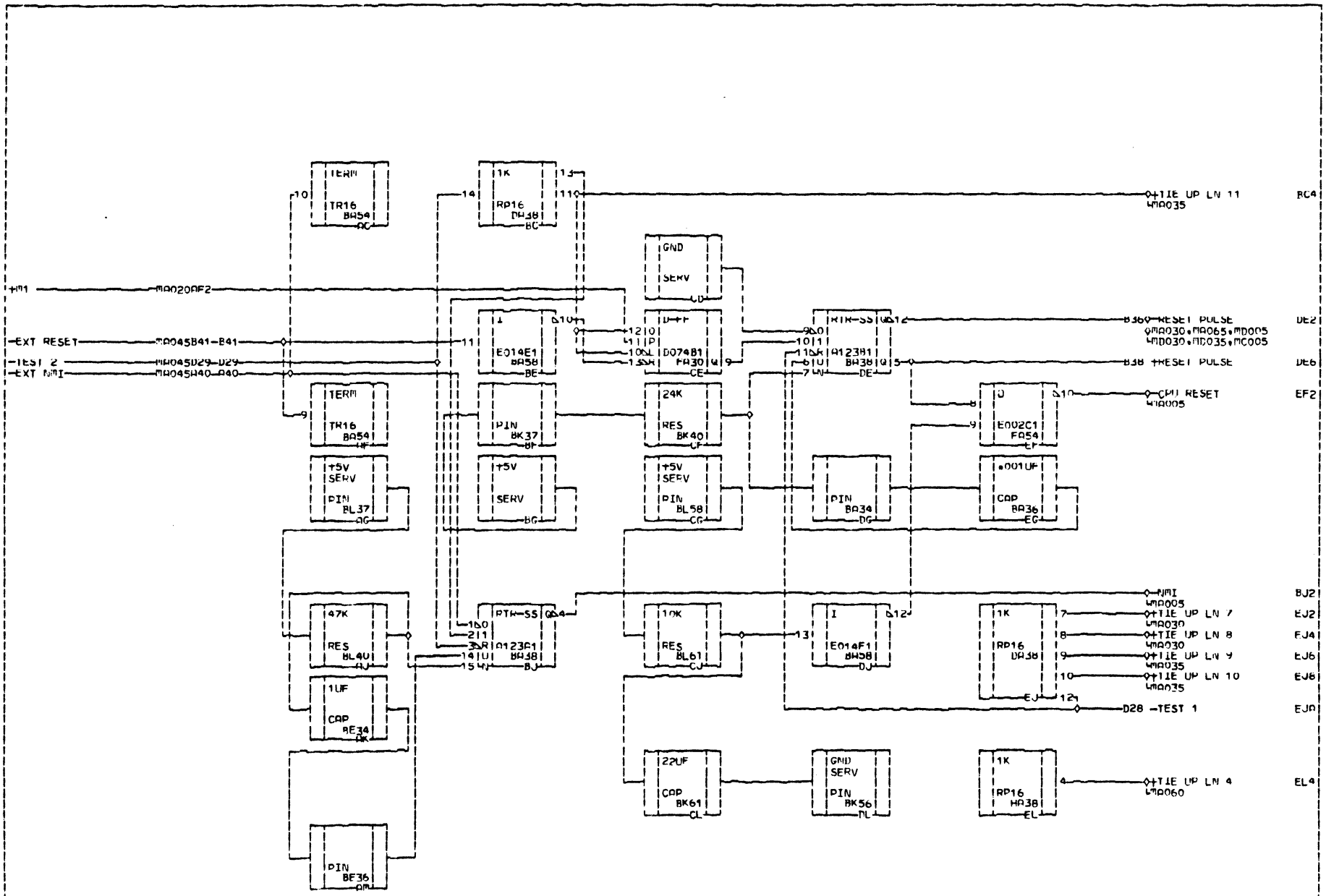
+BUF Z80 CLK MA005BM6
+TIE UP 18 MA060EJ4
+DATA BUS 4 MA040AG4
+DATA BUS 5 MA040AH4
+DATA BUS 6 MA040AJ4
+DATA BUS 7 MA040AK4
-RD MA005DF5
-I/O SEL 0 MA015DA2
-FDC RD MA060DE6
-FDC WR MA060DD6
+ADR BUS 0 MA010CC2
+FD CLOCK MA035CD6
+ADR BUS 1 MA010CC3
+FD DATA MA060CF4
+DATA CLOCK MA060CB4
-DC SEL MA060DH2
-BUF FD TRACK 00 MA035BB2
-BUF FD INDEX MA035BA2
+FD TIE UP MA060EC4
-5V MA060EL4
+12V SVC MA025A21-A21
-BUF FD WRT PRT MA035BC2
+TIE UP LN 8 MA045EJ4
-XTDS MA060EC4
+DATA BUS 1 MA040AD4
-WR MA005DG2
-I/O SEL 1 MA015DA3
+DATA BUS 0 MA040AC4
-RESET PULSE MA045DE2
+DATA BUS 2 MA040AE4
+DATA BUS 3 MA040AF4
GND
SERV KG57 BA
PRECOMP SBITSK
E096A1 KA54
+SINGLE MA060
XCVR E245A1 DA58
FDC U771A1 DA64
* SEE NOTE
U E002D1 FA54 CC
O E032D1 HA62 CD
I E004E1 DA54 DD
+5V SERV PIN DA62 ED
10K RES DF62 EE
A A038B1 BA66 DF
A A038D1 BA66 EF
B420 INTRQ MA005,MA010
1K RP16 DA38 CG
A A038A1 BA66 DG
D420 FD STEP MA005
D410 FD DIRECTION MA005
1K RP16 DA38 CH
A A038D1 BA62 DH
D400 FD WRITE GATE MA005
D FF E175A1 FA58 CJ
A A038C1 BA62 DJ
D390 FD WRITE DATA MA005
1K RP16 HA38 AK-AC
D FF E175A2 FA58 CK
+DOUBLE MA060
D FF E175A3 FA58 CL
A A038B1 BA62 DL
D380 FD DRIVE SELECT MA005
D FF E175A4 FA58 CM
A A038A1 BA62 DM
D370 FD MOTOR ON MA005
* NOTE: THIS IC POSSIBLY U791 OR X791. STRAPS LISTED ON MA060 MUST BE INSTALLED.
FLOPPY DISK CONTROLLER
AM PAGE REFS - PAGE 4000205023 E.C. 46082
SYSTEM PAGE - FLYER EC PROTOTYP WIRING METHOD: WW
PRES. E.C. 46082 PREV. E.C. 46002 DATE 7/03/80
MACHINE: 3910 CD. LOC. A04** PG. P.NO. 4000336026
MA030



MA035	FLOPPY DISK DATA SEPERATOR AND CLOCK				MA035
	- AM PAGE REFS - PAGE 4000206047 E•C• 46118	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES• E•C• 46118 PREV• E•C• 46082 DATE 07/08/81	MACHINE: 3910 CD• LOC• A04** FG• P•N• 4000337040	



MA040	STC	DATA BUS CONNECTIONS			MAC40
– AM PAGE REFS – PAGE 4000207011 E.C. 46002	– SYSTEM PAGE – FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4000338014		

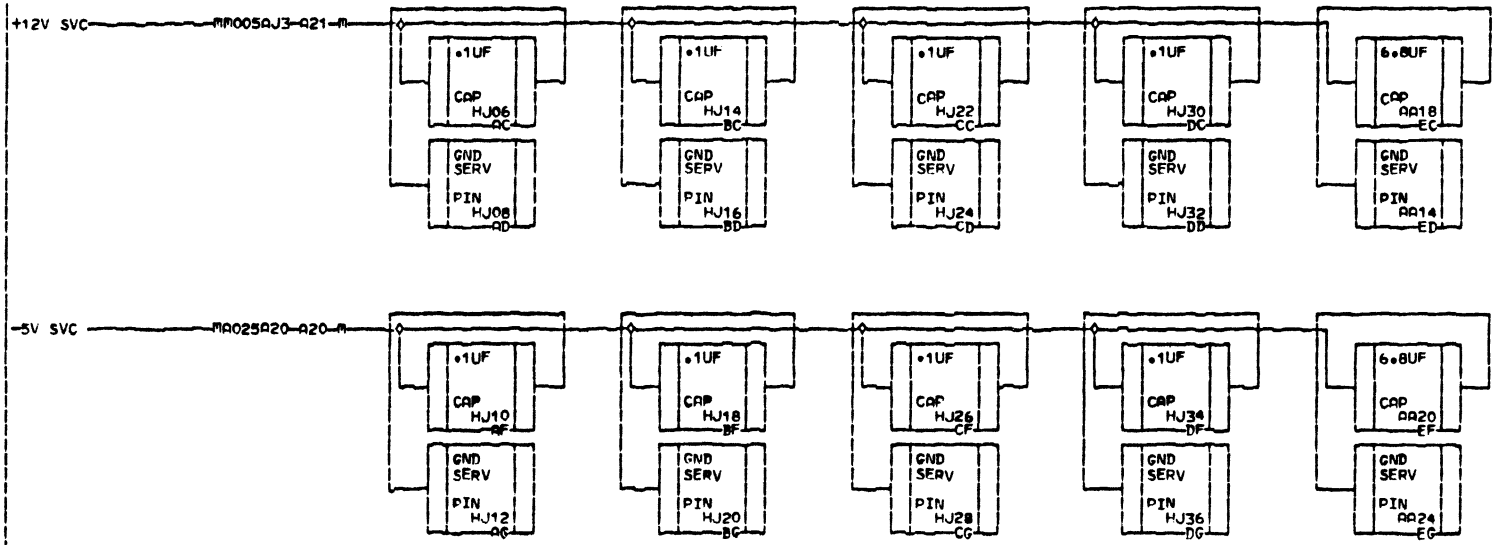


EXTERNAL RESET CIRCUIT

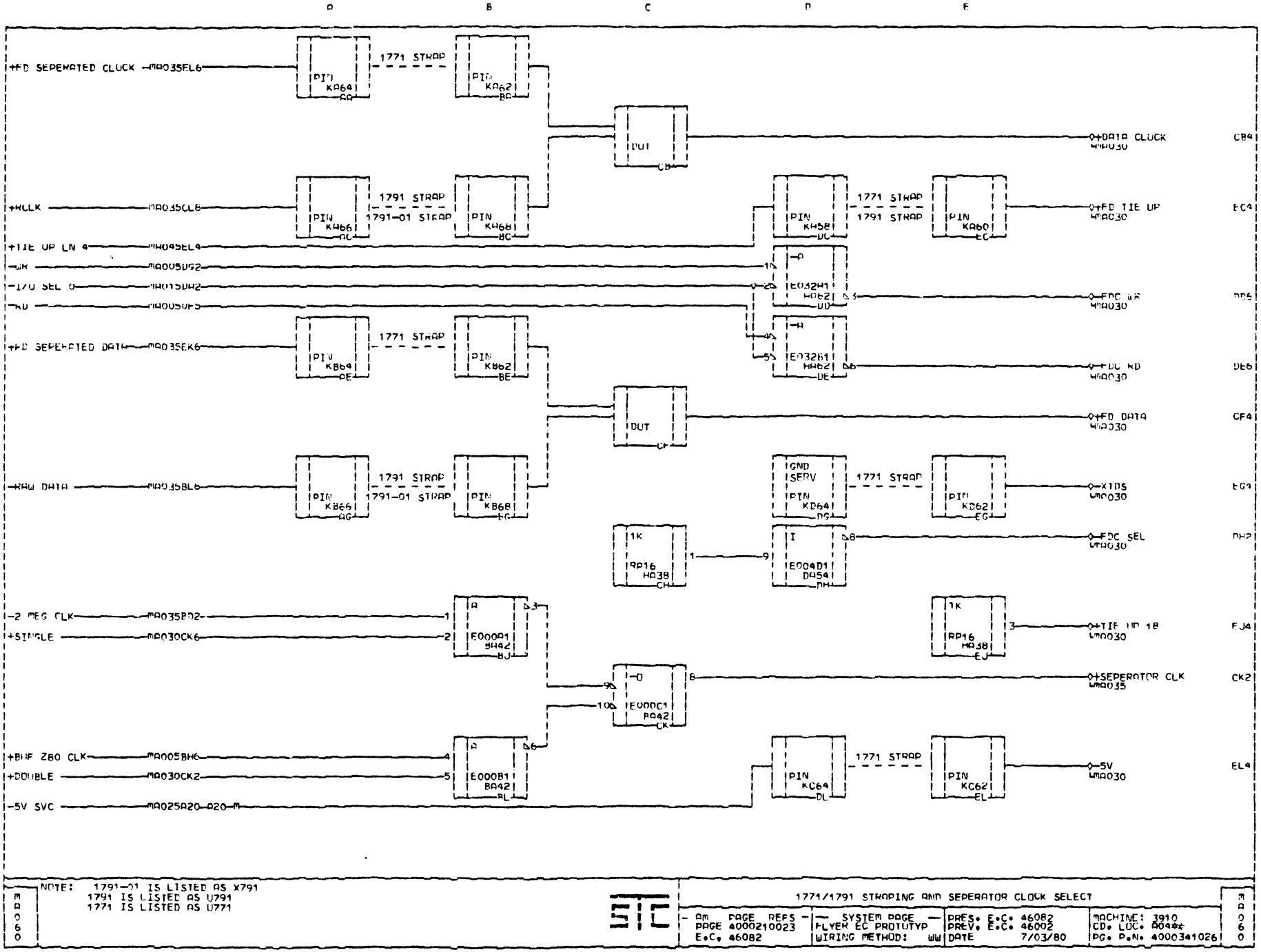
- AM PAGE REFS -	— SYSTEM PAGE —	PRES• E•C• 46082	MACHINE: 3910
PAGE 4000208027	FLYER EC PROTOTYP	PREV• E•C• 46002	CD• LOC• A04**
E•C• 46082	WIRING METHOD: WW	DATE 7/03/80	PG• P•N• 4000339020

MA045

HMA2 07/28/80



MA050	STC	DYNAMIC RAM SUPPLY DECOUPLING			MA050
		- DR PAGE REFS - PAGE 4000209017 E.C. 46002	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	DRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4000340010



NOTE: 1791-01 IS LISTED AS X791
1791 IS LISTED AS U791
1771 IS LISTED AS U771

1771/1791 STRAPING AND SEPERATOR CLOCK SELECT

AM PAGE REFS — PAGE 4000210023 E.C. 46082	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46082 PREV. E.C. 46002 DATE 7/03/80	MACHINE: 3910 CD. LOC. A04** PG. P.NO. 4000341026

BUILD ABC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E.C. NO.
01-07-81	1	

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	401301204	4	C	N	SYS LGC GP,420010205,MA DC	N	REL	09-09-80	3910	09-09-80

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	001	01	420021204	5		REF	PC	CD LGC,AM205,MA PC	D						
	002	01	401300002	3		REF	PC	SYS LGC,MA 005,PC	D						
	003	01	401300101	3		REF	PC	SYS LGC,MA 010,PC	D						
	004	01	401300201	1		REF	PC	SYS LGC,MA 015,PC	D						
	005	01	401300301	9		REF	PC	SYS LGC,MA 020,PC	D						
	006	01	401300401	7		REF	PC	SYS LGC,MA 025,PC	D						
	007	01	401300503	0		REF	PC	SYS LGC,MA030,PC	D						
	008	01	401300603	8		REF	PC	SYS LGC,MA035,PC	D						
	009	01	401300701	0		REF	PC	SYS LGC,MA 040,PC	D						
	010	01	401300802	6		REF	PC	SYS LGC,MA045,PC	D						
	011	01	401300902	4		REF	PC	SYS LGC,MA050,PC	D						
	012	01	401301002	2		REF	PC	SYS LGC,MA060,PC	D						
	013	01	401301101	2		REF	PC	SYS LGC,MA 065,PC	D						
	999	01	420021205	6		REF	PC	CKT CD MA PC ASSY	S						
								0014 TOTAL LINES							

LOC KA62		LOC KA58		LOC KA54 16		LOC KA50		LOC KA46		LOC KA42		LOC KA38		LOC KA34		LOC KA30		LOC KA26		LOC KA22		LOC KA18		LOC KA14		LOC KA10		LOC KA06		LOC KA02	
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				11																									
				13																									
				14																									
				15																									
	RE2		QE2	12	PE2		NE2		ME2		LE2		KE2		JE2		HE2		GE2		FE2		EE2		DE2		CE2		BE2		AE2
	GNDKG63		GNDKG59		GNDKG55		GNDKG51		GNDKG47		GNDKG43		GNDKG39		GNDKG35		GNDKG31		GNDKG27		GNDKG23		GNDKG19		GNDKG15		GNDKG11		GNDKG07		GNDKG07
5	BE6		QE6		PE6		NE6		ME6		LE6		KE6		JE6		HE6		GE6		FE6		EE6		DE6		CE6		BE6		AE6
	+5VKD63		+5VKD59		+5VKD55		+5VKD51		+5VKD47		+5VKD43		+5VKD39		+5VKD35		+5VKD31		+5VKD27		+5VKD23		+5VKD19		+5VKD15		+5VKD11		+5VKD07		+5VKD07

LOC MA62 14		LOC MA58		LOC MA54		LOC MA50		LOC MA46 16		LOC MA42 16		LOC MA38 16		LOC MA34 16		LOC MA30 16		LOC MA26 16		LOC MA22 16		LOC MA18 16		LOC MA14 16		LOC MA10 16		LOC MA06 16		LOC MA02 20	
PN	IC:E032	PN	IC:	PN	IC:	PN	IC:	PN	IC:D139	PN	IC:RP16	PN	IC:N116	PN	IC:N116	PN	IC:N116	PN	IC:N116	PN	IC:N116	PN	IC:N116	PN	IC:N116	PN	IC:N116	PN	IC:D163	PN	IC:E245
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6	MA060PE5							5	MA015AL3		08•10•11																	12		12	MA025AF8
8	MA065AF6							6			12•13•14																	13	MA005AK3	13	MA025AF7
11	MA030CD6							7			15																	14	MA005AK2	14	MA025AF6
								9																				15		15	MA025AF5
								10		**	* UNLY *																			16	MA025AF4
								11		**	UNUSED																			17	MA025AF3
								12		**	* PINS *																			18	MA025AF2
7	RD2		QD2		PD2		ND2	8	MD2		LD2	16	KD2	16	JD2	16	HD2	16	GD2	16	FD2	16	ED2	16	DD2	16	CD2	8	BD2	10	AD2
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LOC FA62		LOC FA58 16		LOC FA54 14		LOC FA50 14		LOC FA46 14		LOC FA42 14		LOC FA38 14		LOC FA34 14		LOC FA30 14		LOC FA26 14		LOC FA22 16		LOC FA18 16		LOC FA14		LOC FA10		LOC FA06 16		LOC FA02 14	
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		3		4	MA035AG2	6	MA035AJ2	6	MA035DM6	6	MA035EL6	6	MA020BG2	4	MA020AC2	6	MA020DG2	6	MA020CE2	7	MA020CL7	7	MA020CJ7					12	MA005AD4	6	MA005AH2
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		11												12	MA020DF2																
		14																													
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LOC DA64 40		LOC DA58 20		LOC DA54 14		LOC DA50 16		LOC DA46 16		LOC DA42 16		LOC DA38 16		LOC DA34 14		LOC DA30 18		LOC DA26 18		LOC DA22 20		LOC DA18 14		LOC DA14		LOC DA10 40		LOC DA06 14		LOC DA02 14	
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16	MA030BC3	12	MA030AA8	4	MA035BB2	3		3	MA035BD2	3			* NONE *?	8	MA015BM2	12	MA015BDA	12	MA015BD9	5	MA015CE4	4	MA020DM2			10		6	MA065CJ2		
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28		14	MA030AA6	8	MA090H2	7	MA035BH6	7		7	MA035CL6	**	* UNLY *			14	MA015BB8	14	MA015BD8	9	MA015CE2	8	MA015AF2					11	MA005AF2		
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30	MA030BC5	16	MA030AA4	12		11		11		13		**	* PINS *							14	MA015CC4	12	MA010CM2			**	BLOCKS				
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38		18	MA030AA2			15		15	MA035CF6											18	MA015CC2										
39	MA030BCA																														
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LOC BA62 14		LOC BA58 14		LOC BA54 16		LOC BA50		LOC BA46 24		LOC BA42 14		LOC BA38 16		LOC BA34		LOC BA30		LOC BA26		LOC BA22 14		LOC BA18 14		LOC BA14 20		LOC BA10 20		LOC BA06 20		LOC BA02 20	
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6	MA030DL2	4	MA035AB2		12•13•14			6		6	MA060BL2	5	MA045DE6							4	MA015AH2	8	MA015BJ2	5	MA010CK4	5	MA010CE4	5		12	MA005DK8
8	MA030DJ2	6	MA035AC2		15			8	MA060CK2	12		7	MA045DE2							10	MA015AJ2			7	MA010CK3	7	MA010CE3	7	MA005DG2	13	MA005DK7
11	MA030DH2	8	MA035AD2					**	* UNLY *	8	MA060CK2	12								13	MA015AK2			9	MA010CK2	9	MA010CE2	9	MA005DG2	14	MA005DK6
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		12	MA045DJ2					**	UNUSED															14	MA010CH4	14	MA010CC4	14	MA005DF4	16	MA005DK4
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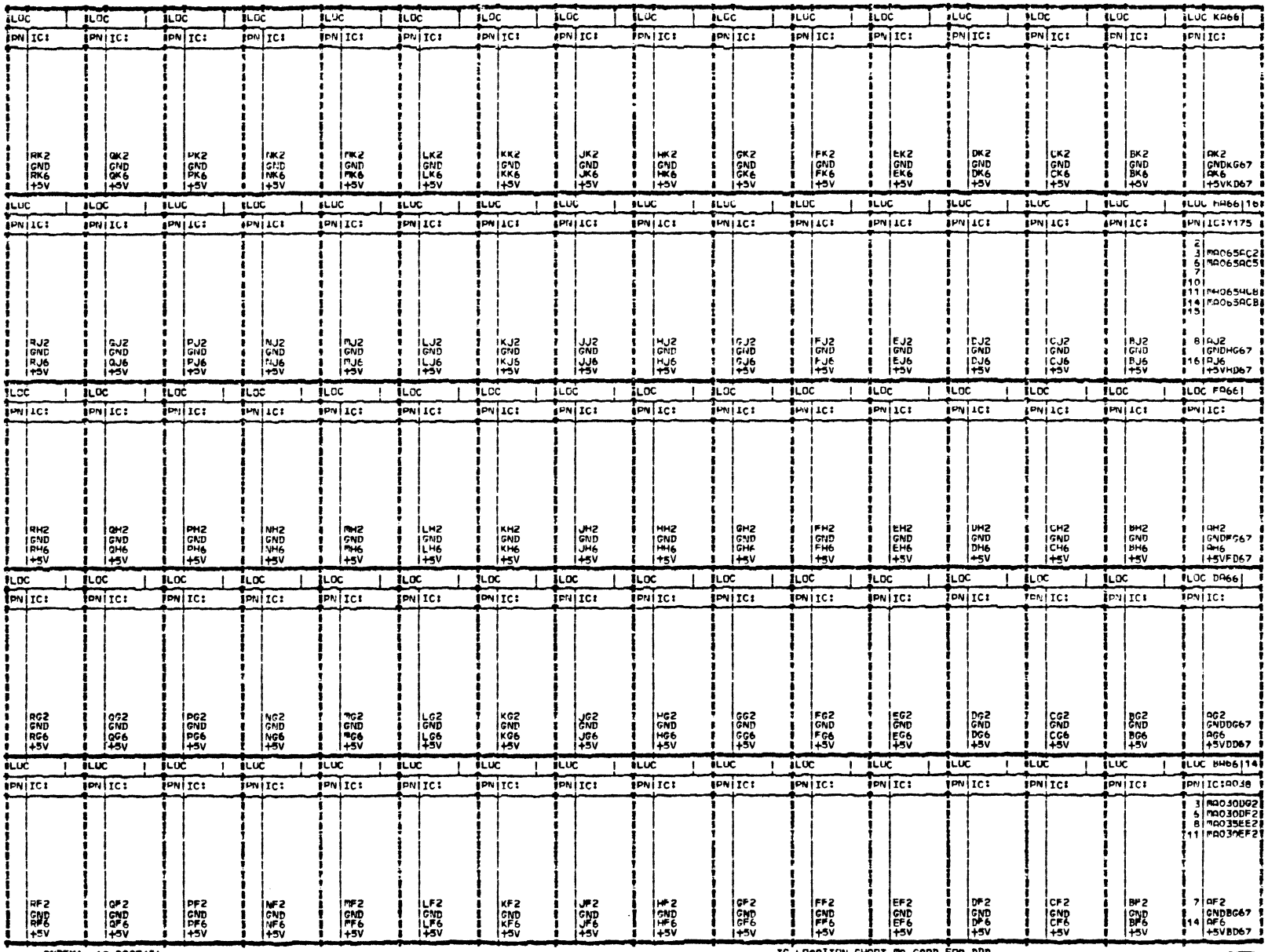
INDEX: 12 PAGE(5)

PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL
MA005	4000213027	46082	MA030	4000218034	46082	MA060	4000223026	46070
MA010	4000214017	46046	MA035	4000219032	46118	MA065	4000224016	46046
MA015	4000215014	46046	MA040	4000220014	46046			
MA020	4000216012	46046	MA045	4000221020	46070			
MA025	4000217010	46046	MA050	4000222008	46082			

IC LOCATION CHART MA CARD FOR DDD

PRESENT EC	46118	DATE	07/06/81	CD PN	4000102055
PREV EC	46082	PAGE PN	4000212045	CD TYPE	MA

PAGE 1 OF 2



INDEX: 12 PAGE(S)											
PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL			
MA005	4000213027	46082	MA030	4000218034	46082	MA060	4000223026	46070			
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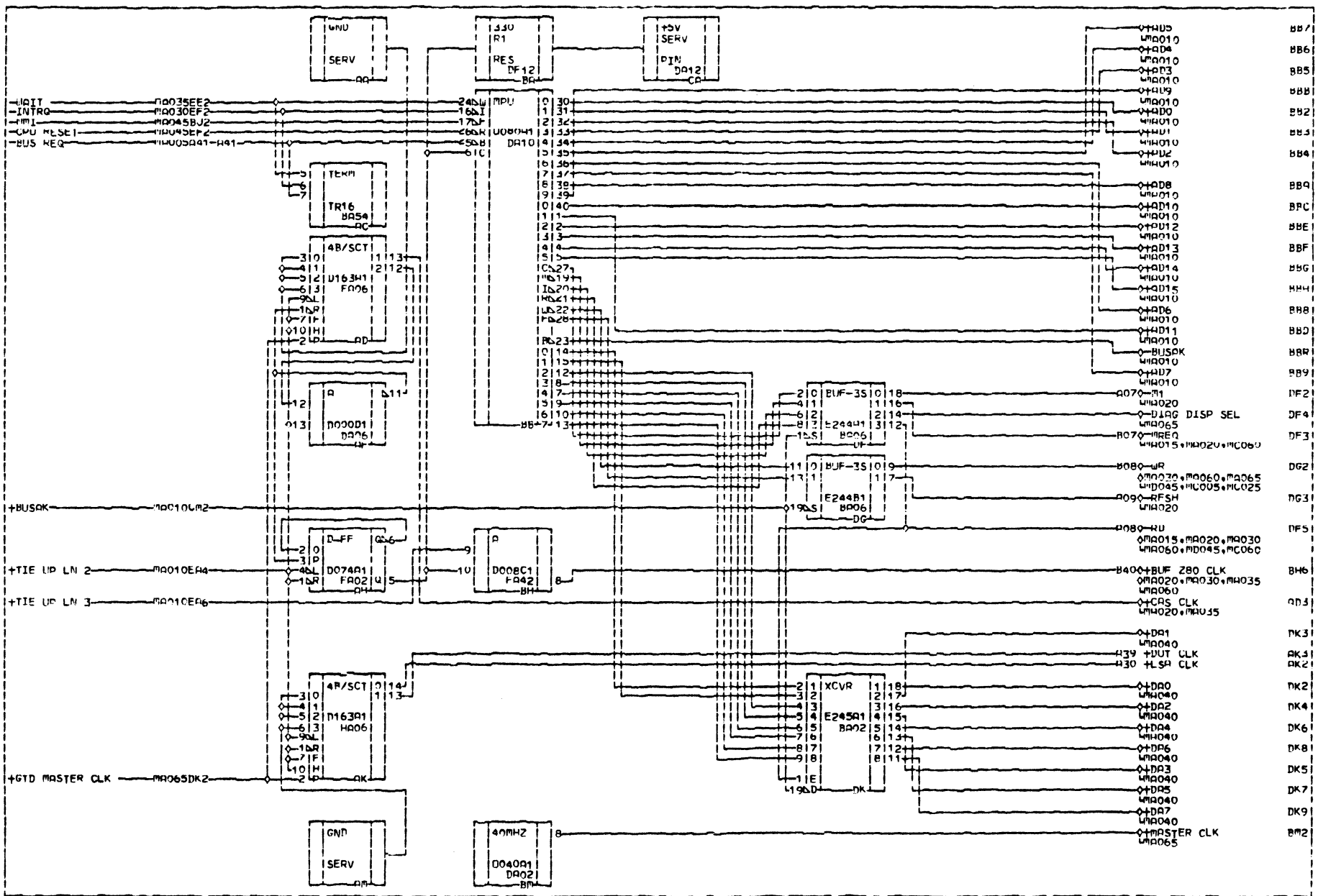
MA015	4000215014	46046	MA040	4000220014	46046						
MA020	4000216012	46046	MA045	4000221020	46070						
MA025	4000217010	46046	MA050	4000222028	46082						

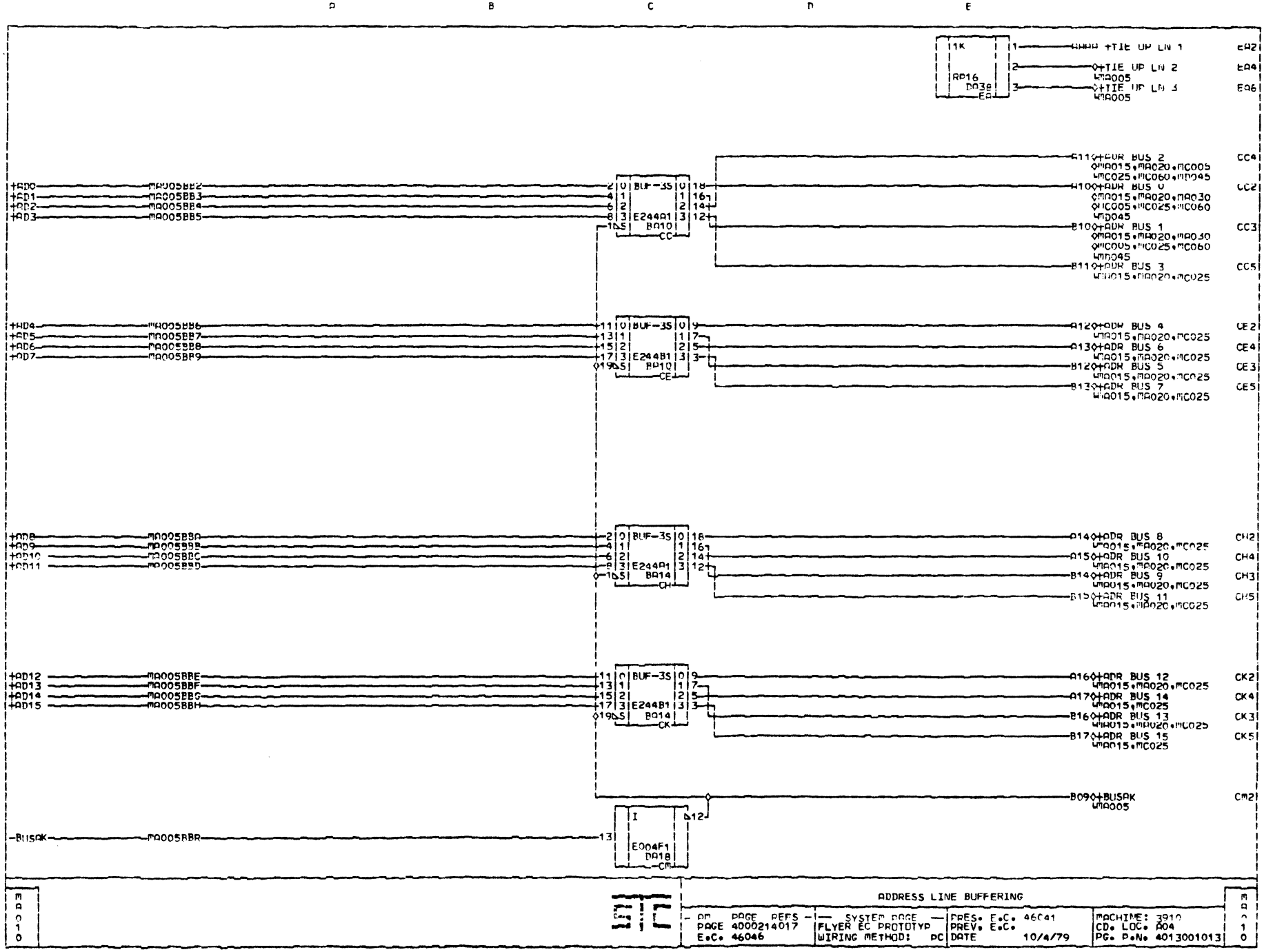
IC LOCATION CHART MA CARD FOR DDD

PRESENT EC 46118	DATE 07/06/81		CD PN	4000102055	PAGE 2 OF 2
PREV EC 46082	PAGE PN 4000212045	CD TYPE MA	FLEVEL	PROTOTYP	

MMAA 07/06/81 07/06/81 PRUF: PDDD516 XX



MAA05	MICRO-PROCESSOR, CLOCKS, AND BUFFER CIRCUITS				MAA05
	AM PAGE REFS — PAGE 4000213027 E.C. 46082	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46082 PREV. E.C. 46046 DATE 6/27/80	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4013000023	


11K
RP16
DA3e
+TIE UP LN 1
+TIE UP LN 2
MMA005
+TIE UP LN 3
MMA005
+AD0
+AD1
+AD2
+AD3
MA005BB2
MA005BB3
MA005BB4
MA005BB5
BUF-3S
E244A1
BA10
CC
+ADR BUS 2
+ADR BUS 0
+ADR BUS 1
+ADR BUS 3
+AD4
+AD5
+AD6
+AD7
MA005BB6
MA005BB7
MA005BB8
MA005BB9
BA10
CE
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+ADR BUS 6
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+AD8
+AD9
+AD10
+AD11
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MA005BBB
MA005BBC
MA005BBD
BA14
CH
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CK
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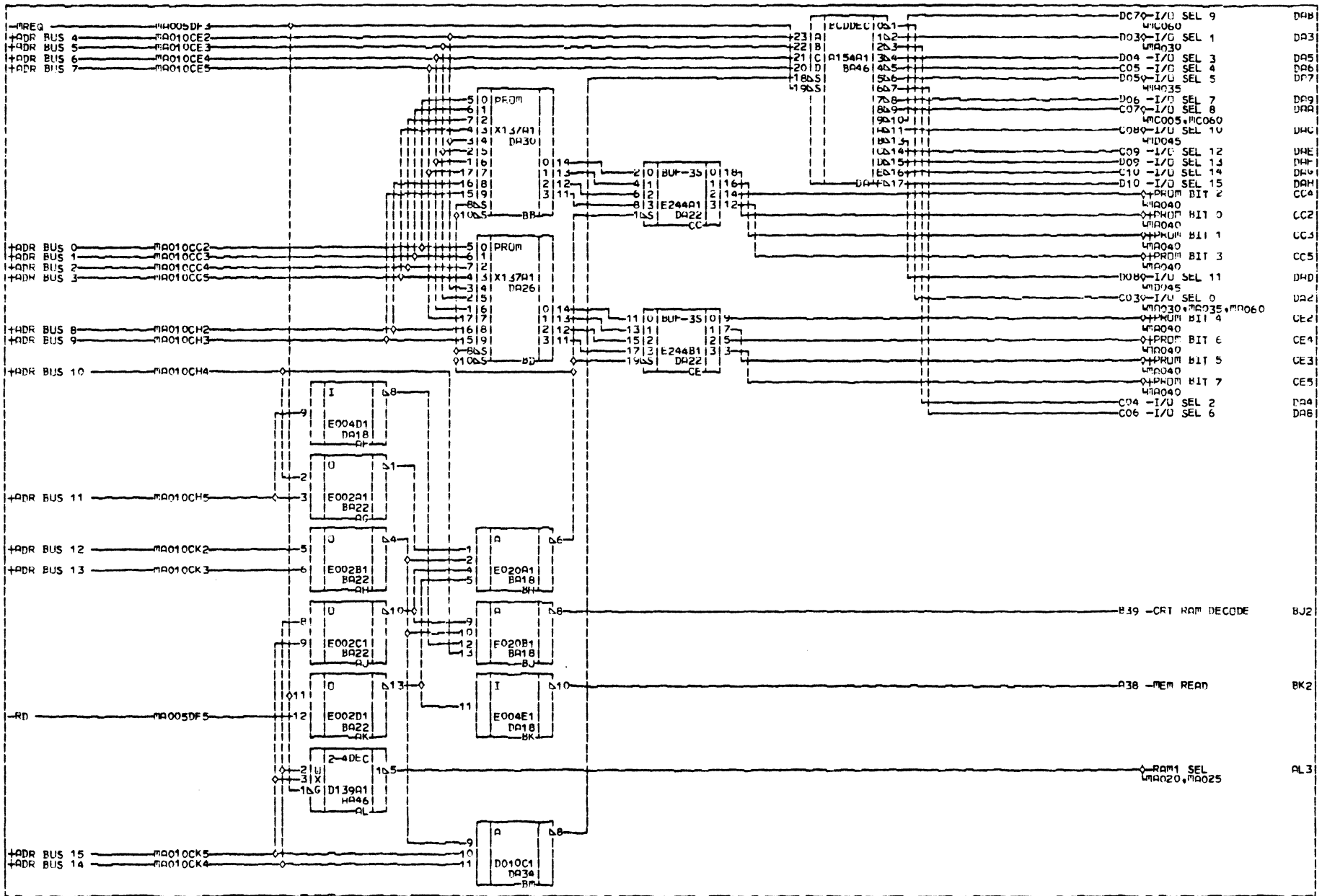
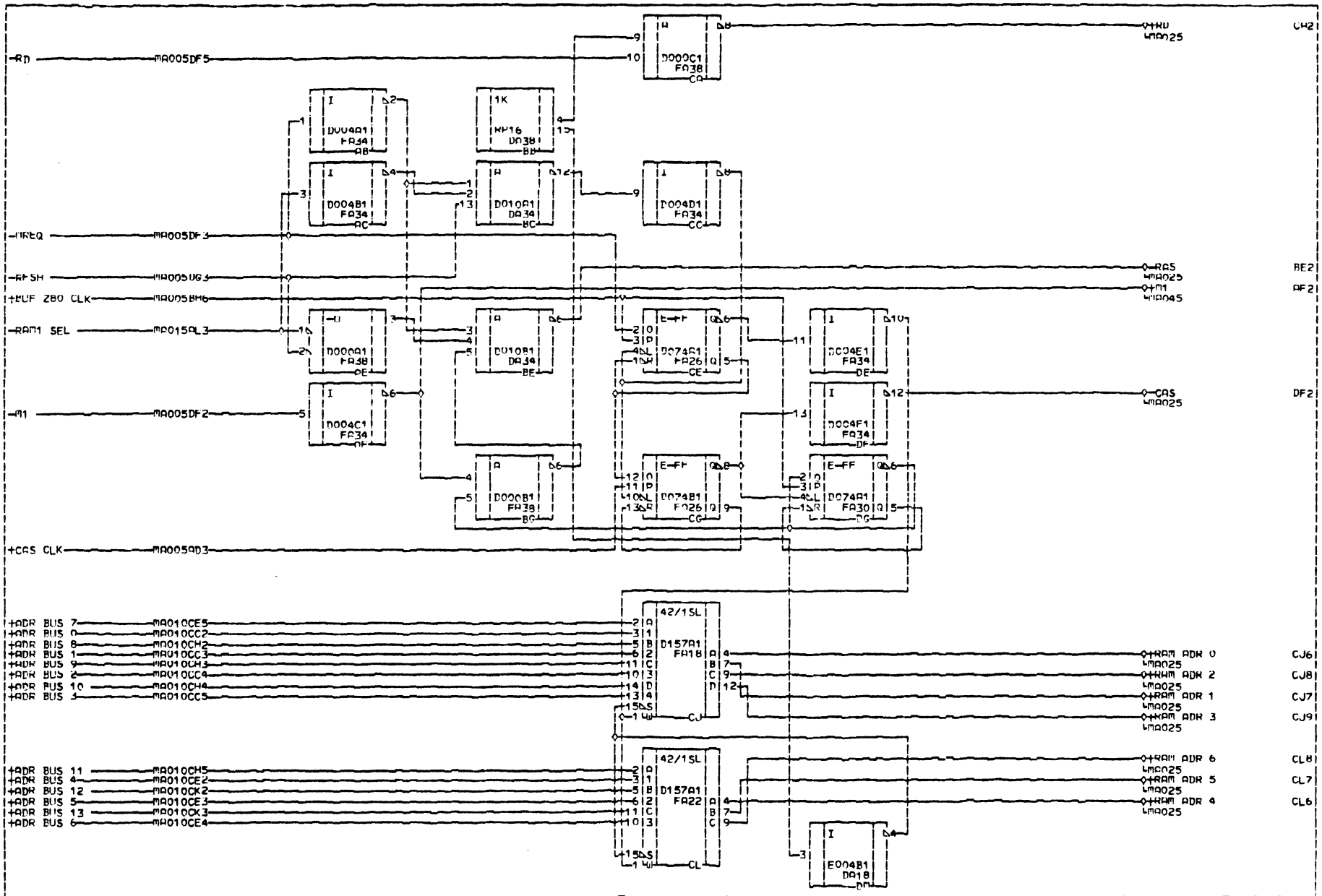
+BUSAK
MA005
-BUSAK
MA005BBR
E004F1
DA18
CM
ADDRESS LINE BUFFERING
PAGE 4000214017
E.C. 46046
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46041
PREV. E.C.
DATE 10/4/79
MACHINE: 3910
CD. LOC. A04
PG. P.NO. 4013001013

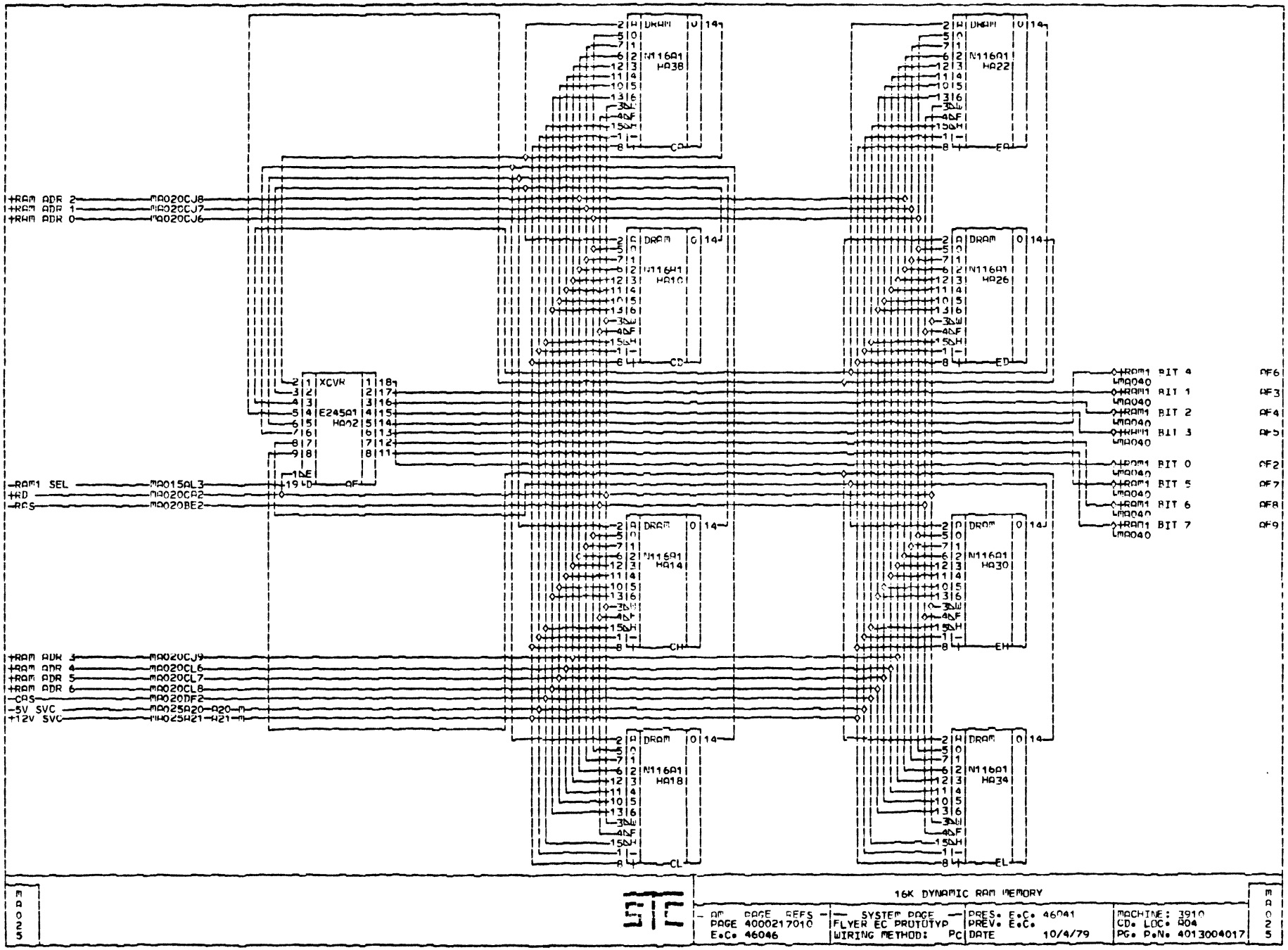

-MREQ
+ADR BUS 4
+ADR BUS 5
+ADR BUS 6
+ADR BUS 7
+ADR BUS 0
+ADR BUS 1
+ADR BUS 2
+ADR BUS 3
+ADR BUS 8
+ADR BUS 9
+ADR BUS 10
+ADR BUS 11
+ADR BUS 12
+ADR BUS 13
-RD
+ADR BUS 15
+ADR BUS 14
PROM
BUF-3S
E244A1
DECODE
I/O SEL 9
I/O SEL 1
I/O SEL 3
I/O SEL 4
I/O SEL 5
I/O SEL 7
I/O SEL 8
I/O SEL 10
I/O SEL 12
I/O SEL 13
I/O SEL 14
I/O SEL 15
PROM BIT 2
PROM BIT 0
PROM BIT 1
PROM BIT 3
I/O SEL 11
I/O SEL 0
PROM BIT 4
PROM BIT 6
PROM BIT 5
PROM BIT 7
I/O SEL 2
I/O SEL 6
E004D1
E002A1
E002B1
E020A1
E002C1
E020B1
E002D1
E004E1
2-4DEC
D13901
D010C1
-CRT RAM DECODE
-MEM READ
-RAM1 SEL
PROM MEMORY,ADDRESS DECODE,I/O SELECT
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PAGE 4000215014
E.C. 46046
PRES. E.C. 46041
DATE 10/4/79
MACHINE: 3910
PG. P.N. 4013002011

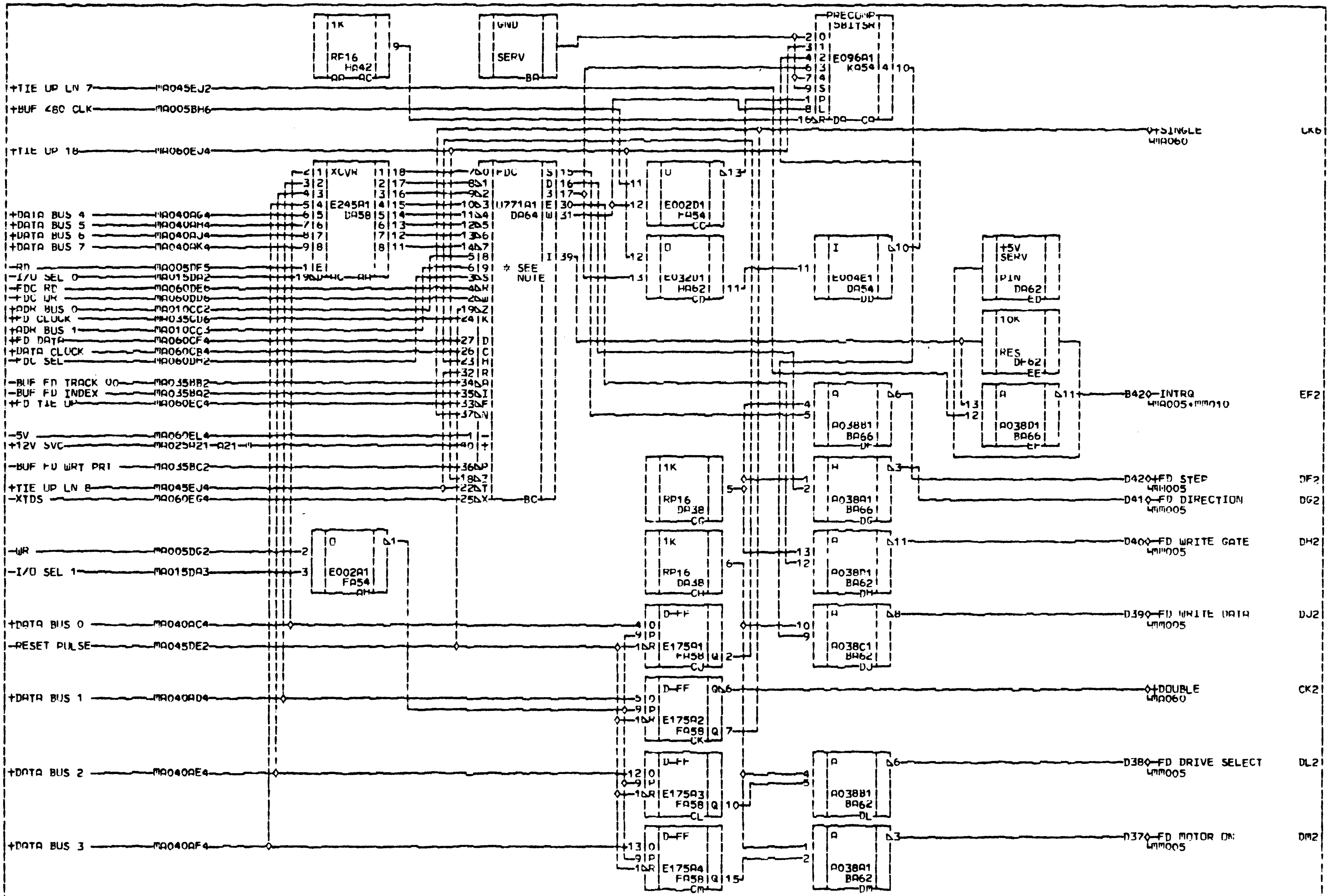
HMAA 10/10/79



DYNAMIC RAM ADDRESS CONTRUL AND MULTIPLEXING

– AP PAGE REFS –	— SYSTEM PAGE —	PRES. E.C. 46041	MACHINE: 3910
PAGE 4000216012	FLYER EC PROTOTYP	PREV. E.C.	CD. LDC. A04
E.C. 46046	WIRING METHOD: PC	DATE 10/4/79	PG. P.N. 4013003019


+RAM ADR 2
+RAM ADR 1
+RAM ADR 0
-RAM1 SEL
+RD
-RFS
+RAM ADR 3
+RAM ADR 4
+RAM ADR 5
+RAM ADR 6
-CAS
-5V SVC
+12V SVC
XCVR
E245A1
N116A1
DRAM
+RAM1 BIT 0
+RAM1 BIT 1
+RAM1 BIT 2
+RAM1 BIT 3
+RAM1 BIT 4
+RAM1 BIT 5
+RAM1 BIT 6
+RAM1 BIT 7
16K DYNAMIC RAM MEMORY
SYSTEM PAGE
PAGE 4000217010
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46041
PREV. E.C.
DATE 10/4/79
MACHINE: 3910
CD. LOC. 904
PG. P.N. 4013004017
E.C. 46046



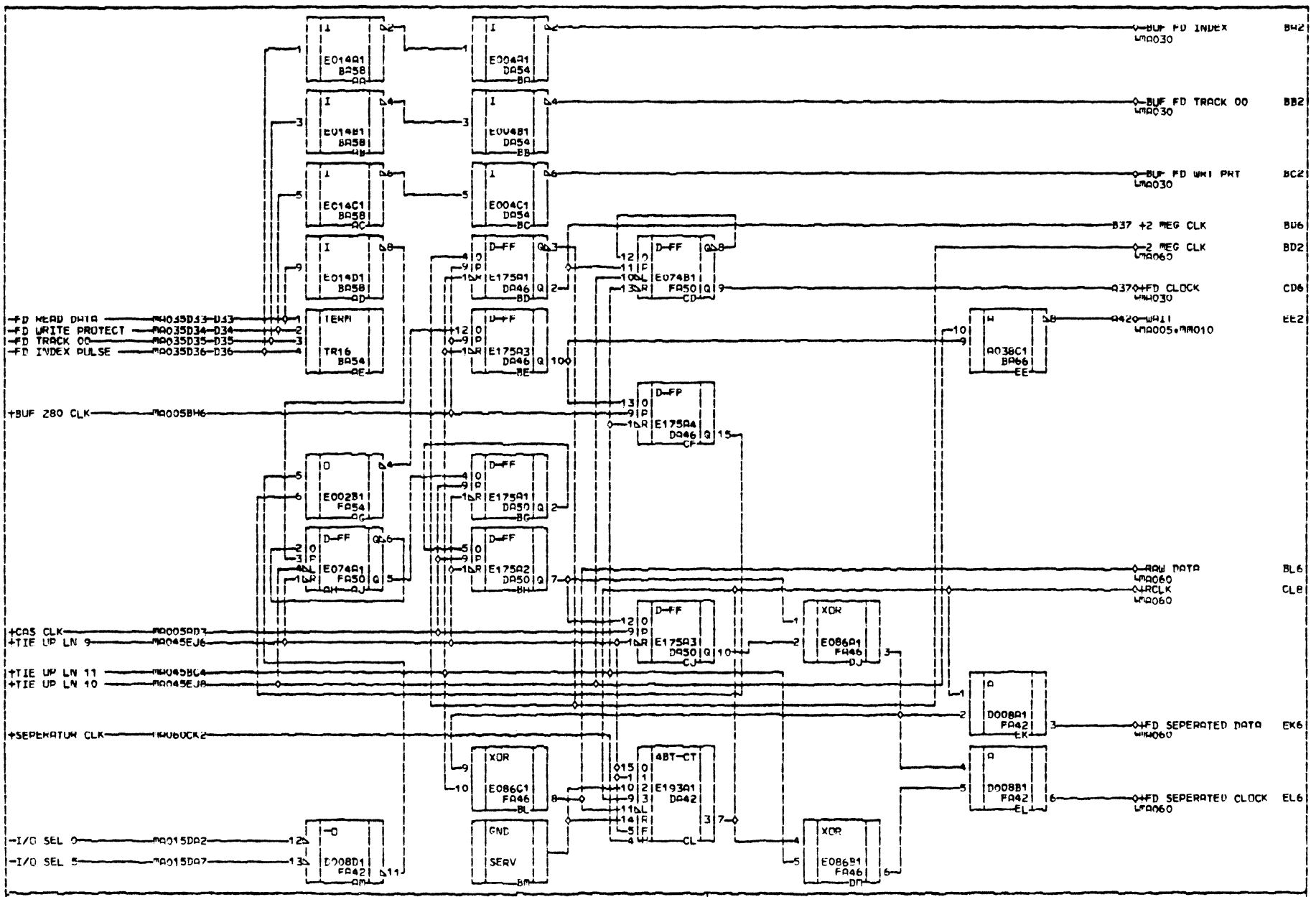
* NOTE: THIS IC POSSIBLY U791 OR X791 STRAPS LISTED ON PAGE MA060 MUST BE INSTALLED.

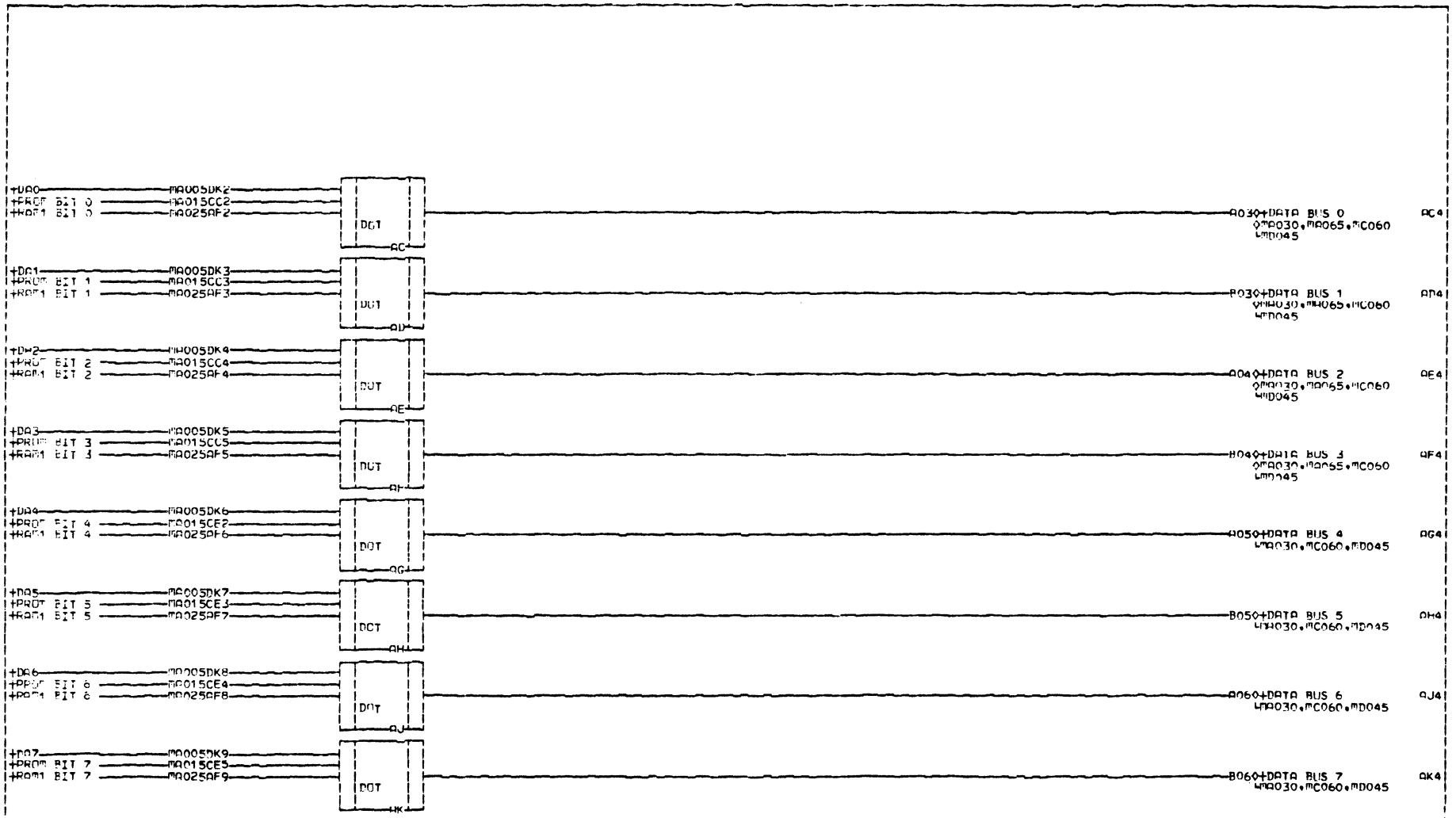
STC

FLOPPY DISK CONTROLLER

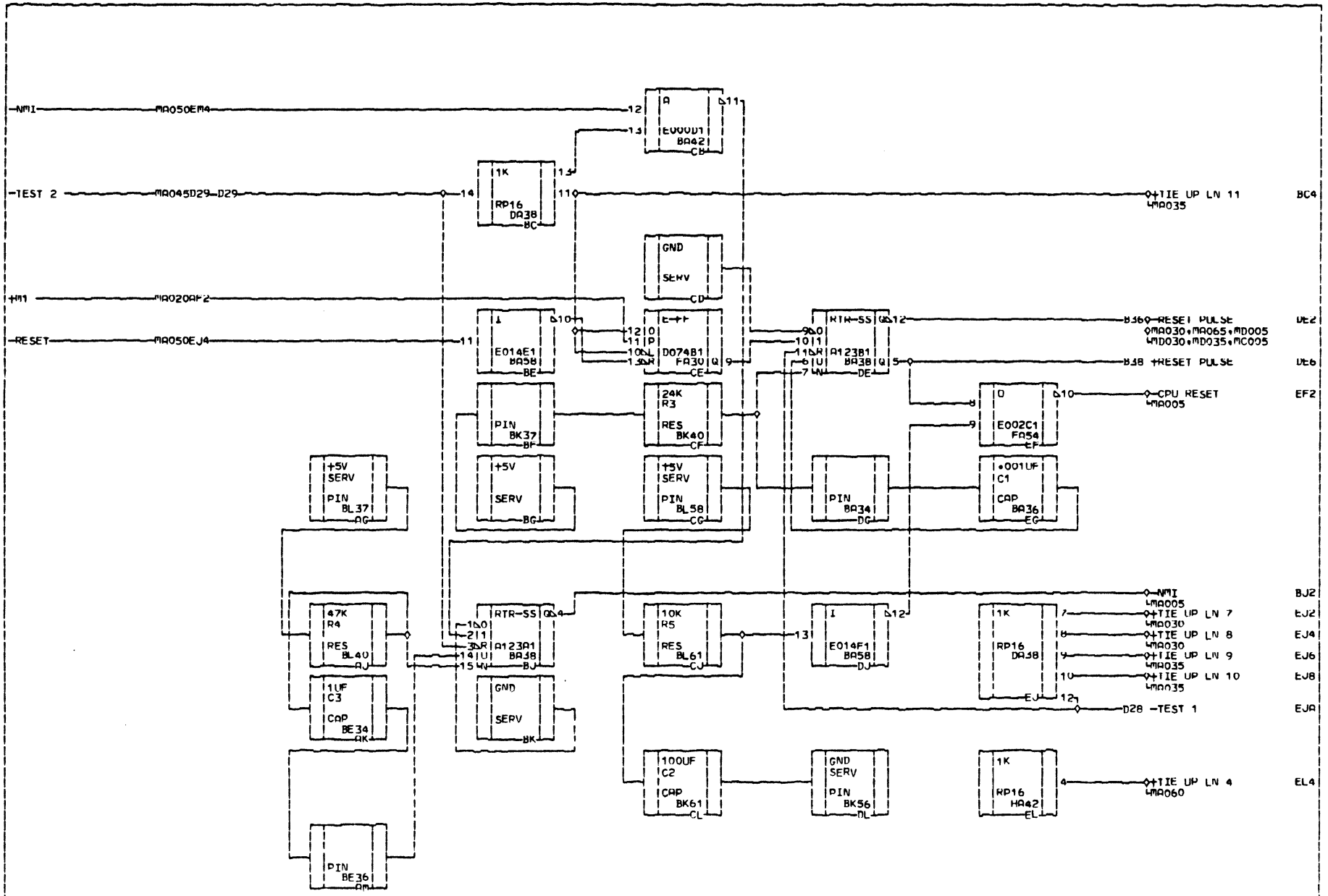
- AM PAGE REFS - PAGE 4000218034 E.C. 46082	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46082 PREV. E.C. 46070 DATE 6/27/80	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4013005030

MA030


-FD READ DATA
-FD WRITE PROTECT
-FD TRACK 00
-FD INDEX PULSE
+BUF Z80 CLK
+CAS CLK
+TIE UP LN 9
+TIE UP LN 11
+TIE UP LN 10
+SEPERATOR CLK
-I/O SEL 0
-I/O SEL 5
+BUF FD INDEX
+BUF FD TRACK 00
+BUF FD WRT PRT
+37 +2 MEG CLK
+2 MEG CLK
+FD CLOCK
+RAW DATA
+RCLK
+FD SEPERATED DATA
+FD SEPERATED CLOCK
FLOPPY DISK DATA SEPERATOR AND CLOCK
PAGE 400021 9032
E.C. 46118
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46118
PREV. E.C. 46082
DATE 07/08/81
MACHINE: 3910
CD. LOC. A04
PG. P.N. 4013006038


+DA0
+PROM BIT 0
+RAM1 BIT 0
MA005DK2
MA015CC2
MA025AF2
DOT
AC
+DA1
+PROM BIT 1
+RAM1 BIT 1
MA005DK3
MA015CC3
MA025AF3
DOT
AD
+DA2
+PROM BIT 2
+RAM1 BIT 2
MA005DK4
MA015CC4
MA025AF4
DOT
AE
+DA3
+PROM BIT 3
+RAM1 BIT 3
MA005DK5
MA015CC5
MA025AF5
DOT
AF
+DA4
+PROM BIT 4
+RAM1 BIT 4
MA005DK6
MA015CE2
MA025AF6
DOT
AG
+DA5
+PROM BIT 5
+RAM1 BIT 5
MA005DK7
MA015CE3
MA025AF7
DOT
AH
+DA6
+PROM BIT 6
+RAM1 BIT 6
MA005DK8
MA015CE4
MA025AF8
DOT
AJ
+DA7
+PROM BIT 7
+RAM1 BIT 7
MA005DK9
MA015CE5
MA025AF9
DOT
AK
A030+DATA BUS 0
0*MA030*MA065*MC060
*MD045
AC4
A030+DATA BUS 1
0*MA030*MA065*MC060
*MD045
AD4
A040+DATA BUS 2
0*MA030*MA065*MC060
*MD045
AE4
A040+DATA BUS 3
0*MA030*MA065*MC060
*MD045
AF4
A050+DATA BUS 4
*MA030*MC060*MD045
AG4
B050+DATA BUS 5
*MA030*MC060*MD045
AH4
A060+DATA BUS 6
*MA030*MC060*MD045
AJ4
B060+DATA BUS 7
*MA030*MC060*MD045
AK4
DATA BUS CONNECTIONS
- DM PAGE REFS -
PAGE 4000220014
E.C. 46046
-- SYSTEM PAGE --
FLYER EC PROTOTYP
WIRING METHOD: PC
REFS. E.C. 46041
PREV. E.C.
DATE 10/4/79
MACHINE: 3510
CD. LOC. A04
PG. P.NO. 4013007010

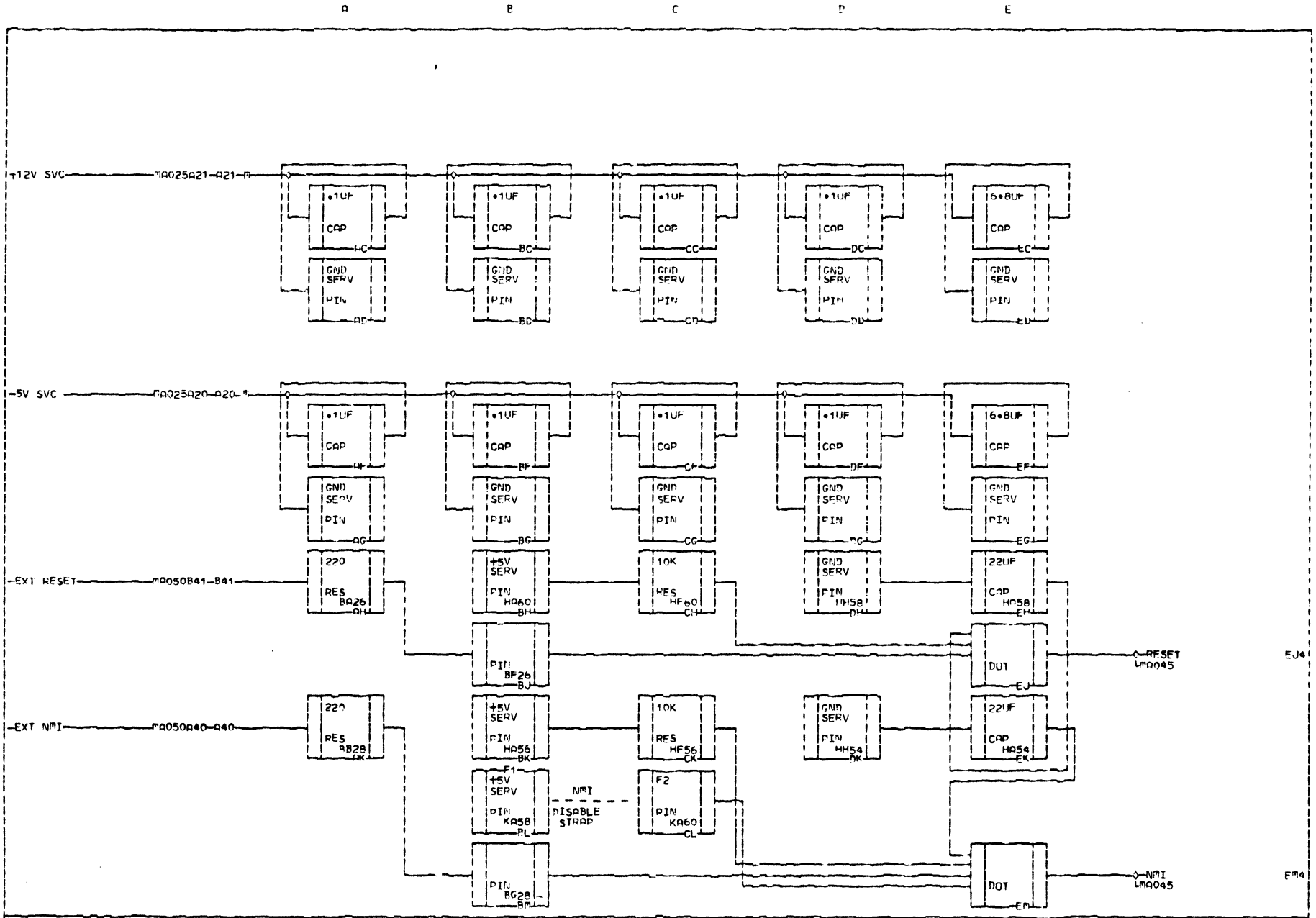
HMAA 10/10/79

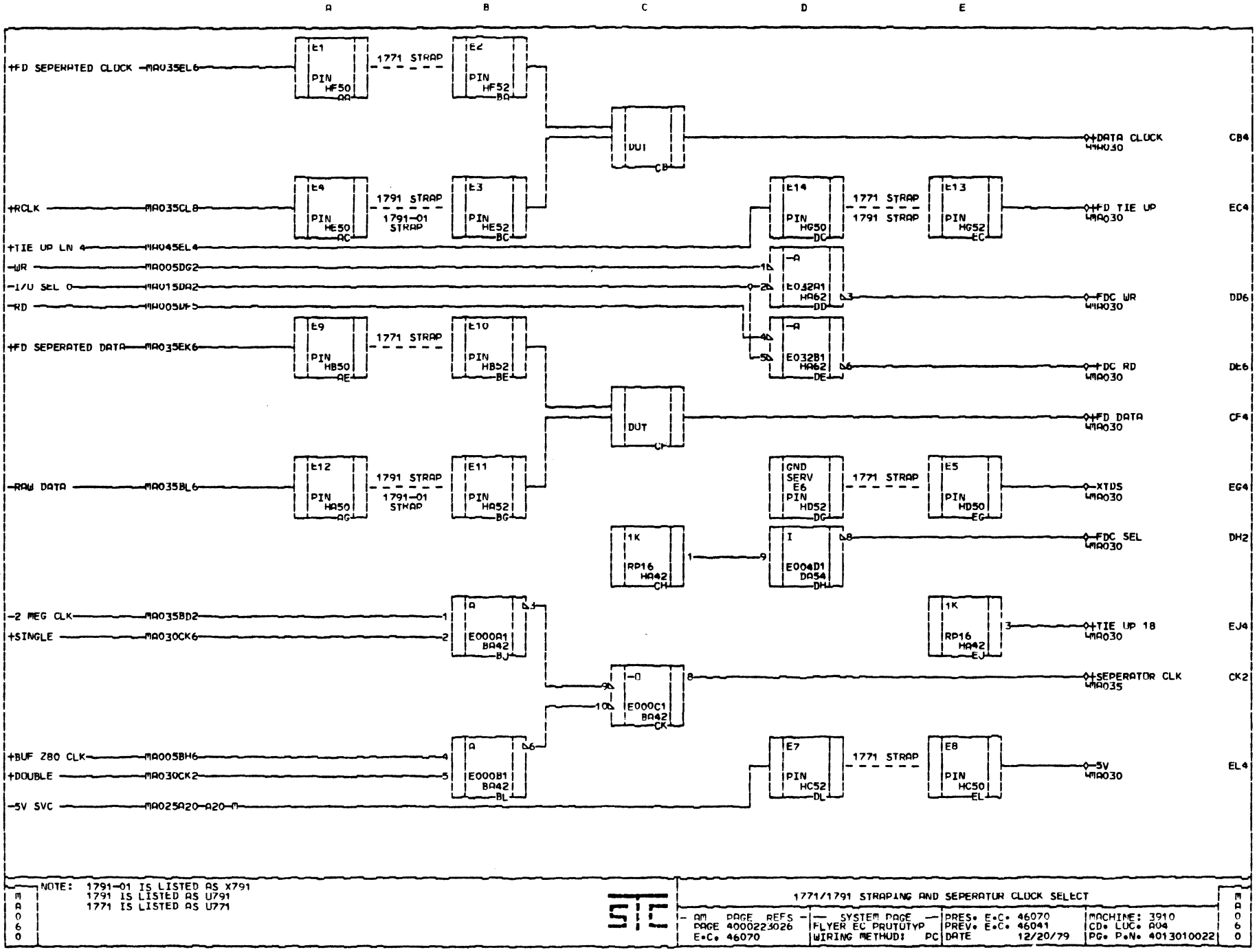


EXTERNAL RESET CIRCUIT

— AM PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46070	MACHINE: 3910	
PAGE 4000221020	FLYER EC PROTOTYP	PREV. E.C. 46041	CD. LOC. A04	
E.C. 46070	WIRING METHOD: PC	DATE 12/20/79	PG. P.N. 4013008026	

HMAA 12/20/79

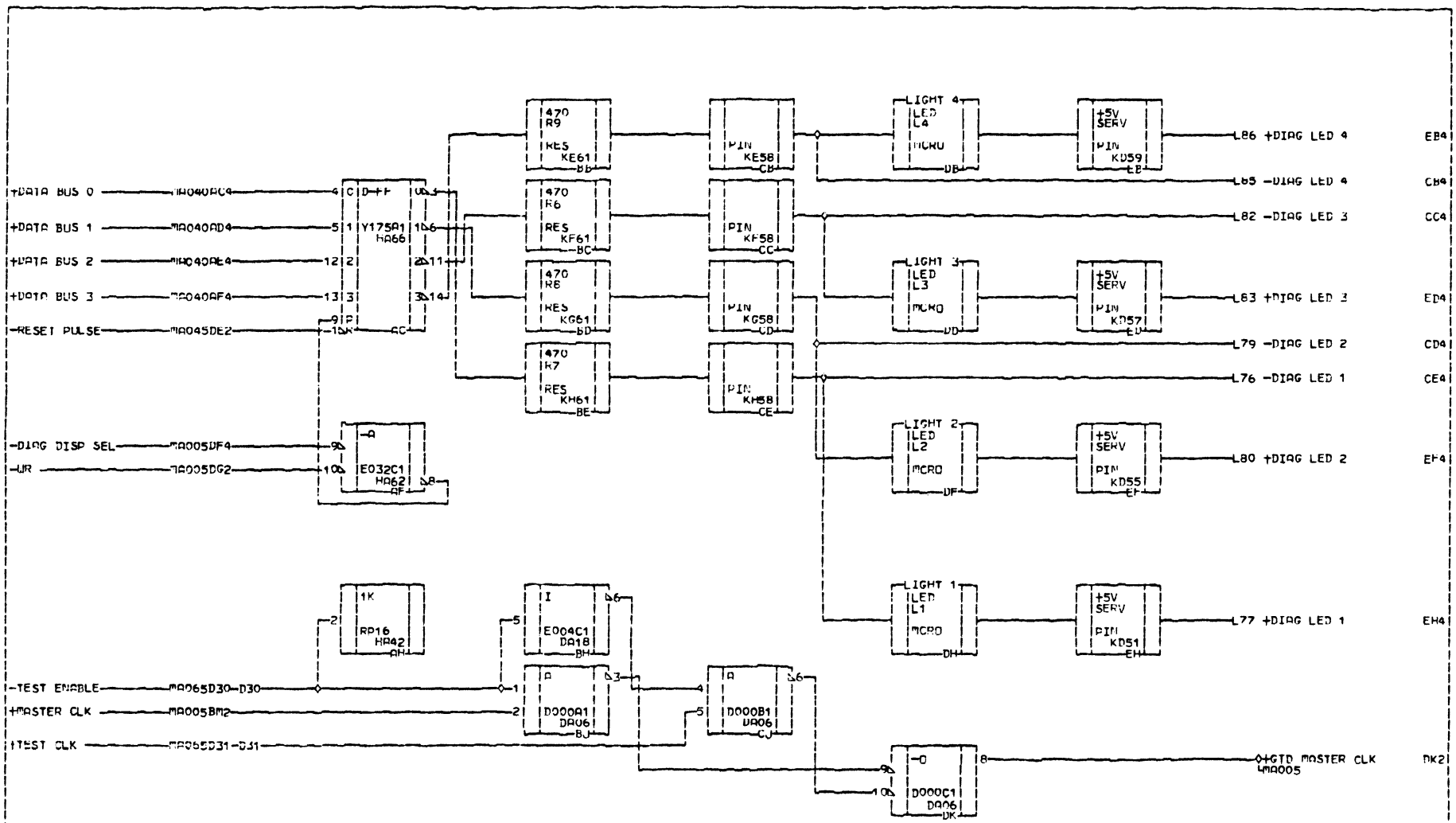

+12V SVC
MA025A21-A21
.1UF CAP 1C
GND SERV PIN AD
.1UF CAP BC
GND SERV PIN BD
.1UF CAP CC
GND SERV PIN CD
.1UF CAP DC
GND SERV PIN DD
6.8UF CAP EC
GND SERV PIN ED
+5V SVC
MA025A20-A20
.1UF CAP 1F
GND SERV PIN AG
.1UF CAP BF
GND SERV PIN BG
.1UF CAP CF
GND SERV PIN CG
.1UF CAP DF
GND SERV PIN DG
6.8UF CAP EF
GND SERV PIN EG
EXT RESET
MA050B41-B41
220 RES BA26 AH
+5V SERV PIN HA60 BH
10K RES HF60 CH
GND SERV PIN HH58 DH
22UF CAP HA58 EH
PIN BF26 BJ
DOT EJ
RESET MA0045
EJ4
EXT NMI
MA050A40-A40
220 RES BB28 AK
+5V SERV PIN HA56 BK
10K RES HF56 CK
GND SERV PIN HH54 DK
22UF CAP HA54 EK
F1
+5V SERV PIN KA58 PL
NMI DISABLE STRAP
F2 PIN KA60 CL
PIN BG28 BM
DOT EM
NMI MA0045
EM4
DYNAMIC RAM SUPPLY DECOUPLING & SWITCH CONTACT FILTERING
AM PAGE REFS
PAGE 4000222028
E.C. 46082
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46082
PREV. E.C. 46082
DATE 6/27/80
MACHINE: 3910
CD. LOC. A04
PG. P.N. 4013009024



NOTE: 1791-01 IS LISTED AS X791
1791 IS LISTED AS U791
1771 IS LISTED AS U771

1771/1791 STRAPING AND SEPERATUR CLOCK SELECT

AM PAGE REFS	SYSTEM PAGE		
PAGE 4000223026	FLYER EC PRUTUTYP	PRES. E.C. 46070	MACHINE: 3910
E.C. 46070	WIRING METHUD: PC	PREV. E.C. 46041	CD. LUC. A04
		DATE 12/20/79	PG. P.N. 4013010022


+DATA BUS 0
+DATA BUS 1
+DATA BUS 2
+DATA BUS 3
-RESET PULSE
-DIAG DISP SEL
-WR
-TEST ENABLE
+MASTER CLK
+TEST CLK
470 R9 RES KE61 BB
470 R6 RES KF61 BC
470 R6 RES KG61 BD
470 R7 RES KH61 BE
PIN KE58 CB
PIN KF58 CC
PIN KG58 CD
PIN KH58 CE
LIGHT 4 LED L4 MCRO DB
LIGHT 3 LED L3 MCRO DD
LIGHT 2 LED L2 MCRO DF
LIGHT 1 LED L1 MCRO DH
+5V SERV PIN KD59 EB
+5V SERV PIN KD57 ED
+5V SERV PIN KD55 EF
+5V SERV PIN KD51 EH
L86 +DIAG LED 4
L85 -DIAG LED 4
L82 -DIAG LED 3
L83 +DIAG LED 3
L79 -DIAG LED 2
L76 -DIAG LED 1
L80 +DIAG LED 2
L77 +DIAG LED 1
Y175A1 HA66
E032C1 HA62
1K RP16 HA42
E004C1 DA18
D000A1 DA06 BJ
D000B1 DA06 CJ
D000C1 DA06 DK
+GTD MASTER CLK 4MA005
DIAGNOSTIC LATCH AND LIGHTS+TEST CLOCK SELECT
PAGE 4000224016
E.C. 46046
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46041
PREV. E.C.
DATE 10/4/79
MACHINE: 3910
CD. LOC. A04
PG. P.N. 4013011012

ST[illegible]ECHNOLOGY CORP.

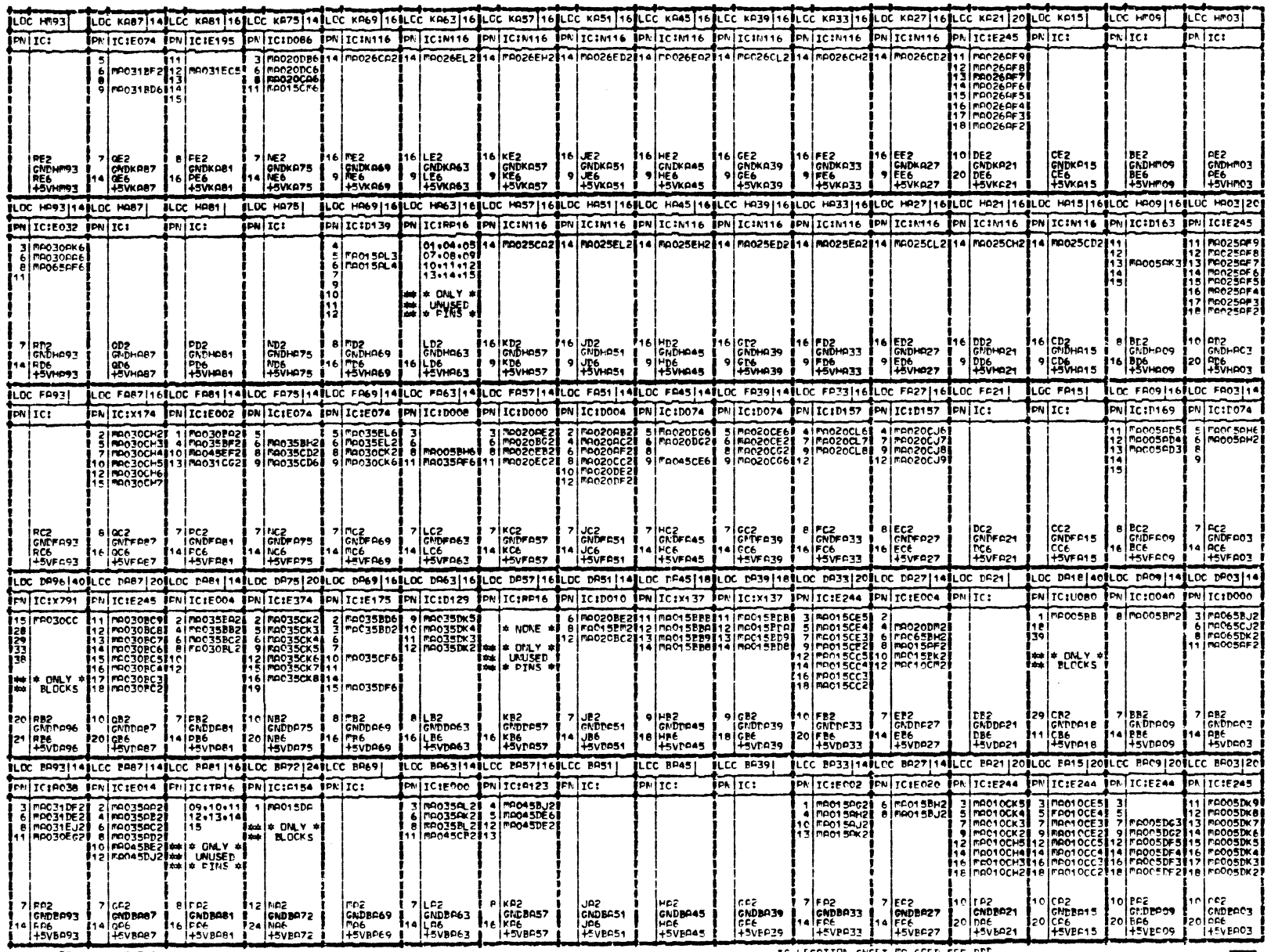
ASSEMBLY PARTS LIST

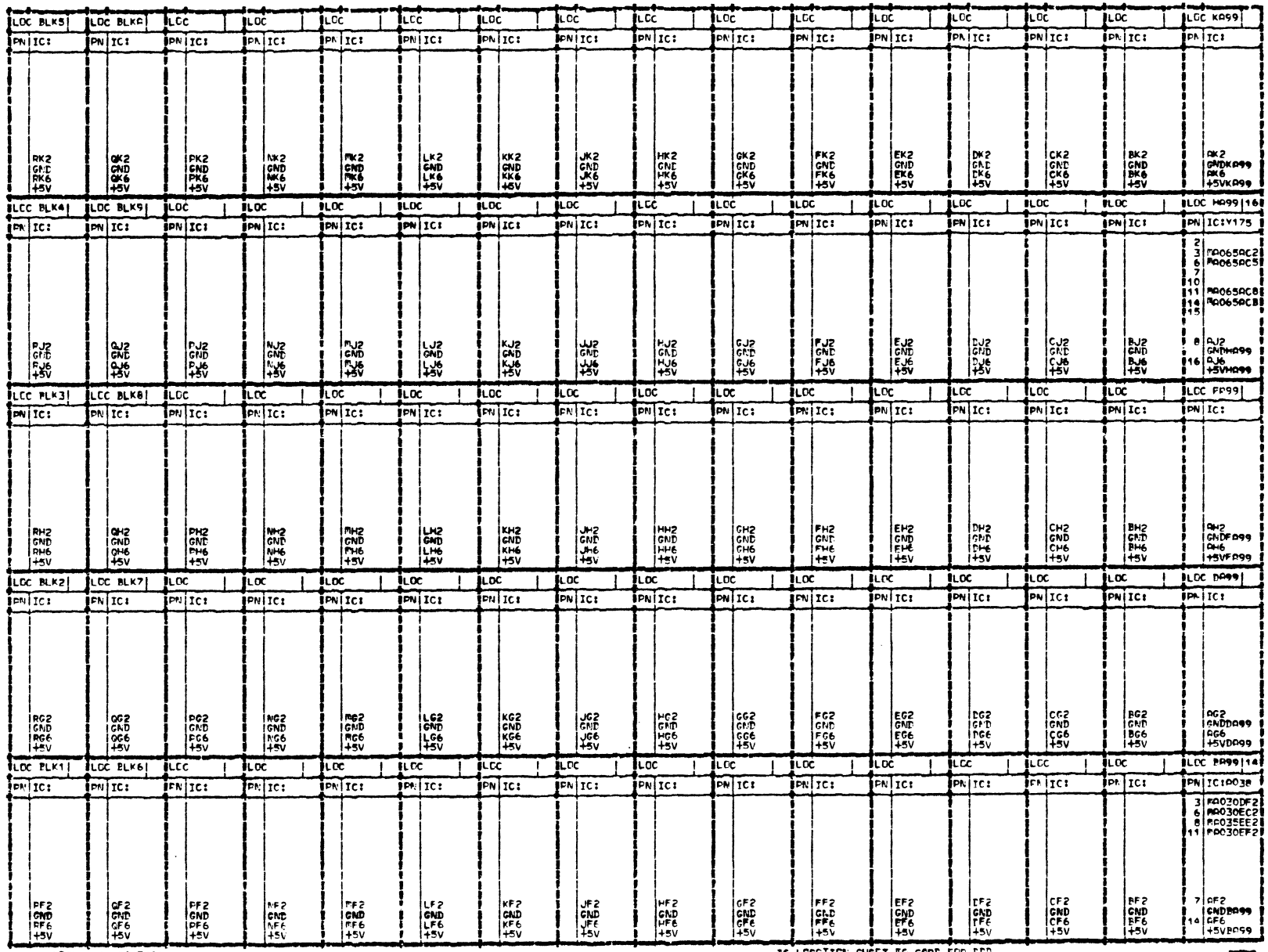
BUILD ARC DOC

PRINT DATE	PAGE	EC NO.
02-12-82	1	46125

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	401308402	7	B	N	SYS LGC GP,MA,MULTI P/NS	N	REL	01-29-82	3910	02-11-82

T	FIND NO.	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	000	01	401306802	0		REF	PC	CD LGC,AM243,MA PC	D		46125			8204	
	005	01	401308702	0		REF	PC	SYS LGC,MA005,PC	D		46125			8204	
	010	01	401308801	0		REF	PC	SYS LGC,MA010,PC	D						
	015	01	401308901	8		REF	PC	SYS LGC,MA015,PC	D						
	020	01	401309001	6		REF	PC	SYS LGC,MA020,PC	D						
	025	01	401309101	4		REF	PC	SYS LGC,MA025,PC	D						
	026	01	401309201	2		REF	PC	SYS LGC,MA026,PC	D						
	030	01	401309301	0		REF	PC	SYS LGC,MA030,PC	D						
	031	01	401309401	8		REF	PC	SYS LGC,MA031,PC	D						
	035	01	401309501	5		REF	PC	SYS LGC,MA035,PC	D						
	040	01	401309601	3		REF	PC	SYS LGC,MA040,PC	D						
	045	01	401309701	1		REF	PC	SYS LGC,MA045,PC	D						
	050	01	401309801	9		REF	PC	SYS LGC,MA050,PC	D						
	065	01	401309901	7		REF	PC	SYS LGC,MA065,PC	D						
	500	01	400010307	9		REF	PC	CKT CD,MA,PC ASSY 16K	S		46125			8204	
	501	01	401310202	7		REF	PC	CKT CD,MA,PC ASSY 32K	S		46125			8204	
								0016 TOTAL LINES							


LOC MM93
LOC KA87 14
LOC KA81 16
LOC KA75 14
LOC KA69 16
LOC KA63 16
LOC KA57 16
LOC KA51 16
LOC KA45 16
LOC KA39 16
LOC KA33 16
LOC KA27 16
LOC KA21 20
LOC KA15
LOC MP09
LOC MP03
LOC MP93 14
LOC MA87
LOC MA81
LOC MA75
LOC MA69 16
LOC MA63 16
LOC MA57 16
LOC MA51 16
LOC MA45 16
LOC MA39 16
LOC MA33 16
LOC MA27 16
LOC MA21 16
LOC MA15 16
LOC MA09 16
LOC MA03 20
LOC FA93
LOC FA87 16
LOC FA81 14
LOC FA75 14
LOC FA69 14
LOC FA63 14
LOC FA57 14
LOC FA51 14
LOC FA45 14
LOC FA39 14
LOC FA33 16
LOC FA27 16
LOC FA21
LOC FA15
LOC FA09 16
LOC FA03 14
LOC DA96 40
LOC DA87 20
LOC DA81 14
LOC DA75 20
LOC DA69 16
LOC DA63 16
LOC DA57 16
LOC DA51 14
LOC DA45 18
LOC DA39 18
LOC DA33 20
LOC DA27 14
LOC DA21
LOC DA18 40
LOC DA09 14
LOC DA03 14
LOC BA93 14
LOC BA87 14
LOC BA81 16
LOC BA72 24
LOC BA69
LOC BA63 14
LOC BA57 16
LOC BA51
LOC BA45
LOC BA39
LOC BA33 14
LOC BA27 14
LOC BA21 20
LOC BA15 20
LOC BA09 20
LOC BA03 20
INDEX: 12 PAGE(S)
PAGE CRD PG P/N EC LEVEL
MA005 4013069028 46125
MA010 4013070018 46083
MA015 4013071016 46083
MA020 4013072014 46083
MA025 4013073012 46083
MA026 4013074010 46083
MA030 4013075017 46083
MA031 4013076015 46083
MA035 4013077013 46083
MA040 4013078011 46083
MA045 4013079019 46083
MA050 4013080017 46083
MA065 4013081015 46083
IC LOCATION CHART MC CARD FOR PPP
PRESENT EC 46125
DATE 01/26/82
CD PN 4000103079
PAGE 1 OF 2
PREV EC 46083
PAGE PN 4013068020 CD TYPE MA
FLEVEL 34595
OTHER CD PN'S: 4013102027
MP04 01/27/82 01/27/82 PROM: PROMTRXF XX



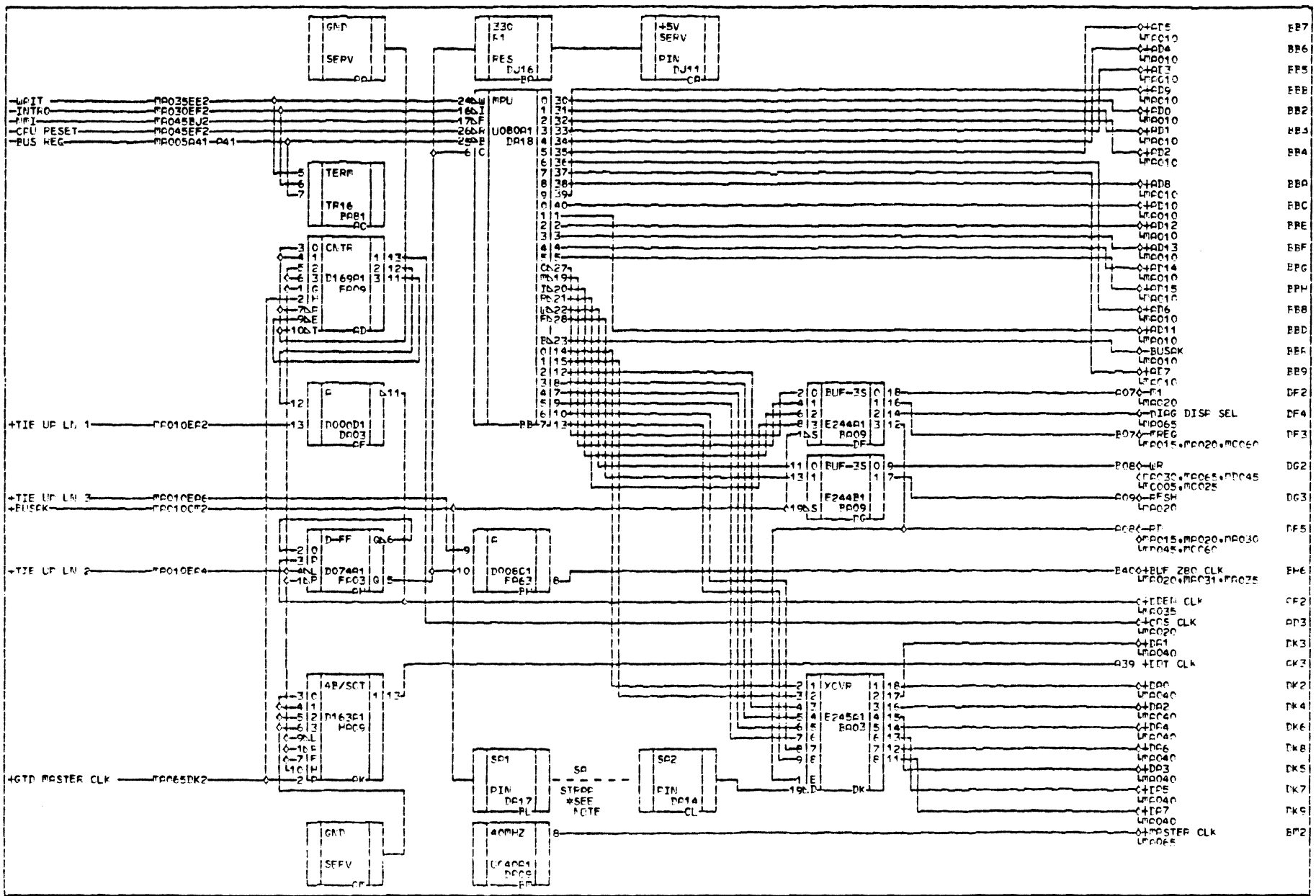
INDEX: 17 PAGE(S)

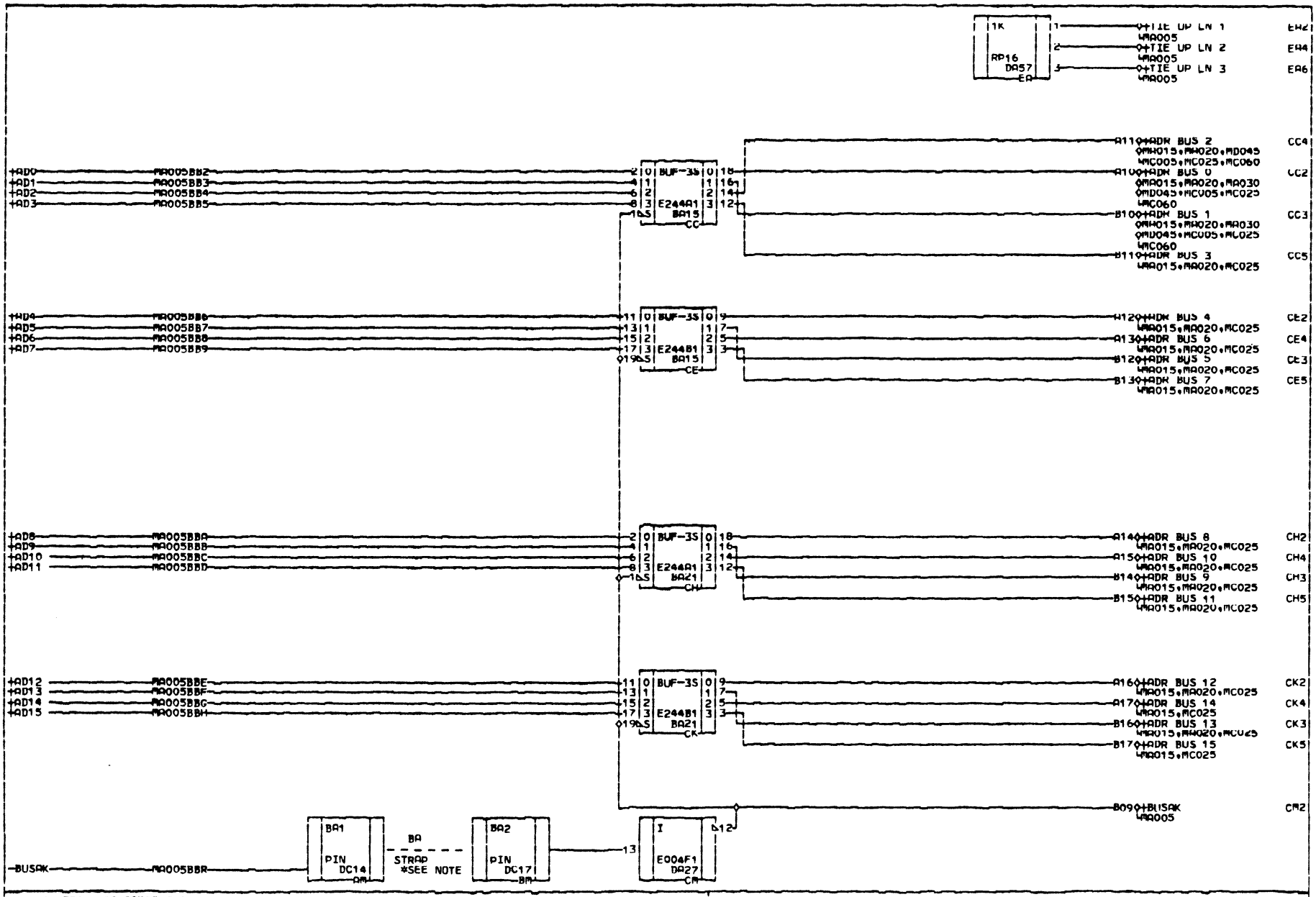
PAGE	CRD PG P/N	EC LEVEL
MA005	4013069028	46125
MA010	4013070018	46083
MA015	4013071016	46083
MA020	4013072014	46083
MA025	4013073012	46083
MA026	4013074010	46083
MA030	4013075017	46083
MA031	4013076015	46083
MA035	4013077013	46083
MA040	4013078011	46083
MA045	4013079019	46083
MA050	4013080017	46083
MA065	4013081015	46083

IC LOCATION SHEET FOR CARD FOR DEC

PRESENT EC 46125	DATE 01/26/82		CD PN	4000103079	PAGE 2 OF 2
PREV EC 46083	PAGE PN 4013068020	CD TYPE MA	FLEVEL	34595	

OTHER CD PN'S: 4013102027


GND
SERV
330
R1
RES
DJ16
+5V
SERV
PIN
DJ11
WAIT
INTRO
NMI
CPU RESET
BUS REQ
MPU
U0801
DA18
TERM
TR16
CNTR
D16901
DMA
BUF-3S
E244B1
BA09
D-FF
D07401
FF03
D0086C1
FF63
4B/SCT
D16381
MA09
XCVR
E245C1
BA03
SG1
SG2
SG
STROBE
*SEE NOTE
PIN
DG17
DG14
40MHZ
DC4001
DC08
+TIE UP LN 1
+TIE UP LN 3
+BUSAK
+TIE UP LN 2
+GTD MASTER CLK
+BUSAK CLK
+MASTER CLK
BUF ZBO CLK
*NOTE: THIS STRAP MUST BE IN PLACE FOR NORMAL OPERATION AND REMOVED FOR SIGNATURE ANALYSIS FREE RUN MODE.
MICRO-PROCESSOR CLOCKS AND BUFFER CIRCUITS
PAGE 4013065028
E.C. 46125
SYSTEM PAGE
FLYER EC 34555
WIRING METHOD: PC
REFS E.C. EC46125
PREV E.C. EC46083
DATE 01/25/82
MICROCHIP: Z80A
CT. LOC. 004
PG PN. 4013087-02-0



*NOTE: THIS STRAP MUST BE IN PLACE FOR NORMAL OPERATION AND REMOVED FOR EXTERNAL BUS DRIVER CONTROL.

ADDRESS LINE BUFFERING

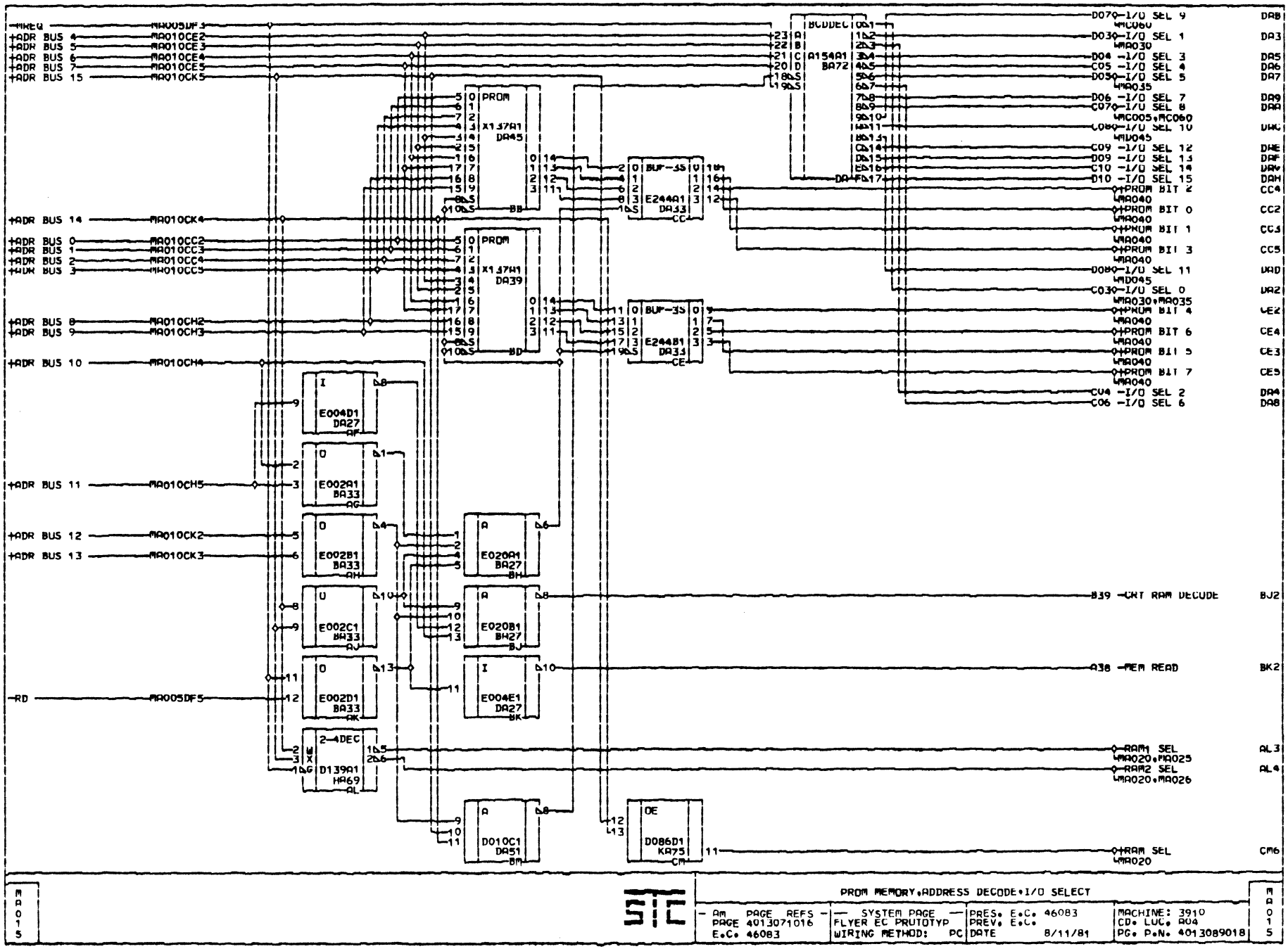
AM PAGE REFS — PAGE 4013070018 E.C. 46083

SYSTEM PAGE — FLYER E4 PROTOTYP WIRING METHOD: PC

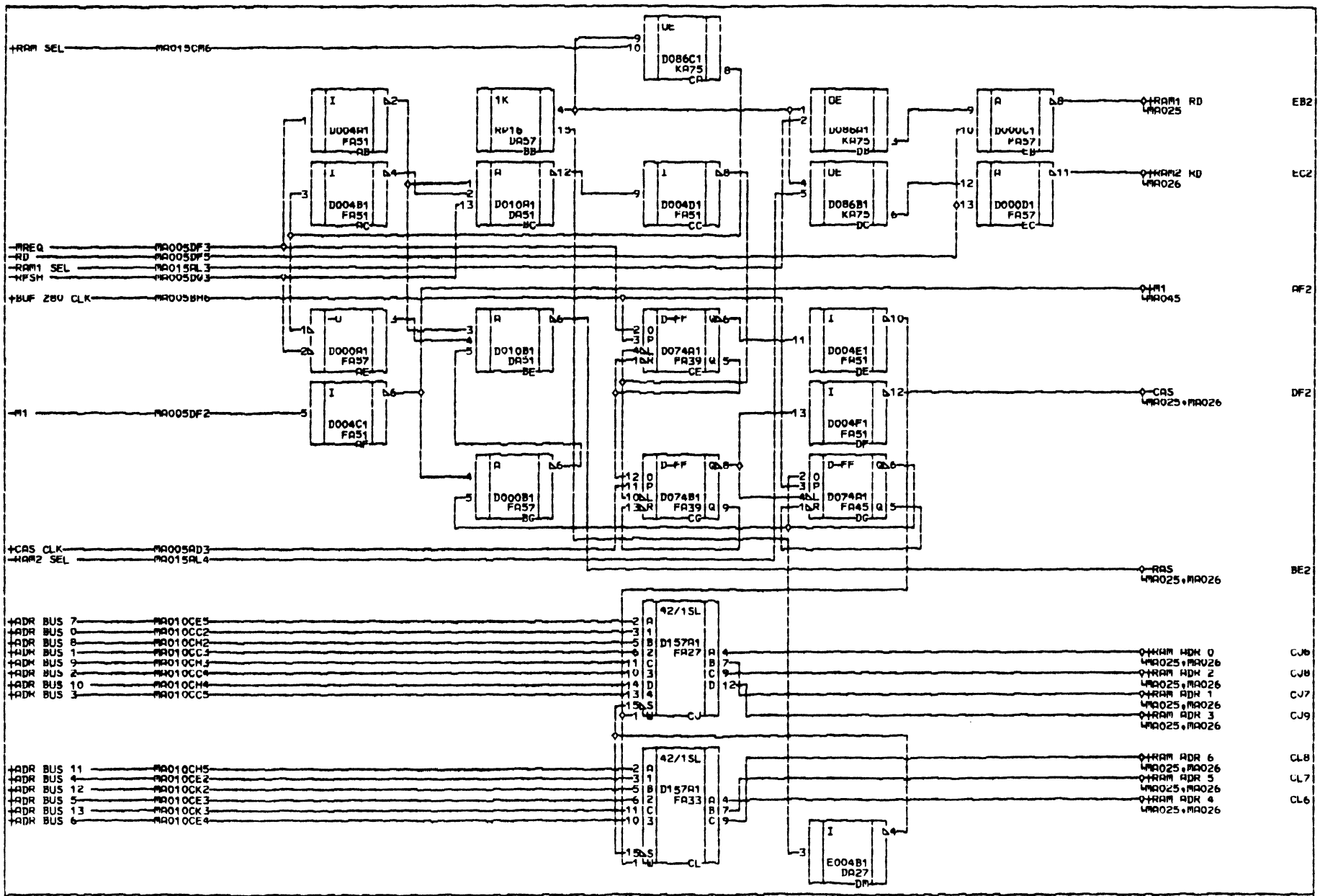
PRES. E.C. 46083 PREV. E.C. DATE 8/11/81

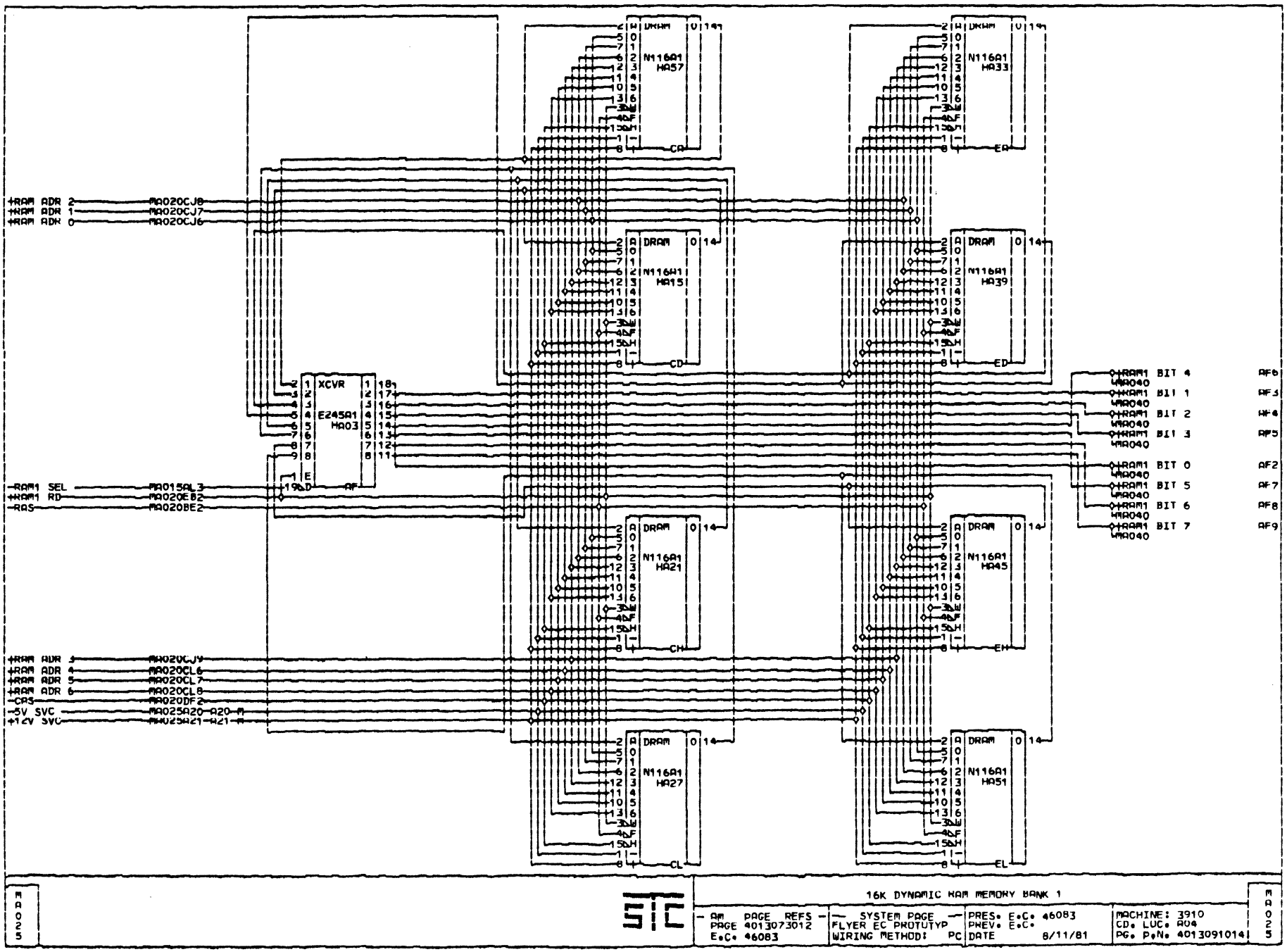
MACHINE: 3910 CD. LOC. A04 PG. P.N. 4013088010

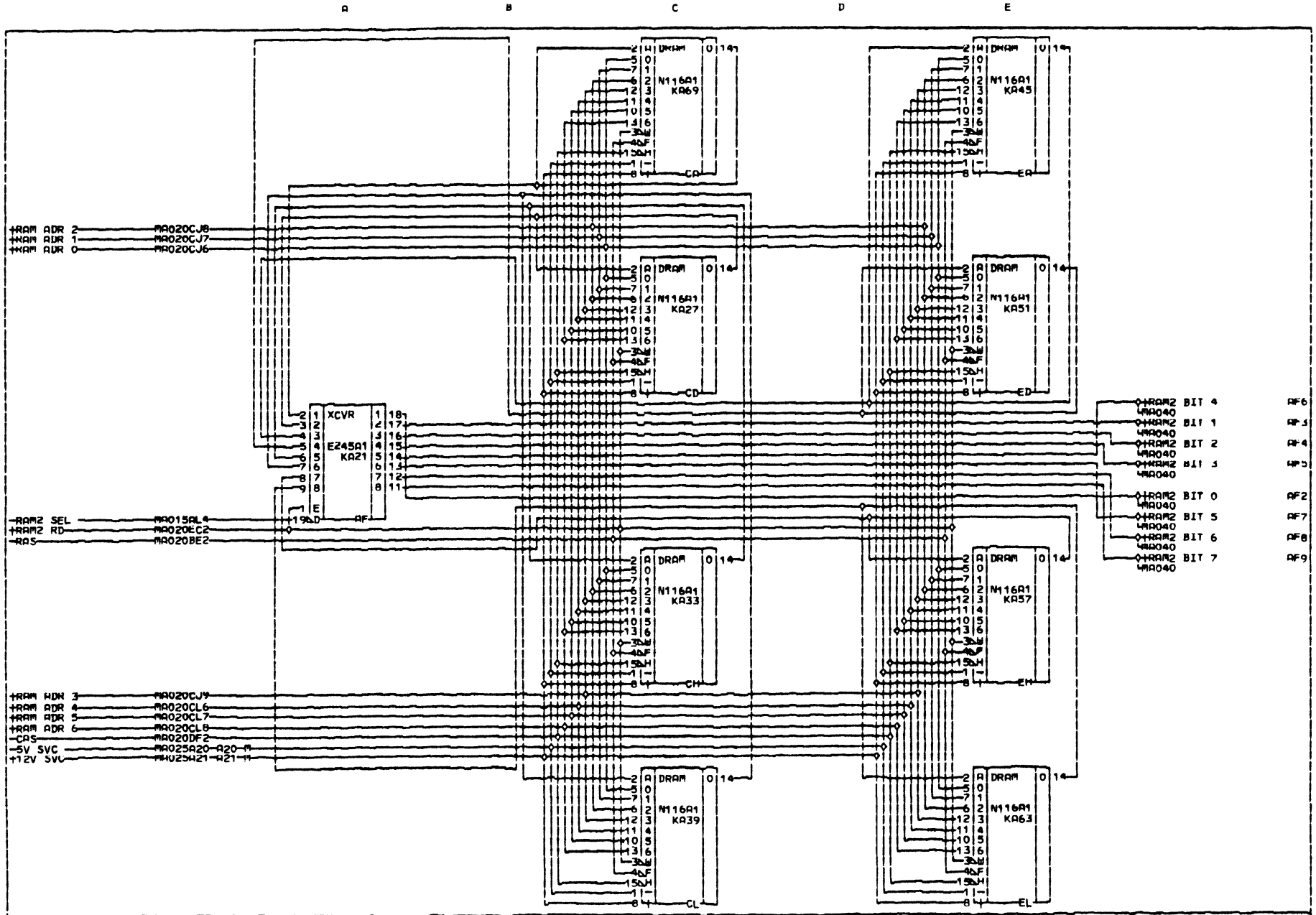
MAA4 08/12/81



MA015	PROM MEMORY*ADDRESS DECODE*I/O SELECT				MA01
	- Am PAGE REFS - PAGE 4013071016 E.C. 46083	— SYSTEM PAGE — FLYER EC PRUTOTYP WIRING METHOD: PC	PRES. E.C. 46083 PREV. E.C. DATE 8/11/81	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4013089018	05


+RAM SEL
MA015CM6
D086C1 KA75 CA
D004A1 FA51 AB
D004B1 FA51 AC
D010A1 DA51 BC
D004D1 FA51 CC
D086A1 KA75 DB
D086B1 KA75 DC
D000A1 FA57 EB
D000D1 FA57 EC
+RAM1 RD
MA025
+RAM2 RD
MA026
-MREQ
MA005DF3
-RD
MA005DF5
-RAM1 SEL
MA015AL3
-RFSH
MA005DV3
+BUF Z80 CLK
MA005BM6
+M1
MA045
D000A1 FA57 AE
D010B1 DA51 BE
D074A1 FA39 CE
D004E1 FA51 DE
-M1
MA005DF2
D004C1 FA51 AF
D004F1 FA51 DF
D000B1 FA57 BG
D074B1 FA39 CG
D074A1 FA45 DG
+CAS
MA025,MA026
+CAS CLK
MA005AD3
+RAM2 SEL
MA015AL4
+RAS
MA025,MA026
+ADR BUS 7
+ADR BUS 0
+ADR BUS 8
+ADR BUS 1
+ADR BUS 9
+ADR BUS 2
+ADR BUS 10
+ADR BUS 3
MA010CE5
MA010CC2
MA010CH2
MA010CC3
MA010CH3
MA010CC4
MA010CH4
MA010CC5
42/1SL
D157A1 FA27 CJ
+RAM ADR 0
+RAM ADR 2
+RAM ADR 1
+RAM ADR 3
CJ6
CJ8
CJ7
CJ9
+ADR BUS 11
+ADR BUS 4
+ADR BUS 12
+ADR BUS 5
+ADR BUS 13
+ADR BUS 6
MA010CH5
MA010CE2
MA010CK2
MA010CE3
MA010CK3
MA010CE4
D157A1 FA33 CL
+RAM ADR 6
+RAM ADR 5
+RAM ADR 4
CL8
CL7
CL6
E004B1 DA27 DM
DYNAMIC RAM ADDRESS CONTROL AND MULTIPLEXING
- AM PAGE REFS -
PAGE 4013072014
E.C. 46083
— SYSTEM PAGE —
FLYER EL PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46083
PREV. E.C.
DATE 8/11/81
MACHINE: 3910
CD. LOC. A04
PG. P.N. 4013090016


A
B
C
D
E
+RAM ADR 2
+RAM ADR 1
+RAM ADR 0
-RAM1 SEL
+RAM1 RD
-RAS
+RAM ADR 3
+RAM ADR 4
+RAM ADR 5
+RAM ADR 6
-CAS
-5V SVC
+12V SVC
XCVR
E245A1
MA03
N116A1
MA57
MA15
MA21
MA27
MA33
MA39
MA45
MA51
DRAM
+RAM1 BIT 4
+RAM1 BIT 1
+RAM1 BIT 2
+RAM1 BIT 3
+RAM1 BIT 0
+RAM1 BIT 5
+RAM1 BIT 6
+RAM1 BIT 7
16K DYNAMIC RAM MEMORY BANK 1
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46083
PREV. E.C.
DATE 8/11/81
MACHINE: 3910
CD. LUC. A04
PG. P.N. 4013091014

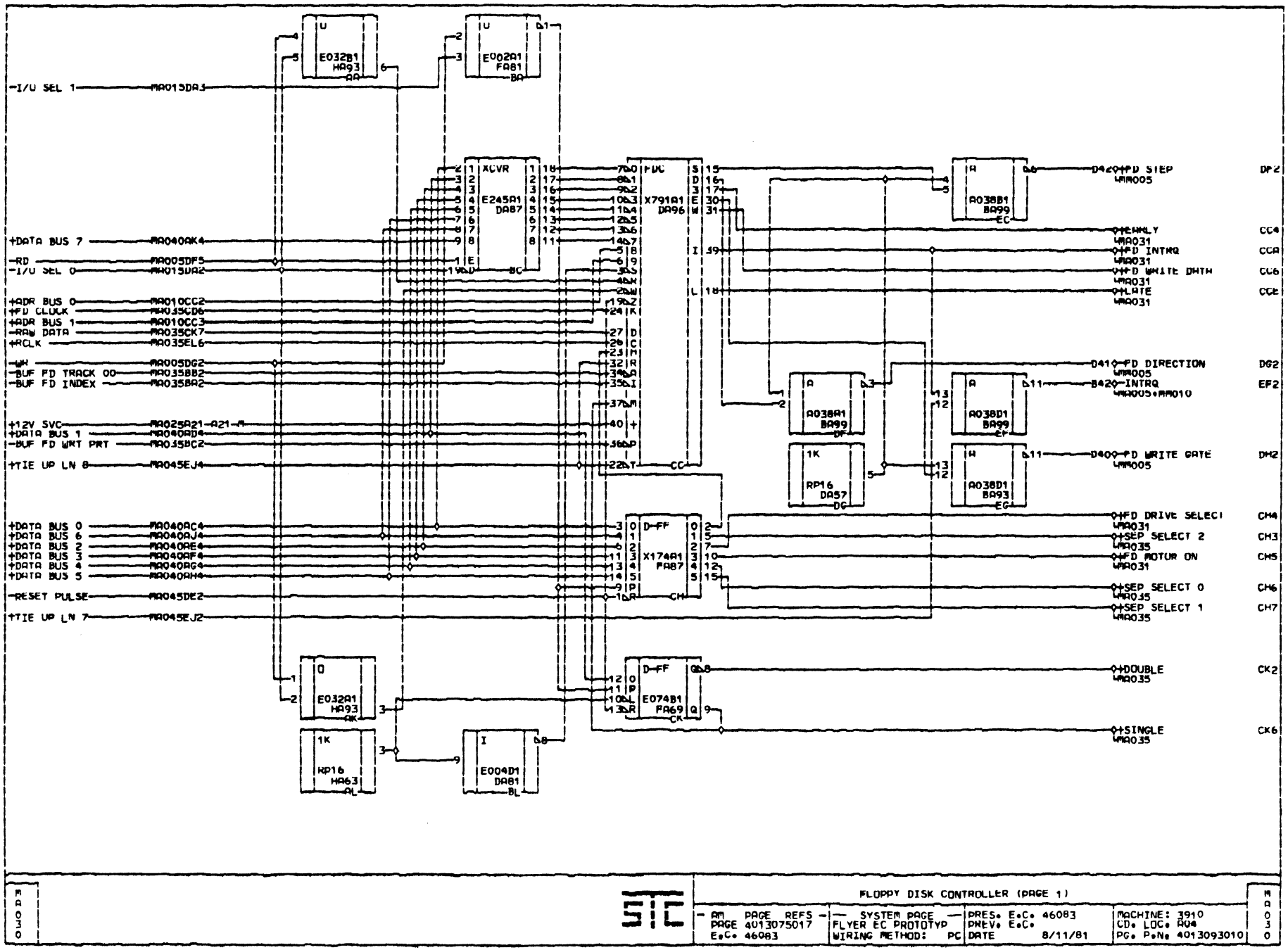


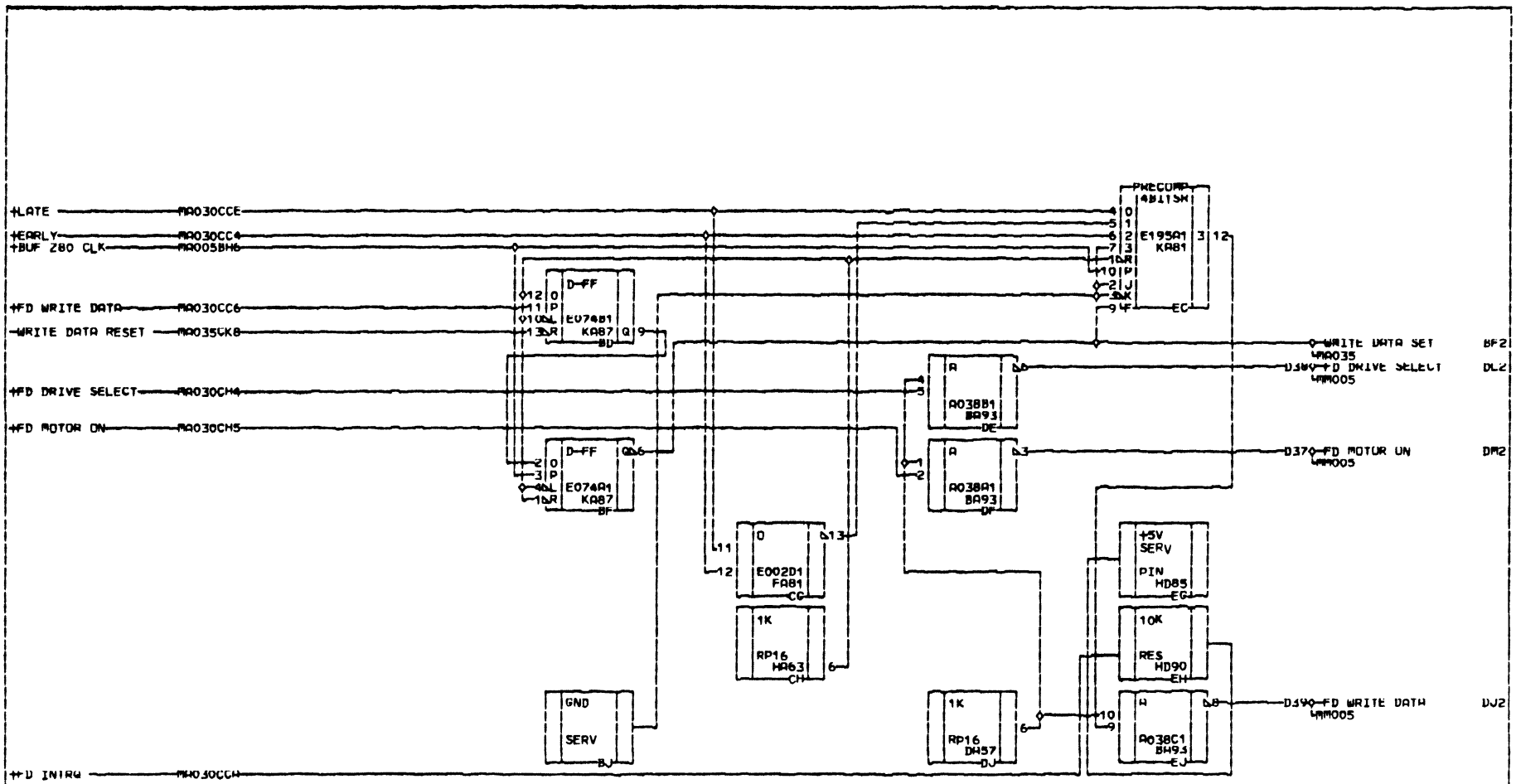
NOTE: THE COMPONENTS ON THIS PAGE ARE ONLY INSTALLED FOR THE 32K RAM VERSION; P/N 401310201.
OMITTING THESE COMPONENTS PRODUCES THE 16K RAM VERSIONS; P/N 400010305.

16K DYNAMIC RAM MEMORY BANK 2

AM PAGE REFS	SYSTEM PAGE	PRES. E.C. 46083	MACHINE: 3910
PAGE 4013074010	FLYER EC PRUTUTYP	PREV. E.C.	CD. LUC. A04
E.C. 46083	WIRING METHOD: PC	DATE 8/11/81	PG. P.N. 4013092012

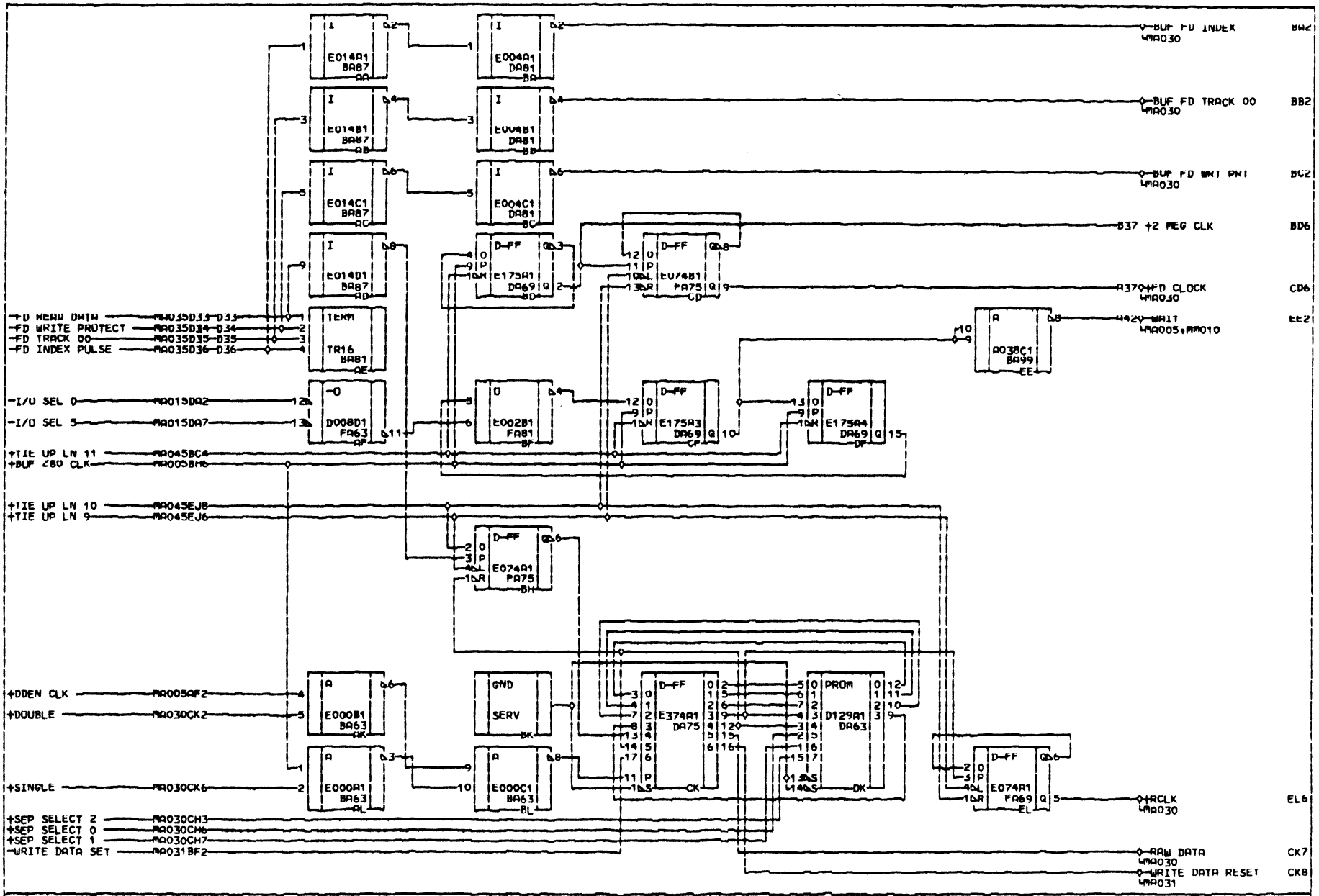
MAA4 08/12/81

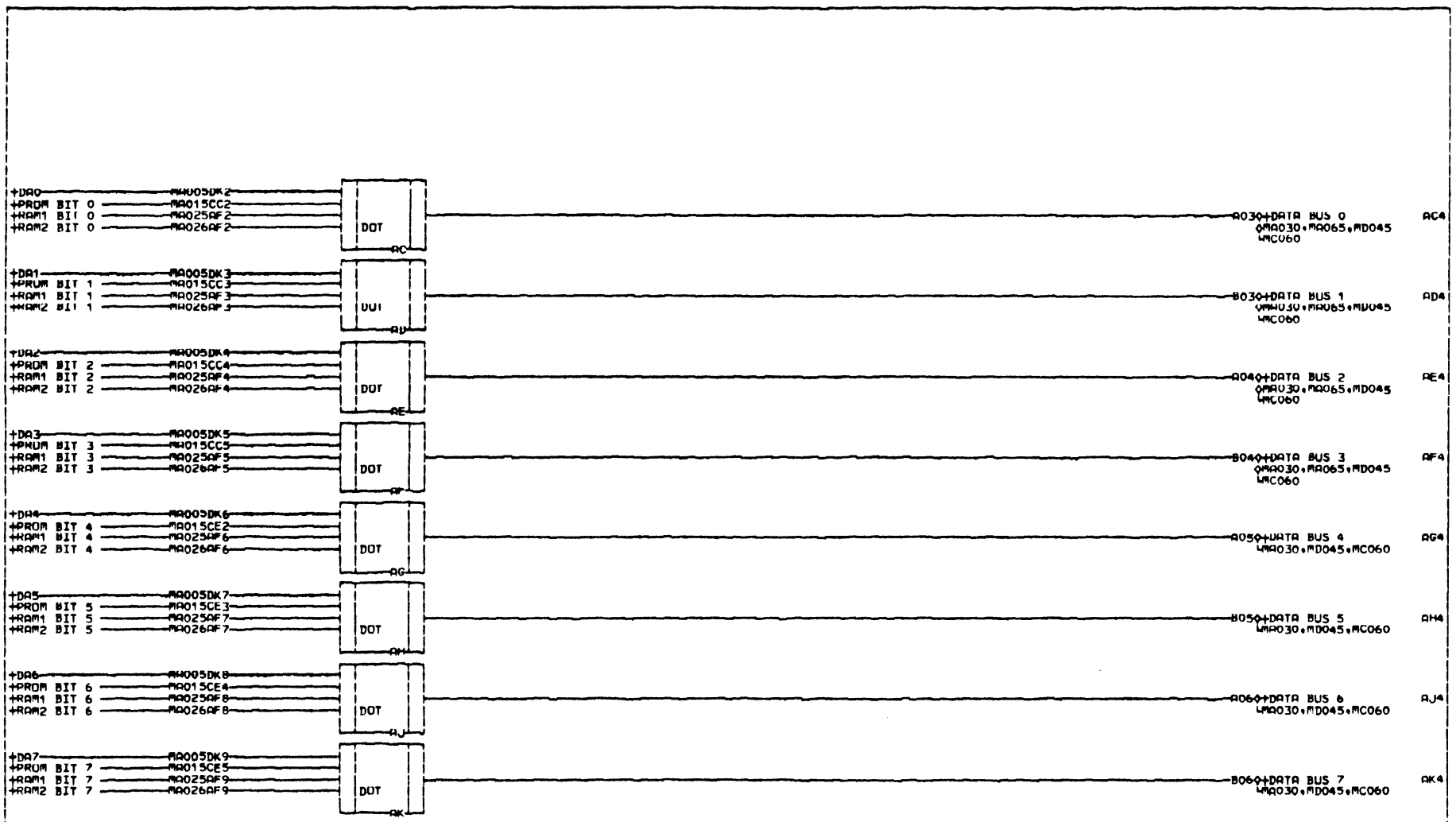

-I/U SEL 1 MA015DA3
+DATA BUS 7 MA040AK4
-RD MA005DF5
-I/U SEL 0 MA015DA2
+ADR BUS 0 MA010CC2
+FD CLOCK MA035CD6
+ADR BUS 1 MA010CC3
-RAW DATA MA035CK7
+RCLK MA035EL6
-WR MA005DG2
-BUF FD TRACK 00 MA035BB2
-BUF FD INDEX MA035BA2
+12V SVC MA025A21-A21-M
+DATA BUS 1 MA040AD4
-BUF FD WRT PRT MA035BC2
+TIE UP LN 8 MA045EJ4
+DATA BUS 0 MA040AC4
+DATA BUS 6 MA040AJ4
+DATA BUS 2 MA040AE4
+DATA BUS 3 MA040AF4
+DATA BUS 4 MA040AG4
+DATA BUS 5 MA040AH4
-RESET PULSE MA045DE2
+TIE UP LN 7 MA045EJ2
E032B1 MA93 AA
E002A1 FA81 BA
XCVR
E245A1 DA87 BC
FDC
X791A1 DA96
A038B1 BA99 EC
+FD STEP MA005
+REWLY MA031
+FD INTRQ MA031
+FD WRITE DATA MA031
+LATE MA031
A038A1 BA99 DF
A038D1 BA99 EF
-INTRQ MA005+MA010
1K RP16 DA57 DG
A038D1 BA93 EG
+FD DIRECTION MA005
+FD WRITE GATE MA005
D-FF X174A1 FA87
+FD DRIVE SELECT MA031
+SEP SELECT 2 MA035
+FD MOTOR ON MA031
+SEP SELECT 0 MA035
+SEP SELECT 1 MA035
E032A1 MA93 AK
1K RP16 MA63 AL
E004D1 DA81 BL
D-FF E074B1 FA69 CK
+DOUBLE MA035
+SINGLE MA035
FLOPPY DISK CONTROLLER (PAGE 1)
AM PAGE REFS
PAGE 4013075017
E.C. 46083
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46083
PREV. E.C.
DATE 8/11/81
MACHINE: 3910
CD. LOC. A04
PG. P.N. 4013093010



MA031		FLOPPY DISK CONTROLLER (PAGE 2)			MA031
	— AM PAGE REFS — PAGE 4013076015 E.C. 46083	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46083 PREV. E.C. DATE 8/11/81	MACHINE: 3910 CD. LOC. A04 PG. P.N. 4013094018	

MMA4 08/12/81

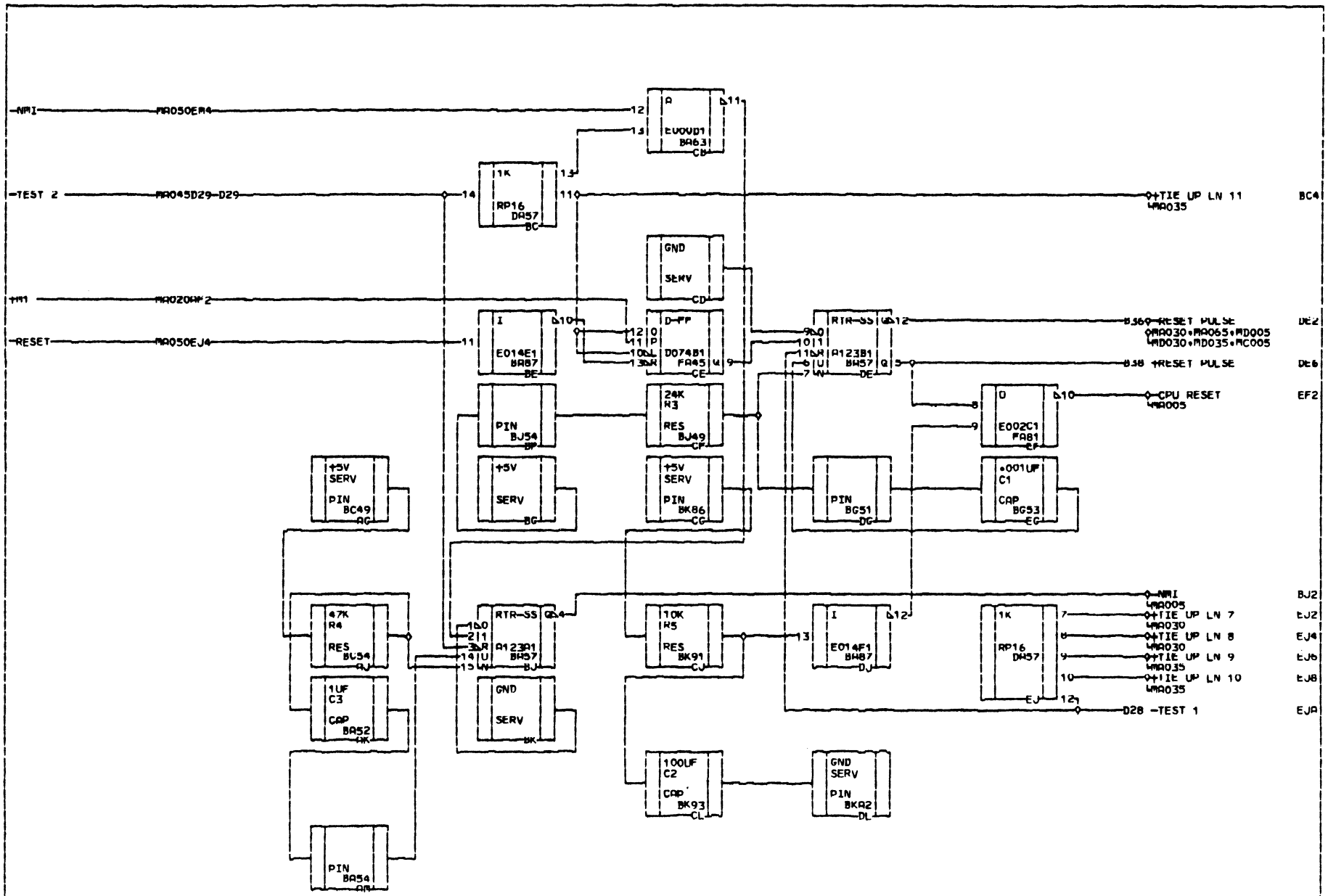

+FD READ DATA
-FD WRITE PROTECT
-FD TRACK 00
-FD INDEX PULSE
-I/O SEL 0
-I/O SEL 5
+TIE UP LN 11
+BUF Z80 CLK
+TIE UP LN 10
+TIE UP LN 9
+DDEN CLK
+DOUBLE
+SINGLE
+SEP SELECT 2
+SEP SELECT 0
+SEP SELECT 1
-WRITE DATA SET
BUF FD INDEX
BUF FD TRACK 00
BUF FD WRT PRT
837 +2 MEG CLK
837 FD CLOCK
WAIT
RCLK
RAW DATA
WRITE DATA RESET
FLOPPY DISK DATA SEPARATER AND CLOCK
PAGE 4013077013
E.C. 46083
SYSTEM PAGE
FLYER EL PRUTOTYP
WIRING METHOD: PC
PRES. E.C. 46083
PREV. E.C.
DATE 8/11/81
MACHINE: 3910
CD. LOC. A04
PG. P.N. 4013095015



DATA BUS CONNECTIONS

— AM PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46083	MACHINE: 3910
PAGE 4013078011	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. M04
E.C. 46083	WIRING METHOD: PC	DATE 8/11/81	PG. P.N. 4013096013

MMA4 08/12/81

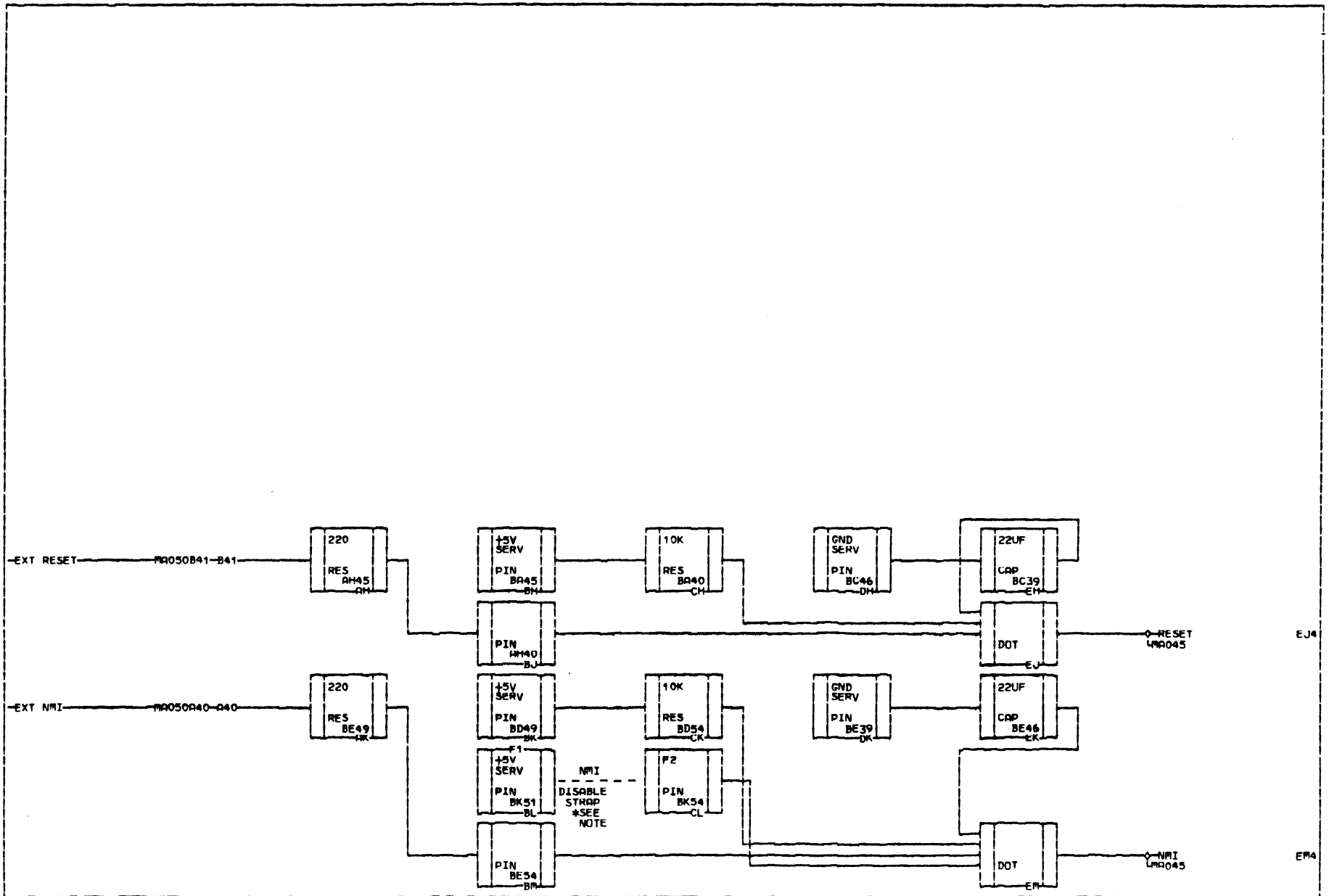


EXTERNAL RESET CIRCUIT

- Am PAGE REFS -	— SYSTEM PAGE —	PRES• E•C• 46083	MACHINE: 3910
PAGE 4013079019	FLYER EC PROTOTYP	PREV• E•C•	CD• LOC• A04
E•C• 46083	WIRING METHOD: PC	DATE 8/11/81	PG• P•N• 4013097011

MA045

MMA4 08/12/81

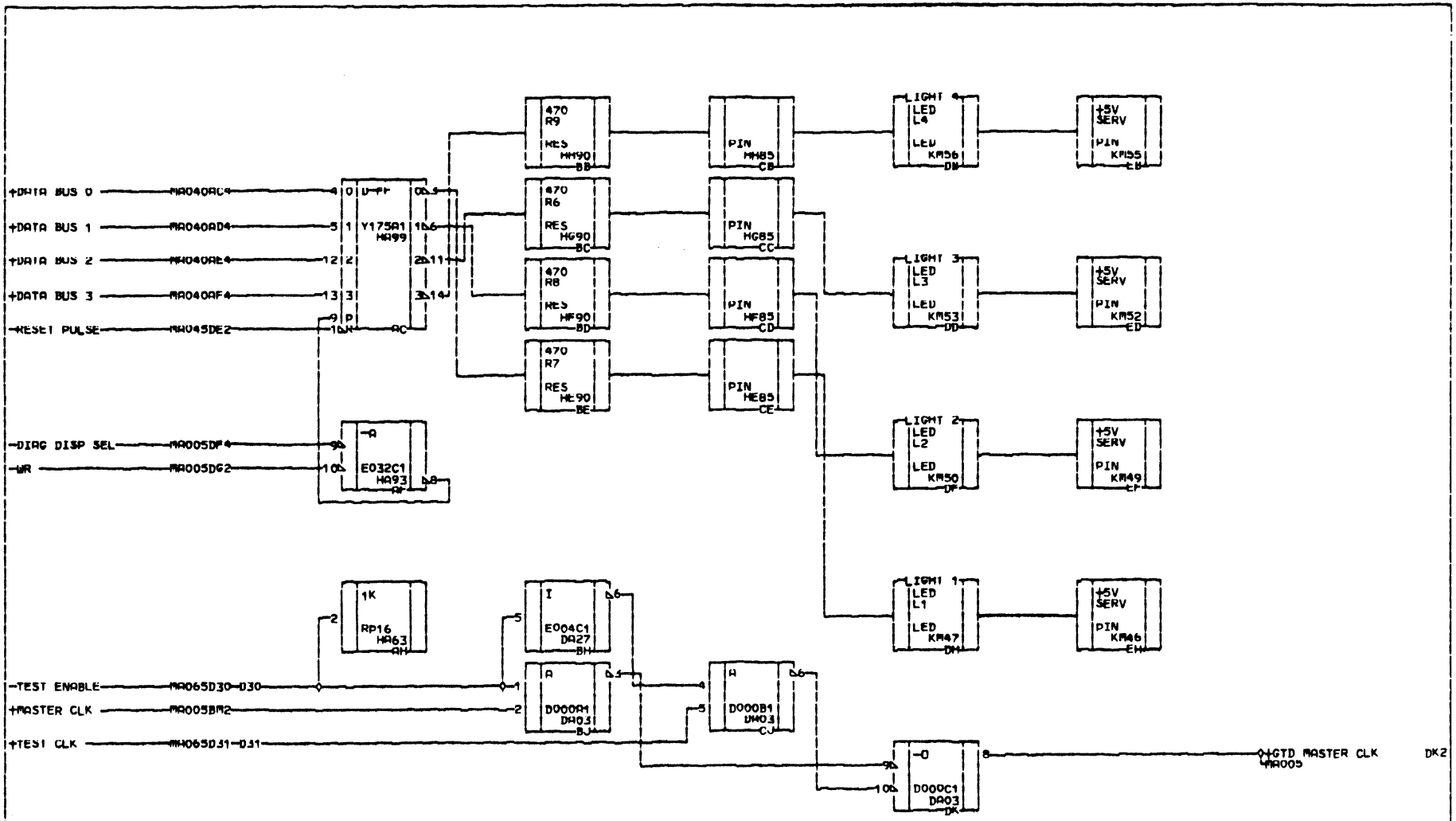


*NOTE: WHEN THIS STRAP IS INSTALLED THE NMI KEY IS DISABLED.

MA050

DYNAMIC RAM SUPPLY DECOUPLING & SWITCH CONTACT FILTERING

AM PAGE REFS	SYSTEM PAGE			
PAGE 4013080017	FLYER EC PRUTOTYP	PRES. E.C. 46083	MACHINE: 3910	MA050
E.C. 46083	WIRING METHOD: PC	PREV. E.C.	CD. LOC. AU4	
		DATE 8/11/81	PG. P.N. 4013098019	



DIAGNOSTIC LATCH AND LIGHTS, TEST CLOCK SELECT

AM PAGE REFS	SYSTEM PAGE	PRES. E.C. 46083	MACHINE: 3910
PAGE 4013081015	FLYER EC PROTOTYP	PREV. E.C.	CD. LVL. AV4
E.C. 46083	WIRING METHOD: PC	DATE 8/11/81	PG. P.N. 4013099017

AA065

HMW4 08/12/81

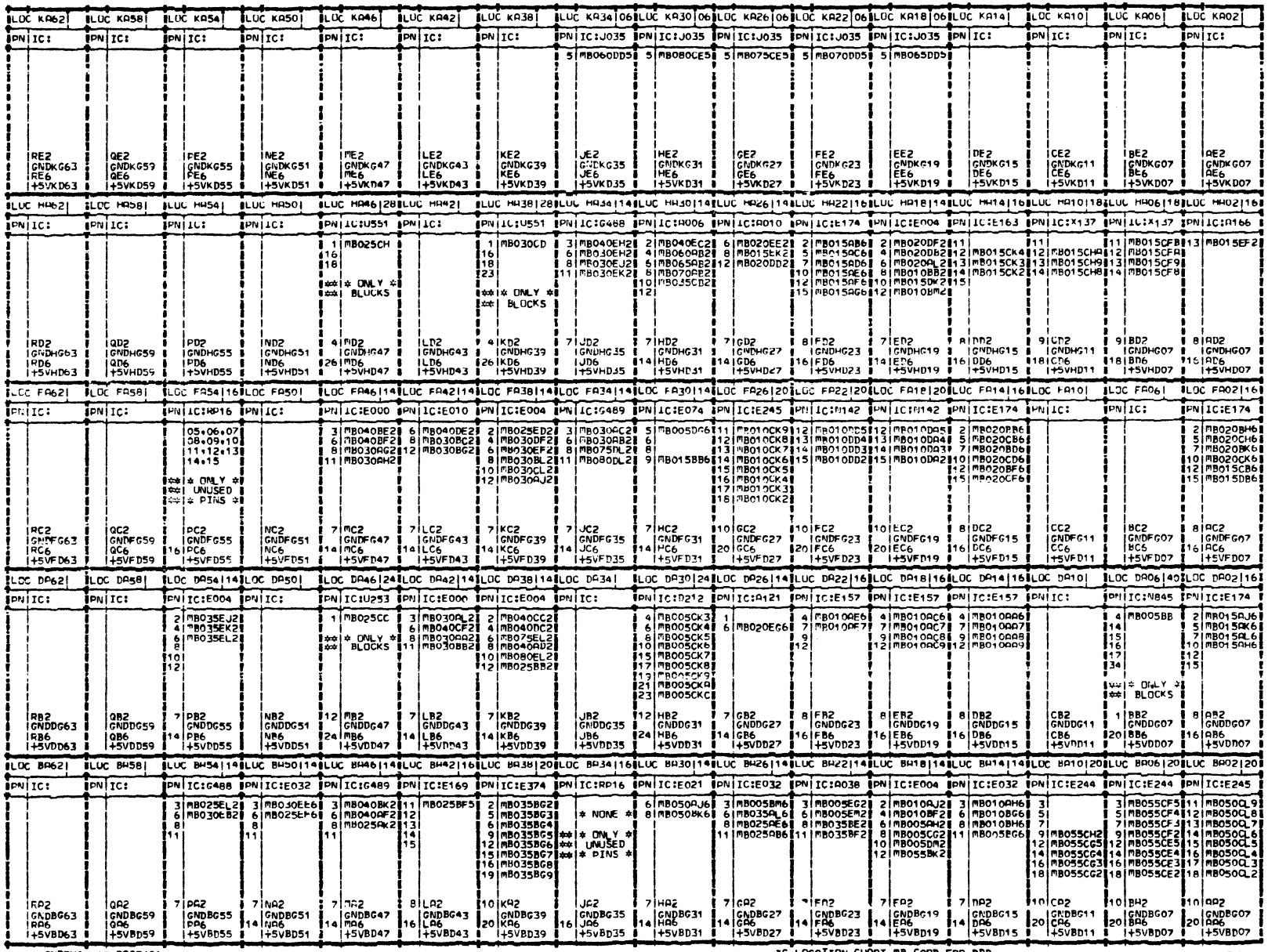
BUILD ARC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E
02-25-81	1	46095

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	400041304	9	D	N	SYSLGCGP,MB,400011104,WW	N	REL	02-01-81	3910	02-02-81

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	000	01	400005604	6		REF	PC	CD LGC,AM215,MB,W/W	D						
	001	01	400034303	6		REF	PC	SYS LOGIC,MB005,W/W	D						
	002	01	400034402	0		REF	PC	SYS LGC,MB010,WW	D		46081			8043	
	003	01	400034502	7		REF	PC	SYS LGC,MB015,WW	D		46081			8043	
	004	01	400034602	5		REF	PC	SYS LGC,MB020,WW	D		46081			8043	
	005	01	400034701	5		REF	PC	SYS LOGIC,MB025,W/W	D						
	006	01	400034802	1		REF	PC	SYS LGC,MB030,WW	D		46081			8043	
	007	01	400034901	1		REF	PC	SYS LOGIC,MB035,W/W	D						
	008	01	400035001	9		REF	PC	SYS LOGIC,MB040,W/W	D						
	009	01	400035101	7		REF	PC	SYS LOGIC,MB050,W/W	D						
	010	01	400035202	3		REF	PC	SYS LOGIC,MB055,W/W	D		46044			7929	
	011	01	400035301	3		REF	PC	SYS LOGIC,MB060,W/W	D						
	012	01	400035401	1		REF	PC	SYS LOGIC,MB065,W/W	D						
	013	01	400035501	8		REF	PC	SYS LOGIC,MB070,W/W	D						
	014	01	400035601	6		REF	PC	SYS LOGIC,MB075,W/W	D						
	015	01	400035701	4		REF	PC	SYS LOGIC,MB080,W/W	D						
	500	01	400011104	9		REF	PC	CKT CD,MB,W/W ASSEMBLY	S						
								0017 TOTAL LINES							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PN IC: | PN IC: | PN IC: | PN IC: | PN IC: | PN IC: | PN IC: | PN IC:J035 | PN IC:J035 | PN IC:J035 | PN IC:J035 | PN IC:J035 | PN IC: | PN IC: | PN IC: | PN IC:
5 MB060DD05 | 5 MB080CE05 | 5 MB075CE05 | 5 MB070DD05 | 5 MB065DD05
RE2 GNDKG63 RE6 +5VKD63 | QE2 GNDKG59 QE6 +5VKD59 | FE2 GNDKG55 FE6 +5VKD55 | NE2 GNDKG51 NE6 +5VKD51 | ME2 GNDKG47 ME6 +5VKD47 | LE2 GNDKG43 LE6 +5VKD43 | KE2 GNDKG39 KE6 +5VKD39 | JE2 GNDKG35 JE6 +5VKD35 | HE2 GNDKG31 HE6 +5VKD31 | GE2 GNDKG27 GE6 +5VKD27 | FE2 GNDKG23 FE6 +5VKD23 | EE2 GNDKG19 EE6 +5VKD19 | DE2 GNDKG15 DE6 +5VKD15 | CE2 GNDKG11 CE6 +5VKD11 | BE2 GNDKG07 BE6 +5VKD07 | AE2 GNDKG07 AE6 +5VKD07
LOC MA62 | LOC MA58 | LOC MA54 | LOC MA50 | LOC MA46 28 | LOC MA42 | LOC MA38 28 | LOC MA34 14 | LOC MA30 14 | LOC MA26 14 | LOC MA22 16 | LOC MA18 14 | LOC MA14 16 | LOC MA10 18 | LOC MA06 18 | LOC MA02 16
PN IC: | PN IC: | PN IC: | PN IC: | PN IC:U551 | PN IC: | PN IC:U551 | PN IC:G488 | PN IC:R006 | PN IC:R010 | PN IC:E174 | PN IC:E004 | PN IC:E163 | PN IC:X137 | PN IC:X137 | PN IC:R166
1 MB025CH 16 18 23 ** * ONLY * ** BLOCKS | 1 MB030CD 16 18 23 ** * ONLY * ** BLOCKS | 3 MB040EH2 6 MB030EH2 8 MB030EJ2 11 MB030EK2 | 2 MB040EC2 4 MB060AB2 6 MB065AB2 8 MB070AB2 10 MB035CD2 12 | 6 MB020EE2 8 MB015EK2 12 MB020DD2 | 2 MB015AB6 5 MB015AC6 7 MB015AD6 10 MB015AE6 12 MB015AF6 15 MB015AG6 | 2 MB020DF2 4 MB020DB2 6 MB020AL2 8 MB010BB2 10 MB015DK2 12 MB010BM2 | 11 12 MB015CH4 13 MB015CK3 14 MB015CK2 | 11 12 MB015CH8 13 MB015CH9 14 MB015CH8 | 11 12 MB015CFA 13 MB015CF9 14 MB015CF8 | 11 12 MB015CFB 13 MB015CF8 | 13 MB015EF2
RD2 GNDHG63 RD6 +5VHD63 | QD2 GNDHG59 QD6 +5VHD59 | PD2 GNDHG55 PD6 +5VHD55 | ND2 GNDHG51 ND6 +5VHD51 | MD2 GNDHG47 MD6 +5VHD47 | LD2 GNDHG43 LD6 +5VHD43 | KD2 GNDHG39 KD6 +5VHD39 | JD2 GNDHG35 JD6 +5VHD35 | HD2 GNDHG31 HD6 +5VHD31 | GD2 GNDHG27 GD6 +5VHD27 | FD2 GNDHG23 FD6 +5VHD23 | ED2 GNDHG19 ED6 +5VHD19 | DD2 GNDHG15 DD6 +5VHD15 | CD2 GNDHG11 CD6 +5VHD11 | BD2 GNDHG07 BD6 +5VHD07 | AD2 GNDHG07 AD6 +5VHD07
LOC FA62 | LOC FA58 | LOC FA54 16 | LOC FA50 | LOC FA46 14 | LOC FA42 14 | LOC FA38 14 | LOC FA34 14 | LOC FA30 14 | LOC FA26 20 | LOC FA22 20 | LOC FA18 20 | LOC FA14 16 | LOC FA10 | LOC FA06 | LOC FA02 16
PN IC: | PN IC: | PN IC:RP16 | PN IC: | PN IC:E000 | PN IC:E010 | PN IC:E004 | PN IC:G489 | PN IC:E074 | PN IC:E245 | PN IC:R142 | PN IC:R142 | PN IC:E174 | PN IC: | PN IC: | PN IC:E174
05 06 07 08 09 10 11 12 13 14 15 ** * ONLY * ** UNUSED ** * PINS * | 3 MB040BE2 6 MB040BF2 8 MB030AG2 11 MB030AH2 | 6 MB040DE2 8 MB030BC2 12 MB030BG2 | 2 MB025ED2 4 MB030DF2 6 MB030EF2 8 MB030BL2 10 MB030CL2 12 MB030AJ2 | 3 MB030CC2 6 MB030AB2 8 MB075DL2 9 MB015BB6 | 5 MB005DG6 6 8 | 11 12 13 14 15 16 17 18 MB010CK9 MB010CK8 MB010CK7 MB010CK6 MB010CK5 MB010CK4 MB010CK3 MB010CK2 | 12 13 14 15 MB010DD5 MB010DD4 MB010DD3 MB010DD2 | 12 13 14 15 MB010DA5 MB010DA4 MB010DA3 MB010DA2 | 2 5 7 10 12 15 MB020PB6 MB020CB6 MB020BD6 MB020CD6 MB020BF6 MB020CF6 | 2 5 7 10 12 15 MB020BH6 MB020CH6 MB020BK6 MB020CK6 MB015CB6 MB015DB6
RC2 GNDFG63 RC6 +5VFD63 | QC2 GNDFG59 QC6 16 +5VFD59 | PC2 GNDFG55 PC6 +5VFD55 | NC2 GNDFG51 NC6 +5VFD51 | MC2 GNDFG47 MC6 14 +5VFD47 | LC2 GNDFG43 LC6 14 +5VFD43 | KC2 GNDFG39 KC6 14 +5VFD39 | JC2 GNDFG35 JC6 14 +5VFD35 | HC2 GNDFG31 HC6 14 +5VFD31 | GC2 GNDFG27 GC6 20 +5VFD27 | FC2 GNDFG23 FC6 20 +5VFD23 | EC2 GNDFG19 EC6 20 +5VFD19 | DC2 GNDFG15 DC6 16 +5VFD15 | CC2 GNDFG11 CC6 +5VFD11 | BC2 GNDFG07 BC6 +5VFD07 | AC2 GNDFG07 AC6 16 +5VFD07
LOC DA62 | LOC DA58 | LOC DA54 14 | LOC DA50 | LOC DA46 24 | LOC DA42 14 | LOC DA38 14 | LOC DA34 | LOC DA30 24 | LOC DA26 14 | LOC DA22 16 | LOC DA18 16 | LOC DA14 16 | LOC DA10 | LOC DA06 40 | LOC DA02 16
PN IC: | PN IC: | PN IC:E004 | PN IC: | PN IC:U253 | PN IC:E000 | PN IC:E004 | PN IC: | PN IC:D212 | PN IC:A121 | PN IC:E157 | PN IC:E157 | PN IC:E157 | PN IC: | PN IC:N845 | PN IC:E174
2 4 6 8 10 12 MB035EJ2 MB035EK2 MB035EL2 | 1 ** * ONLY * ** BLOCKS MB025CC | 3 6 8 11 MB030AL2 MB040CF2 MB030AA2 MB030BB2 | 2 4 6 8 10 12 MB040CC2 MB040DC2 MB075EL2 MB040AD2 MB080EL2 MB025BB2 | 4 6 8 10 15 17 19 21 23 MB005CK3 MB005CK4 MB005CK5 MB005CK6 MB005CK7 MB005CK8 MB005CK9 MB005CKA MB005CKC | 1 6 MB020EG6 | 4 7 9 12 MB010AE6 MB010AF7 | 4 7 9 12 MB010AC6 MB010AC7 MB010AC8 MB010AC9 | 4 7 9 12 MB010AA6 MB010AA7 MB010AA8 MB010AA9 | 4 14 15 16 17 34 ** * ONLY * ** BLOCKS MB005BB | 2 5 7 10 12 15 MB015AJ6 MB015AK6 MB015AL6 MB015AH6
RB2 GNDDG63 RB6 +5VDD63 | QB2 GNDDG59 QB6 +5VDD59 | PB2 GNDDG55 PB6 14 +5VDD55 | NB2 GNDDG51 NB6 +5VDD51 | MB2 GNDDG47 MB6 24 +5VDD47 | LB2 GNDDG43 LB6 14 +5VDD43 | KB2 GNDDG39 KB6 14 +5VDD39 | JB2 GNDDG35 JB6 +5VDD35 | HB2 GNDDG31 HB6 24 +5VDD31 | GB2 GNDDG27 GB6 +5VDD27 | FB2 GNDDG23 FB6 16 +5VDD23 | EB2 GNDDG19 EB6 +5VDD19 | DB2 GNDDG15 DB6 16 +5VDD15 | CB2 GNDDG11 CB6 +5VDD11 | BB2 GNDDG07 BB6 20 +5VDD07 | AB2 GNDDG07 AB6 16 +5VDD07
LOC BA62 | LOC BA58 | LOC BA54 14 | LOC BA50 14 | LOC BA46 14 | LOC BA42 16 | LOC BA38 20 | LOC BA34 16 | LOC BA30 14 | LOC BA26 14 | LOC BA22 14 | LOC BA18 14 | LOC BA14 14 | LOC BA10 20 | LOC BA06 20 | LOC BA02 20
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3 6 8 11 MB025EL2 MB030EB2 | 3 6 8 11 MB030EE6 MB025EH6 | 3 6 8 11 MB040BK2 MB040AF2 MB025AK2 | 11 12 13 14 15 MB025BF5 | 2 5 6 9 12 15 16 19 MB035BG2 MB035BG3 MB035BG4 MB035BG5 MB035BG6 MB035BG7 MB035BG8 MB035BG9 | ** * NONE * ** ** * ONLY * ** UNUSED ** * PINS * | 6 8 MB050AJ6 MB050BK6 | 3 6 8 11 MB005BM6 MB035AL6 MB025AE6 MB025AB6 | 3 6 8 11 MB005EG2 MB005EM2 MB035BE2 MB035BF2 | 2 4 6 8 10 12 MB010AJ2 MB010BF2 MB010BH6 MB005CG2 MB005DM2 MB055BK2 | 3 6 8 11 MB010AH6 MB010BG6 MB005AH2 MB005BG6 | 3 5 7 9 12 14 16 18 MB055CH2 MB055CG5 MB055CG4 MB055CG3 MB055CG2 | 3 5 7 9 12 14 16 18 MB055CF5 MB055CF4 MB055CF3 MB055CF2 MB055CE5 MB055CE4 MB055CE3 MB055CE2 | 11 12 13 14 15 16 17 18 MB050CL9 MB050CL8 MB050CL7 MB050CL6 MB050CL5 MB050CL4 MB050CL3 MB050CL2
RA2 GNDBG63 RA6 +5VBD63 | QA2 GNDBG59 QA6 +5VBD59 | PA2 GNDBG55 PA6 7 +5VBD55 | NA2 GNDBG51 NA6 14 +5VBD51 | MA2 GNDBG47 MA6 14 +5VBD47 | LA2 GNDBG43 LA6 16 +5VBD43 | KA2 GNDBG39 KA6 20 +5VBD39 | JA2 GNDBG35 JA6 16 +5VBD35 | HA2 GNDBG31 HA6 14 +5VBD31 | GA2 GNDBG27 GA6 14 +5VBD27 | FA2 GNDBG23 FA6 14 +5VBD23 | EA2 GNDBG19 EA6 14 +5VBD19 | DA2 GNDBG15 DA6 14 +5VBD15 | CA2 GNDBG11 CA6 20 +5VBD11 | BA2 GNDBG07 BA6 20 +5VBD07 | AA2 GNDBG07 AA6 20 +5VBD07
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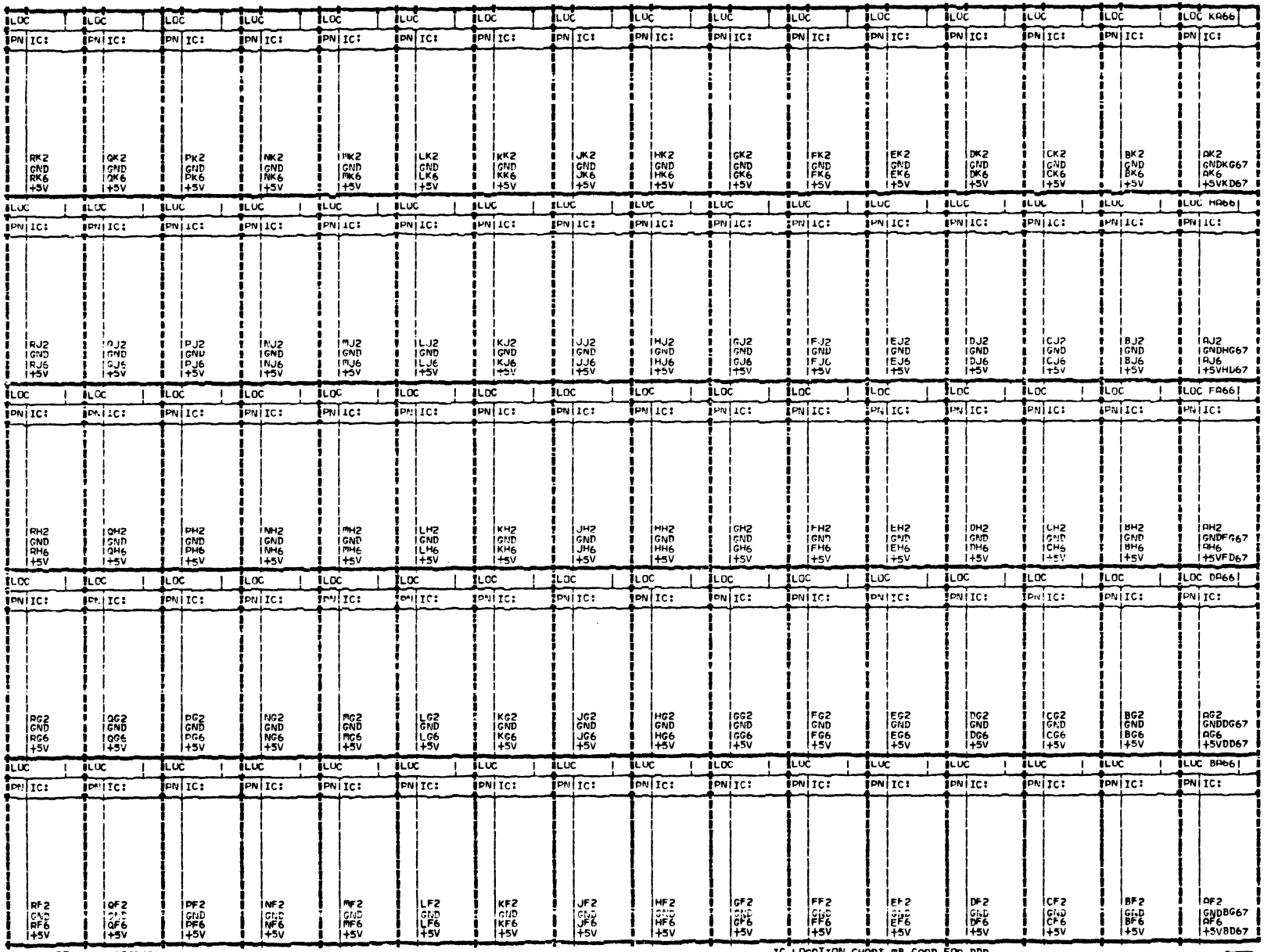
PAGE CRD PG P/N EC LEVEL
MB005 4000225039 46095
MB010 4000226029 46081
MB015 4000227027 46081
MB020 4000228025 46081
MB025 4000229015 46003
MB030 4000230021 46081
MB035 4000231011 46003
MB040 4000232019 46003
MB050 4000233017 46003
MB055 4000234023 46034
MB060 4000235012 46003
MB065 4000236010 46003
MB070 4000237018 46003
MB075 4000238016 46003
MB080 4000239014 46003
IC LOCATION CHART MB CARD FOR DDD
PRESENT EC 46095 DATE 1/06/81 CD PN 4002111049
PREV EC 46081 PAGE PN 4000056046 CD TYPE MB FLEVEL 34559
PAGE 1 OF 2
MMB1 01/07/81 01/07/81 PROF: PDDD516



INDEX: 15 PAGE(S)

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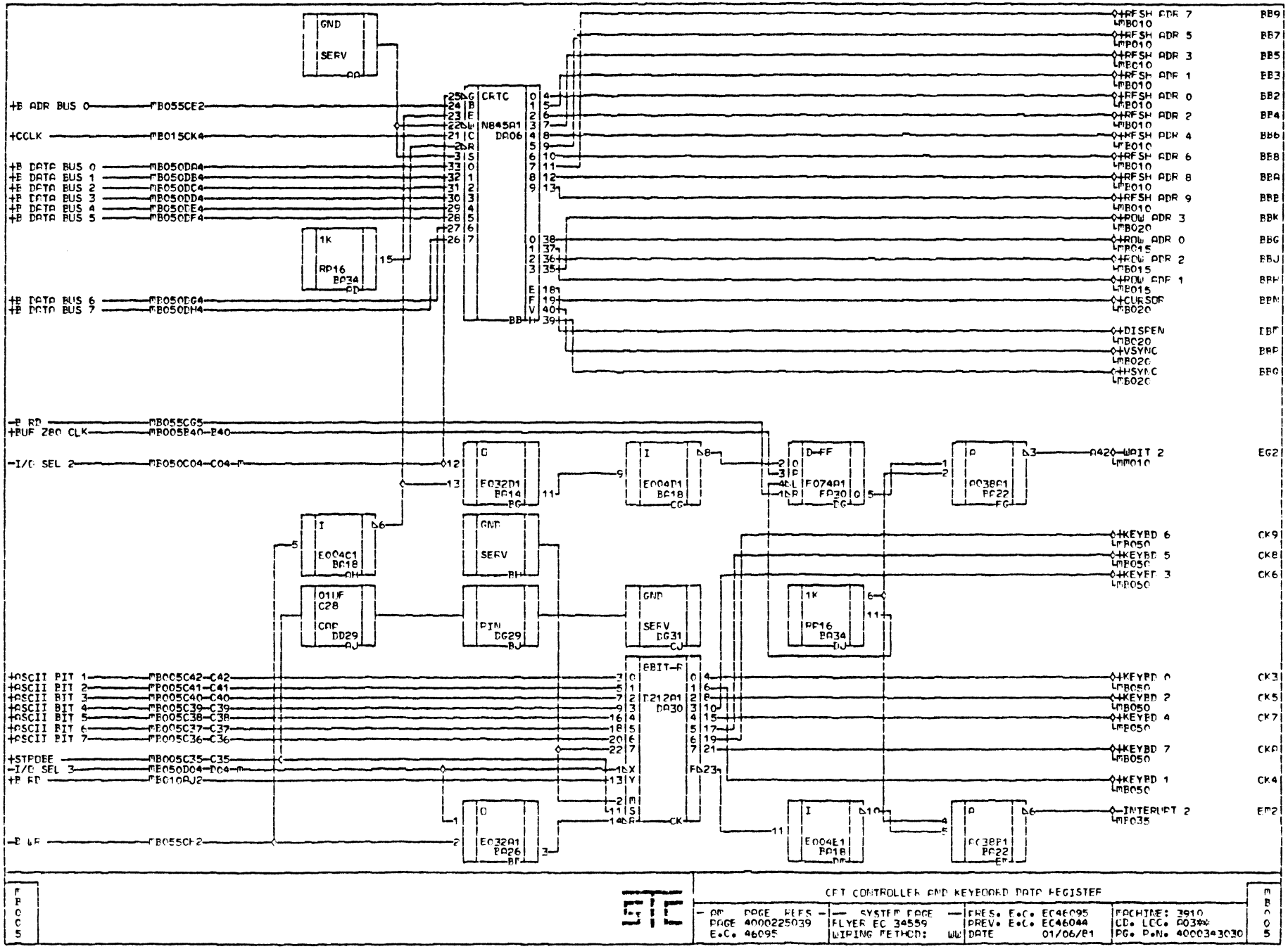
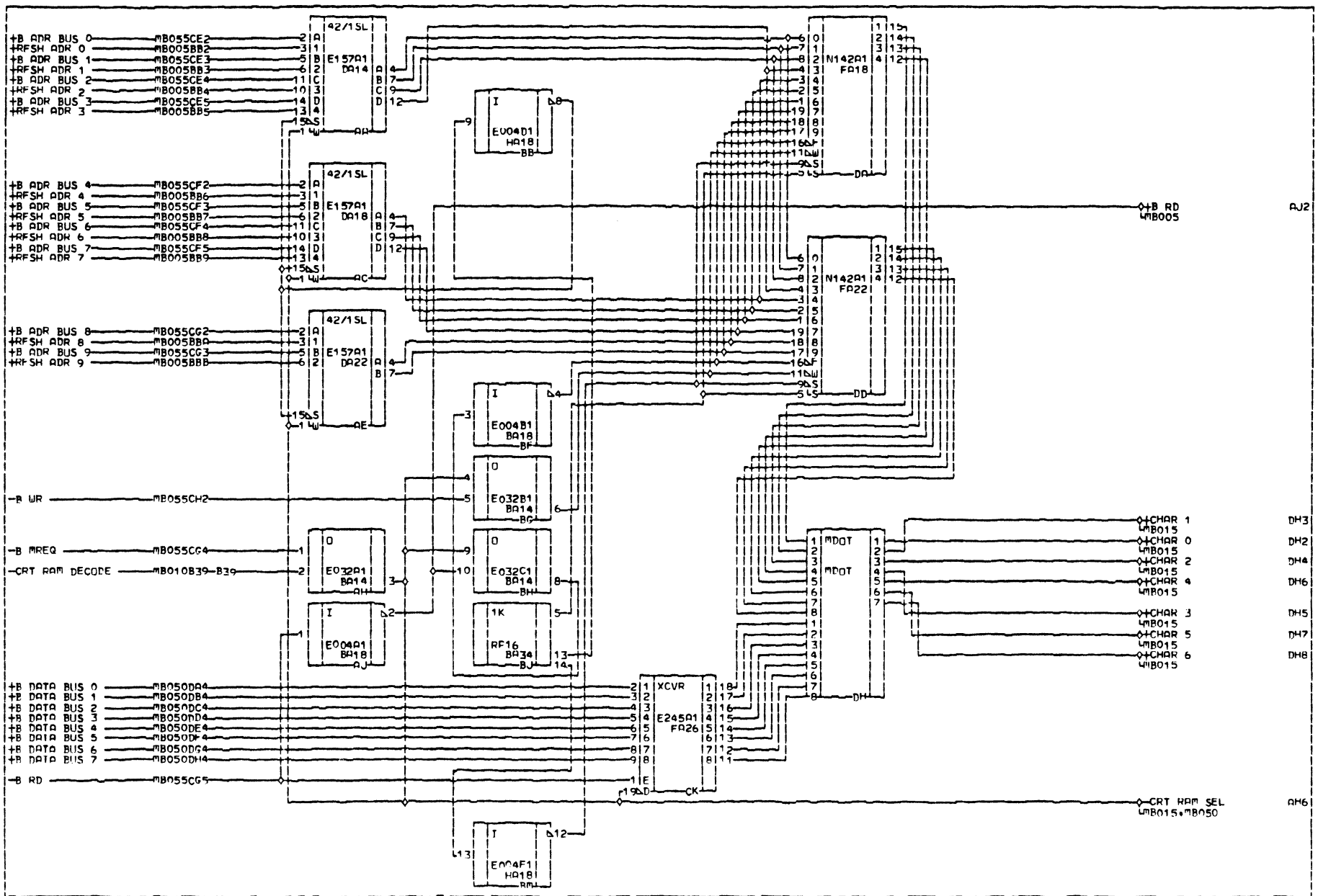
MB015	4000227027	46081
MB020	4000228025	46081
MB025	4000229015	46003
MB030	4000230021	46081
MB035	4000231011	46003
MB040	4000232019	46003
MB050	4000233017	46003
MB055	4000234015	46034
MB060	4000235012	46003
MB065	4000236010	46003
MB070	4000237018	46003
MB075	4000238016	46003
MB080	4000239014	46003

IC LOCATION CHART MB CARD FOR DDD

PRESENT EC	46095	DATE	1/06/81	CD PN	4000111049
PREV EC	46081	PAGE PN	4000056046	CD TYPE MB	FLEVEL 34559

PAGE 2 OF 2

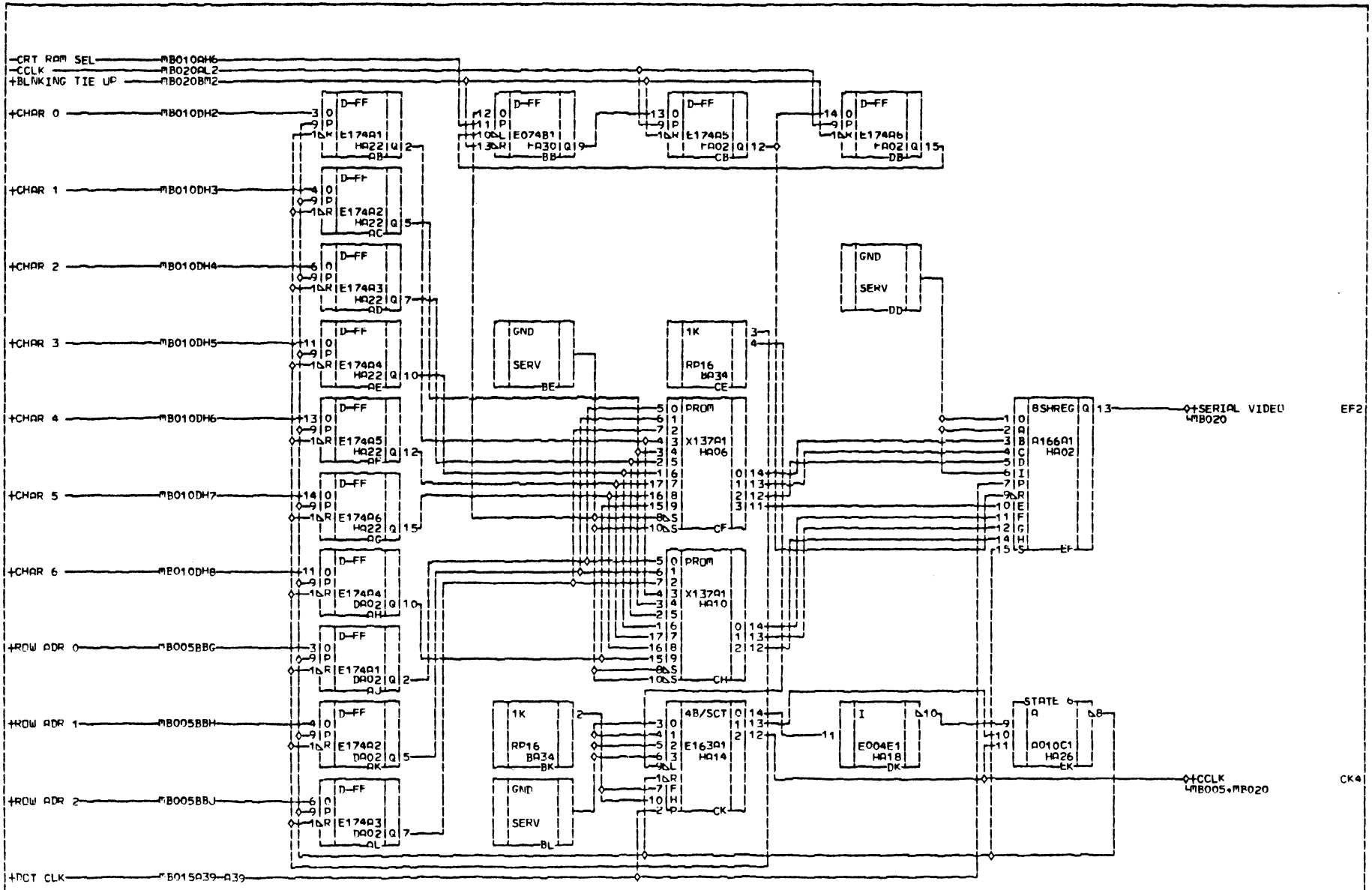

GND
SERV
CRTC
N845A1
DA06
+B ADR BUS 0
+CCLK
+B DATA BUS 0
+B DATA BUS 1
+B DATA BUS 2
+B DATA BUS 3
+B DATA BUS 4
+B DATA BUS 5
+B DATA BUS 6
+B DATA BUS 7
1K
RP16
BA34
+RFSH ADR 7
+RFSH ADR 5
+RFSH ADR 3
+RFSH ADR 1
+RFSH ADR 0
+RFSH ADR 2
+RFSH ADR 4
+RFSH ADR 6
+RFSH ADR 8
+RFSH ADR 9
+ROW ADR 3
+ROW ADR 0
+ROW ADR 2
+ROW ADR 1
+CURSOR
+DISPEN
+VSYNC
+HSYNC
-B RD
+BUF Z80 CLK
-I/O SEL 2
-I/O SEL 3
+B RD
-B WR
+WAIT 2
+INTERUPT 2
+KEYBD 6
+KEYBD 5
+KEYBD 3
+KEYBD 0
+KEYBD 2
+KEYBD 4
+KEYBD 7
+KEYBD 1
+STROBE
+ASCII BIT 1
+ASCII BIT 2
+ASCII BIT 3
+ASCII BIT 4
+ASCII BIT 5
+ASCII BIT 6
+ASCII BIT 7
8BIT-P
P212A1
DA30
.01UF
C28
CAP
DD29
PIN
DG29
1K
RP16
BA34
CRT CONTROLLER AND KEYBOARD DATA REGISTER
PAGE 4000225039
E.C. 46095
SYSTEM PAGE
FLYER EC 34559
WIRING METHOD: WW
PRES. E.C. EC46095
PREV. E.C. EC46044
DATE 01/06/81
MACHINE: 3910
PG. P.N. 4000343030

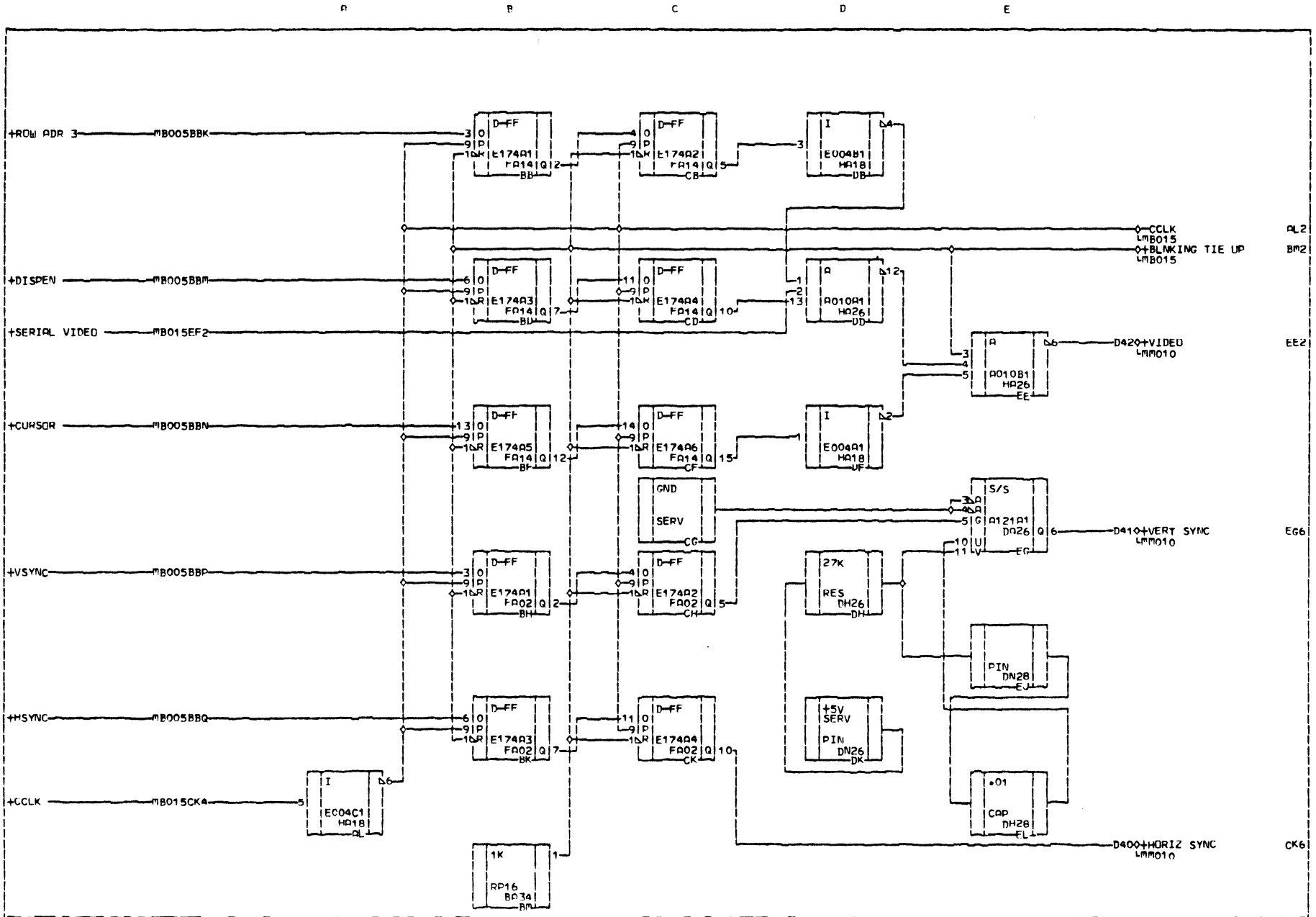


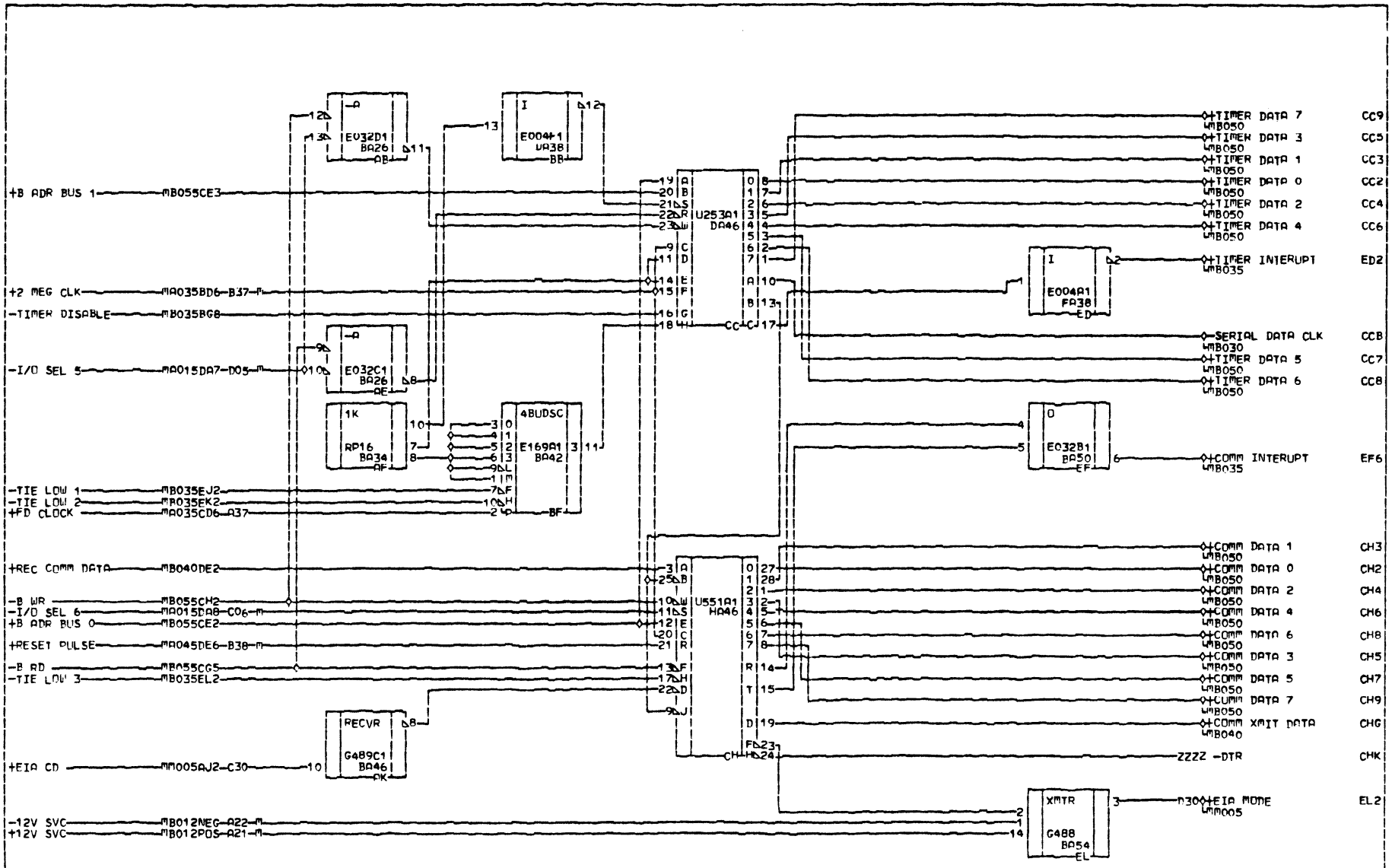
CRT REFRESH MEMORY

- AM PAGE REFS -	— SYSTEM PAGE —	PRES. E.C. 46081	MACHINE: 3910
PAGE 4000226029	FLYER EC 34559	PREV. E.C. 46001	CD. LOC. A03**
E.C. 46081	WIRING METHOD: WW	DATE 7/17/80	PG. P.N. 4000344020

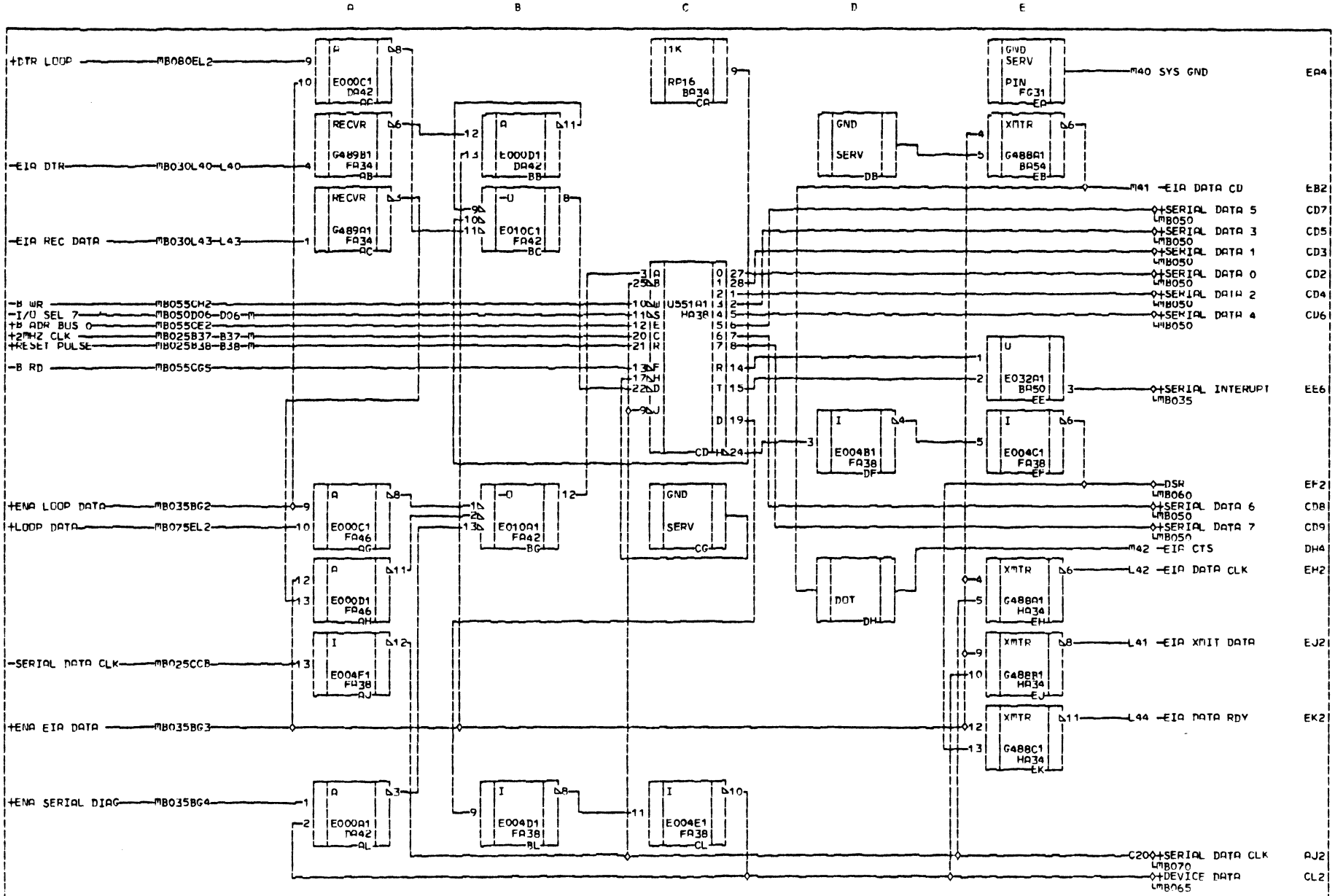
HMB1 04/14/81


-CRT RAM SEL
-CCLK
+BLNKING TIE UP
+CHAR 0
+CHAR 1
+CHAR 2
+CHAR 3
+CHAR 4
+CHAR 5
+CHAR 6
+ROW ADR 0
+ROW ADR 1
+ROW ADR 2
+DOT CLK
+SERIAL VIDEO
+CCLK
VIDEO CHARACTER GENERATION
SYSTEM PAGE
PAGE 4000227027
E.C. 46081
FLYER EC 34559
WIRING METHOD: WW
DATE 7/17/80
PRES. E.C. 46081
PREV. E.C. 46001
MACHINE: 3910
PG. P.N. 4000345027

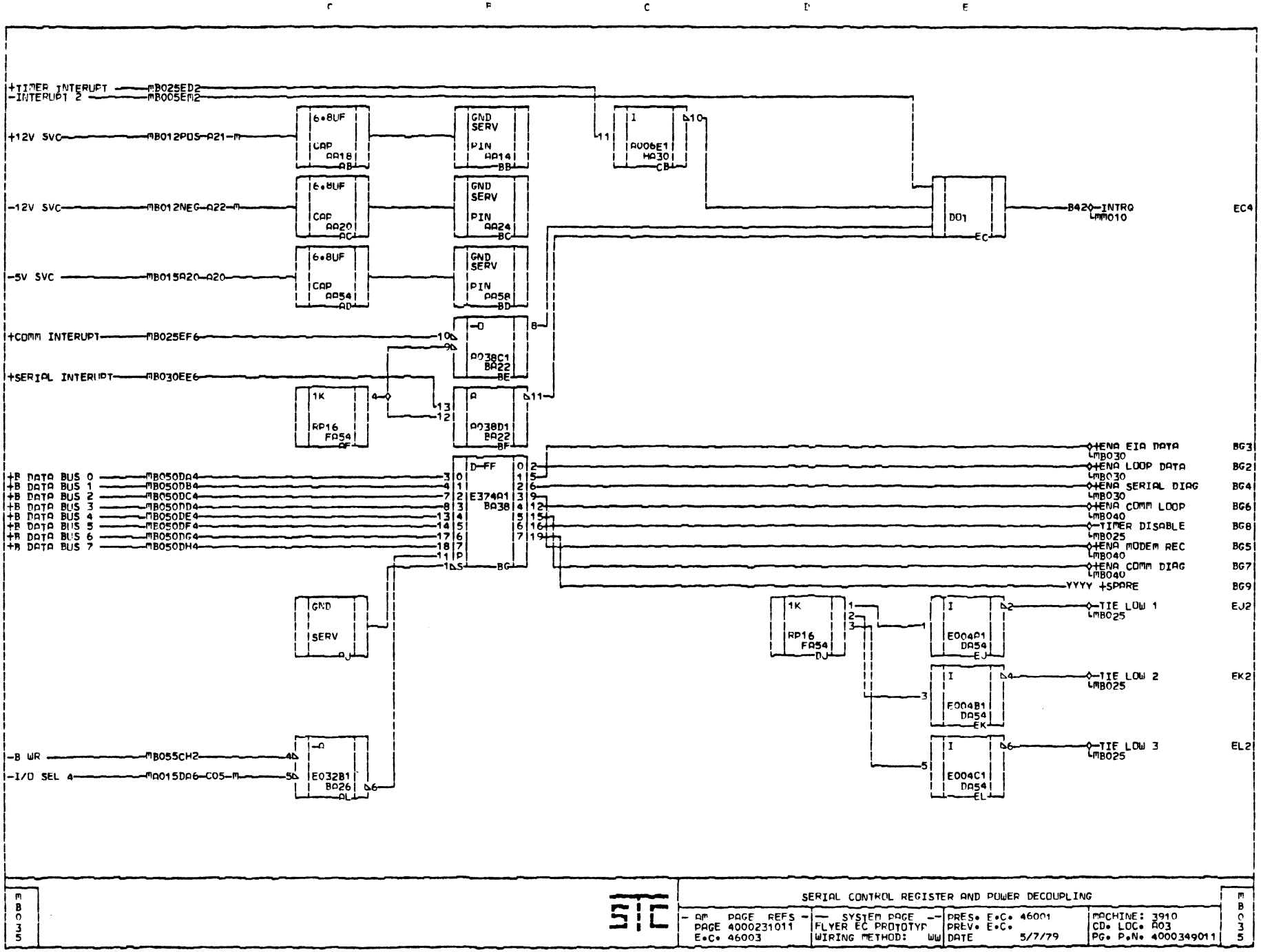

+ROW ADR 3
MB005BBK
+DISPEN
MB005BBM
+SERIAL VIDEO
MB015EF2
+CURSOR
MB005BBN
+VSYNC
MB005BBP
+HSYNC
MB005BBQ
+CCLK
MB015CK4
D-FF
E174A1
FA14
BB
E174A2
CB
E004B1
HA18
DB
CCLK
MB015
+BLANKING TIE UP
MB015
E174A3
BJ
E174A4
CD
A010A1
HA26
DD
D420+VIDEO
MM010
A010B1
EE
E174A5
BF
E174A6
CF
E004A1
UF
GND
SERV
CG
S/S
A121A1
DA26
D410+VERT SYNC
MM010
EG
E174A1
FA02
BH
E174A2
CH
27K
RES
DH26
DH
PIN
DN28
EJ
E174A3
BK
E174A4
CK
+5V
SERV
PIN
DN26
DK
.01
CAP
DH28
EL
E004C1
HA18
AL
1K
RP16
BA34
BM
D400+HORIZ SYNC
MM010
VIDEO DELAY
AM PAGE REFS
PAGE 4000228025
E.C. 46081
SYSTEM PAGE
FLYER EC 34559
WIRING METHOD: WW
PRES. E.C. 46081
PREV. E.C. 46001
DATE 7/17/80
MACHINE: 3910
CD. LOC. A03**
PG. P.N. 4000346025
MB020



M B 0 2 5	COMM USART AND TIMERS				M B 0 2 5
	- AM PAGE REFS - PAGE 4000229015 E.C. 46003	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A03 PG. P.N. 4000347015	

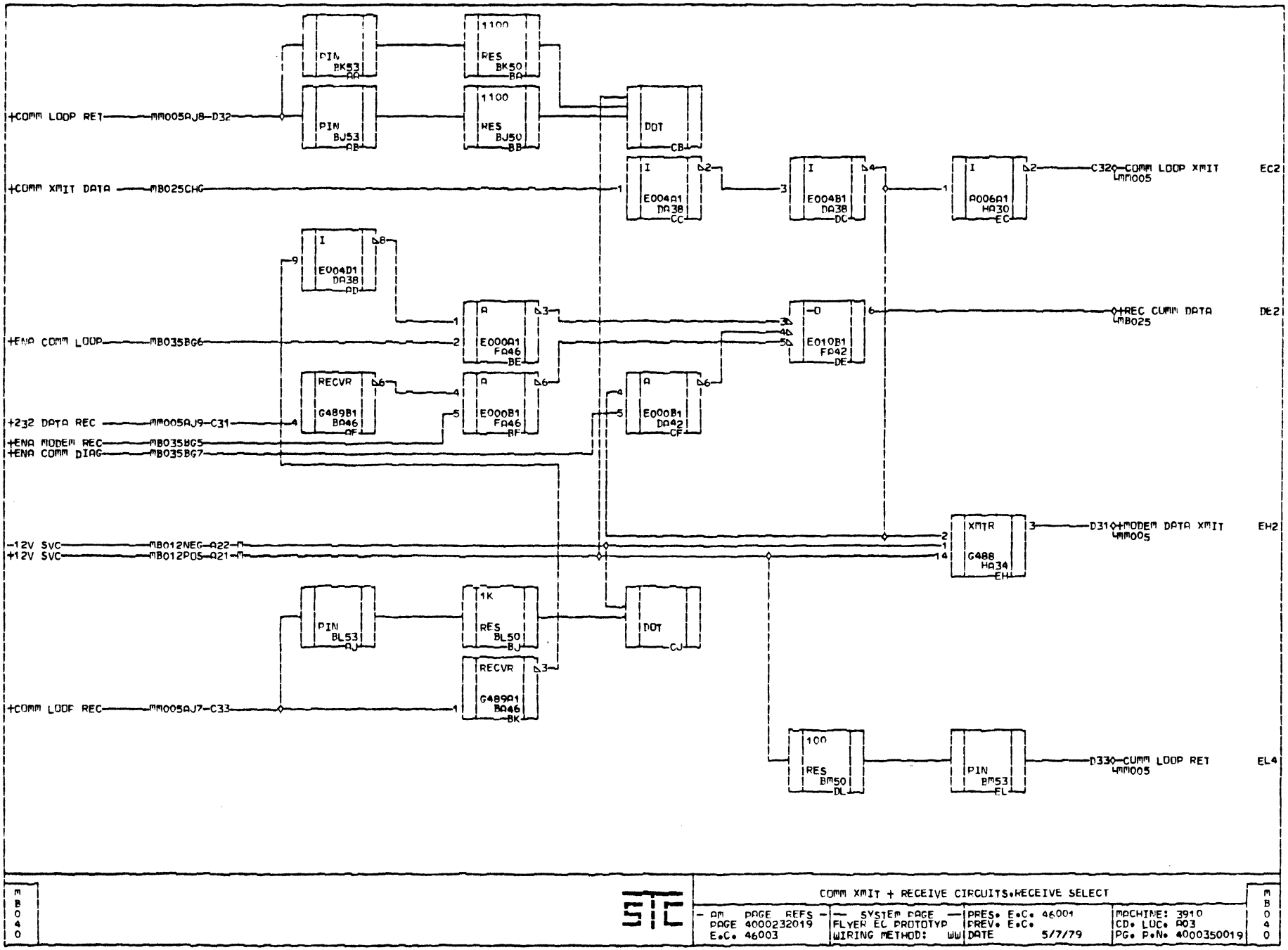


MB030	STC	SERIAL DEVICE INTERFACE USART			MB030
	- AM PAGE REFS - PAGE 4000230021 E.C. 46081	— SYSTEM PAGE — FLYER EC 34559 WIRING METHOD: ww	PRES. E.C. 46081 PREV. E.C. 46001 DATE 7/17/80	MACHINE: 3910 CD. LOC. A03** PG. P.NO. 4000348021	



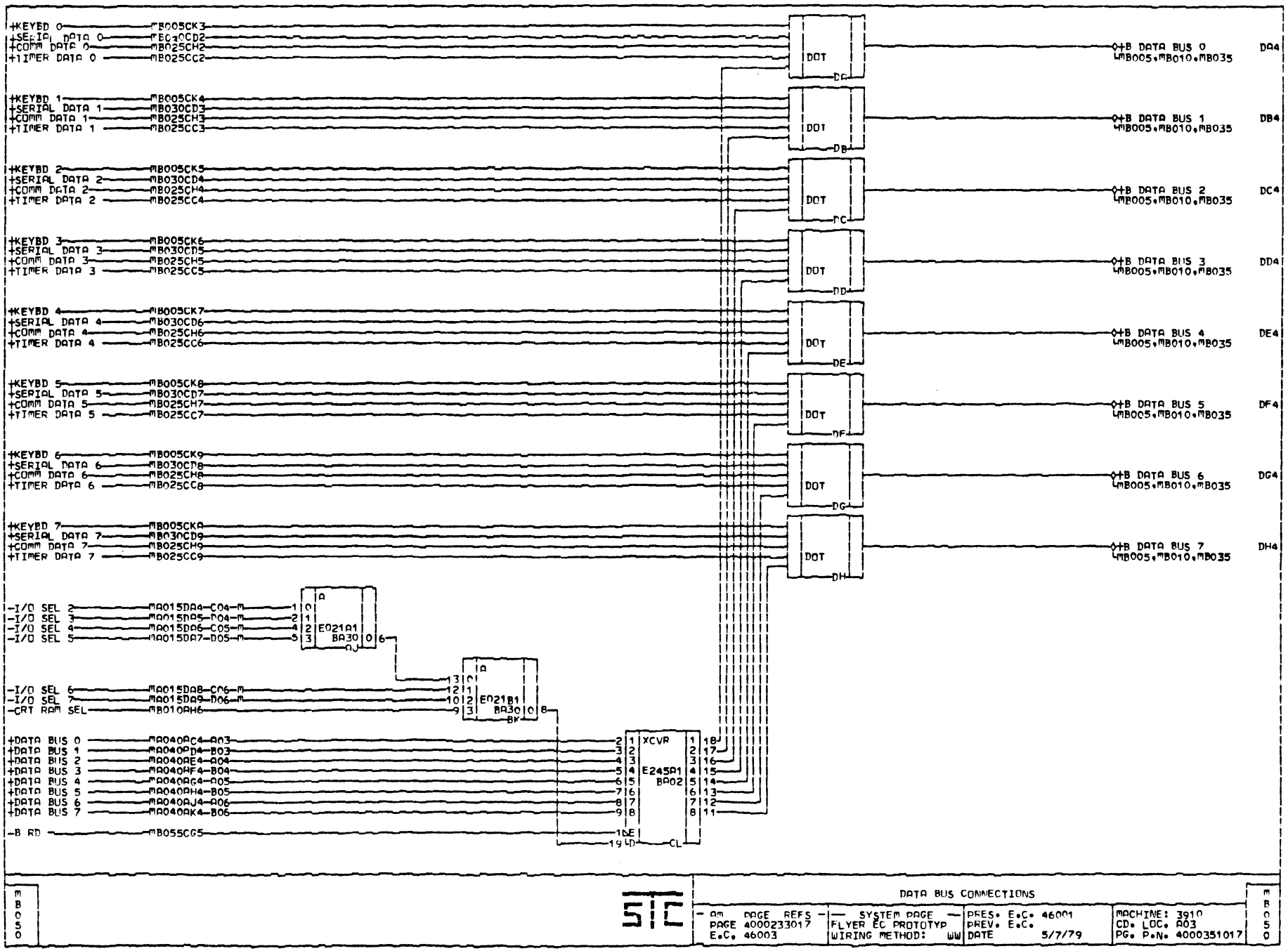
m B 0 3 5	SERIAL CONTROL REGISTER AND POWER DECOUPLING			m B 0 3 5
- AM PAGE REFS - PAGE 4000231011 E.C. 46003	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A03 PG. P.N. 4000349011	

HM81 05/11/79



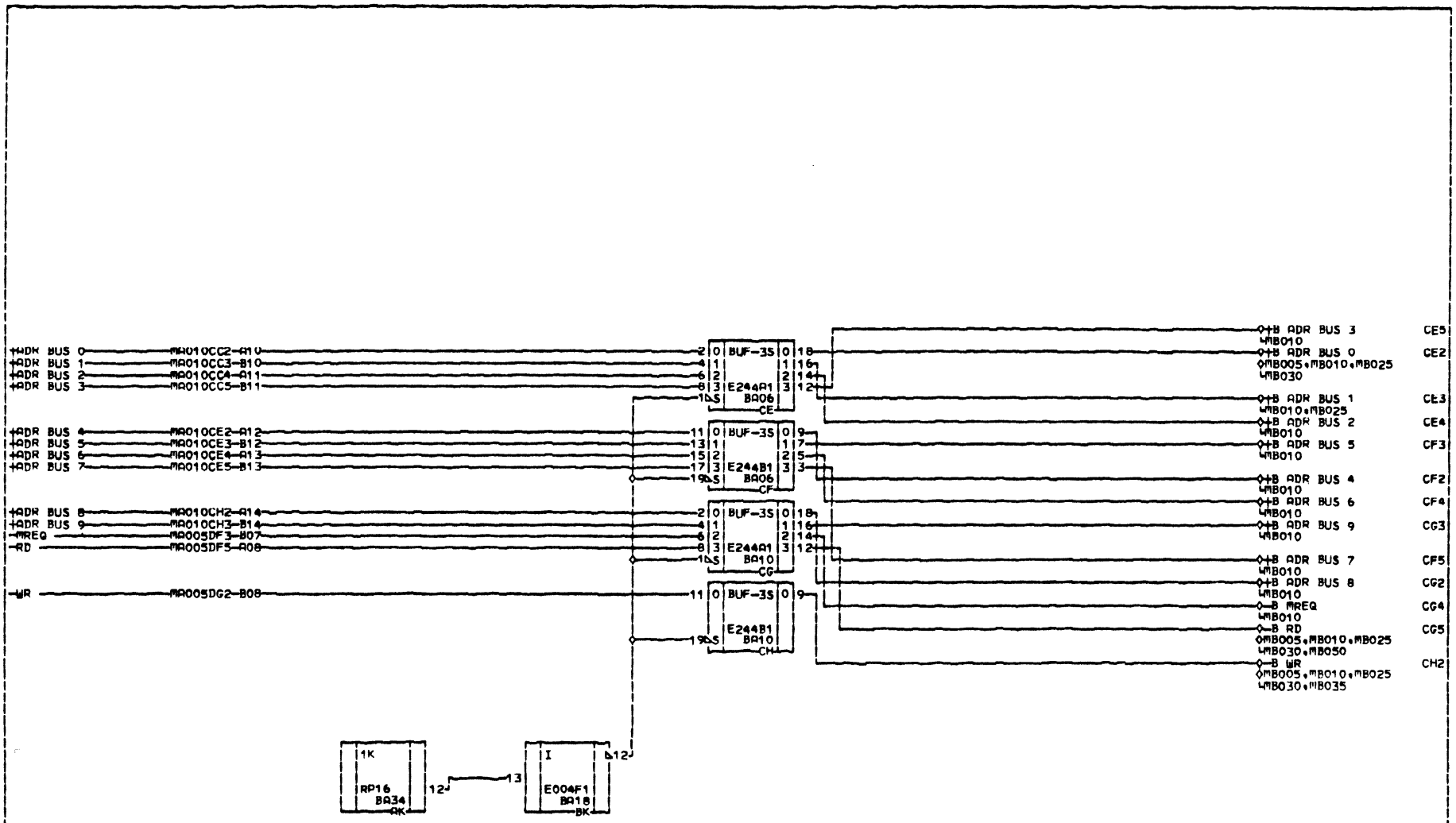
M B 0 4 0	STC	COMM XMIT + RECEIVE CIRCUITS.RECEIVE SELECT			M B 0 4 0
		- AM PAGE REFS - PAGE 4000232019 E.C. 46003	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A03 PG. P.NO. 4000350019

HMB1 05/11/79

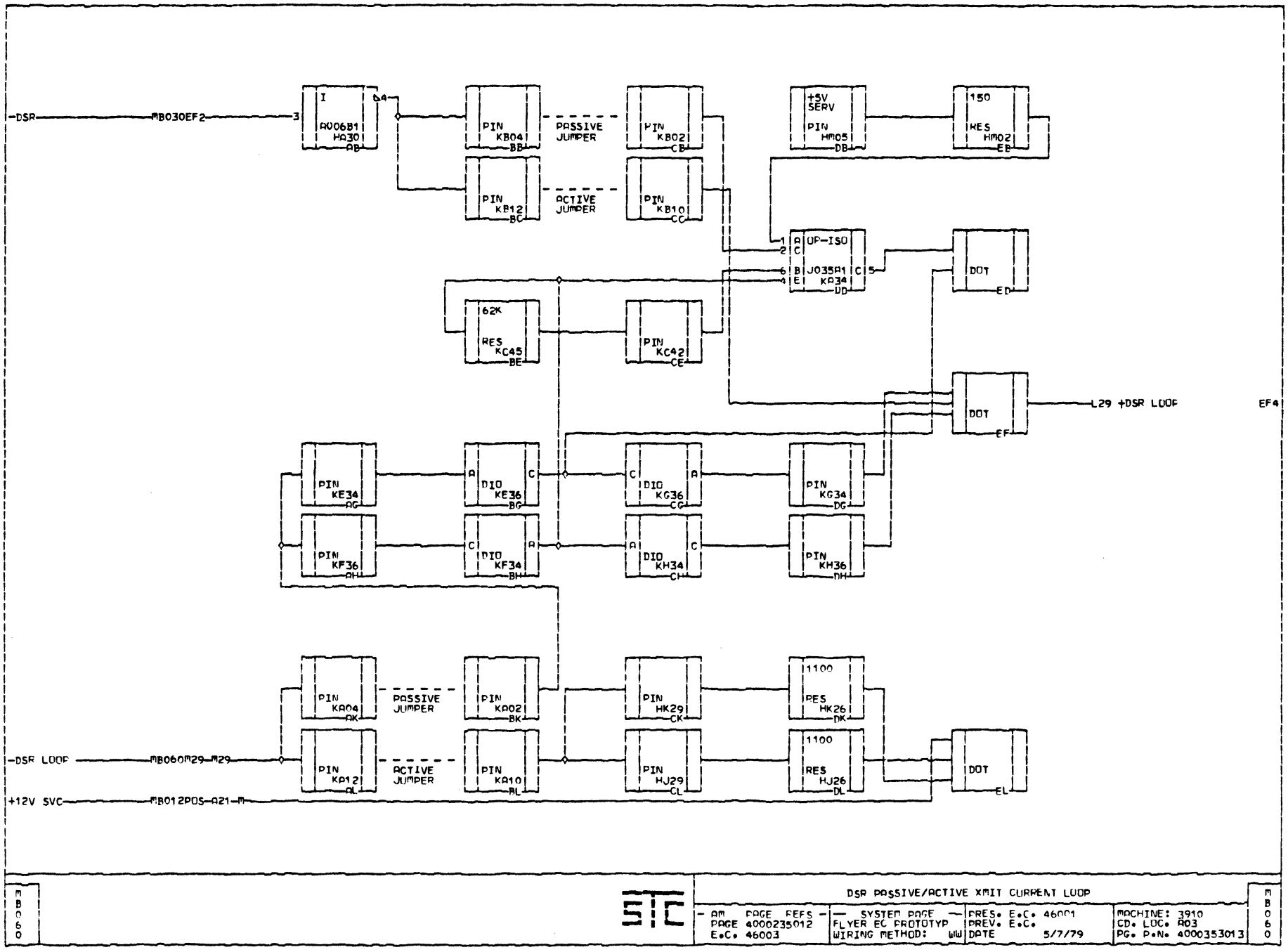


DATA BUS CONNECTIONS

— am PAGE REFS — PAGE 4000233017 E.C. 46003	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A03 PG. P.N. 4000351017



	ADDRESS AND CONTROL BUFFERING				
- AM PAGE REFS -	— SYSTEM PAGE —	PRES• E•C• 46044	MACHINE: 3910		
PAGE 4000234023	FLYER EC PROTOTYP	PREV• E•C• 46001	CD• LOC• A03		
E•C• 46034	WIRING METHOD: WW	DATE 7/11/79	PG• P•N• 4000352023		

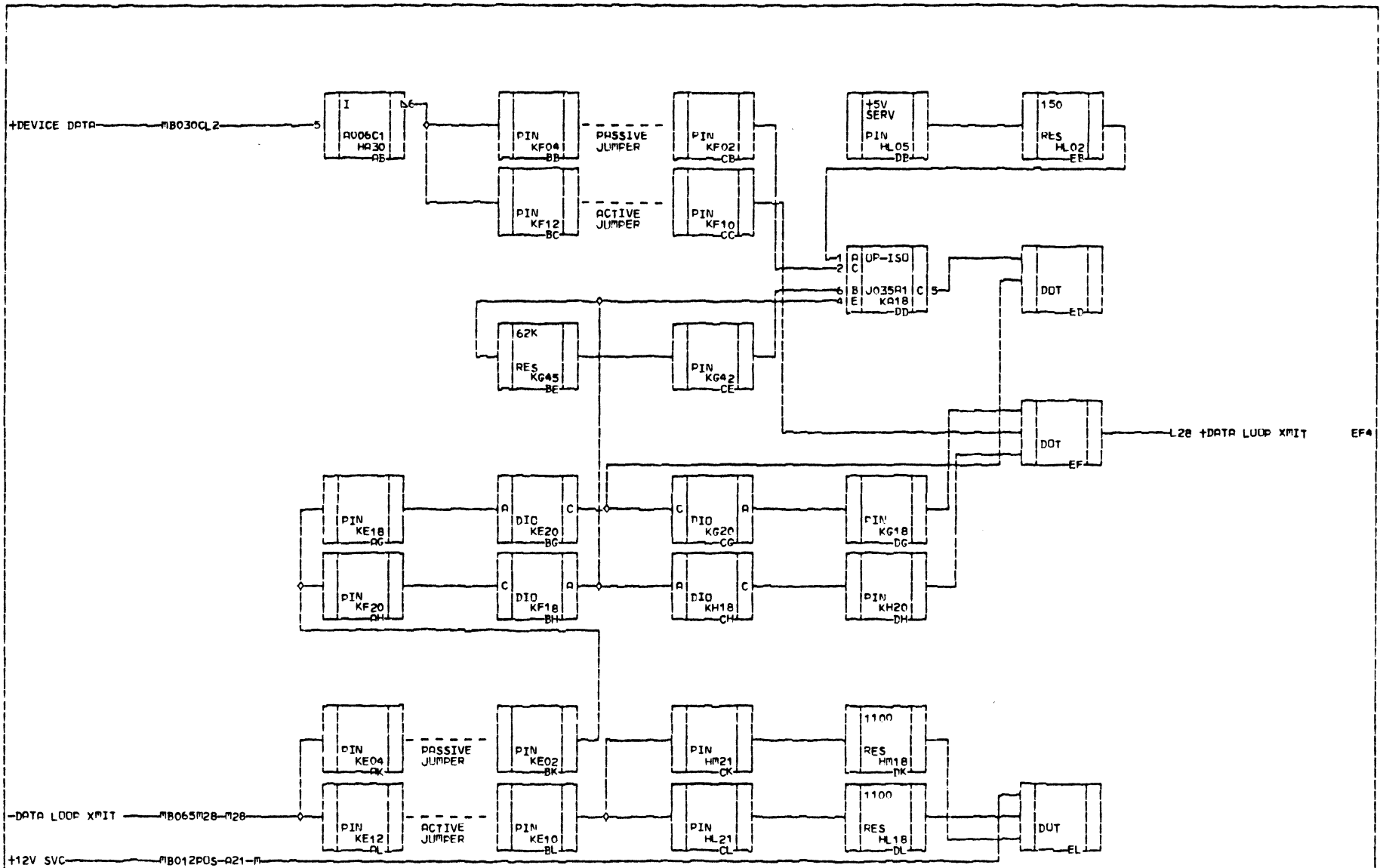


DSR PASSIVE/ACTIVE XMIT CURRENT LOOP

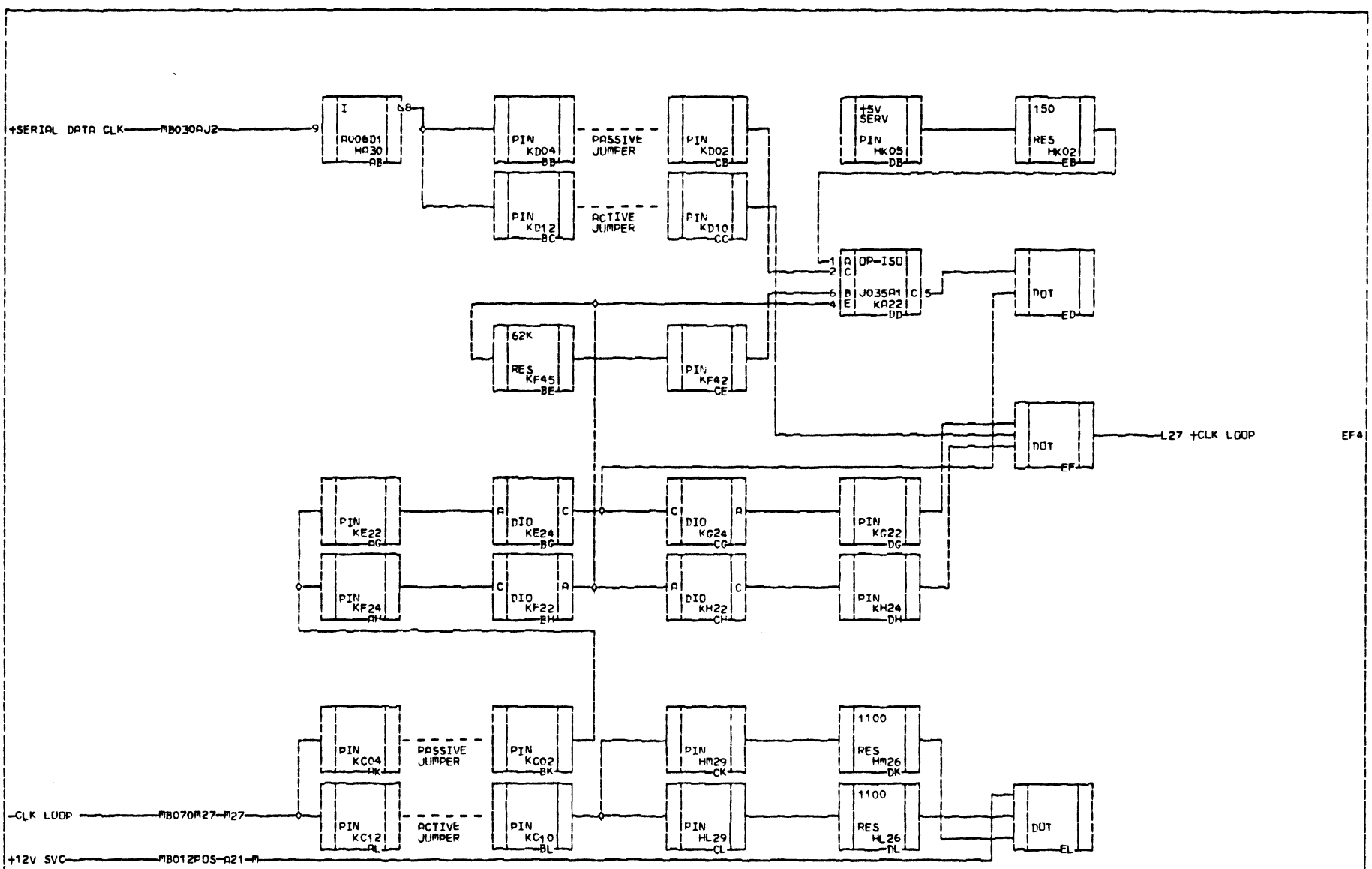
— AM PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46001	MACHINE: 3910
PAGE 4000235012	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. A03
E.C. 46003	WIRING METHOD: WW	DATE 5/7/79	PG. P.N. 4000353013

MB060

HM81 05/11/79

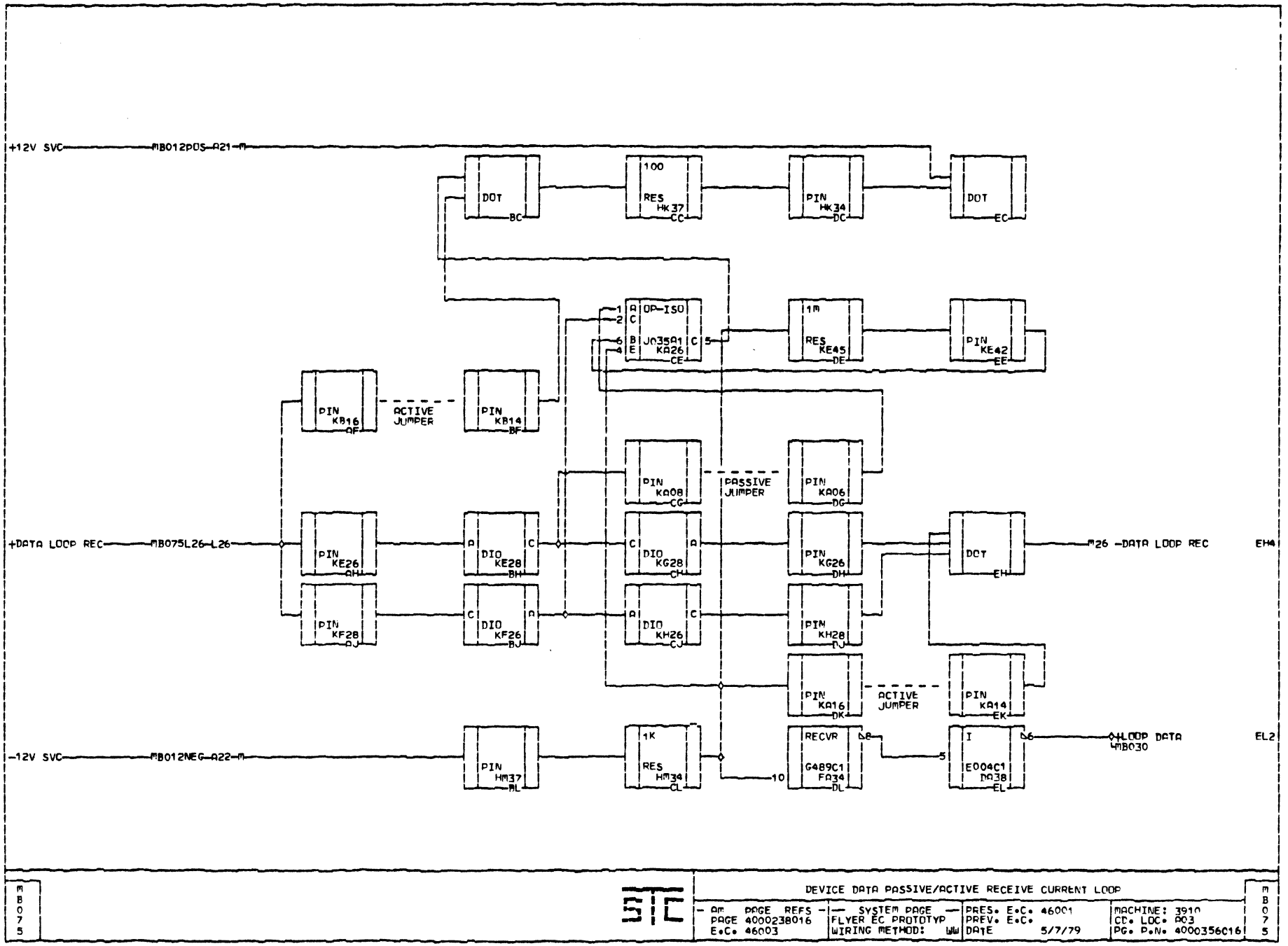


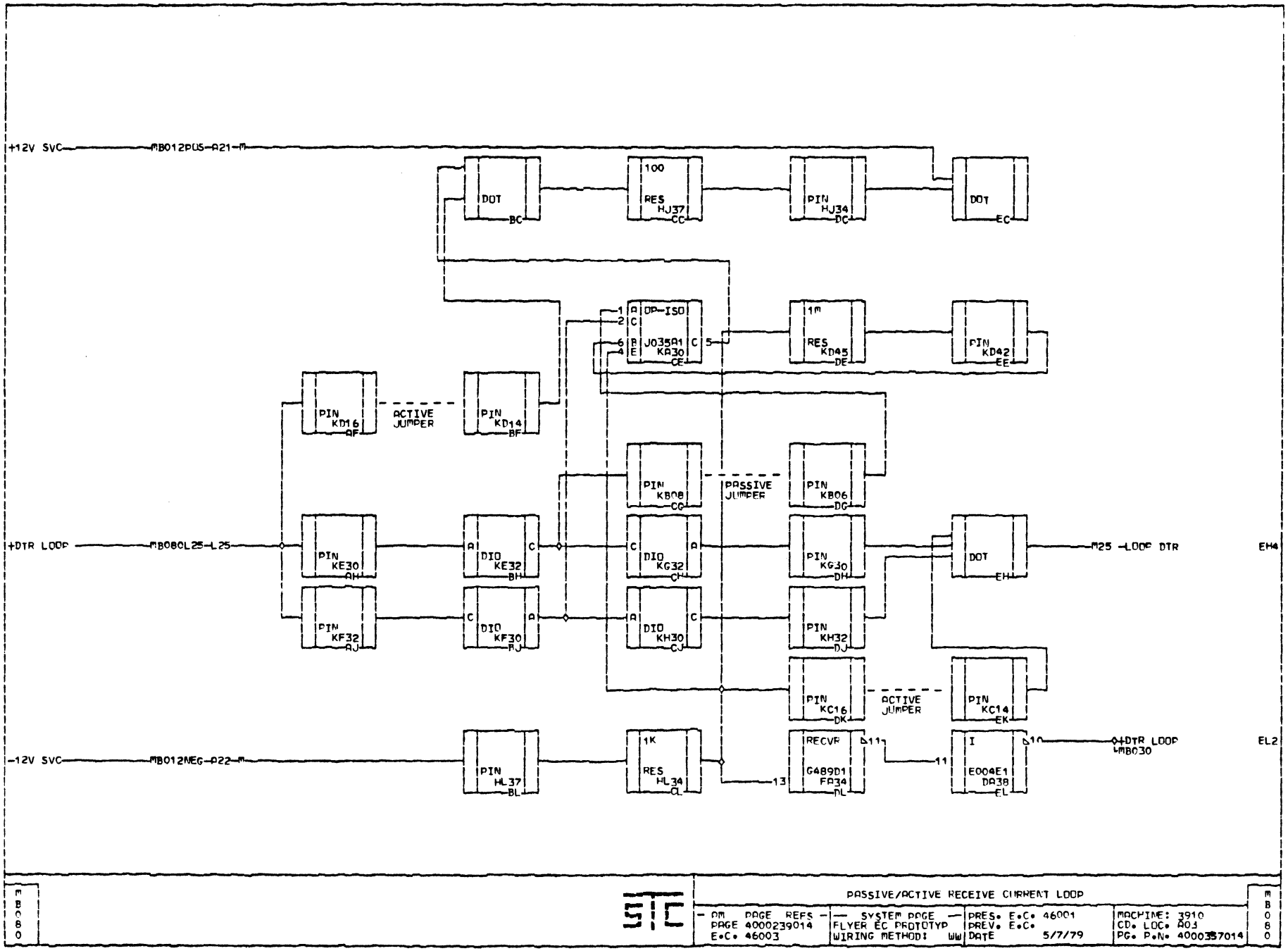
MB065	STC	DEVICE DATA PASSIVE/ACTIVE XMIT CURRENT LOOP			MB065
		- AM PAGE REFS - PAGE 4000236010 E.C. 46003	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A03 PG. P.N. 4000354011



MB070	STC	DATA CLK PASSIVE/ACTIVE XMIT CURRENT LOOP			MBC70
		– AM PAGE REFS – PAGE 4000237018 E.C. 46003	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46001 PREV. E.C. DATE 5/7/79	MACHINE: 3910 CD. LOC. A03 PG. P.NO. 4000355018	

HMB1 05/11/79


+12V SVC
MB012POS-A21-M
DOT
BC
100
RES
HK37
CC
PIN
HK34
DC
DOT
EC
OP-ISO
JA35A1
KA26
CE
1M
RES
KE45
DE
PIN
KE42
EE
PIN
KB16
AF
ACTIVE
JUMPER
PIN
KB14
BF
PIN
KA08
CG
PASSIVE
JUMPER
PIN
KA06
DG
+DATA LOOP REC
MB075L26-L26
PIN
KE26
AH
DIO
KE28
BH
DIO
KG28
CH
PIN
KG26
DH
DOT
EH
M26 -DATA LOOP REC
EH4
PIN
KF28
AJ
DIO
KF26
BJ
DIO
KH26
CJ
PIN
KH28
DJ
PIN
KA16
DK
ACTIVE
JUMPER
PIN
KA14
EK
-12V SVC
MB012NEG-A22-M
PIN
HM37
AL
1K
RES
HM34
CL
RECVR
G489C1
FA34
DL
I
E004C1
DA38
EL
LOOP DATA
MB030
EL2
DEVICE DATA PASSIVE/ACTIVE RECEIVE CURRENT LOOP
AM PAGE REFS
PAGE 4000238016
E.C. 46003
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. 46001
PREV. E.C.
DATE 5/7/79
MACHINE: 3910
CD. LOC. A03
PG. P.N. 4000356016
MB075



PASSIVE/ACTIVE RECEIVE CURRENT LOOP

— DM PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46001	MACHINE: 3910
PAGE 4000239014	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. A03
E.C. 46003	WIRING METHOD: WW	DATE 5/7/79	PG. P.N. 4000357014

MB080

HMB1 05/11/79

ST[illegible]ECHNOLOGY CORP.

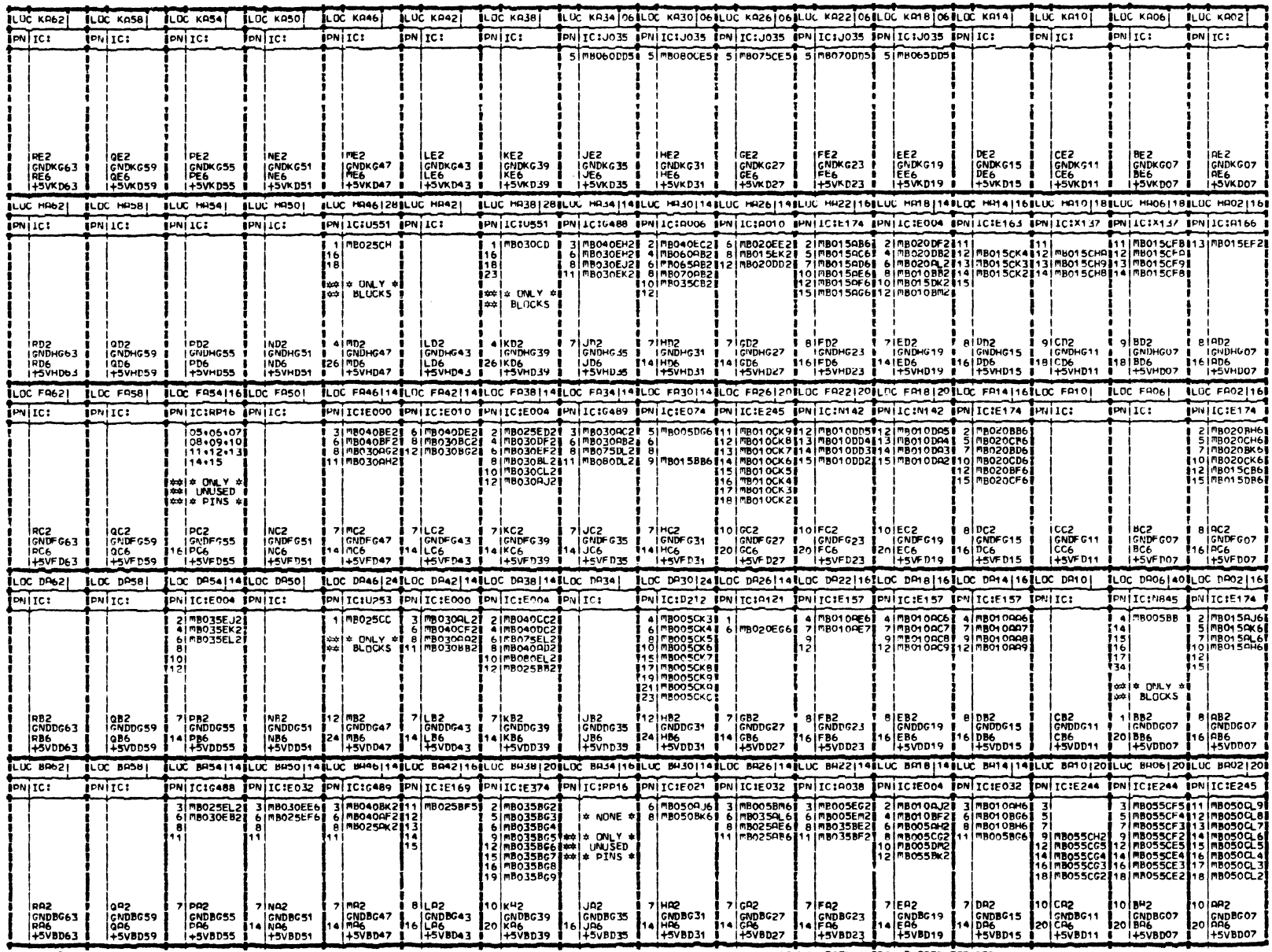
ASSEMBLY PARTS LIST

BUILD ARC DOC

PRINT DATE	PAGE	E.C. NO
12-15-81	1	46110

D.V	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	401302804	0	E	N	SYS LGC GP,MB,400011205,PC	N	REL	10-20-81	3910	10-27-81

T	FIND NO.	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	000	01	400024004	6		REF	PC	CD LGC,AM215,MB,PC	D						
	005	01	401301303	4		REF	PC	SYS LGC,MB005,PC	D						
	010	01	401301402	4		REF	PC	SYS LGC,MB010,PC	D						
	015	01	401301502	1		REF	PC	SYS LGC,MB015,PC	D						
	020	01	401301602	9		REF	PC	SYS LGC,MB020,PC	D		46110			9143	
	025	01	401301701	9		REF	PC	SYS LGC,MB 025,PC	D						
	030	01	401301802	5		REF	PC	SYS LGC,MB030,PC	D		46110			9143	
	035	01	401301901	5		REF	PC	SYS LGC,MB035,PC	D						
	040	01	401302001	3		REF	PC	SYS LGC,MB 040,PC	D						
	050	01	401302101	1		REF	PC	SYS LGC,MB 050,PC	D						
	055	01	401302201	9		REF	PC	SYS LGC,MB055,PC	D						
	060	01	401302301	7		REF	PC	SYS LGC,MB 060,PC	D						
	065	01	401302401	5		REF	PC	SYS LGC,MB065,PC	D						
	070	01	401302501	2		REF	PC	SYS LGC,MB 070,PC	D						
	075	01	401302601	0		REF	PC	SYS LGC,MB 075,PC	D						
	080	01	401302701	8		REF	PC	SYS LGC,MB 080,PC	D						
	500	01	400011205	4		REF	PC	CKT CD,MB,PC ASSEMBLY	S		46110			9147	
								0017 TOTAL LINES							



LOC KA62	LOC KA58	LOC KA54	LOC KA50	LOC KA46	LOC KA42	LOC KA38	LOC KA34 |06	LOC KA30 |06	LOC KA26 |06	LOC KA22 |06	LOC KA18 |06	LOC KA14	LOC KA10	LOC KA06	LOC KA02
PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:	PN IC:J035	PN IC:J035	PN IC:J035	PN IC:J035	PN IC:J035	PN IC:	PN IC:	PN IC:	PN IC:
							5 MB060DD5	5 MB080CE5	5 MB075CE5	5 MB070DD5	5 MB065DD5				
RE2	QE2	PE2	NE2	ME2	LE2	KE2	JE2	HE2	GE2	FE2	EE2	DE2	CE2	BE2	AE2
GNDKG63	GNDKG59	GNDKG55	GNDKG51	GNDKG47	GNDKG43	GNDKG39	GNDKG35	GNDKG31	GNDKG27	GNDKG23	GNDKG19	GNDKG15	GNDKG11	GNDKG07	GNDKG07
RE6	QE6	PE6	NE6	ME6	LE6	KE6	JE6	HE6	GE6	FE6	EE6	DE6	CE6	BE6	AE6
+5VKD63	+5VKD59	+5VKD55	+5VKD51	+5VKD47	+5VKD43	+5VKD39	+5VKD35	+5VKD31	+5VKD27	+5VKD23	+5VKD19	+5VKD15	+5VKD11	+5VKD07	+5VKD07

LOC MA62 |	LOC MA58 |	LOC MA54 |	LOC MA50 |	LOC MA46 |28	LOC MA42 |	LOC MA38 |28	LOC MA34 |14	LOC MA30 |14	LOC MA26 |14	LOC MA22 |16	LOC MA18 |14	LOC MA14 |16	LOC MA10 |18	LOC MA06 |18	LOC MA02 |16
PN IC:	PN IC:	PN IC:	PN IC:	PN IC:U551	PN IC:	PN IC:U551	PN IC:G488	PN IC:A006	PN IC:A010	PN IC:E174	PN IC:E004	PN IC:E163	PN IC:X137	PN IC:X137	PN IC:A166
				1 MB025CH		1 MB030CD	3 MB040EH2	2 MB040EC2	6 MB020EE2	2 MB015AB6	2 MB020DF2	11	11	11 MB015CF8	13 MB015EF2
				16		16	6 MB030EH2	4 MB060AB2	8 MB015EK2	5 MB015AC6	4 MB020DB2	12 MB015CH8	12 MB015CF5	12 MB015CF8	
				18		18	8 MB030EJ2	6 MB065AB2	12 MB020DD2	7 MB015AD6	6 MB020AL2	13 MB015CK3	13 MB015CH9	13 MB015CF9	
						23	11 MB030EK2	8 MB070AB2		10 MB015AE6	8 MB010BB2	14 MB015CK2	14 MB015CH8	14 MB015CF8	
				** * ONLY *		** * ONLY *		10 MB035CB2		12 MB015AF6	10 MB015DK2	15			
				** BLOCKS		** BLOCKS		12		15 MB015AG6	12 MB010BM2				
RD2	QD2	PD2	ND2	4 MD2	LD2	4 KD2	7 JD2	7 HD2	7 GD2	8 FD2	7 ED2	8 DD2	9 CD2	9 BD2	8 AD2
GNDHG63	GNDHG59	GNDHG55	GNDHG51	GNDHG47	GNDHG43	GNDHG39	GNDHG35	GNDHG31	GNDHG27	GNDHG23	GNDHG19	GNDHG15	GNDHG11	GNDHG07	GNDHG07
RD6	QD6	PD6	ND6	26 MD6	LD6	26 KD6	JD6	14 HD6	GD6	16 FD6	14 ED6	16 DD6	18 CD6	18 BD6	16 AD6
+5VHD63	+5VHD59	+5VHD55	+5VHD51	+5VHD47	+5VHD43	+5VHD39	+5VHD35	+5VHD31	+5VHD27	+5VHD23	+5VHD19	+5VHD15	+5VHD11	+5VHD07	+5VHD07

LOC FA62 |	LOC FA58 |	LOC FA54 |16	LOC FA50 |	LOC FA46 |14	LOC FA42 |14	LOC FA38 |14	LOC FA34 |14	LOC FA30 |14	LOC FA26 |20	LOC FA22 |20	LOC FA18 |20	LOC FA14 |16	LOC FA10 |	LOC FA06 |	LOC FA02 |16
PN IC:	PN IC:	PN IC:RP16	PN IC:	PN IC:E000	PN IC:E010	PN IC:E004	PN IC:G489	PN IC:E074	PN IC:E245	PN IC:N142	PN IC:N142	PN IC:E174	PN IC:	PN IC:	PN IC:E174
		05 06 07		3 MB040BE2	6 MB040DE2	2 MB025ED2	3 MB030AC2	5 MB005DG6	11 MB01OCK9	12 MB01ODD5	12 MB01ODA5	2 MB020BB6			2 MB020RH6
		08 09 10		6 MB040BF2	8 MB030BC2	4 MB030DF2	6 MB030AB2	6	12 MB01OCK8	13 MB01ODD4	13 MB01ODA4	5 MB020CR6			5 MB020CH6
		11 12 13		8 MB030AG2	12 MB030BG2	6 MB030EF2	8 MB075DL2	8	13 MB01OCK7	14 MB01ODD3	14 MB01ODA3	7 MB020BD6			7 MB020BK6
		14 15		11 MB030AH2		8 MB030BL2	11 MB080DL2	9 MB015BB6	14 MB01OCK6	15 MB01ODD2	15 MB01ODA2	10 MB020CD6			10 MB020CK6
						10 MB030CL2			15 MB01OCK5			12 MB020BF6			12 MB015CB6
		** * ONLY *				12 MB030AJ2			16 MB01OCK4			15 MB020CF6			15 MB015DB6
		** UNUSED							17 MB01OCK3						
		** * PINS *							18 MB01OCK2						
RC2	QC2	PC2	NC2	7 MC2	7 LC2	7 KC2	7 JC2	7 HC2	10 GC2	10 FC2	10 EC2	8 DC2	CC2	BC2	8 AC2
GNDFG63	GNDFG59	GNDFG55	GNDFG51	GNDFG47	GNDFG43	GNDFG39	GNDFG35	GNDFG31	GNDFG27	GNDFG23	GNDFG19	GNDFG15	GNDFG11	GNDFG07	GNDFG07
RC6	QC6	16 PC6	NC6	14 MC6	14 LC6	14 KC6	14 JC6	14 HC6	20 GC6	20 FC6	20 EC6	16 DC6	CC6	BC6	16 AC6
+5VFD63	+5VFD59	+5VFD55	+5VFD51	+5VFD47	+5VFD43	+5VFD39	+5VFD35	+5VFD31	+5VFD27	+5VFD23	+5VFD19	+5VFD15	+5VFD11	+5VFD07	+5VFD07

LOC DA62 |	LOC DA58 |	LOC DA54 |14	LOC DA50 |	LOC DA46 |24	LOC DA42 |14	LOC DA38 |14	LOC DA34 |	LOC DA30 |24	LOC DA26 |14	LOC DA22 |16	LOC DA18 |16	LOC DA14 |16	LOC DA10 |	LOC DA06 |40	LOC DA02 |16
PN IC:	PN IC:	PN IC:E004	PN IC:	PN IC:U253	PN IC:E000	PN IC:E004	PN IC:	PN IC:D212	PN IC:A121	PN IC:E157	PN IC:E157	PN IC:E157	PN IC:	PN IC:N845	PN IC:E174
		2 MB035EJ2		1 MB025CC	3 MB030AL2	2 MB040CC2		4 MB005CK3	1	4 MB010AE6	4 MB010AC6	4 MB010AA6		4 MB005BB	2 MB015AJ6
		4 MB035EK2			6 MB040CF2	4 MB040DC2		6 MB005CK4	6 MB020EG6	7 MB010AE7	7 MB010AC7	7 MB010AA7			5 MB015AK6
		6 MB035EL2		** * ONLY *	8 MB030AA2	6 MB075EL2		8 MB005CK5		9	9 MB010AC8	9 MB010AA8			7 MB015AL6
		8		** BLOCKS	11 MB030BB2	8 MB040AD2		10 MB005CK6		12	12 MB010AC9	12 MB010AA9			10 MB015AH6
		10				10 MB080EL2		15 MB005CK7							12
		12				12 MB025BB2		17 MB005CK8							15
								19 MB005CK9							
								21 MB005CK0						** * ONLY *	
								23 MB005CKC						** BLOCKS	
RB2	QB2	7 PB2	NB2	12 MB2	7 LB2	7 KB2	JB2	12 HB2	7 GB2	8 FB2	8 EB2	8 DB2	CB2	1 BB2	8 AB2
GNDDG63	GNDDG59	GNDDG55	GNDDG51	GNDDG47	GNDDG43	GNDDG39	GNDDG35	GNDDG31	GNDDG27	GNDDG23	GNDDG19	GNDDG15	GNDDG11	GNDDG07	GNDDG07
RB6	QB6	14 PB6	NB6	24 MB6	14 LB6	14 KB6	JB6	24 HB6	GB6	16 FB6	16 EB6	16 DB6	CB6	20 BB6	16 AB6
+5VDD63	+5VDD59	+5VDD55	+5VDD51	+5VDD47	+5VDD43	+5VDD39	+5VDD35	+5VDD31	+5VDD27	+5VDD23	+5VDD19	+5VDD15	+5VDD11	+5VDD07	+5VDD07

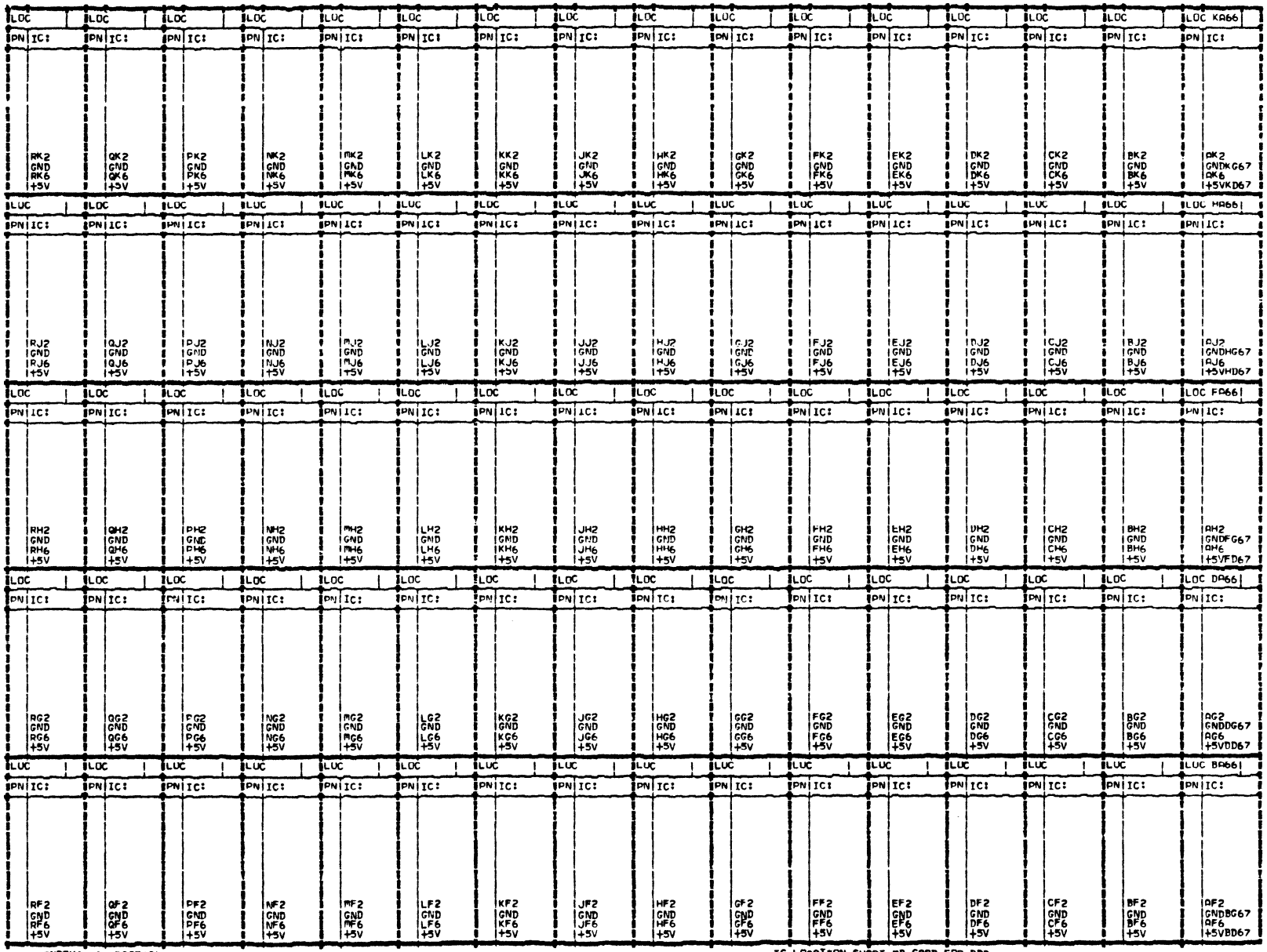
LOC BA62 |	LOC BA58 |	LOC BA54 |14	LOC BA50 |14	LOC BA46 |14	LOC BA42 |16	LOC BA38 |20	LOC BA34 |16	LOC BA30 |14	LOC BA26 |14	LOC BA22 |14	LOC BA18 |14	LOC BA14 |14	LOC BA10 |20	LOC BA06 |20	LOC BA02 |20
PN IC:	PN IC:	PN IC:G488	PN IC:E032	PN IC:G489	PN IC:E169	PN IC:E374	PN IC:RP16	PN IC:E021	PN IC:E032	PN IC:A038	PN IC:E004	PN IC:E032	PN IC:E244	PN IC:E244	PN IC:E245
		3 MB025EL2	3 MB030EE6	3 MB040BK2	11 MB025BF5	2 MB035BG2		6 MB050AJ6	3 MB005BM6	3 MB005EG2	2 MB010AJ2	3 MB010AM6	3	3 MB055CF5	11 MB050CL9
		6 MB030EB2	6 MB025EF6	6 MB040AF2	12	5 MB035BG3		8 MB050AK6	6 MB035AL6	4 MB005EM2	4 MB010BF2	6 MB010BG6	5	5 MB055CF4	12 MB050CL8
		8	8	8 MB025AK2	13	6 MB035BG4			8 MB025AE6	6 MB035BE2	6 MB005AH2	8 MB010BH6	7	7 MB055CF3	13 MB050CL7
		11	11		14	9 MB035BG5	** * ONLY *		11 MB025AB6	8 MB035BF2	8 MB005CG2	11 MB005BG6	9 MB055CH2	9 MB055CF2	14 MB050CL6
					15	12 MB035BG6	** UNUSED			10 MB005DM2			12 MB055CG5	12 MB055CE5	15 MB050CL5
						15 MB035BG7	** * PINS *			12 MB055BK2			14 MB055CG4	14 MB055CE4	16 MB050CL4
						16 MB035BG8							16 MB055CG3	16 MB055CE3	17 MB050CL3
						19 MB035BG9							18 MB055CG2	18 MB055CE2	18 MB050CL2
RA2	QA2	7 PA2	7 NA2	7 MA2	8 LA2	10 KA2	JA2	7 HA2	7 GA2	7 FA2	7 EA2	7 DA2	10 CA2	10 BA2	10 AA2
GNDBG63	GNDBG59	GNDBG55	GNDBG51	GNDBG47	GNDBG43	GNDBG39	GNDBG35	GNDBD31	GNDBG27	GNDBG23	GNDBG19	GNDBG15	GNDBG11	GNDBG07	GNDBG07
RA6	QA6	PA6	14 NA6	14 MA6	16 LA6	20 KA6	16 JA6	14 HA6	14 GA6	14 FA6	14 EA6	14 DA6	20 CA6	20 BA6	20 AA6
+5VBD63	+5VBD59	+5VBD55	+5VBD51	+5VBD47	+5VBD43	+5VBD39	+5VBD35	+5VBD31	+5VBD27	+5VBD23	+5VBD19	+5VBD15	+5VBD11	+5VBD07	+5VBD07

INDEX: 15 PAGE(S)

A	PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL
M	MB005	4000241028	46095	MB030	4000246027	46081	MB060	4000452013	46054
2	MB010	4000242026	46081	MB035	4000247017	46054	MB065	4000453011	46054
1	MB015	4000243024	46081	MB040	4000248015	46054	MB070	4000454019	46054
5	MB020	4000244022	46081	MB050	4000249013	46054	MB075	4000455016	46054
	MB025	4000245011	46054	MB055	4000451015	46054	MB080	4000456014	46054

IC LOCATION CHART MB CARD FOR DDD

PRESENT EC 46110	DATE 5/29/81		CD PN 4000112054	PAGE 1 OF 2	A M 2 1 5
PREV EC 46095	PAGE PN 4000240046	CD TYPE MB	FLEVEL PROTOTYP		



INDEX: 15 PAGE(S)

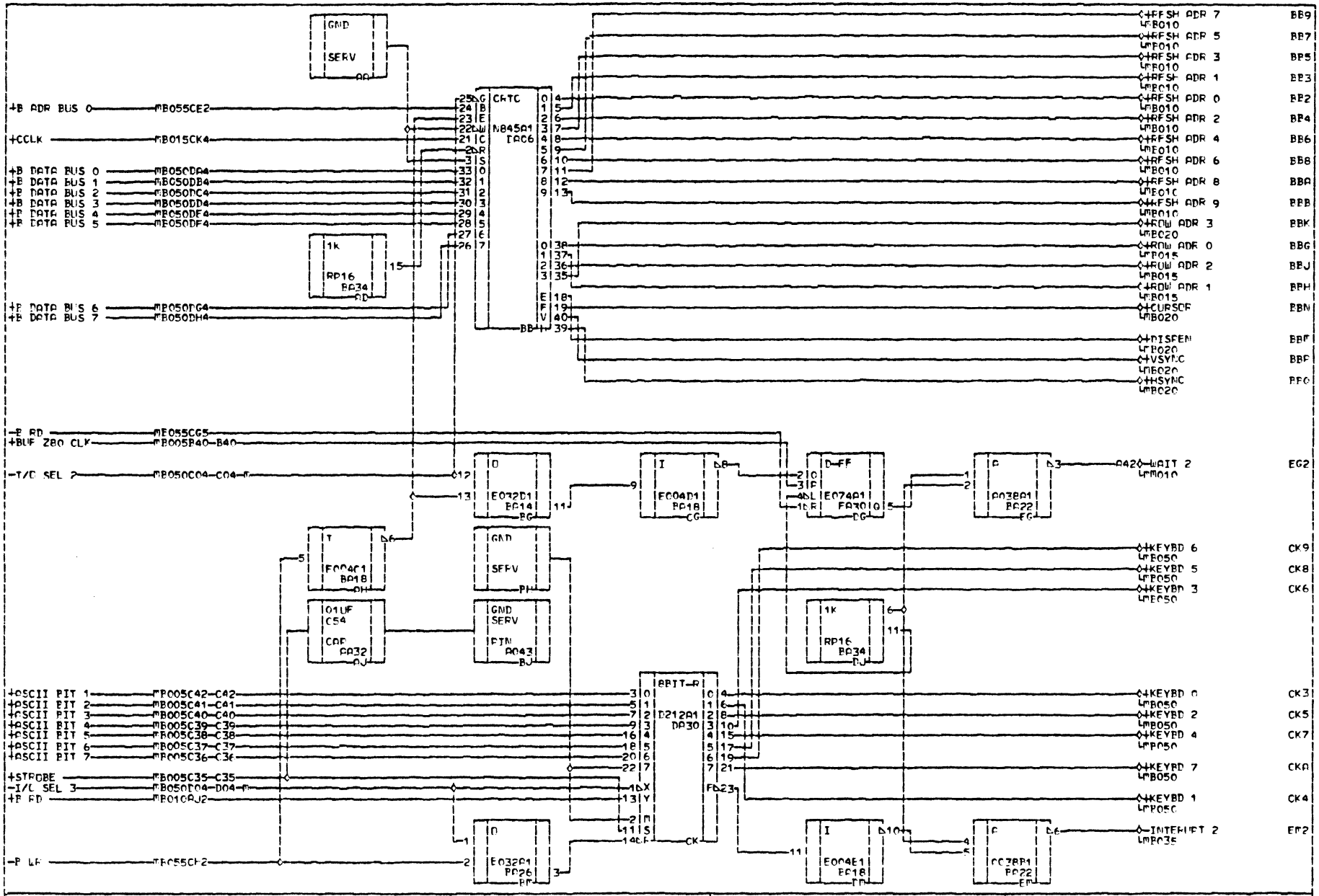
PAGE	CRD PG P/N	EC LEVEL
MB005	4000241028	46095
MB010	4000242026	46081
MB015	4000243024	46081
MB020	4000244022	46081
MB025	4000245011	46054
MB030	4000246027	46081
MB035	4000247017	46054
MB040	4000248015	46054
MB050	4000249013	46054
MB055	4000451015	46054
MB060	4000452013	46054
MB065	4000453011	46054
MB070	4000454019	46054
MB075	4000455016	46054
MB080	4000456014	46054

IC LOCATION CHART MB CARD FOR DDD

PRESENT EC 46110	DATE 5/29/81			CD PN 4000112054	PAGE 2 OF 2
PREV EC 46095	PAGE PN 4000240046	CD TYPE MB		FLEVEL PROTOTYP	

A M 2 1 5

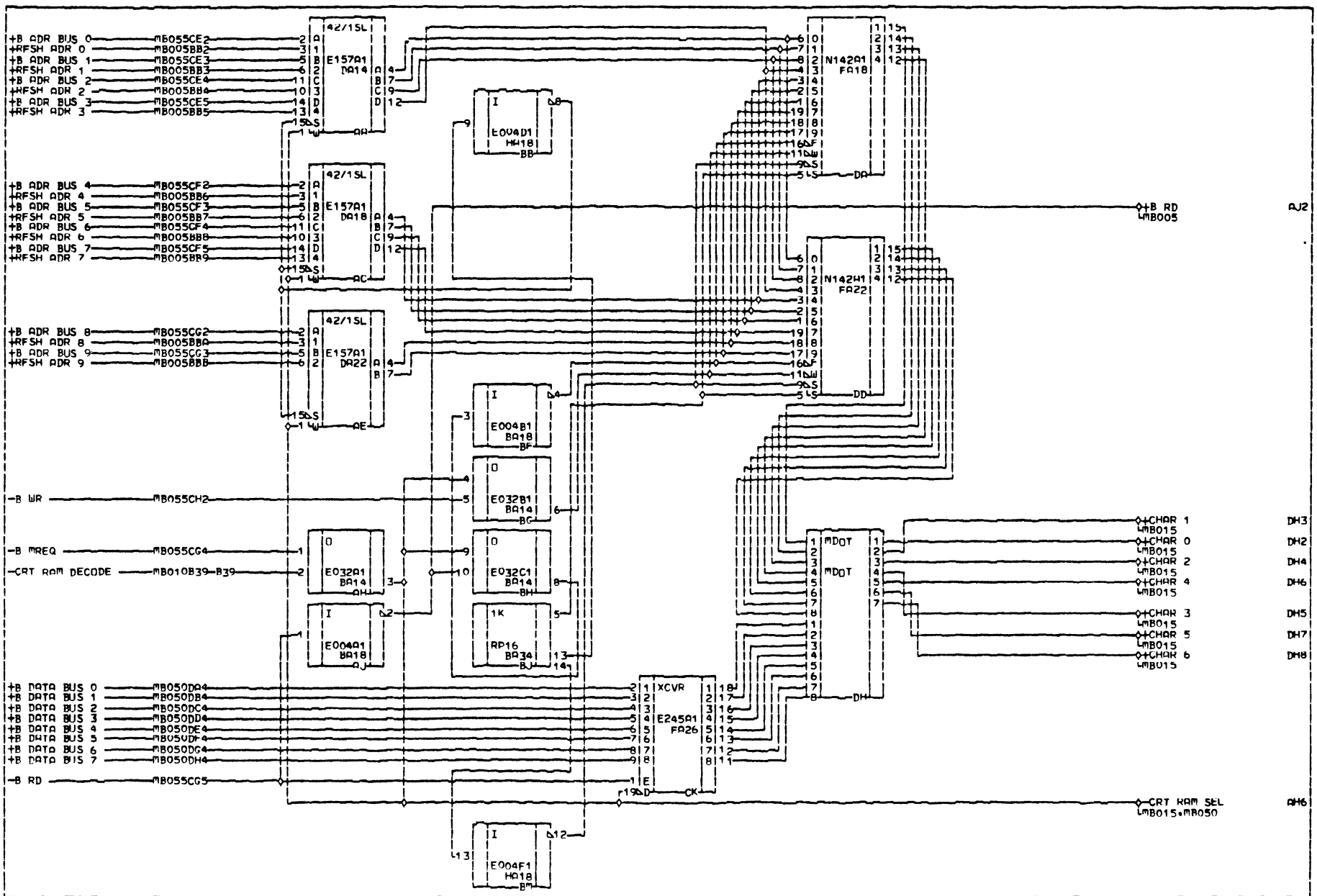
MPBB 06/01/81 06/01/81 PROF: PDDD516

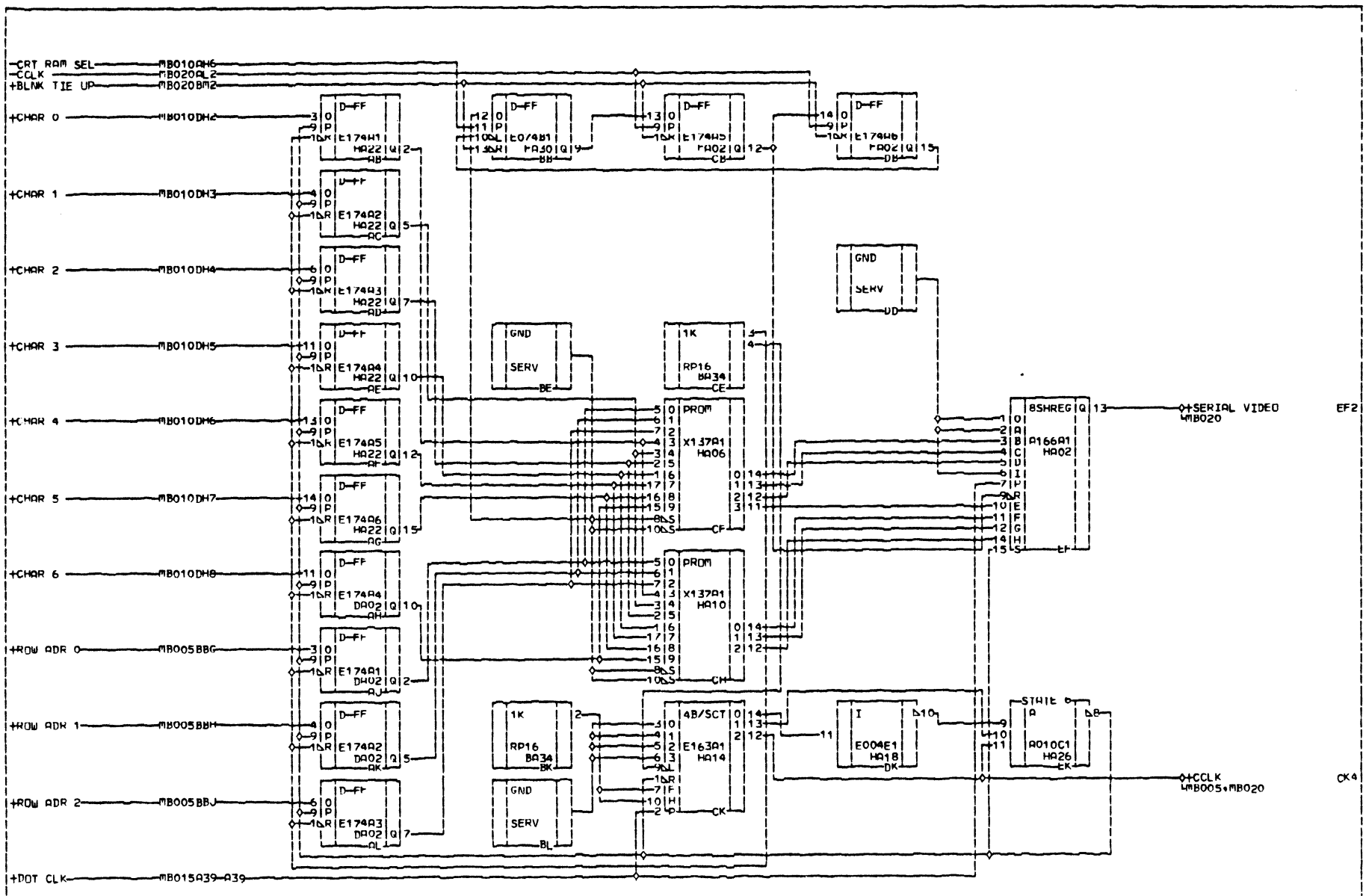


CRT CONTROLLER AND KEYBOARD DATA REGISTER

— AP PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. EC46095	MACHINE: 3910
PAGE 4000241028	FLYER EC PROTOTYPE	PREV. E.C. EC46041	CD. LOC. A03
E.C. 46095	WIRING METHOD: PC	DATE 03/12/81	PG. P.N. 4013013034

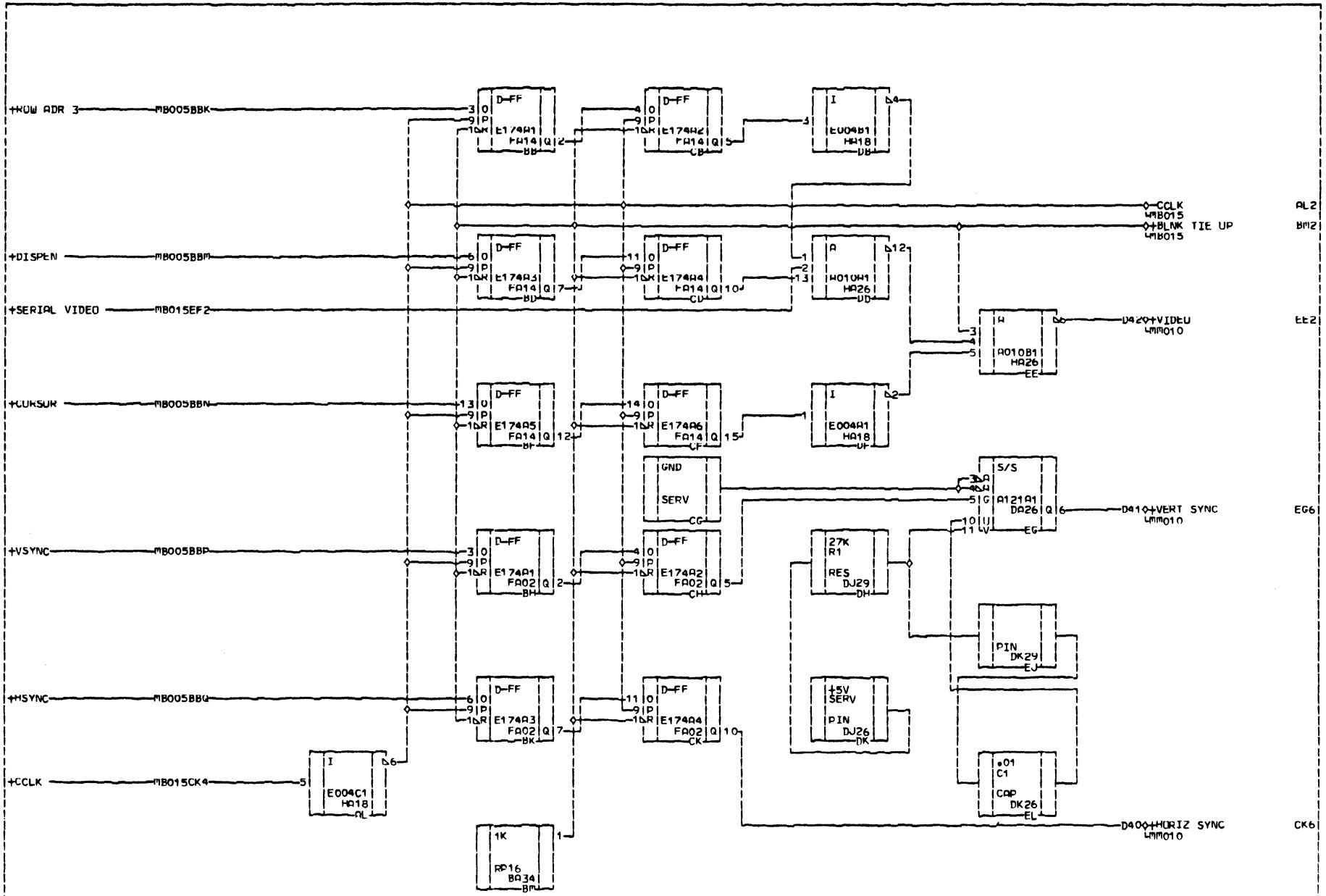
HMPB 01/15/82


+B ADR BUS 0
+RFSH ADR 0
+B ADR BUS 1
+RFSH ADR 1
+B ADR BUS 2
+RFSH ADR 2
+B ADR BUS 3
+RFSH ADR 3
MB055CE2
MB005BB2
MB055CE3
MB005BB3
MB055CE4
MB005BB4
MB055CE5
MB005BB5
42/1SL
E157A1
DA14
+B ADR BUS 4
+RFSH ADR 4
+B ADR BUS 5
+RFSH ADR 5
+B ADR BUS 6
+RFSH ADR 6
+B ADR BUS 7
+RFSH ADR 7
MB055CF2
MB005BB6
MB055CF3
MB005BB7
MB055CF4
MB005BB8
MB055CF5
MB005BB9
E157A1
DA18
+B ADR BUS 8
+RFSH ADR 8
+B ADR BUS 9
+RFSH ADR 9
MB055CG2
MB005BBA
MB055CG3
MB005BBB
E157A1
DA22
E004D1
HA18
E004B1
BA18
E032B1
BA14
-B WR
MB055CH2
-B MREQ
MB055CG4
-CRT RAM DECODE
MB010B39-B39
E032A1
BA14
E004A1
BA18
E032C1
BA14
RP16
BA34
N142A1
FA18
N142H1
FA22
MDOT
+B RD
MB005
+CHAR 1
MB015
+CHAR 0
MB015
+CHAR 2
MB015
+CHAR 4
MB015
+CHAR 3
MB015
+CHAR 5
MB015
+CHAR 6
MB015
+B DATA BUS 0
+B DATA BUS 1
+B DATA BUS 2
+B DATA BUS 3
+B DATA BUS 4
+B DATA BUS 5
+B DATA BUS 6
+B DATA BIS 7
MB050DA4
MB050DB4
MB050DC4
MB050DD4
MB050DE4
MB050DF4
MB050DG4
MB050DH4
XCVR
E245A1
FA26
-B RD
MB055CG5
CRT RAM SEL
MB015•MB050
E004F1
HA18
CRT REFRESH MEMORY
PAGE 4000242026
E.C. 46081
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46081
PREV. E.C. 46041
DATE 7/17/80
MACHINE: 3910
CD. LOC. A03
PG. P.N. 4013014024

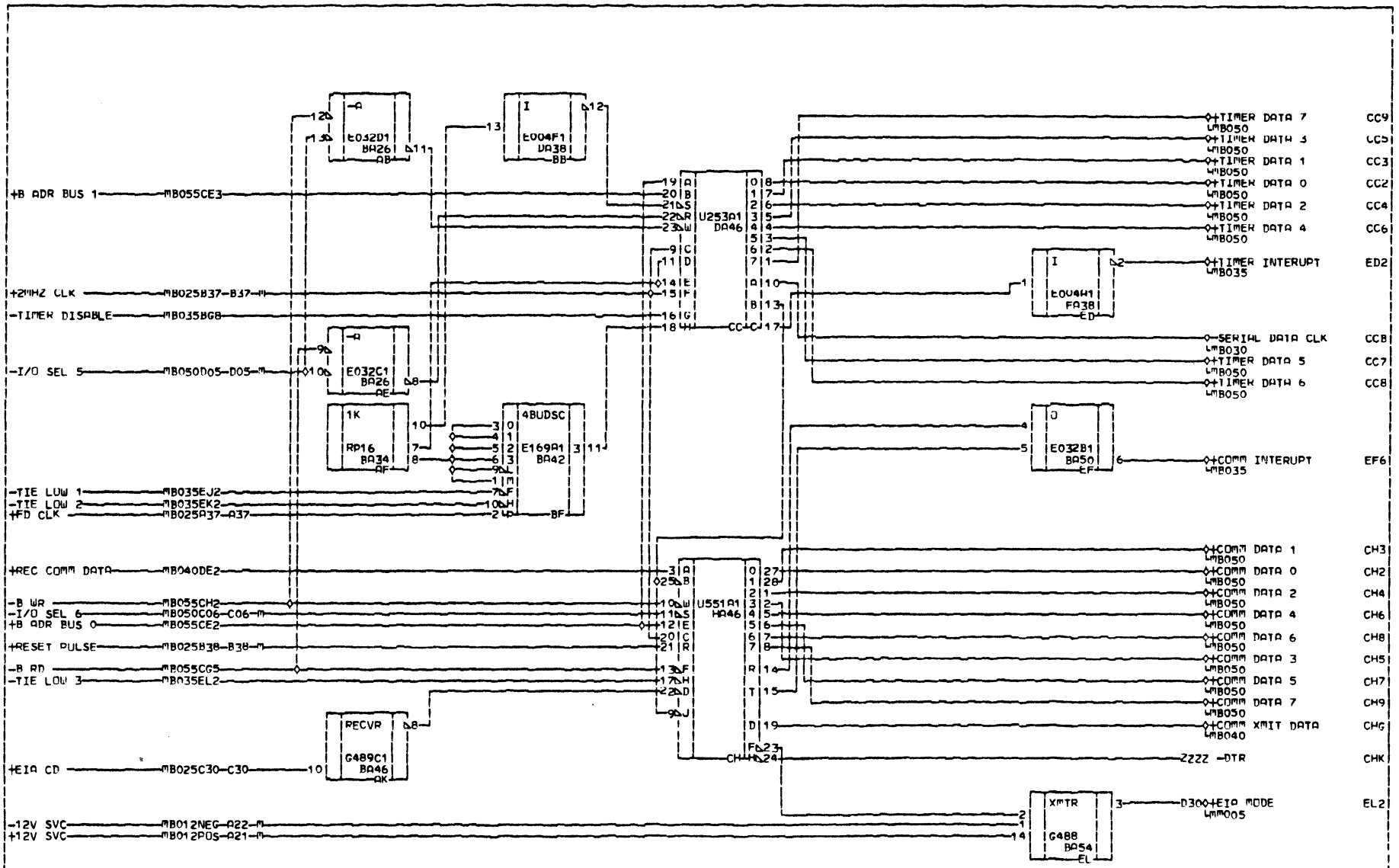


VIDEO CHARACTER GENERATION			
— AM PAGE REFS — PAGE 4000243024 E.C. 46081	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46081 PREV. E.C. 46041 DATE 7/17/80	MACHINE: 3910 LD. LOC. A03 PG. P.N. 4013015021

HMBB 04/15/81



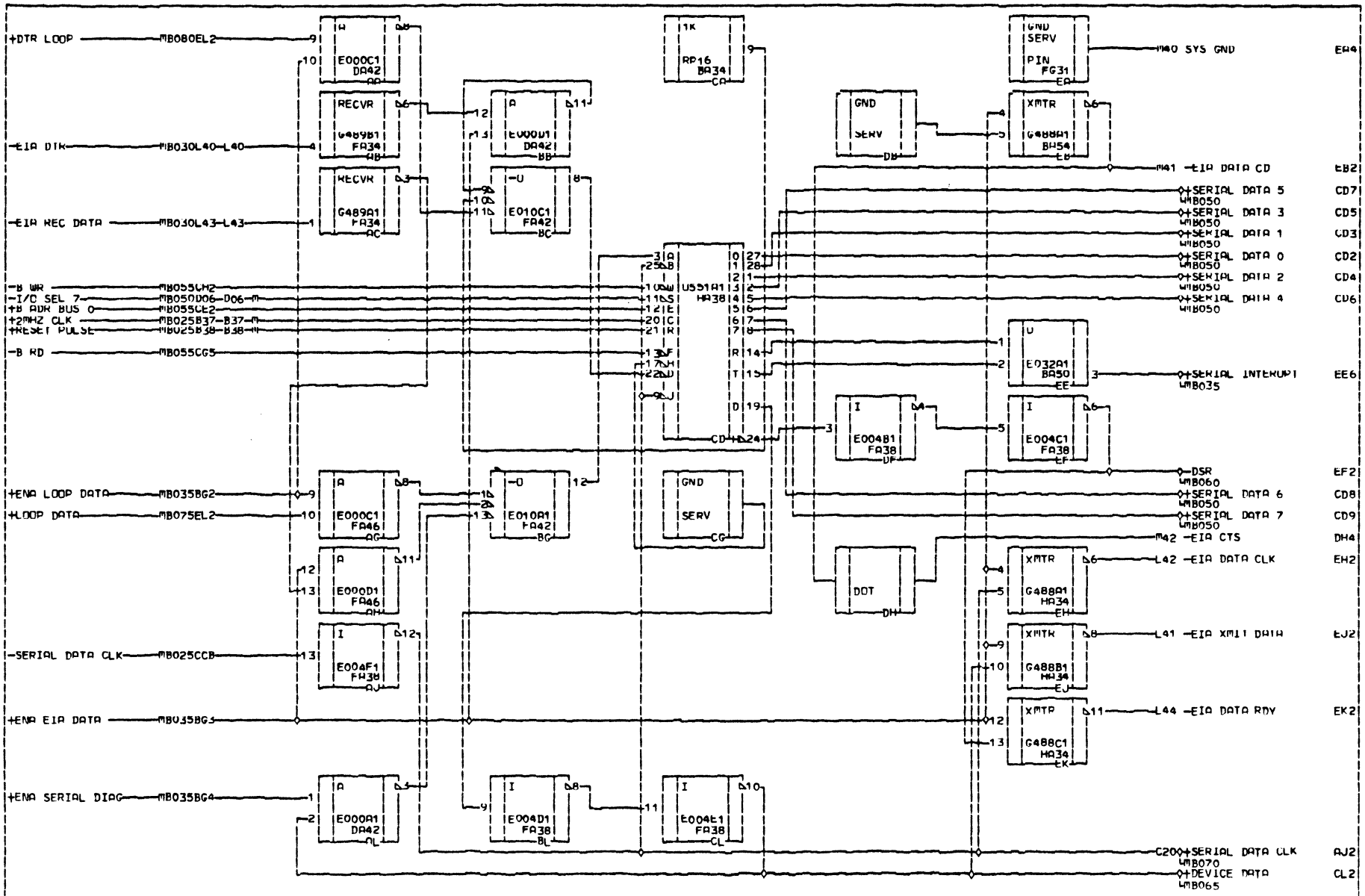
MB020	STC	VIDEO DELAY			MB020
		- AM PAGE REFS - PAGE 4000244022 E.C. 46081	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46081 PREV. E.C. 46041 DATE 7/17/80	MACHINE: 3910 CD. LUC. A01 PG. P.N. 4013016029



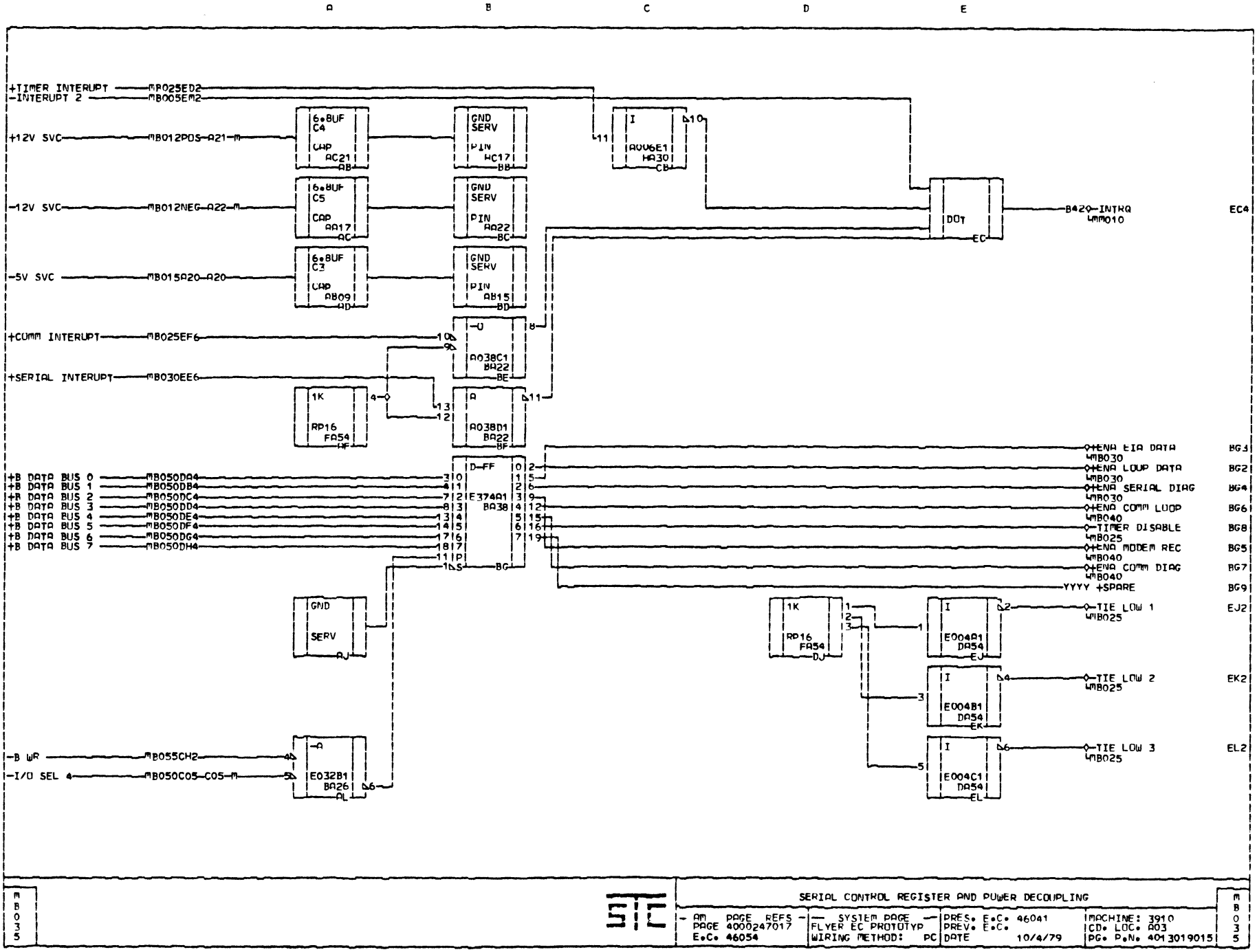
COMM USART AND TIMERS

AM PAGE REFS — PAGE 40002450I1 E.C. 46054	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46041 PREV. E.C. DATE 10/4/79	MACHINE: 3910 CD. LOC. A03 PG. P.N. 4013017019

MB025



MB030	SERIAL DEVICE INTERFACE USART				
	AM PAGE REFS — PAGE 4000246027 E.C. 46081	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46081 PREV. E.C. 46041 DATE 7/17/80	MACHINE: 3910 CD. LOC. A03 PG. P.N. 4013018025	MB030



SERIAL CONTROL REGISTER AND POWER DECOUPLING

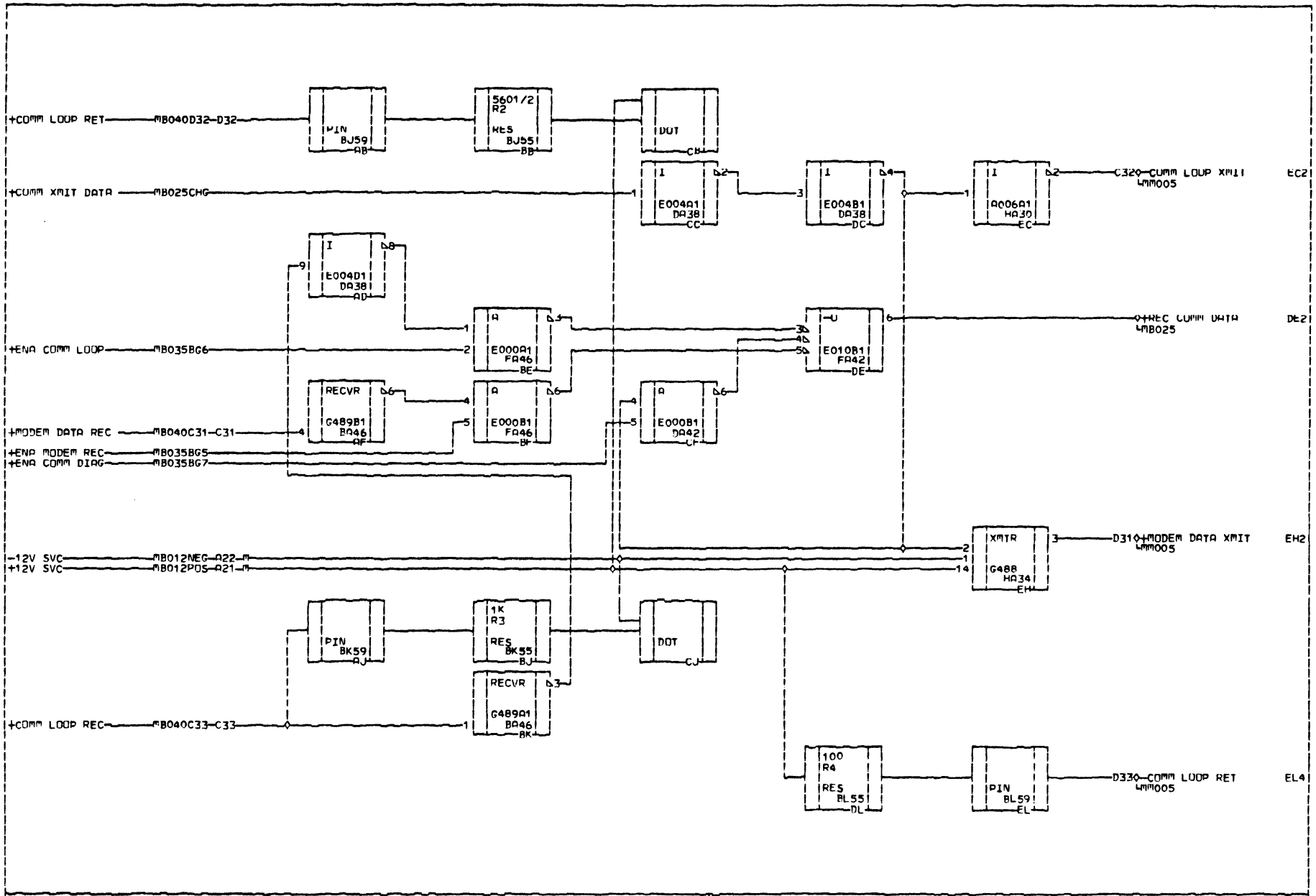
AM PAGE REFS — PAGE 4000247017 E.C. 46054

SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC

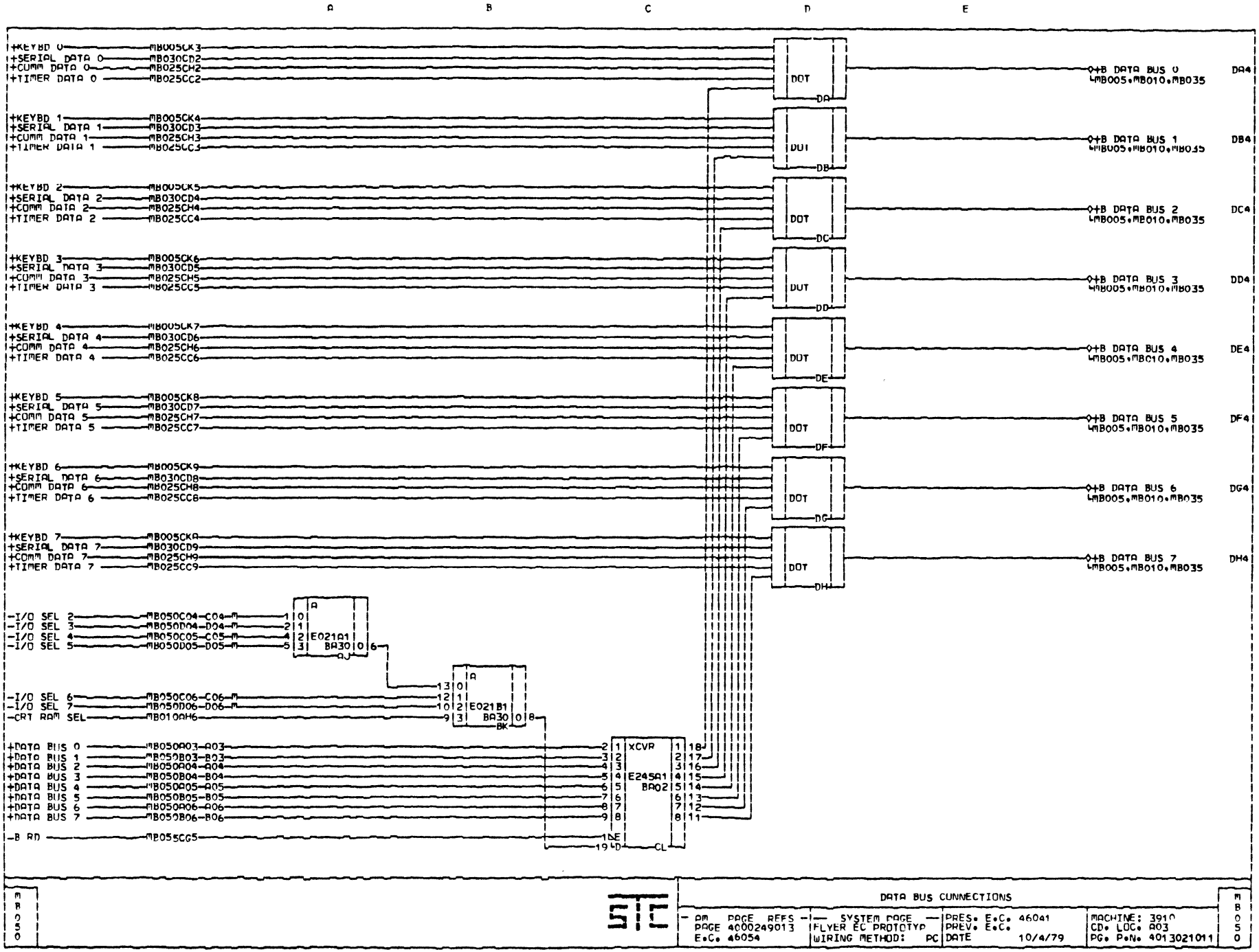
PRES. E.C. 46041 PREV. E.C. DATE 10/4/79

MACHINE: 3910 CD. LOC. A03 PG. P.N. 4013019015

MB035

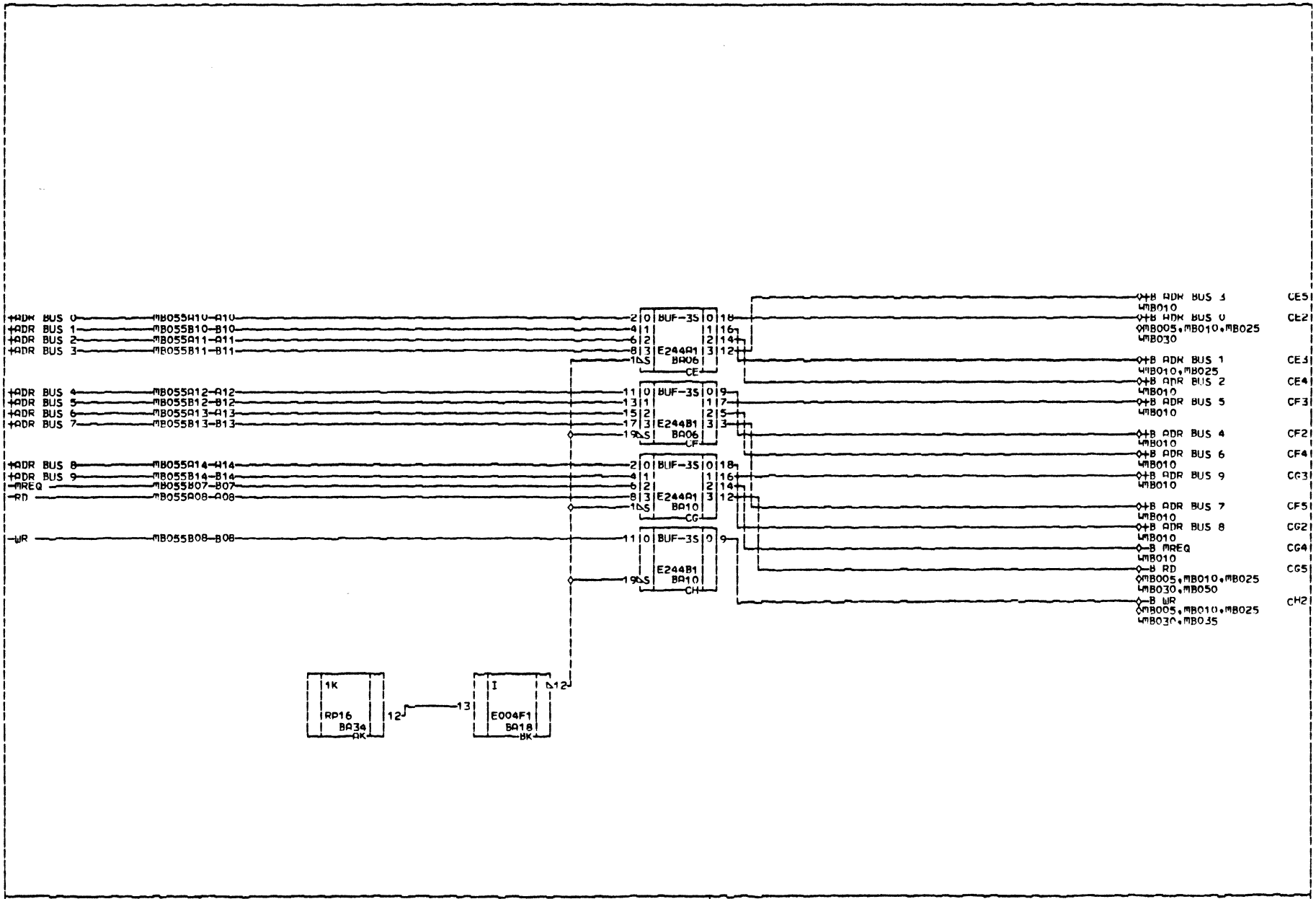


MB040		COMM XMIT + RECEIVE CIRCUITS•RECEIVE SELECT			MB040
		AM PAGE REFS — PAGE 4000248015 E.C. 46054	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46041 PREV. E.C. DATE 10/4/79	MACHINE: 3910 CD. LOC. A03 PG. P.N. 4013020013



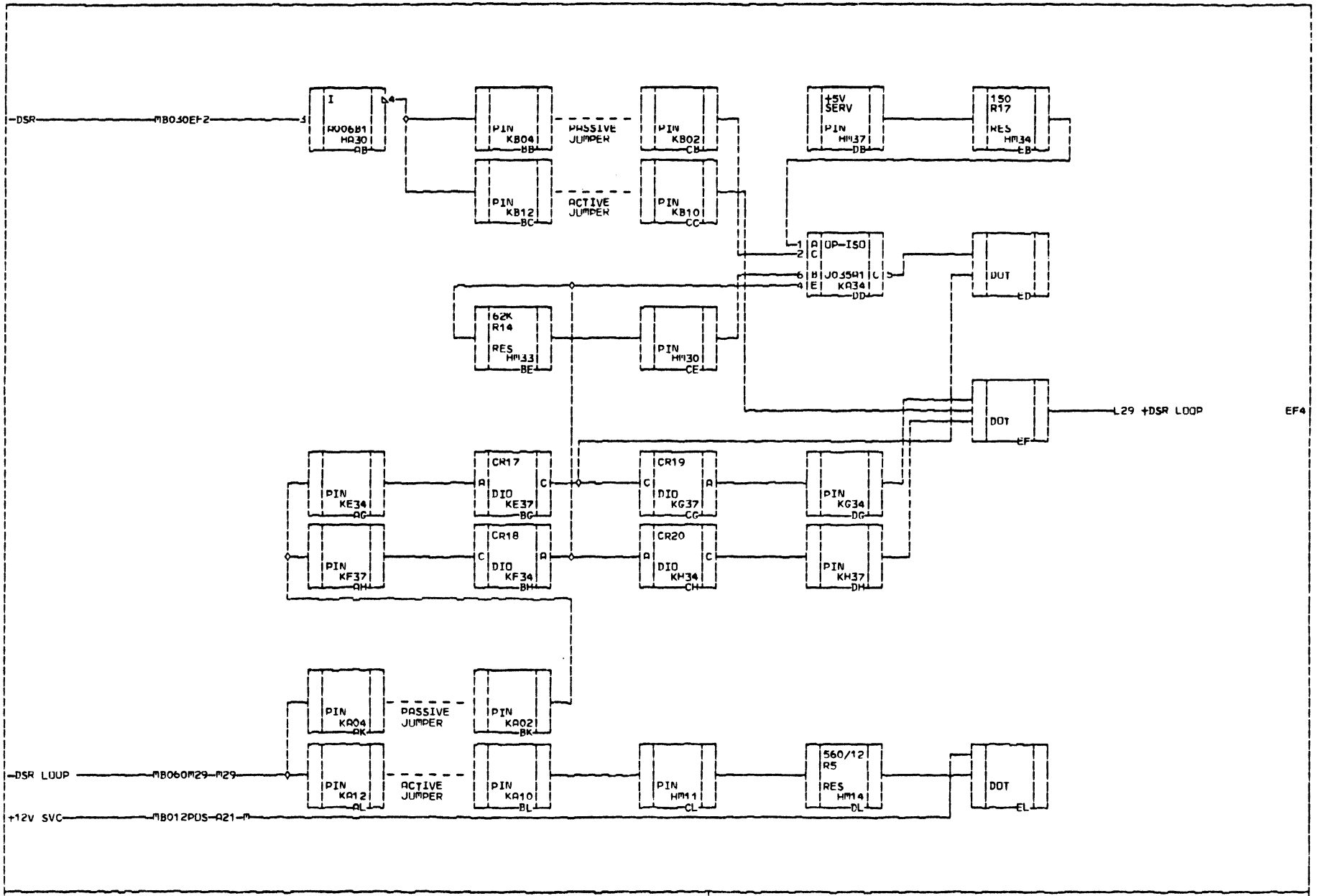
DATA BUS CONNECTIONS

DM PAGE REFS — PAGE 4000249013 E•C• 46054	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES• E•C• 46041 PREV• E•C• DATE 10/4/79	MACHINE: 3910 CD• LOC• A03 PG• P•N• 4013021011

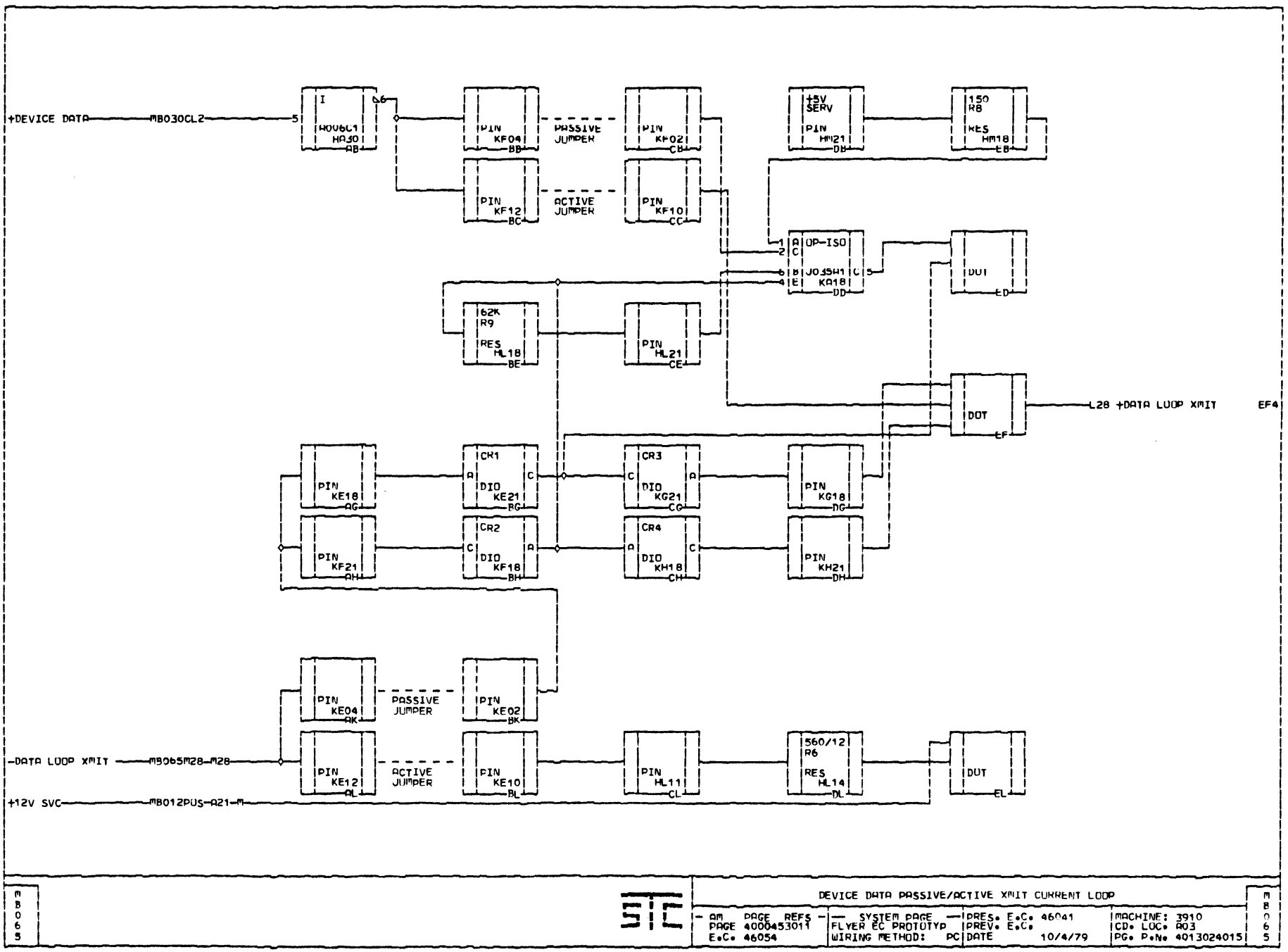


MB055	STC	ADDRESS AND CONTROL BUFFERING				MB055
		AM PAGE REFS — PAGE 4000451015 E.C. 46054	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46041 PREV. E.C. DATE 10/4/79	MACHINE: 3910 CD. LUC. A01 PG. P.N. 4013022019	

HMBB 11/01/79



MB060	STC	DSR PASSIVE/ACTIVE XMIT CURRENT LOOP			MB060
		AM PAGE REFS — PAGE 4000452013 E.C. 46054	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46041 PREV. E.C. DATE 10/4/79	MACHINE: 3910 CD. LOC. A03 PG. P.NO. 4013023017

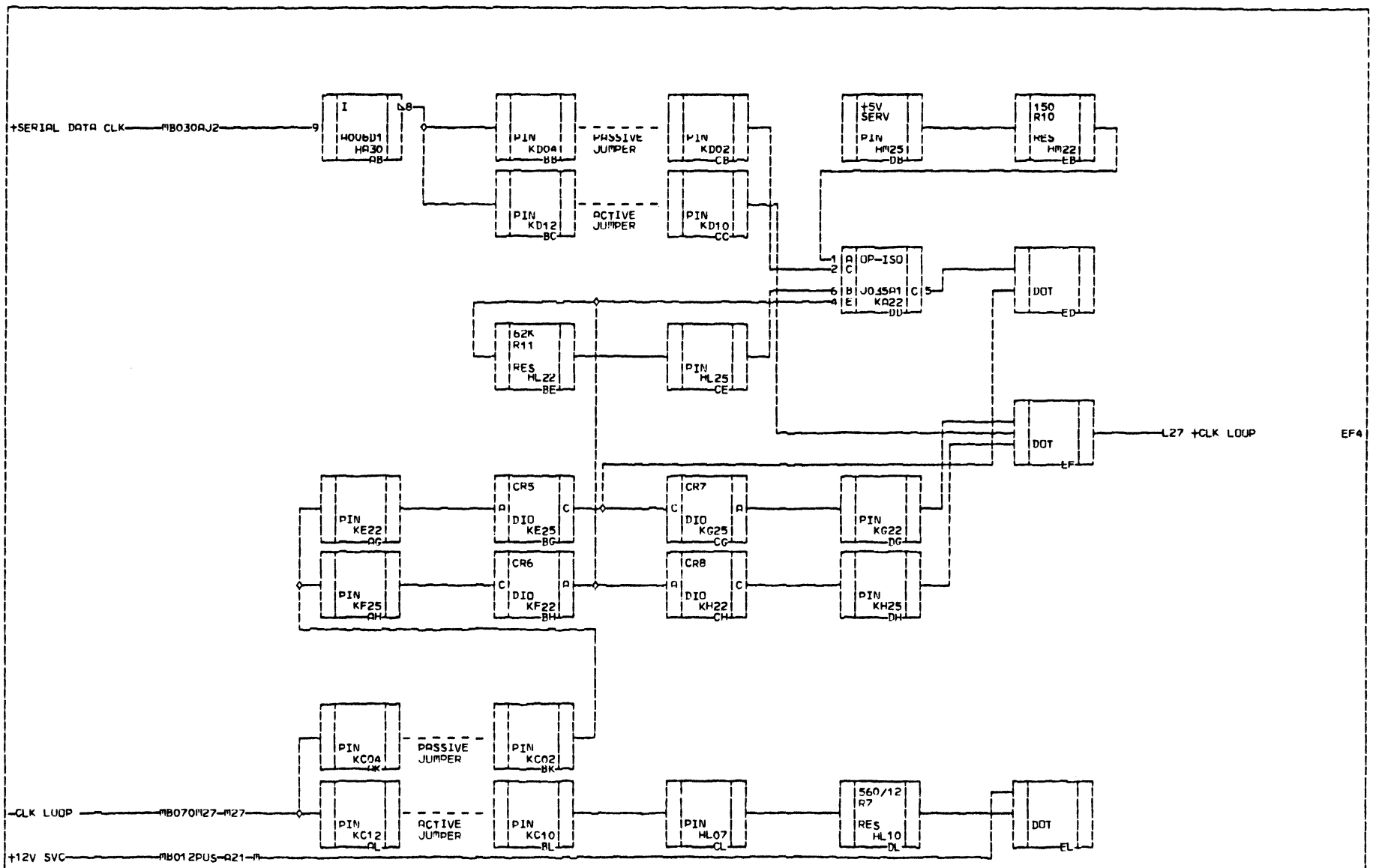


DEVICE DATA PASSIVE/ACTIVE XMIT CURRENT LOOP

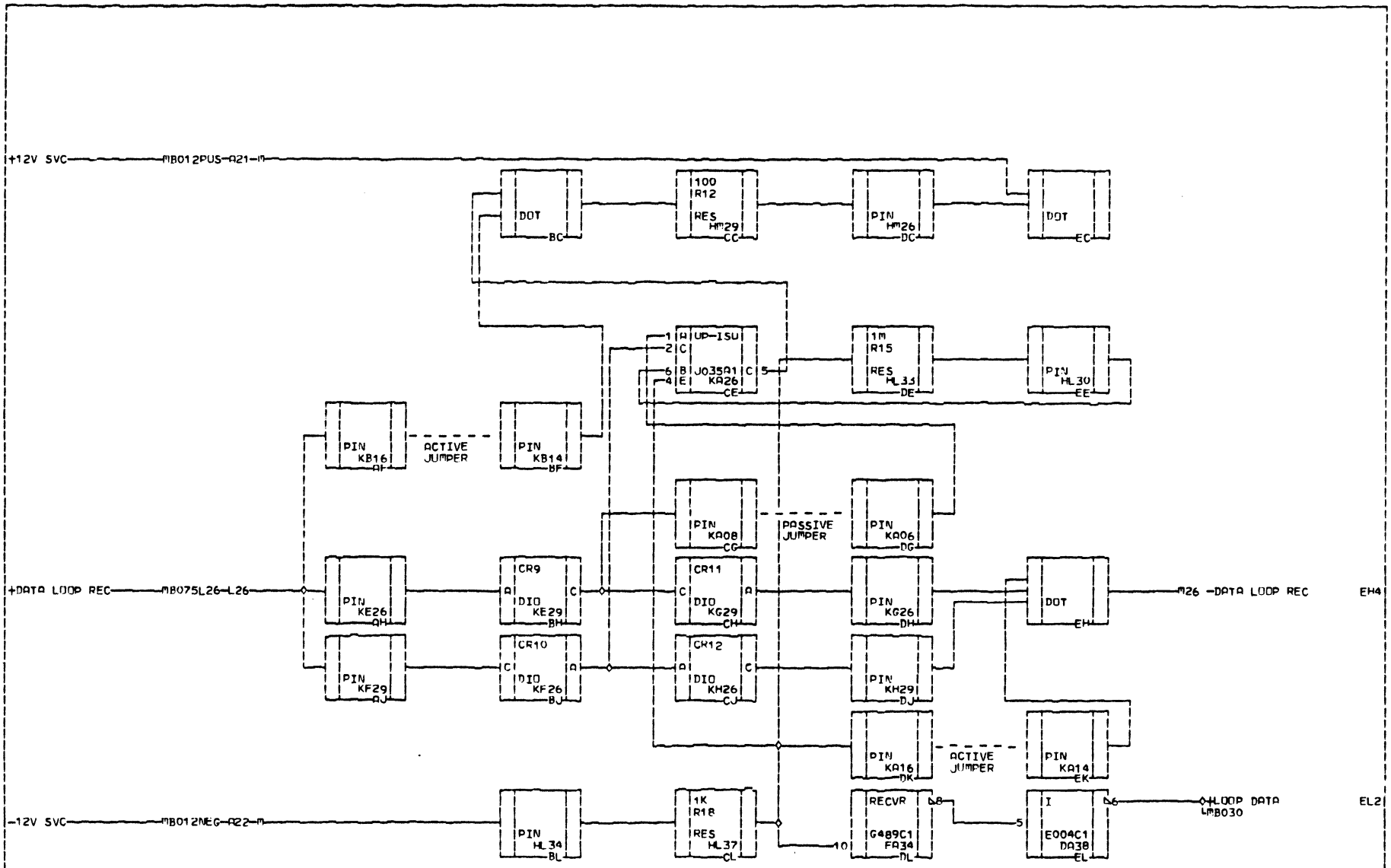
AM PAGE REFS	SYSTEM PAGE	PRES. E.C. 46041	MACHINE: 3910
PAGE 4000453011	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. A03
E.C. 46054	WIRING METHOD: PC	DATE 10/4/79	PG. P.No 4013024015

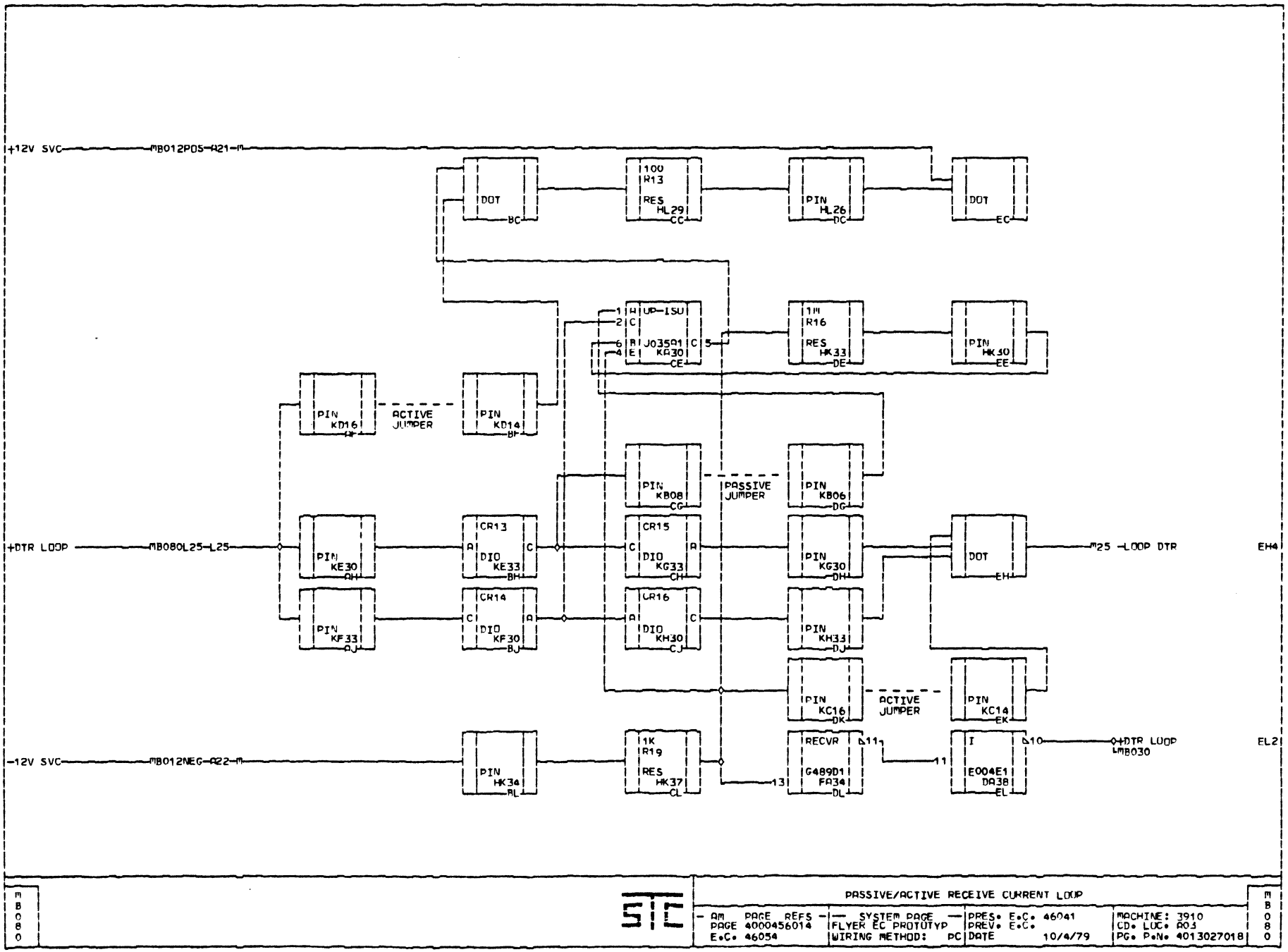
MB0655

HMBB 11/01/79



MB070	STC	DATA CLK PASSIVE/ACTIVE XMIT CURRENT LOOP			MB070
		AM PAGE REFS — PAGE 4000454019 E.C. 46054	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46041 PREV. E.C. DATE 10/4/79	MACHINE: 3910 CD. LUC. A03 PG. P.N. 4013025012


+12V SVC
MB012PUS-A21-M
DOT BC
100 R12 RES HM29 CC
PIN HM26 DC
DOT EC
1M R15 RES HL33 DE
PIN HL30 EE
UP-ISU J035A1 KA26 CE
PIN KB16 AF
ACTIVE JUMPER
PIN KB14 BF
PIN KA08 CG
PASSIVE JUMPER
PIN KA06 DG
+DATA LOOP REC
MB075L26-L26
PIN KE26 AH
CR9 DIO KE29 BH
CR11 DIO KG29 CH
PIN KG26 DH
DOT EH
M26 -DATA LOOP REC
EH4
PIN KF29 AJ
CR10 DIO KF26 BJ
CR12 DIO KH26 CJ
PIN KH29 DJ
PIN KA16 DK
ACTIVE JUMPER
PIN KA14 EK
-12V SVC
MB012NEG-A22-M
PIN HL34 BL
1K R18 RES HL37 CL
RECVR G489C1 FA34 DL
I E004C1 DA38 EL
LOOP DATA MB030
EL2
DEVICE DATA PASSIVE/ACTIVE RECEIVE CURRENT LOOP
AM PAGE REFS
PAGE 4000455016
E.C. 46054
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46041
PREV. E.C.
DATE 10/4/79
MACHINE: 3910
CD. LOC. A03
PG. P.N. 4013026010
MB075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MB012POS-A21-M
DOT
BC
100
R13
RES
HL29
CC
PIN
HL26
DC
DOT
EC
1M
R16
RES
HK33
DE
PIN
HK30
EE
UP-ISU
J03591
KA30
CE
PIN
KD16
AF
ACTIVE
JUMPER
PIN
KD14
BF
PIN
KB08
CG
PASSIVE
JUMPER
PIN
KB06
DG
+DTR LOOP
MB080L25-L25
PIN
KE30
AH
CR13
DIO
KE33
BH
CR15
DIO
KG33
CH
PIN
KG30
DH
DOT
EH
M25 -LOOP DTR
EH4
PIN
KF33
AJ
CR14
DIO
KF30
BJ
CR16
DIO
KH30
CJ
PIN
KH33
DJ
PIN
KC16
DK
ACTIVE
JUMPER
PIN
KC14
EK
-12V SVC
MB012NEG-A22-M
PIN
HK34
AL
1K
R19
RES
HK37
CL
RECVR
G489D1
FA34
DL
I
E004E1
DA38
EL
+DTR LOOP
LMB030
EL2
PASSIVE/ACTIVE RECEIVE CURRENT LOOP
AM PAGE REFS
PAGE 4000456014
E.C. 46054
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46041
PREV. E.C.
DATE 10/4/79
MACHINE: 3910
CD. LOC. A03
PG. P.NO. 4013027018
MB080

BUILD ARC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E
03-02-81	1	46069

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	400041405	4	E	N	SLG,MC,4C0012125,WW	N	REL	12-10-80	3910	12-10-80

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	001	01	400035705	1		REF	PC	W/W CARD LOGIC,AM861,MC	D		46059			8110	
	002	01	400035802	0		REF	PC	SYS. LGC,MC005,W/W	D						
	003	01	400035903	6		REF	PC	SYS. LGC,MC010,W/W	D						
	004	01	400036001	8		REF	PC	SYS LOGIC,MC015,W/W	D						
	005	01	400036102	4		REF	PC	SYS. LGC,MC020,W/W	D						
	006	01	400036203	0		REF	PC	SYS. LGC,MC025,W/W	D						
	007	01	400036301	2		REF	PC	SYS LOGIC,MC030,W/W	D						
	008	01	400036402	8		REF	PC	SYS. LGC,MC035,W/W	D						
	009	01	400036502	5		REF	PC	SYS. LGC,MC040,W/W	D						
	010	01	400036604	9		REF	PC	SYS LGC,MC045,WW	D		46059			8110	
	011	01	400036702	1		REF	PC	SYS LOGIC,MC 050,W/W	D						
	012	01	400036803	7		REF	PC	SYS LGC,MC055,WW	D		46059			8110	
	013	01	400036903	5		REF	PC	SYS LOGIC,MC 060,W/W	D						
	014	01	400037002	5		REF	PC	SYS LOGIC,MC065,W/W	D						
	015	01	400037101	5		REF	PC	SYS LOGIC,MC070,W/W	D						
	016	01	400037202	1		REF	PC	SYS LOGIC,MC075,W/W	D						
	017	01	400037303	7		REF	PC	SYS. LGC,MC080,W/W	D						
	018	01	400037401	9		REF	PC	SYS LOGIC,MC085,W/W	D						
	900	02	400012105	5		REF	PC	CKT CD,MC,WW,ASSY	S		46059			8110	

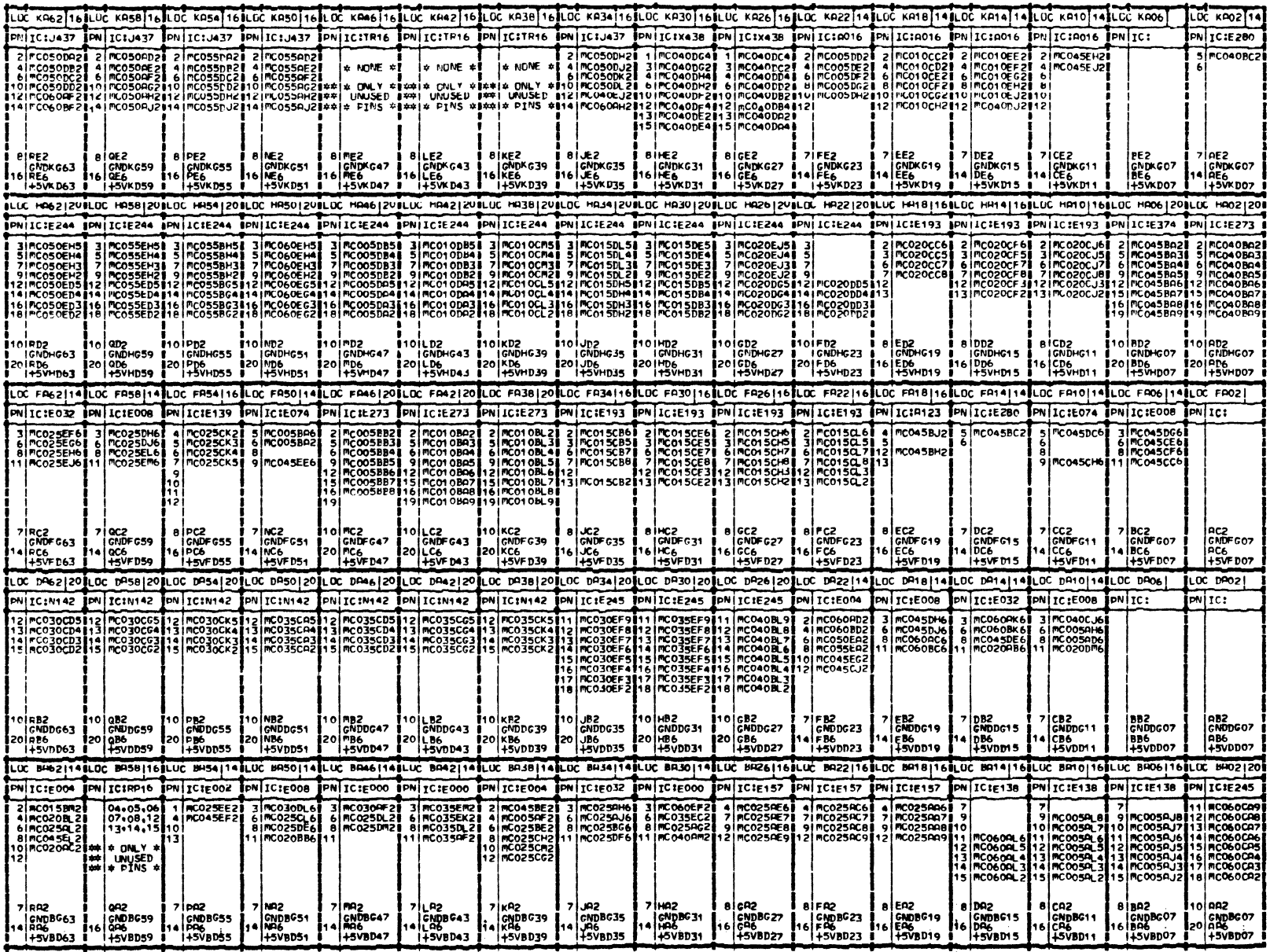
BUILD ARC DOC

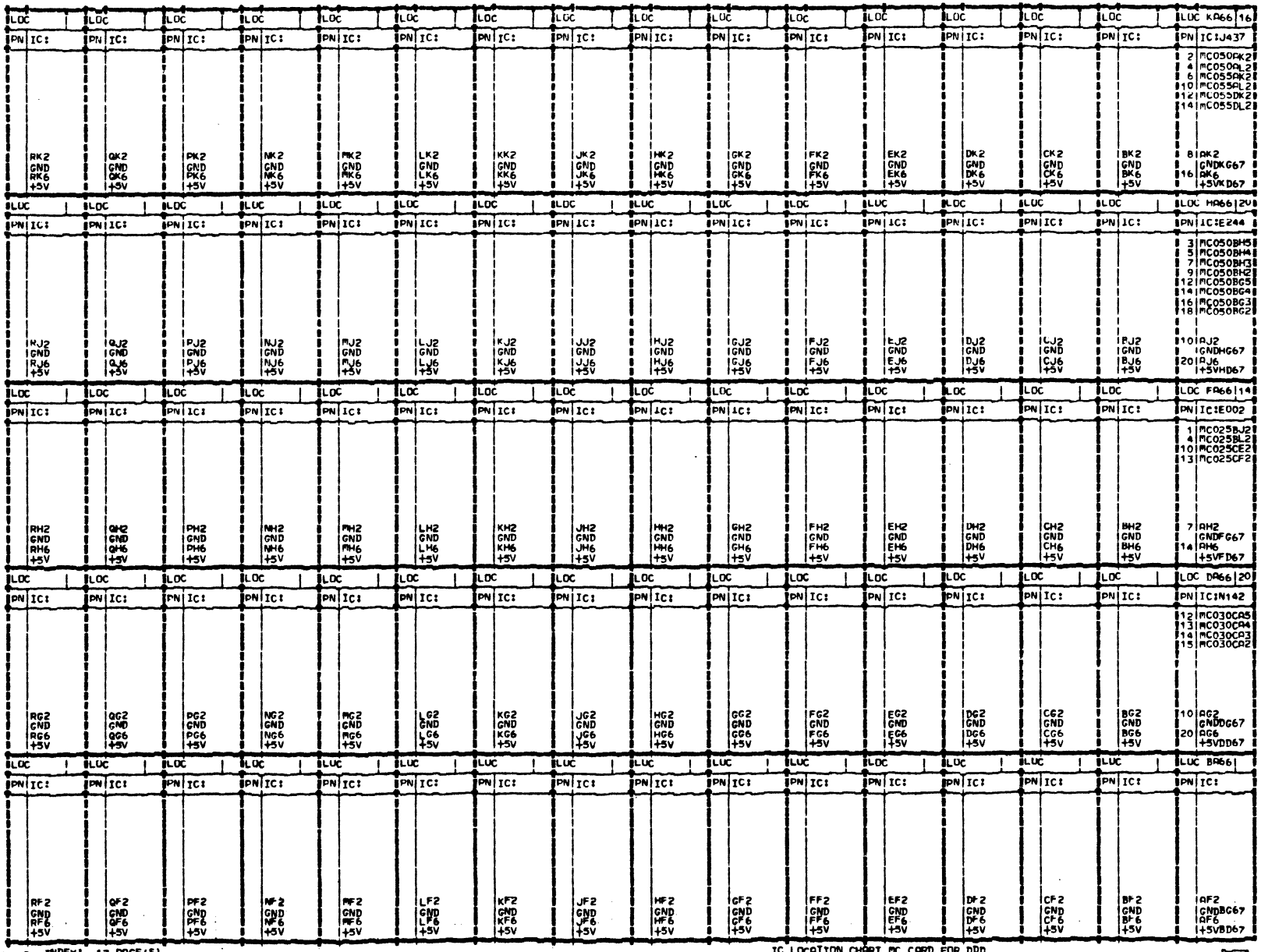
ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E
03-02-81	2	46069

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0520	400041405	4	F	N	SLG.MC.400012105.HW	N	REL	12-10-30	3910	12-10-80

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
								0019 TOTAL LINES							


LOC KA62 16 | LOC KA58 16 | LOC KA54 16 | LOC KA50 16 | LOC KA46 16 | LOC KA42 16 | LOC KA38 16 | LOC KA34 16 | LOC KA30 16 | LOC KA26 16 | LOC KA22 14 | LOC KA18 14 | LOC KA14 14 | LOC KA10 14 | LOC KA06 | LOC KA02 14
LOC HA62 20 | LOC HA58 20 | LOC HA54 20 | LOC HA50 20 | LOC HA46 20 | LOC HA42 20 | LOC HA38 20 | LOC HA34 20 | LOC HA30 20 | LOC HA26 20 | LOC HA22 20 | LOC HA18 16 | LOC HA14 16 | LOC HA10 16 | LOC HA06 20 | LOC HA02 20
LOC FA62 14 | LOC FA58 14 | LOC FA54 16 | LOC FA50 14 | LOC FA46 20 | LOC FA42 20 | LOC FA38 20 | LOC FA34 16 | LOC FA30 16 | LOC FA26 16 | LOC FA22 16 | LOC FA18 16 | LOC FA14 14 | LOC FA10 14 | LOC FA06 14 | LOC FA02
LOC DA62 20 | LOC DA58 20 | LOC DA54 20 | LOC DA50 20 | LOC DA46 20 | LOC DA42 20 | LOC DA38 20 | LOC DA34 20 | LOC DA30 20 | LOC DA26 20 | LOC DA22 14 | LOC DA18 14 | LOC DA14 14 | LOC DA10 14 | LOC DA06 | LOC DA02
LOC BA62 14 | LOC BA58 16 | LOC BA54 14 | LOC BA50 14 | LOC BA46 14 | LOC BA42 14 | LOC BA38 14 | LOC BA34 14 | LOC BA30 14 | LOC BA26 16 | LOC BA22 16 | LOC BA18 16 | LOC BA14 16 | LOC BA10 16 | LOC BA06 16 | LOC BA02 20
* NONE *
* ONLY *
UNUSED
* PINS *
IC LOCATION CHART MC CARD FOR DDD
PRESENT EC 46069 DATE 12/02/80 CD PN 4000121055 PAGE 1 OF 2
PREV EC 46055 PAGE PN 4000057051 CU TYPE MC FLEVEL 34599
INDEX: 17 PAGE(S)
PAGE CRD PG P/N EC LEVEL
MC005 4000250029 46055
MC010 4000251035 46055
MC015 4000252017 46004
MC020 4000253023 46055
MC025 4000254039 46055
MC030 4000255010 46004
MC035 4000256026 46055
MC040 4000257024 46055
MC045 4000258048 46069
MC050 4000259020 46050
MC055 4000260036 46069
MC060 4000261034 46050
MC065 4000262024 46035
MC070 4000263014 46004
MC075 4000264020 46035
MC080 4000265035 46055
MC085 4000266017 46004
MMC1 12/02/80 12/02/80 PROF: PDDD516



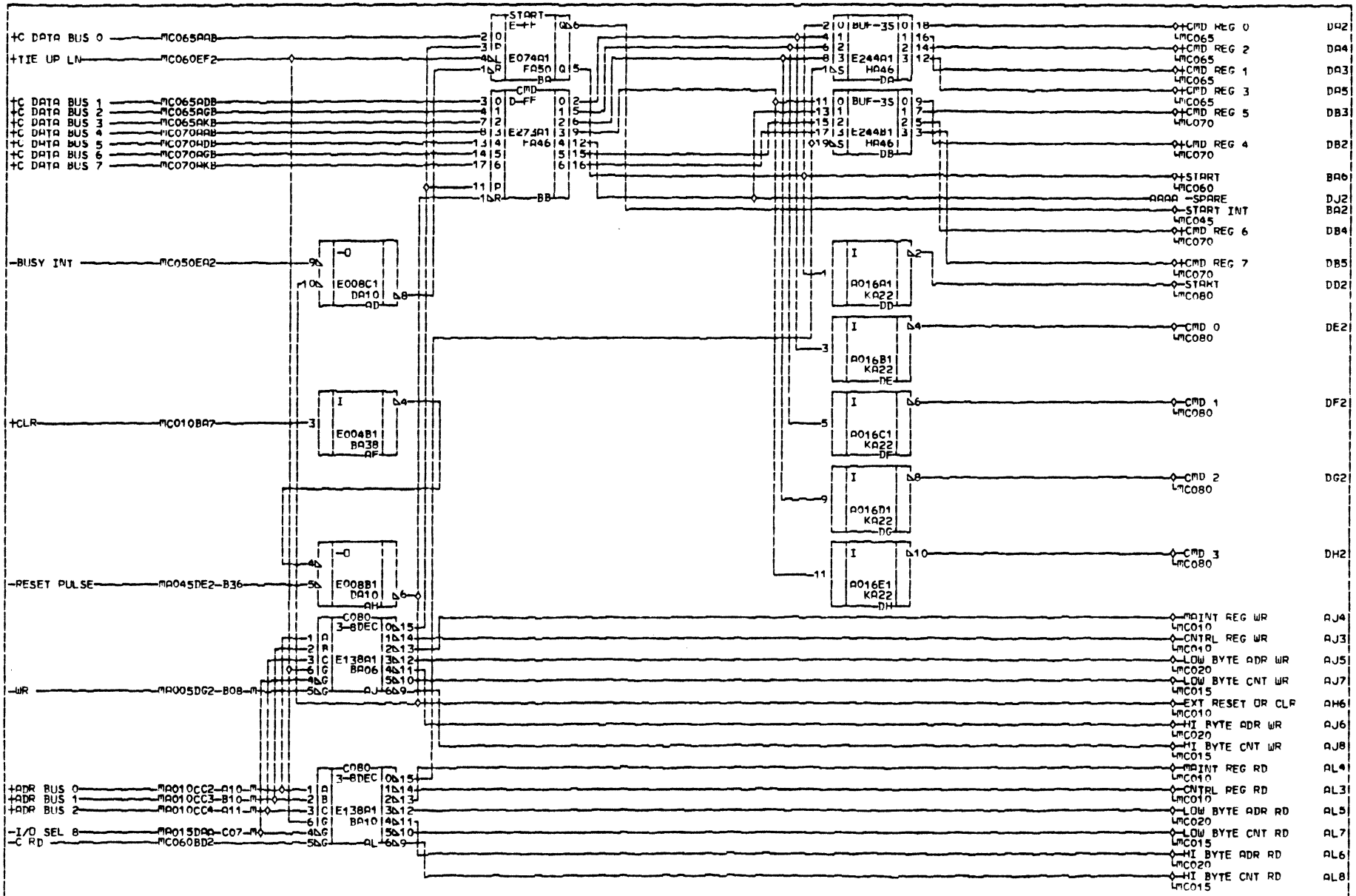
INDEX: 17 PAGE(S)

PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL	PAGE	CRD PG P/N	EC LEVEL
MC005	4000250029	46055	MC035	4000256026	46055	MC065	4000262024	46035
MC010	4000251035	46055	MC040	4000257024	46055	MC070	4000263014	46004
MC015	4000252017	46004	MC045	4000258048	46069	MC075	4000264020	46035
MC020	4000253023	46055	MC050	4000259020	46050	MC080	4000265035	46055
MC025	4000254039	46055	MC055	4000260036	46069	MC085	4000266017	46004
MC030	4000255010	46004	MC060	4000261034	46050			

IC LOCATION CHART MC CARD FOR DDD

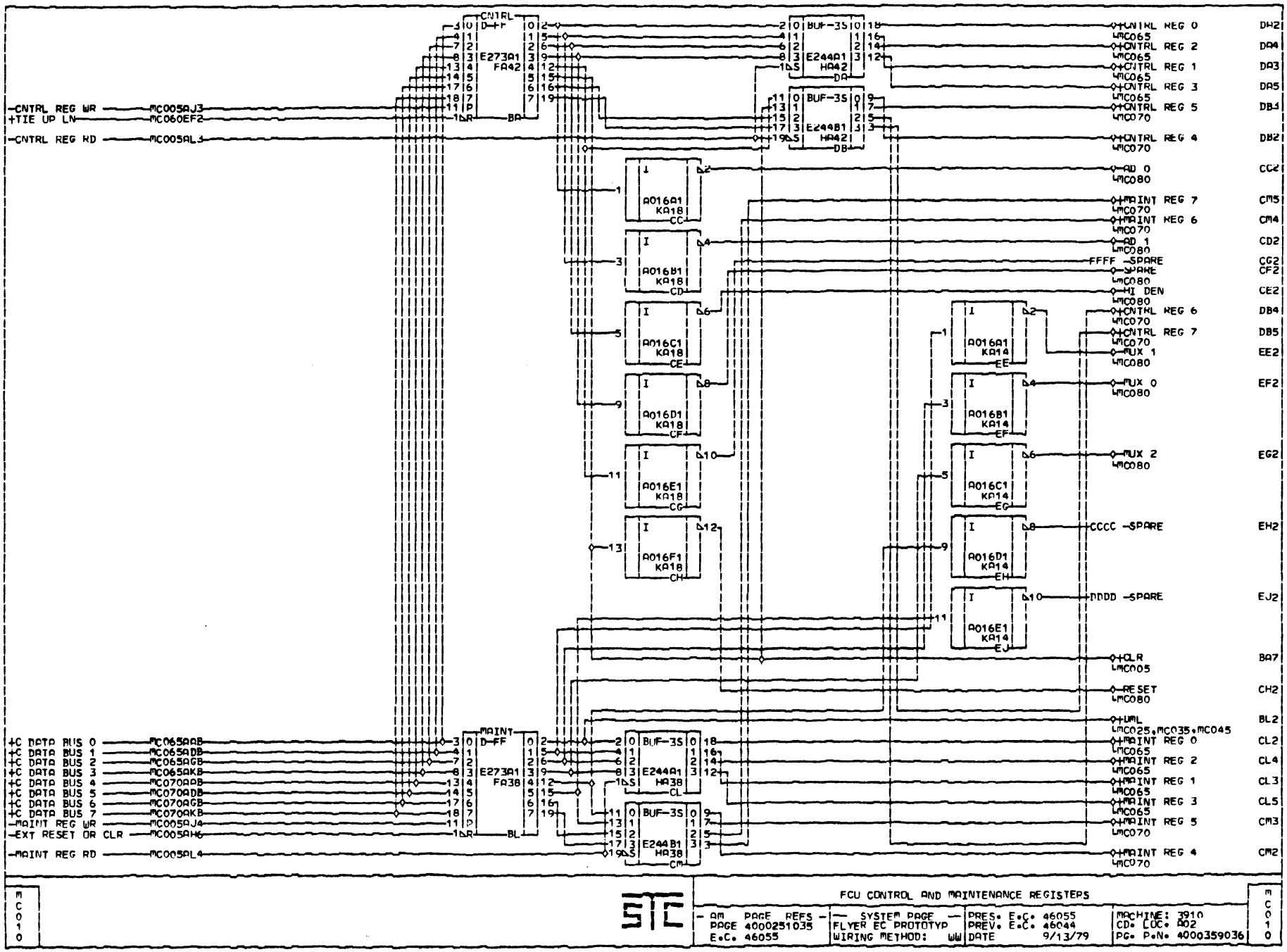
PRESENT EC 46069	DATE 12/02/80		CD PN	4000121055	PAGE 2 OF 2
PREV EC 46055	PAGE PN 4000057051	CD TYPE MC	FLEVEL	34559	

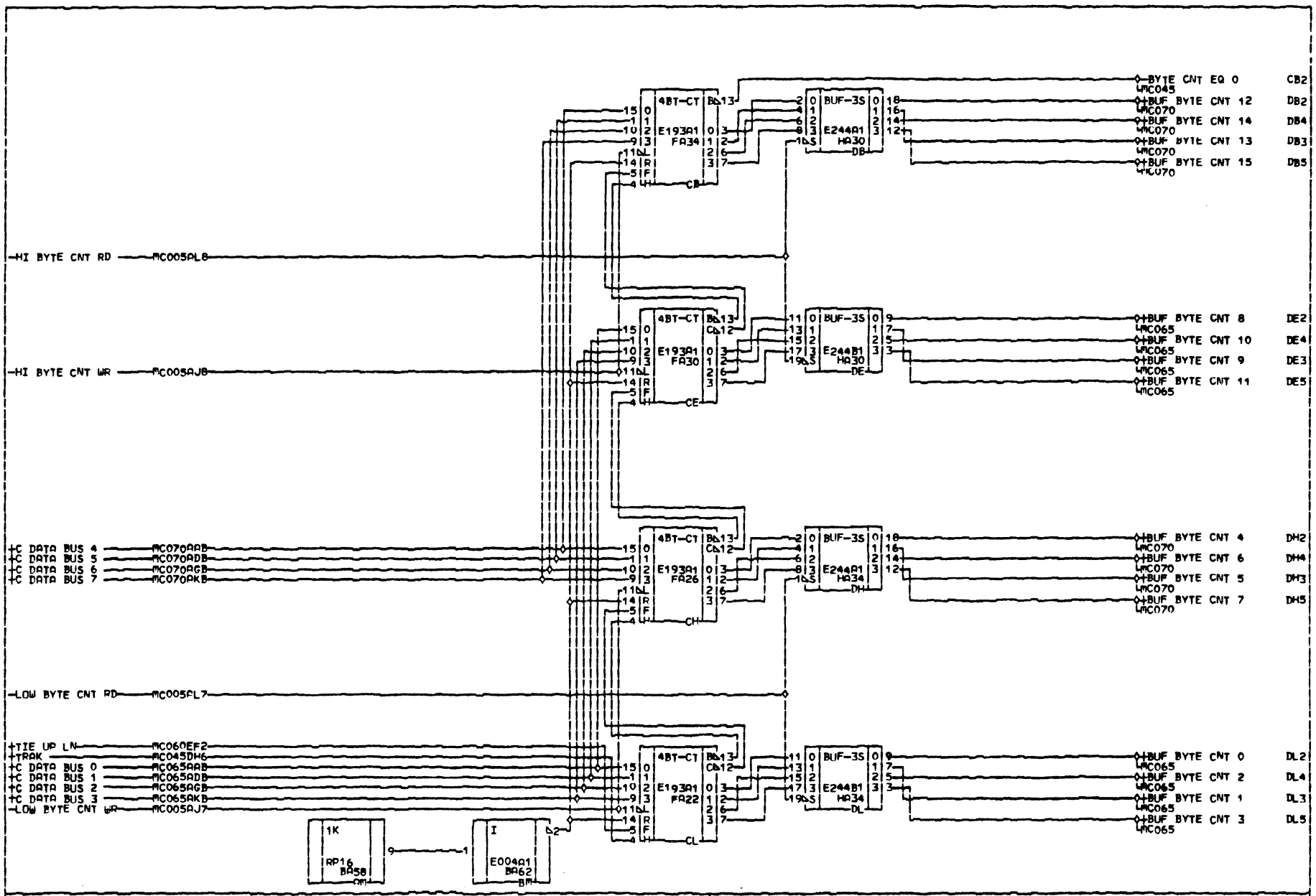
HMC1 12/02/80 12/02/80 PROF: PDDD516



FCU COMMAND REGISTER AND REGISTER ADDRESS DECODES

- DM PAGE REFS - PAGE 4000250029 E.C. 46055	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46055 PREV. E.C. 46001 DATE 9/13/79	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4000358020


FCU CONTROL AND MAINTENANCE REGISTERS
SYSTEM PAGE
PRES. E.C. 46055
PREV. E.C. 46044
DATE 9/13/79
MACHINE: 3910
CD. LOC. A02
PG. P.N. 4000359036
AM PAGE REFS
PAGE 4000251035
E.C. 46055
FLYER EC PROTOTYP
WIRING METHOD: WW
CNTRL REG WR
TIE UP LN
CNTRL REG RD
MAINT REG WR
EXT RESET OR CLR
MAINT REG RD
C DATA BUS 0
C DATA BUS 1
C DATA BUS 2
C DATA BUS 3
C DATA BUS 4
C DATA BUS 5
C DATA BUS 6
C DATA BUS 7
CNTRL REG 0
CNTRL REG 2
CNTRL REG 1
CNTRL REG 3
CNTRL REG 5
CNTRL REG 4
CNTRL REG 6
CNTRL REG 7
MAINT REG 7
MAINT REG 6
MUX 1
MUX 0
MUX 2
CCCC -SPARE
DDDD -SPARE
MAINT REG 0
MAINT REG 2
MAINT REG 1
MAINT REG 3
MAINT REG 5
MAINT REG 4
CLR
RESET
UML
HI DEN
FFFF -SPARE
AD 0
AD 1



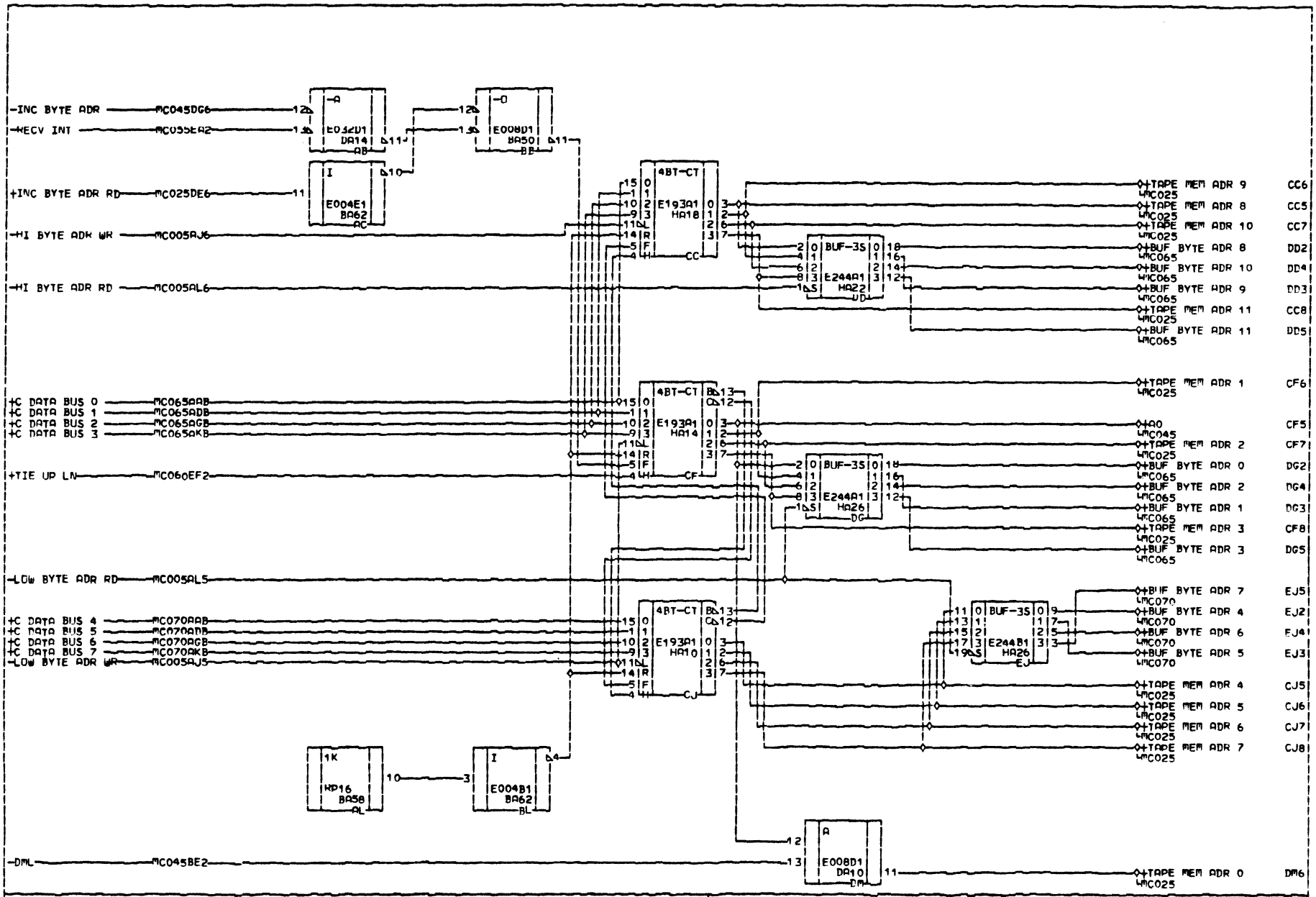
MC015

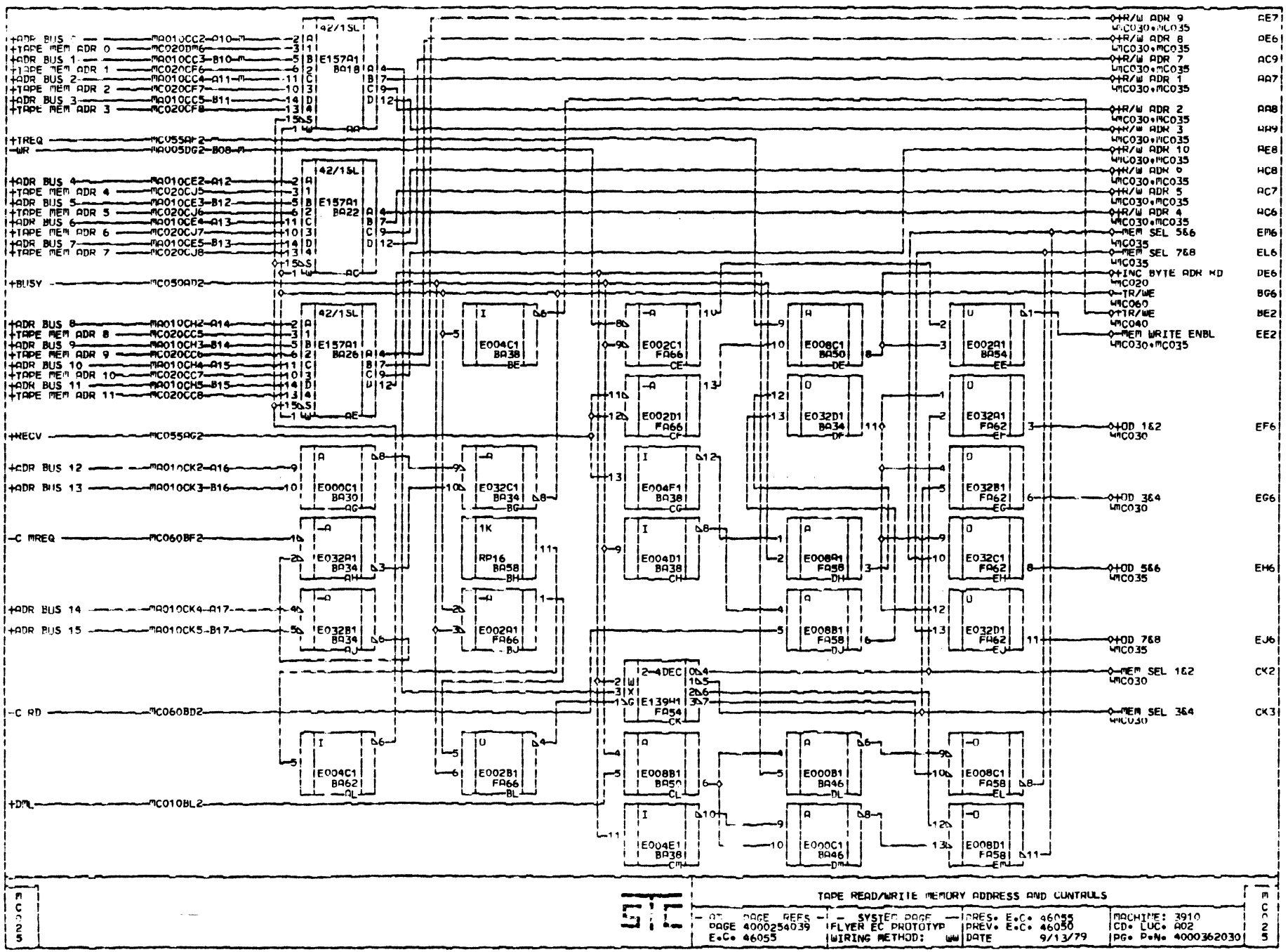
STC

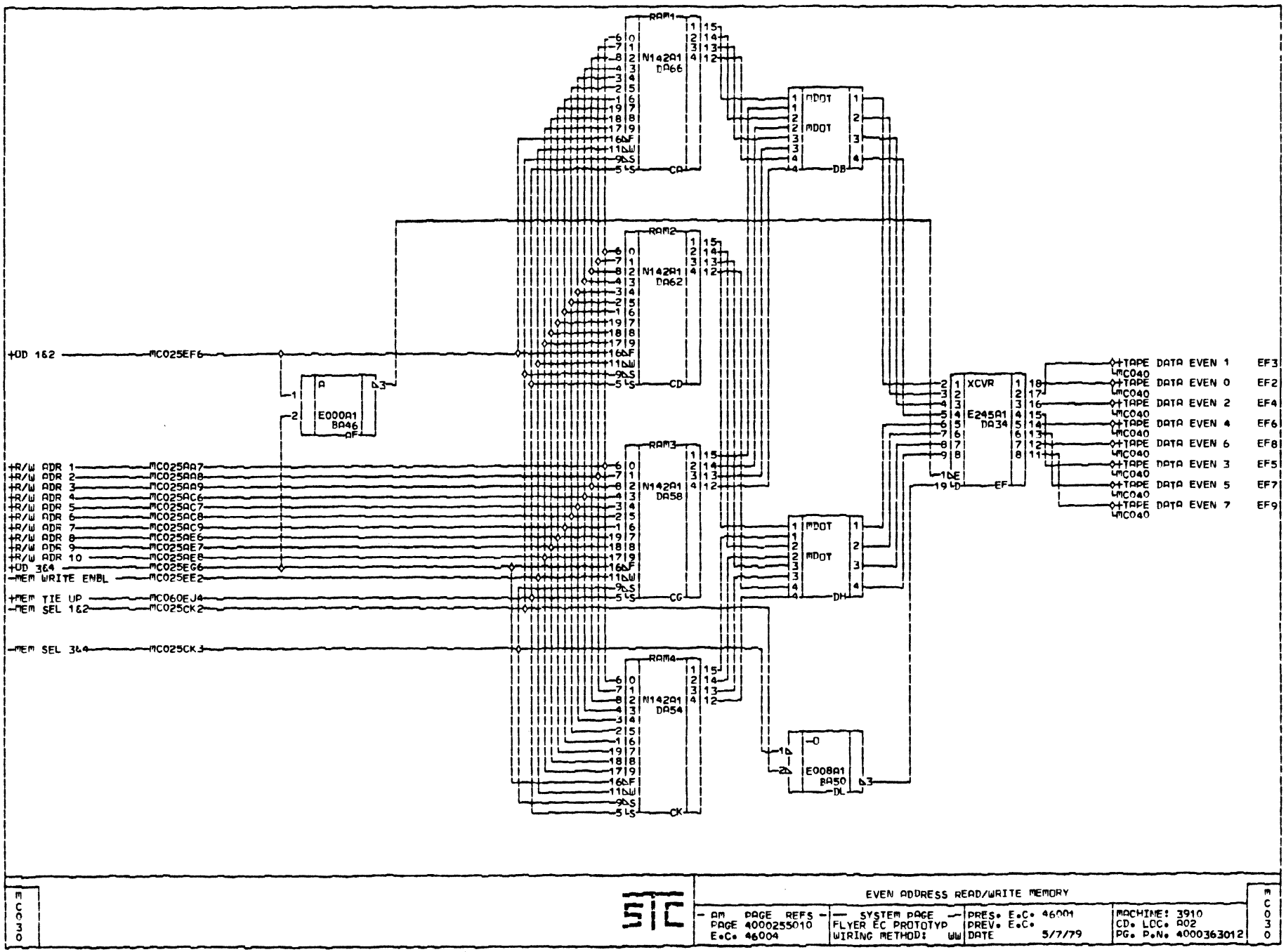
BYTE COUNT REGISTER

- DM PAGE REFS -	— SYSTEM PAGE —	PRES. E.C. 46001	MACHINE: 3910
PAGE 4000252017	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. A02
E.C. 46004	WIRING METHOD: WW	DATE 5/7/79	PG. P.N. 4000360018

MC015


-INC BYTE ADR
-RECV INT
+INC BYTE ADR RD
-HI BYTE ADR WR
-HI BYTE ADR RD
+C DATA BUS 0
+C DATA BUS 1
+C DATA BUS 2
+C DATA BUS 3
+TIE UP LN
-LOW BYTE ADR RD
+C DATA BUS 4
+C DATA BUS 5
+C DATA BUS 6
+C DATA BUS 7
-LOW BYTE ADR WR
-DML
4BT-CT
E193A1
HA18
HA14
HA10
BUF-3S
E244A1
HA22
HA26
E004E1
BA62
E004B1
E008D1
DA14
DA10
BA50
HP16
BA58
+TAPE MEM ADR 9
+TAPE MEM ADR 8
+TAPE MEM ADR 10
+BUF BYTE ADR 8
+BUF BYTE ADR 10
+BUF BYTE ADR 9
+TAPE MEM ADR 11
+BUF BYTE ADR 11
+TAPE MEM ADR 1
+A0
+TAPE MEM ADR 2
+BUF BYTE ADR 0
+BUF BYTE ADR 2
+BUF BYTE ADR 1
+TAPE MEM ADR 3
+BUF BYTE ADR 3
+BUF BYTE ADR 7
+BUF BYTE ADR 4
+BUF BYTE ADR 6
+BUF BYTE ADR 5
+TAPE MEM ADR 4
+TAPE MEM ADR 5
+TAPE MEM ADR 6
+TAPE MEM ADR 7
+TAPE MEM ADR 0
BYTE ADDRESS REGISTER
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD:
PRES. E.C. 46055
PREV. E.C. 46001
DATE 9/13/79
MACHINE: 3910
CD. LOC. A02
PG. P.N. 4000361024
AM PAGE REFS
PAGE 4000253023
E.C. 46055


TAPE READ/WRITE MEMORY ADDRESS AND CONTROLS
MACHINE: 3910
CD: LUC: A02
PG: P.No: 4000362030
PRES: E.C: 46055
PREV: E.C: 46050
DATE 9/13/79
PAGE 4000254039
E.C: 46055
FLYER EC PROTOTYP
WIRING METHOD: WW

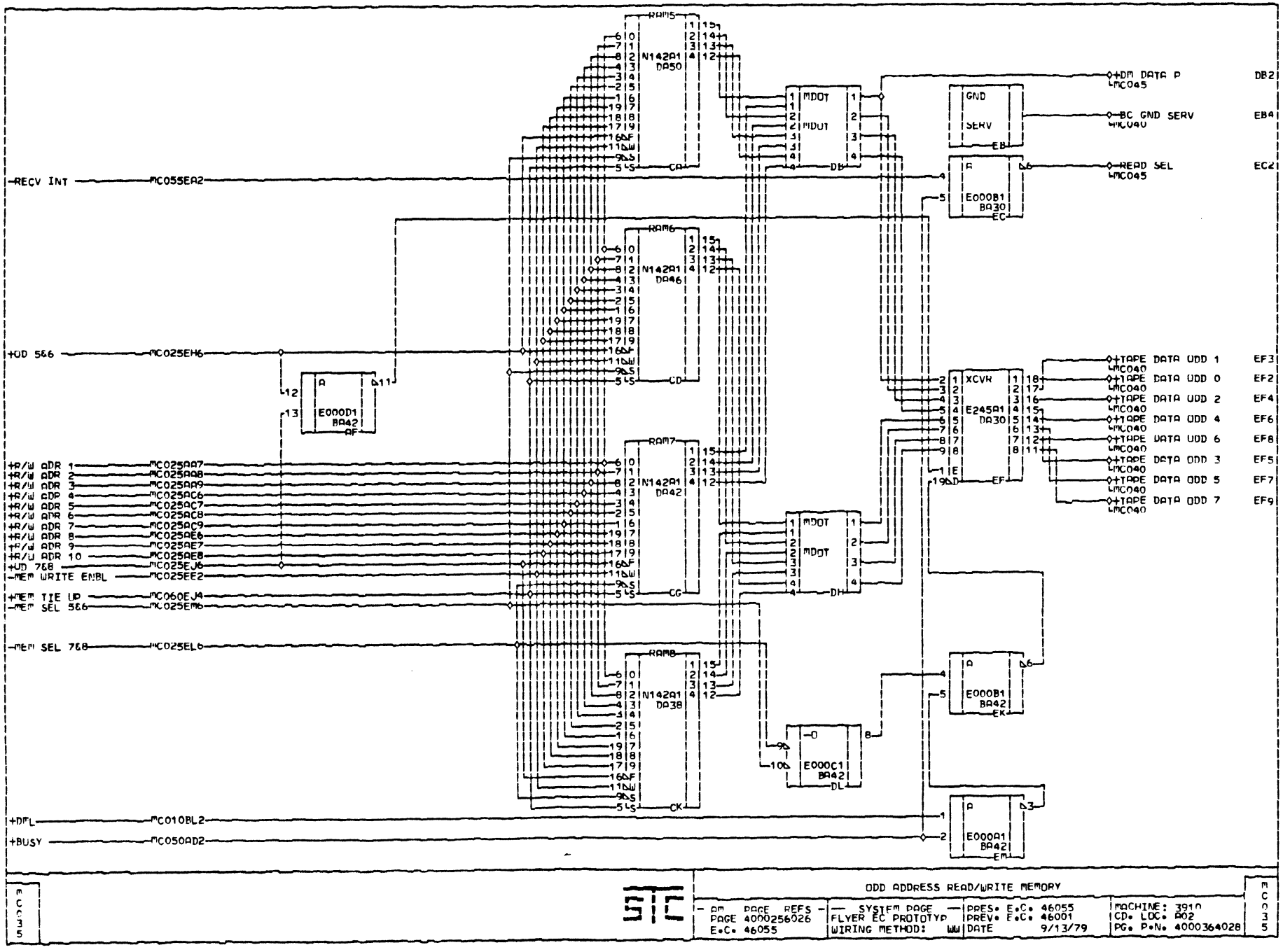


EC030

EVEN ADDRESS READ/WRITE MEMORY

— AM PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46004	MACHINE: 3910
PAGE 4000255010	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. A02
E.C. 46004	WIRING METHOD: WW	DATE 5/7/79	PG. P.N. 4000363012

EC030

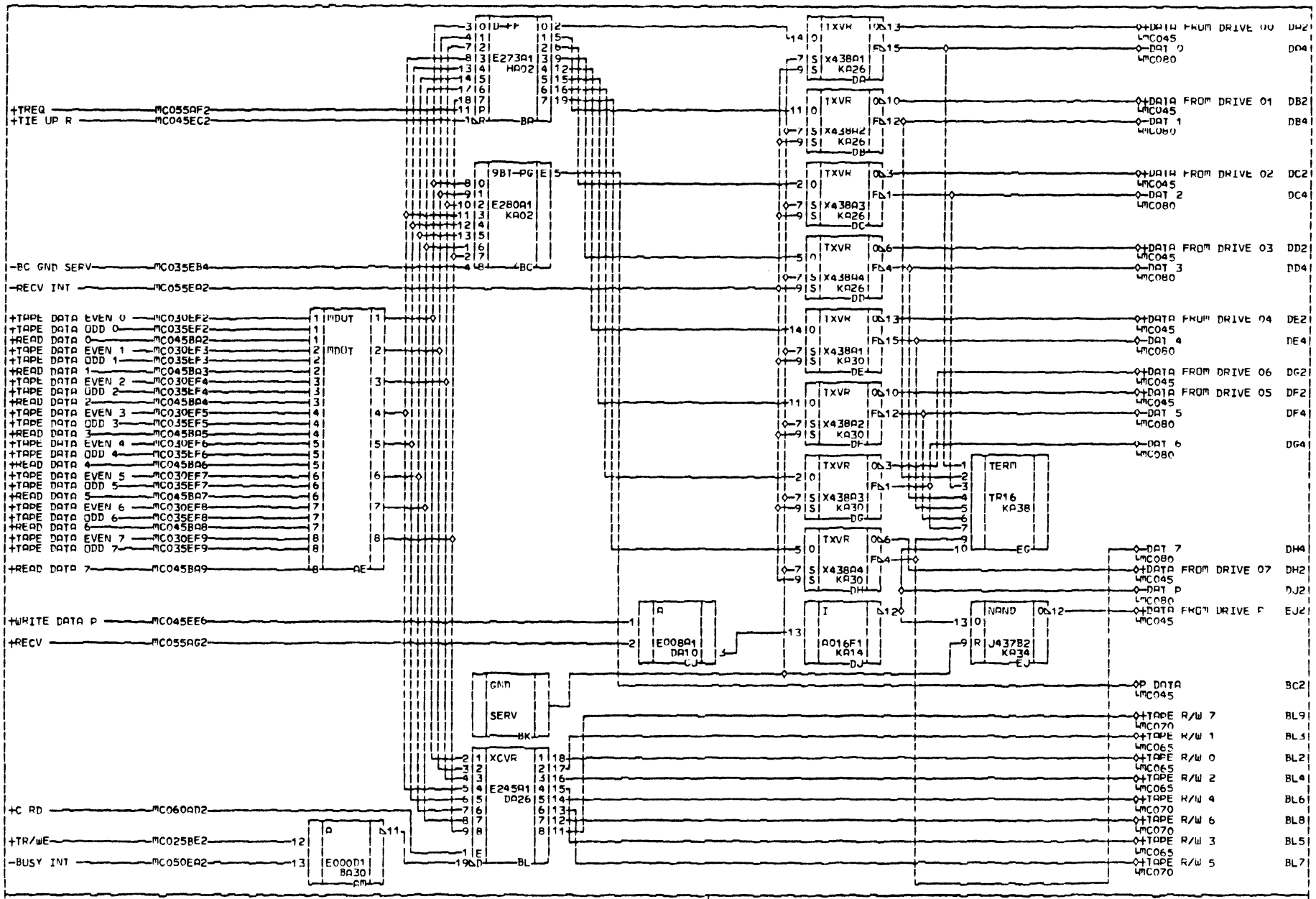


ODD ADDRESS READ/WRITE MEMORY

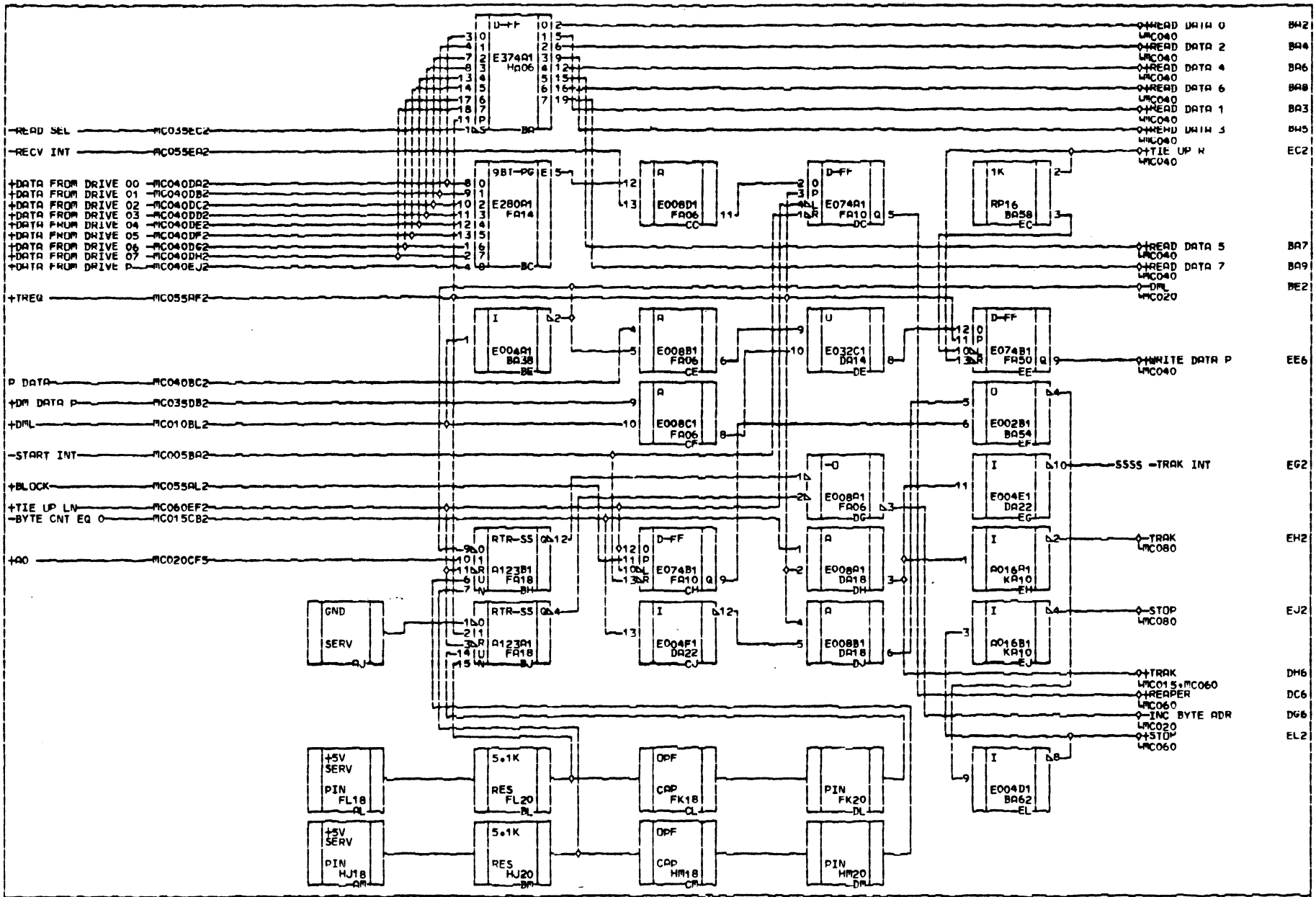
DM PAGE REFS	SYSTEM PAGE	PRES. E.C. 46055	MACHINE: 3910
PAGE 4000256026	FLYER EC PROTOTYP	PREV. E.C. 46001	CD. LOC. D02
E.C. 46055	WIRING METHOD: WW	DATE 9/13/79	PG. P.N. 4000364028

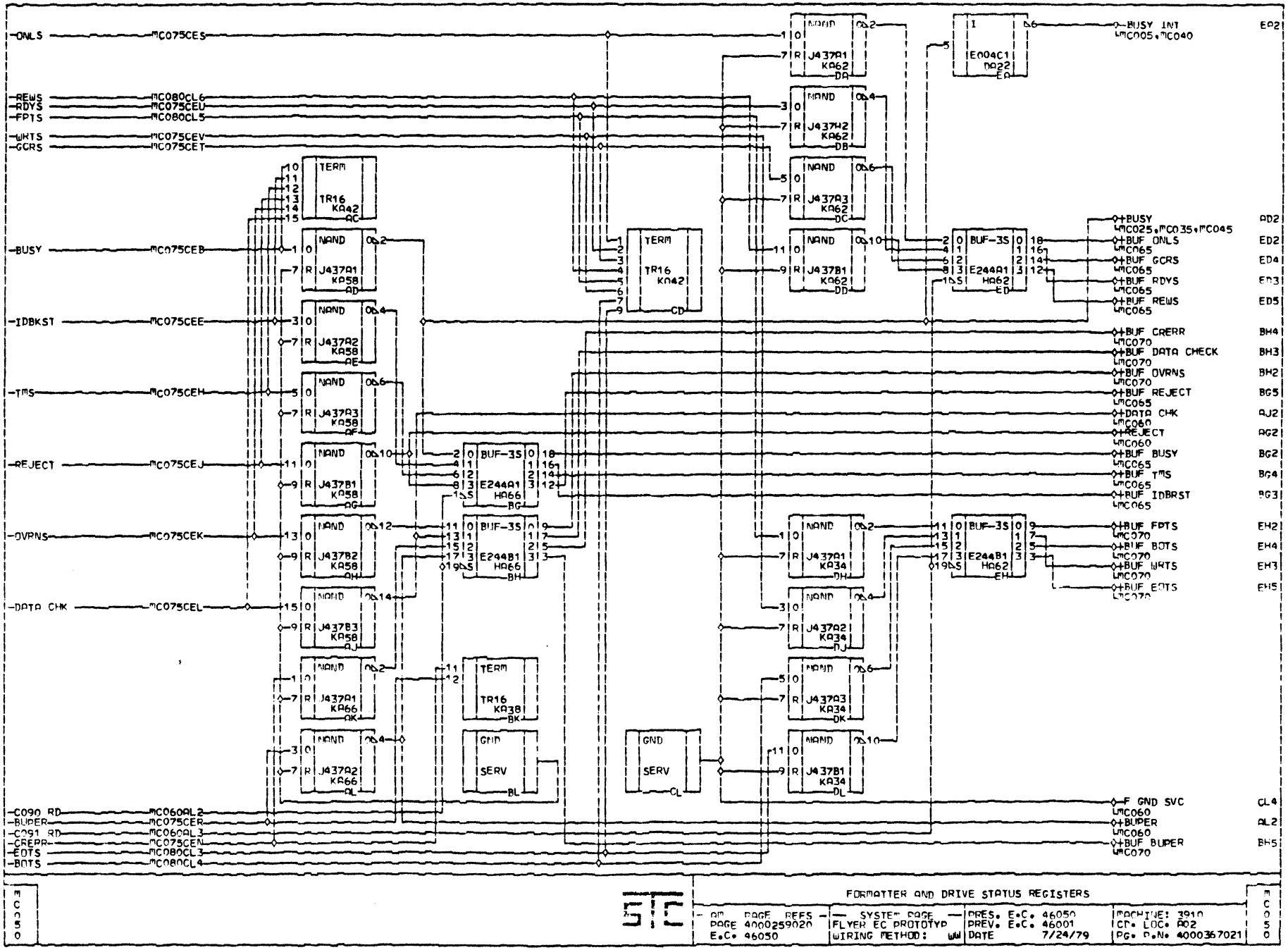
MC035

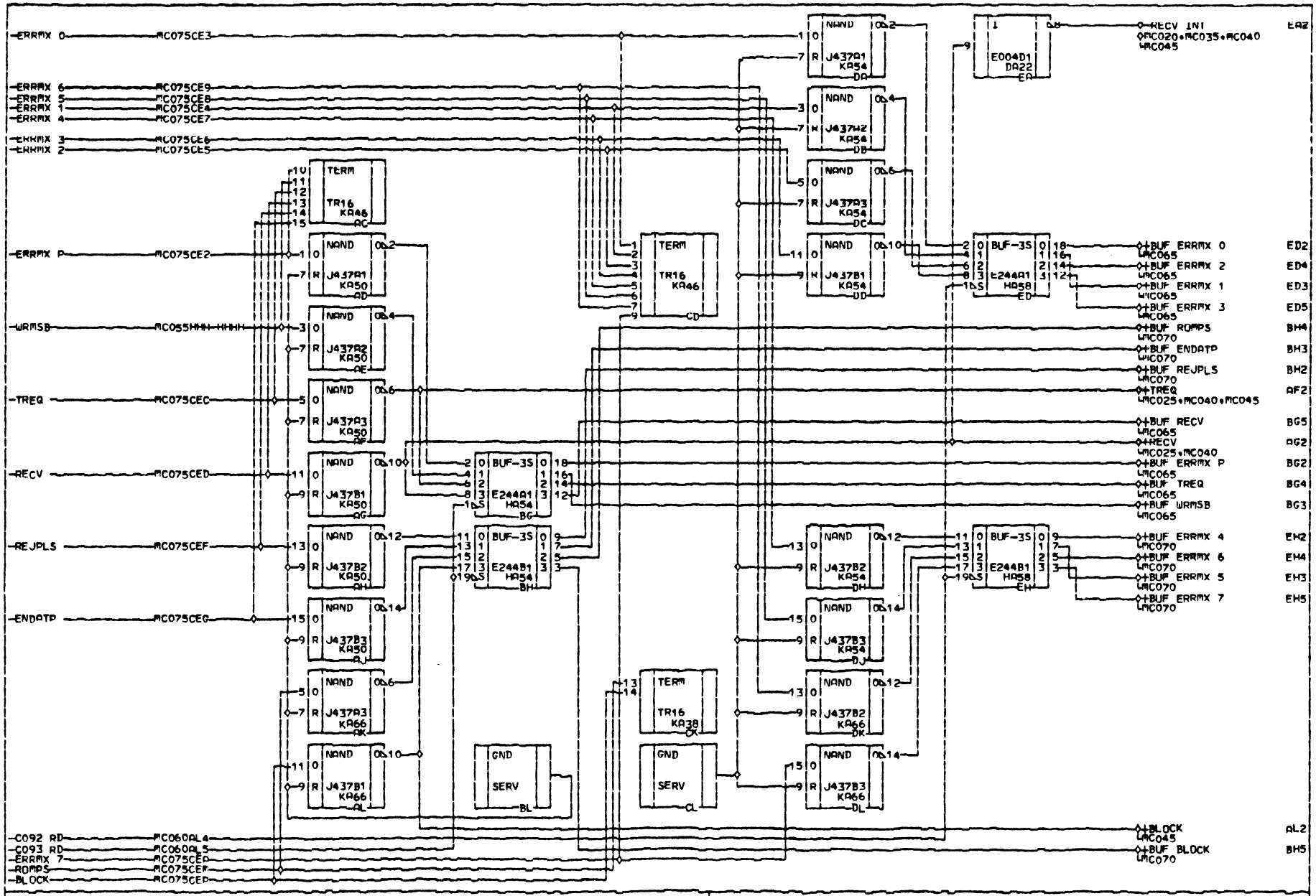
HMC1 09/13/79



MC040	READ/WRITE DATA BUFFERING AND TAPE DATA XCVRS				MC040
	AM PAGE REFS — PAGE 4000257024 E.C. 46055	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PREV. E.C. 46055 PREV. E.C. 46001 DATE 9/13/79	MACHINE: 3910 CD. LOC. A02 PG. P.No. 4000365025	


PARITY READ CHECK+TREQ AND TRAK
MC045
STC
AM PAGE REFS
PAGE 4000258048
E.C. 46069
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. EC46069
PREV. E.C. EC46055
DATE 08/20/80
MACHINE: 3910
CD. LOC. A02**
PG. P.N. 4000366049
MC045


-ONLS MC075CES
-REWS MC080CL6
-RDYS MC075CEU
-FPTS MC080CL5
-WRTS MC075CEV
-GCRS MC075CET
-BUSY MC075CEB
-IDBKST MC075CEE
-TMS MC075CEH
-REJECT MC075CEJ
-OVRNS MC075CEK
-DATA CHK MC075CEL
-C090 RD MC060AL2
-BUPER MC075CER
-C091 RD MC060AL3
-CREPR MC075CEN
-EDTS MC080CL3
-BDTS MC080CL4
NAND J437A1 KA62 DA
NAND J437A2 KA62 DB
NAND J437A3 KA62 DC
NAND J437B1 KA62 DD
I E004C1 DA22 EA
BUSY INT MC005,MC040
TERM TR16 KA42 AC
NAND J437A1 KA58 AD
NAND J437A2 KA58 AE
NAND J437A3 KA58 AF
NAND J437B1 KA58 AG
NAND J437B2 KA58 AH
NAND J437B3 KA58 AJ
NAND J437A1 KA66 AK
NAND J437A2 KA66 AL
TERM TR16 KA42 CD
BUF-3S E244A1 HA66 BG
BUF-3S E244B1 HA66 BH
TERM TR16 KA38 BK
GND SERV BL
GND SERV CL
NAND J437A1 KA34 DH
NAND J437A2 KA34 DJ
NAND J437A3 KA34 DK
NAND J437B1 KA34 DL
BUF-3S E244A1 HA62 ED
BUF-3S E244B1 HA62 EH
BUSY MC025,MC035,MC045 AD2
BUF ONLS MC065 ED2
BUF GCRS MC065 ED4
BUF RDYS MC065 ED3
BUF REWS MC065 ED5
BUF CRERR MC070 BH4
BUF DATA CHECK MC070 BH3
BUF OVRNS MC070 BH2
BUF REJECT MC065 BG5
DATA CHK MC060 AJ2
REJECT MC060 AG2
BUF BUSY MC065 BG2
BUF TMS MC065 BG4
BUF IDBRST MC065 BG3
BUF FPTS MC070 EH2
BUF BDTS MC070 EH4
BUF WRTS MC070 EH3
BUF EDTS MC070 EH5
F GND SVC MC060 CL4
BUPER MC060 AL2
BUF BUPER MC070 BH5
FORMATTER AND DRIVE STATUS REGISTERS
DP PAGE REFS
PAGE 4000259020
E.C. 46050
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. 46050
PREV. E.C. 46001
DATE 7/24/79
MACHINE: 3910
CP. LOC. A02
PG. P.N. 4000367021

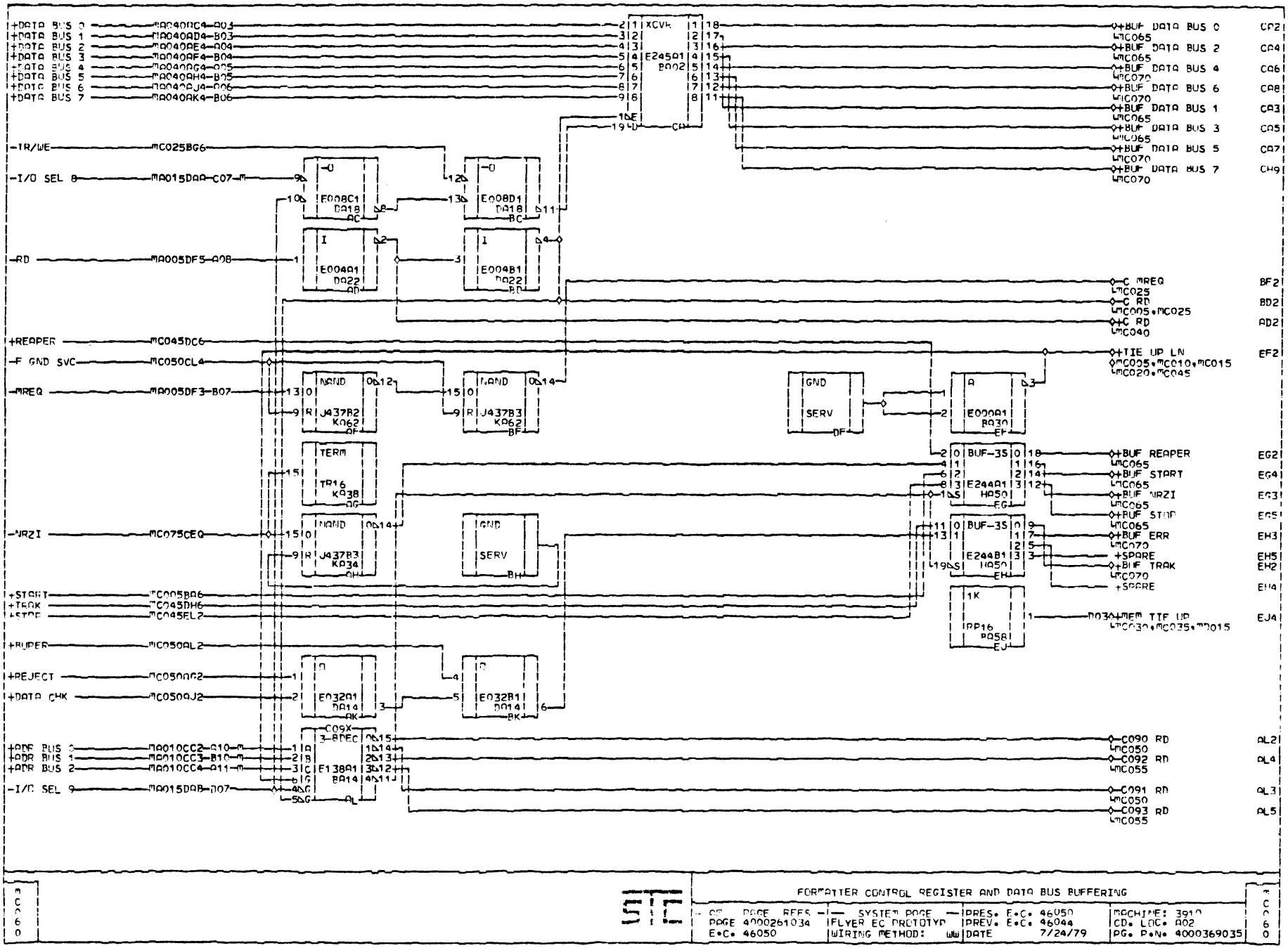


MCOSS

ERROR MUX AND FORMATTER STATUS REGISTERS

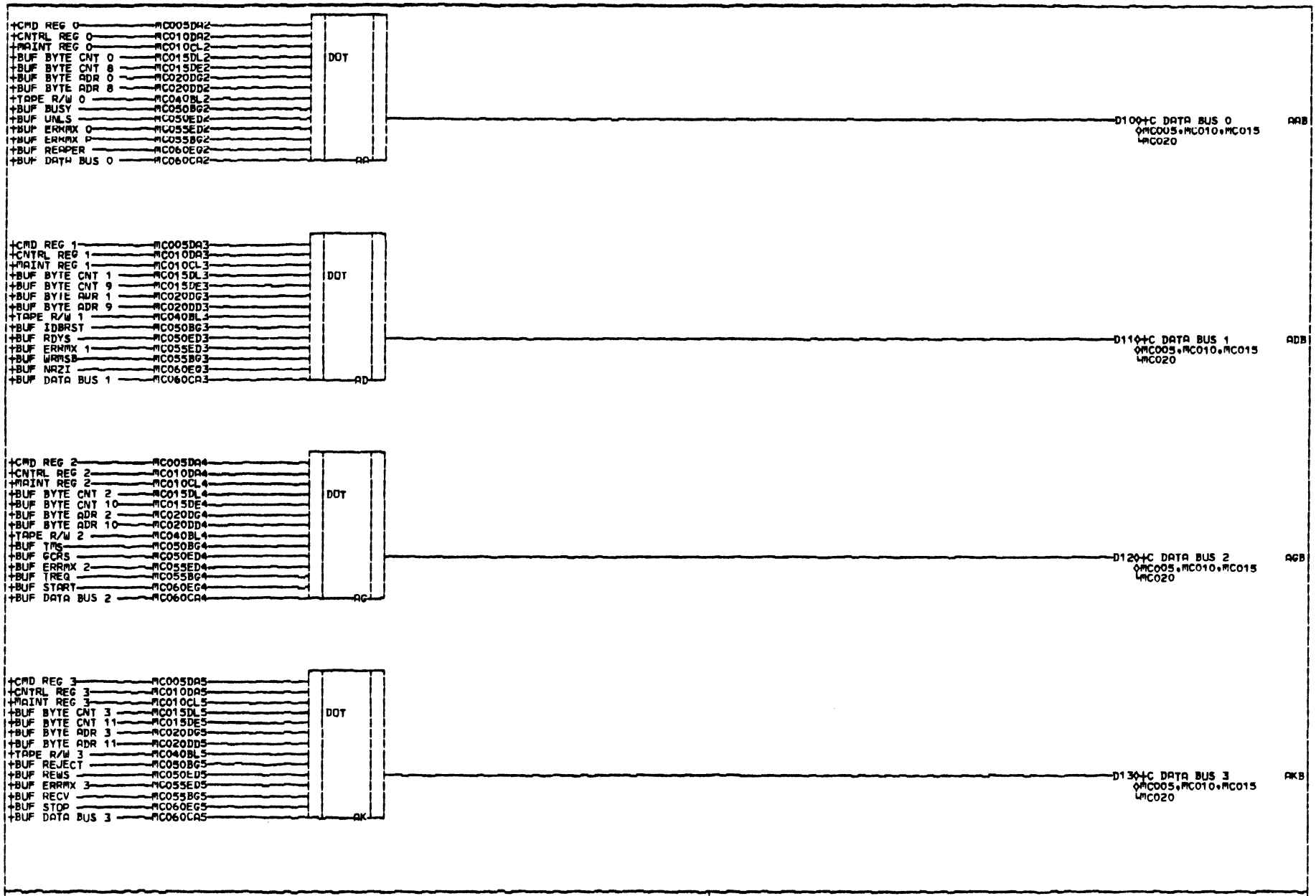
AM PAGE REFS	SYSTEM PAGE	PRES. E.C. EC46069	MACHINE: 3910
PAGE 4000260036	FLYER EC PROTOTYP	PREV. E.C. EC46055	CD. LOC. A02**
E.C. 46069	WIRING METHOD: WW	DATE 08/20/80	PG. P.NO. 4000368037

MCOSS

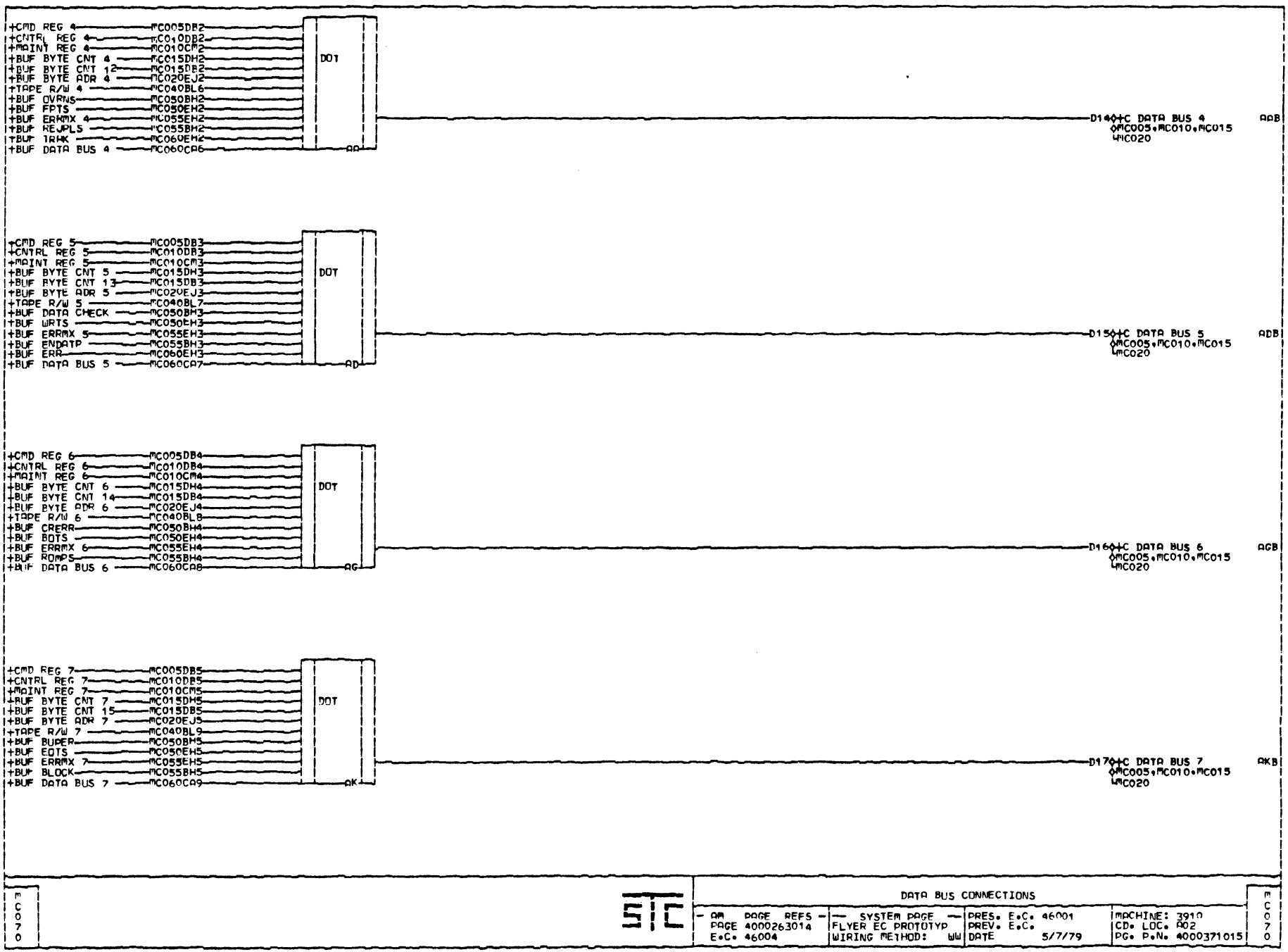


FORMATTER CONTROL REGISTER AND DATA BUS BUFFERING

OP. PAGE REFS	SYSTEM PAGE	PRES. E.C. 46050	MACHINE: 3910
PAGE 4000261034	FLYER EC PROTOTYP	PREV. E.C. 46044	CD. LOC. A02
E.C. 46050	WIRING METHOD: ww	DATE 7/24/79	PG. P.N. 4000369035



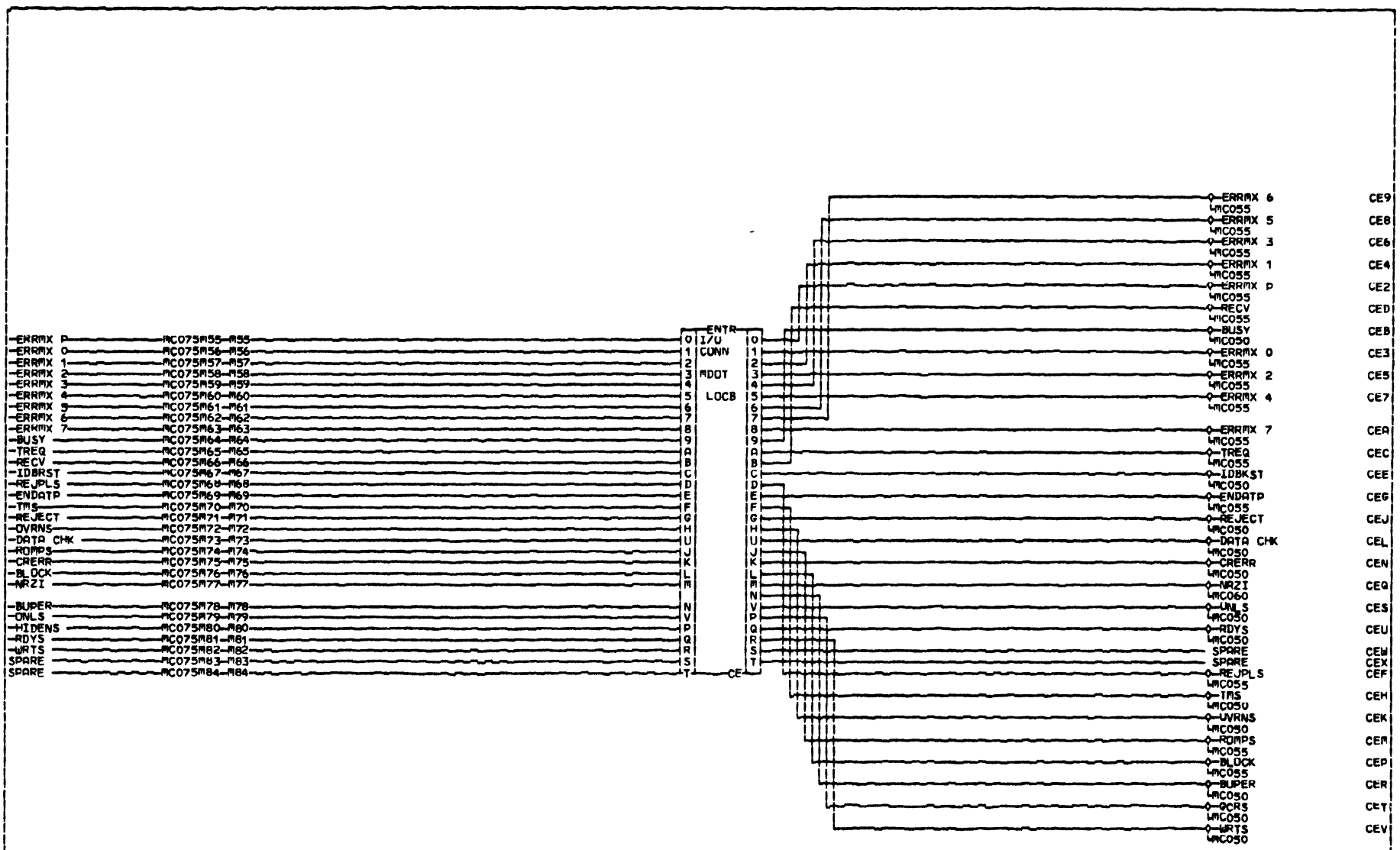
MC065	DATA BUS CONNECTIONS				MC065
– AM PAGE REFS – PAGE 4000262024 E.C. 46035	– SYSTEM PAGE – FLYER EC PROTUTYP WIRING METHOD: WW	PRES. E.C. 46044 PREV. E.C. 46001 DATE 7/11/79	MACHINE: 3910 CD. LOC. AG2 PG. P.N. 4000370025		



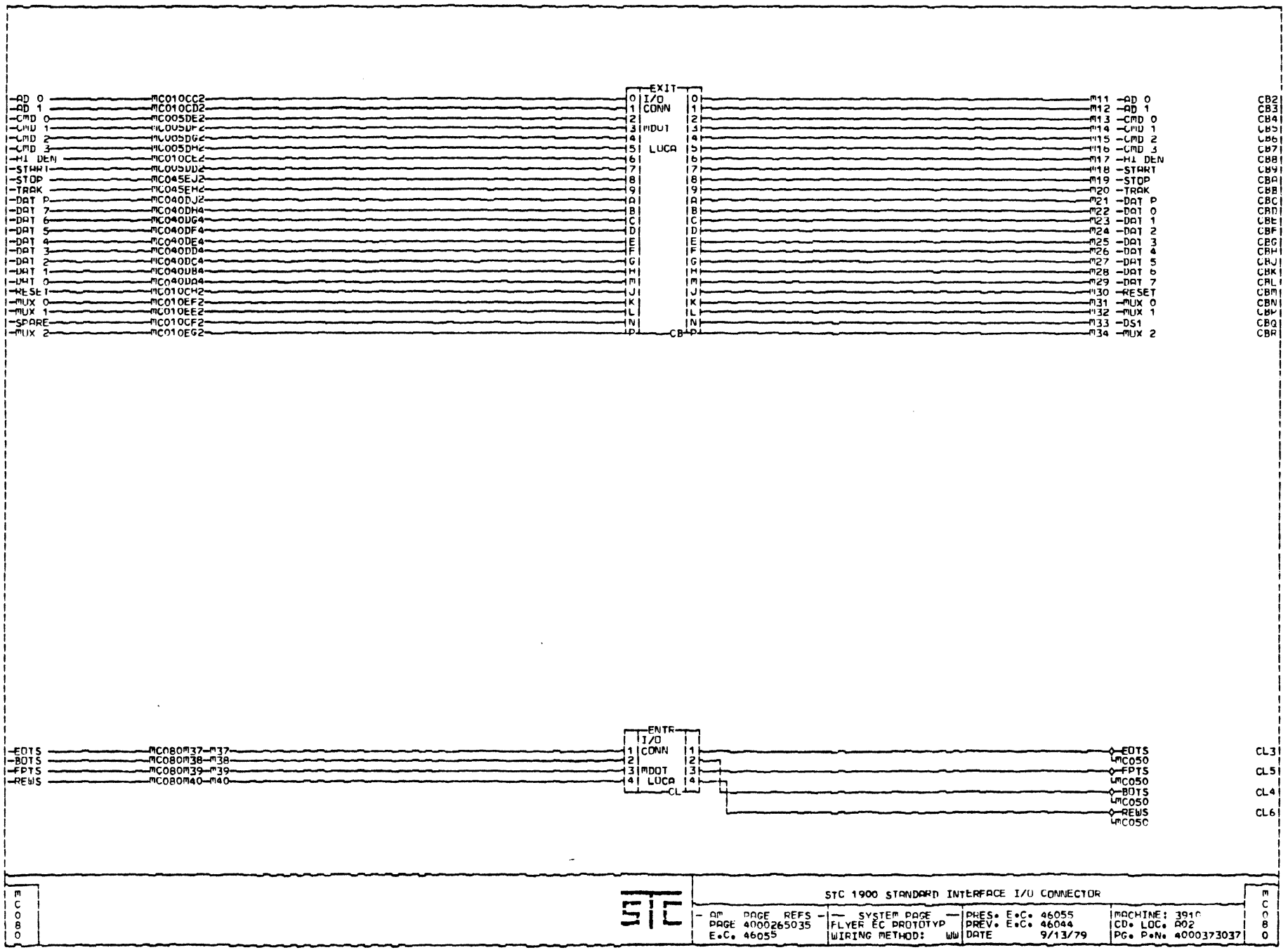
DATA BUS CONNECTIONS

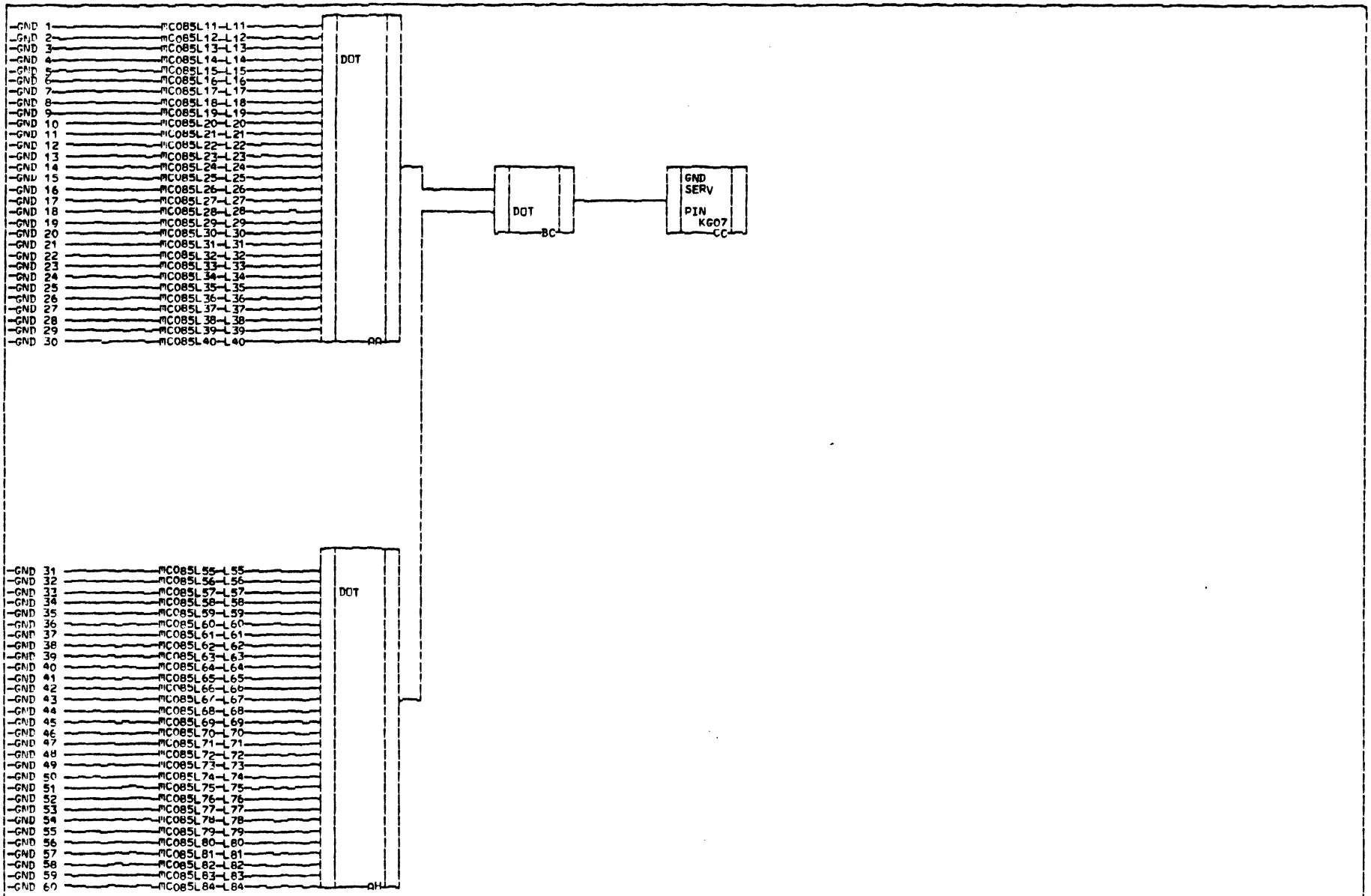
— AM PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46001	MACHINE: 3910
PAGE 4000263014	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. A02
E.C. 46004	WIRING METHOD: WW	DATE 5/7/79	PG. P.N. 4000371015

HMC1 05/11/79



MC075	STC 1900 STANDARD INTERFACE I/O CONNECTOR				MC075
- AM PAGE REFS - PAGE 4000264020 E.C. 46035	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46044 PREV. E.C. 46001 DATE 7/11/79	MACHINE: 3910 CD. LOC. A02 PG. P.NO. 4000372021		


EXIT
I/O CONN
MDOT
LUCA
CB
-AD 0 MC010CC2 0 M11 -AD 0 CB2
-AD 1 MC010CD2 1 M12 -AD 1 CB3
-CMD 0 MC005DE2 2 M13 -CMD 0 CB4
-CMD 1 MC005DF2 3 M14 -CMD 1 CB5
-CMD 2 MC005DG2 4 M15 -CMD 2 CB6
-CMD 3 MC005DH2 5 M16 -CMD 3 CB7
-HI DEN MC010CE2 6 M17 -HI DEN CB8
-START MC005DD2 7 M18 -START CB9
-STOP MC045EJ2 8 M19 -STOP CBA
-TRAK MC045EH2 9 M20 -TRAK CBB
-DAT P MC040DJ2 A M21 -DAT P CBC
-DAT 7 MC040DH4 B M22 -DAT 0 CBD
-DAT 6 MC040DG4 C M23 -DAT 1 CBE
-DAT 5 MC040DF4 D M24 -DAT 2 CBF
-DAT 4 MC040DE4 E M25 -DAT 3 CBG
-DAT 3 MC040DD4 F M26 -DAT 4 CBH
-DAT 2 MC040DC4 G M27 -DAT 5 CBJ
-DAT 1 MC040DB4 H M28 -DAT 6 CBK
-DAT 0 MC040DA4 M M29 -DAT 7 CBL
-RESET MC010CH2 J M30 -RESET CBM
-MUX 0 MC010EF2 K M31 -MUX 0 CBN
-MUX 1 MC010EE2 L M32 -MUX 1 CBP
-SPARE MC010CF2 N M33 -DS1 CBQ
-MUX 2 MC010EG2 P M34 -MUX 2 CBR
ENTR
I/O CONN
MDOT
LUCA
CL
-EDTS MC080M37-M37 1 EDTS LMC050 CL3
-BDTS MC080M38-M38 2
-FPTS MC080M39-M39 3 FPTS LMC050 CL5
-REWS MC080M40-M40 4 BDTS LMC050 CL4
REWS LMC050 CL6
STC 1900 STANDARD INTERFACE I/O CONNECTOR
AM PAGE REFS
PAGE 4000265035
E.C. 46055
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. 46055
PREV. E.C. 46044
DATE 9/13/79
MACHINE: 3910
CD. LOC. A02
PG. P.N. 4000373037



STC 1900 STANDARD INTERFACE SIGNAL GROUNDS

— DP PAGE REFS —	— SYSTEM PAGE —	PRES. E.C. 46001	MACHINE: 3910	MC0855
PAGE 4000266017	FLYER EC PROTOTYP	PREV. E.C.	CD. LOC. A02	
E.C. 46004	WIRING METHOD: WW	DATE 5/7/79	PG. P.N. 4000374019	

HMC1 05/11/79

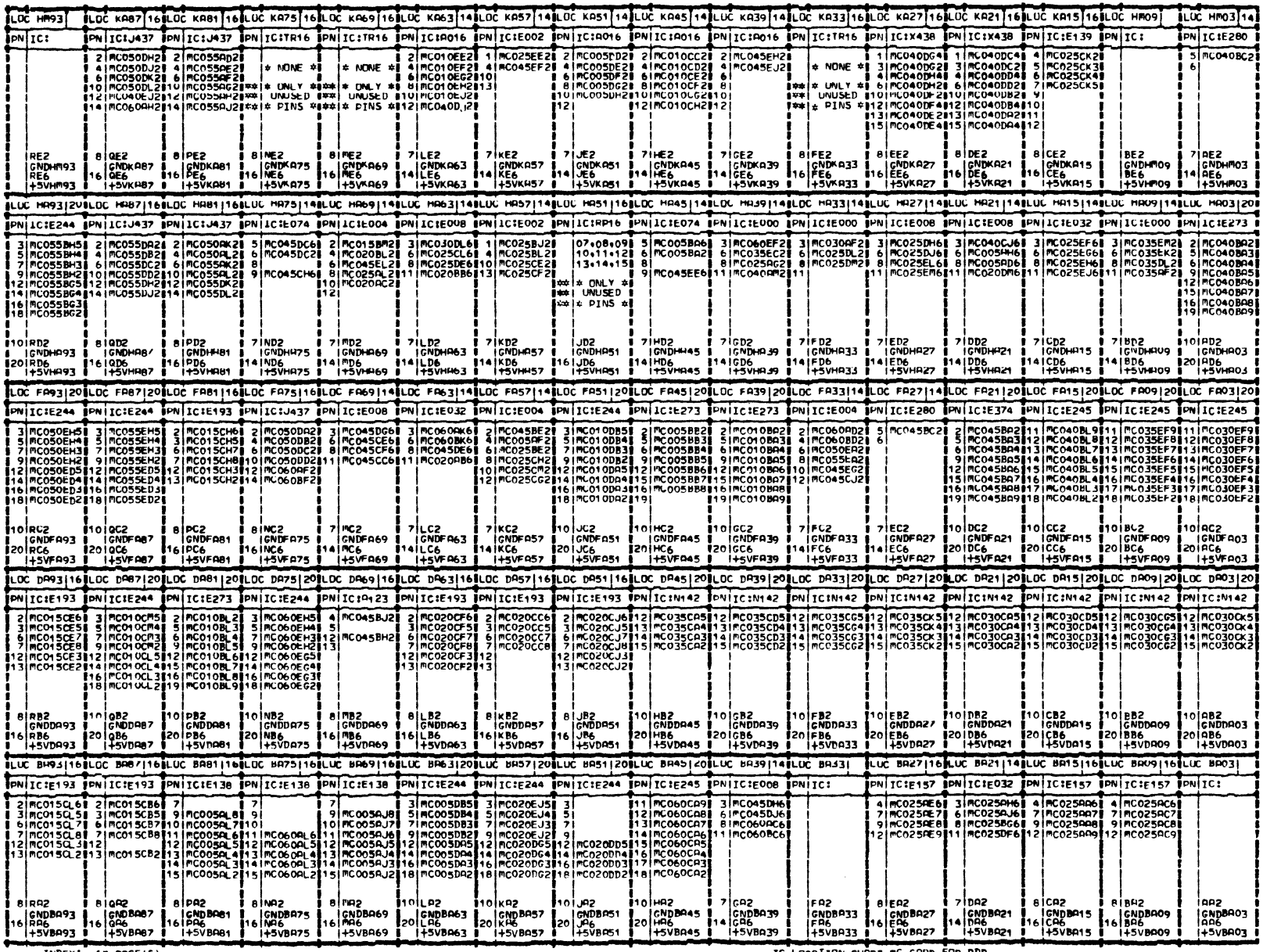
BUILD ARC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E.C.
03-02-81	1	46069

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	401304001	1	A	N	SYS LGC GP,MC400012205,PC	N	REL	12-10-30	3910	12-10-80

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	000	01	400040201	0		REF	PC	CD LGC,AM861,MC,PC	D						
	005	01	401304101	9		REF	PC	SYS LGC,MC005,PC	D						
	010	01	401304201	7		REF	PC	SYS LGC,MC010,PC	D						
	015	01	401304301	5		REF	PC	SYS LGC,MC075,PC	D						
	020	01	401304401	3		REF	PC	SYS LGC,MC20,PC	D						
	025	01	401304501	0		REF	PC	SYS LGC,MC025,PC	D						
	030	01	401304601	8		REF	PC	SYS LGC,MC030,PC	D						
	035	01	401304701	6		REF	PC	SYS LGC,MC035,PC	D						
	040	01	401304801	4		REF	PC	SYS LGC,MC040,PC	D						
	045	01	401304901	2		REF	PC	SYS LGC,MC045,PC	D						
	050	01	401305001	0		REF	PC	SYS LGC,MC050,PC	D						
	055	01	401305101	8		REF	PC	SYS LGC,MC055,PC	D						
	060	01	401305201	6		REF	PC	SYS LGC,MC060,PC	D						
	065	01	401305301	4		REF	PC	SYS LGC,MC065,PC	D						
	070	01	401305401	2		REF	PC	SYS LGC,MC070,PC	D						
	075	01	401305501	9		REF	PC	SYS LGC ,MC075,PC	D						
	080	01	401305601	7		REF	PC	SYS LGC,MC080,PC	D						
	085	01	401305701	5		REF	PC	SYS LGC,MC085,PC	D						
	500	01	400012205	3		REF	PC	CKT CD,MC,PC ASSY	S						


LOC HM93
LOC KA87
LOC KA81
LOC KA75
LOC KA69
LOC KA63
LOC KA57
LOC KA51
LOC KA45
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LOC KA27
LOC KA21
LOC KA15
LOC HM09
LOC HM03
LOC HM93
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LOC KA63
LOC KA57
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LOC KA21
LOC KA15
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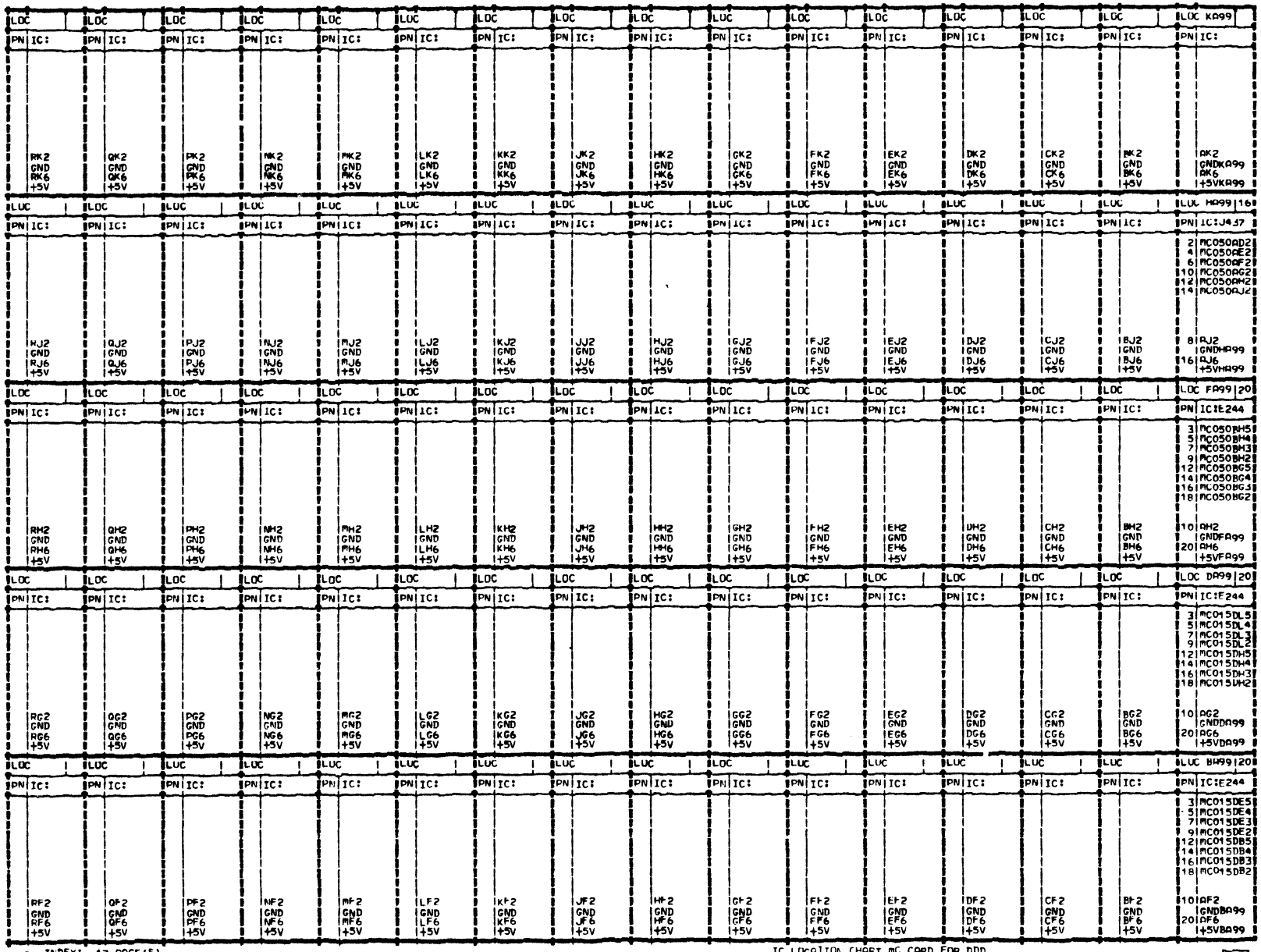
LOC BA33
LOC BA27
LOC BA21
LOC BA15
LOC BA09
LOC BA03
INDEX: 17 PAGE(S)
IC LOCATION CHART MC CARD FOR DDD
PRESENT EC 46069
DATE 12/2/80
CD PN 4000122053
PREV EC
PAGE PN 4000482010 CD TYPE MC
FLEVEL 34559
PAGE 1 OF 2
HMCP 12/02/80 12/02/80 PROF: PPCM1RXF



INDEX: 17 PAGE(S)

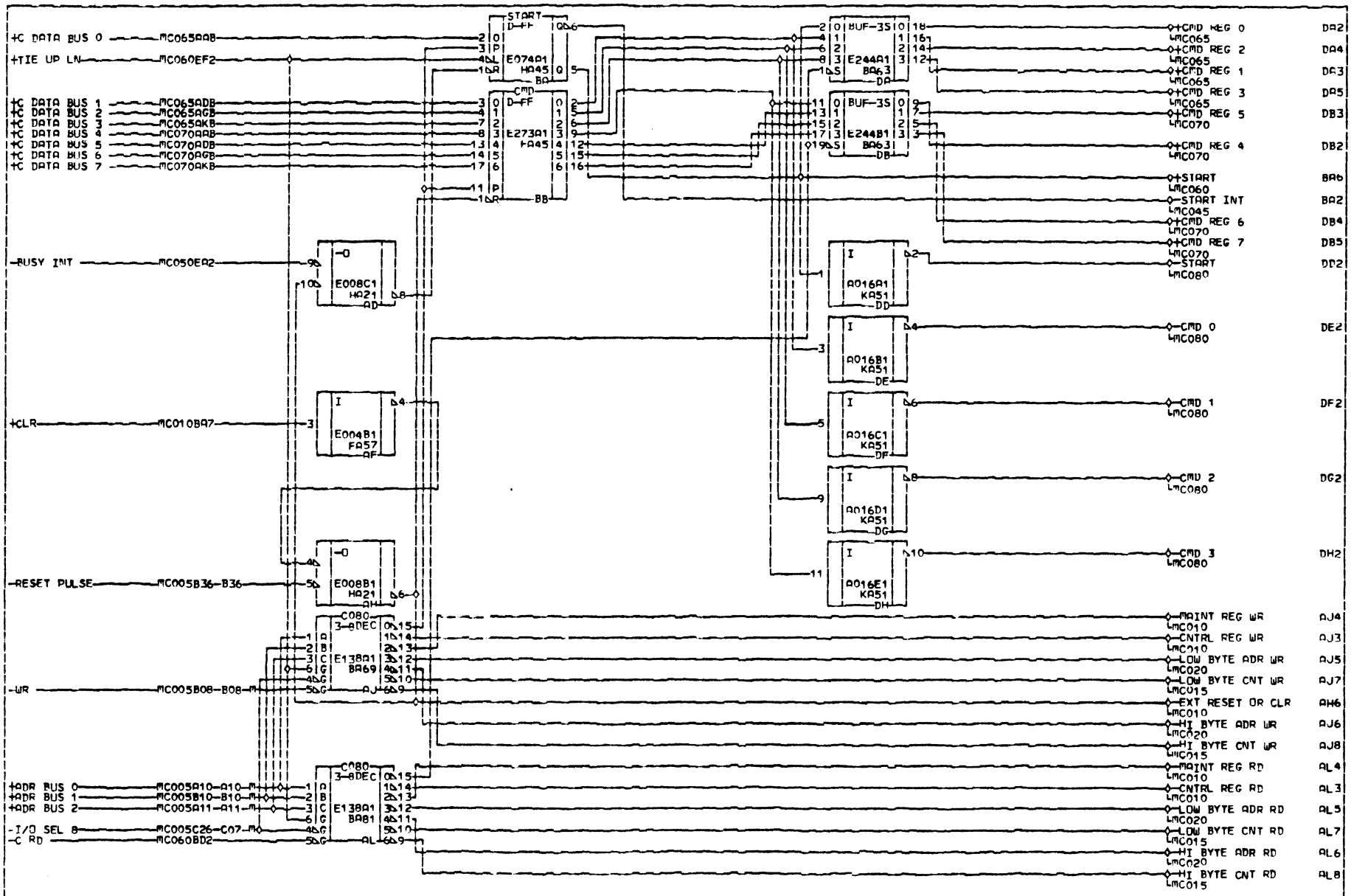
PAGE	CRD PG P/N	EC LEVEL
MC005	4000267015	46069
MC010	4000268013	46069
MC015	4000269011	46069
MC020	4000270019	46069
MC025	4000271017	46069
MC030	4000272015	46069
MC035	4000273013	46069
MC040	4000274011	46069
MC045	4000457012	46069
MC050	4000458010	46069
MC055	4000459018	46069
MC060	4000460016	46069
MC065	4000461014	46069
MC070	4000462012	46069
MC075	4000463010	46069
MC080	4000464018	46069
MC085	4000483018	46069

IC LOCATION CHART MC CARD FOR DDN

PRESENT EC 46069	DATE 12/2/80	CD PN	4000122053
PREV EC	PAGE PN 4000482010 CD TYPE MC	FLEVEL	34559

PAGE 2 OF 2

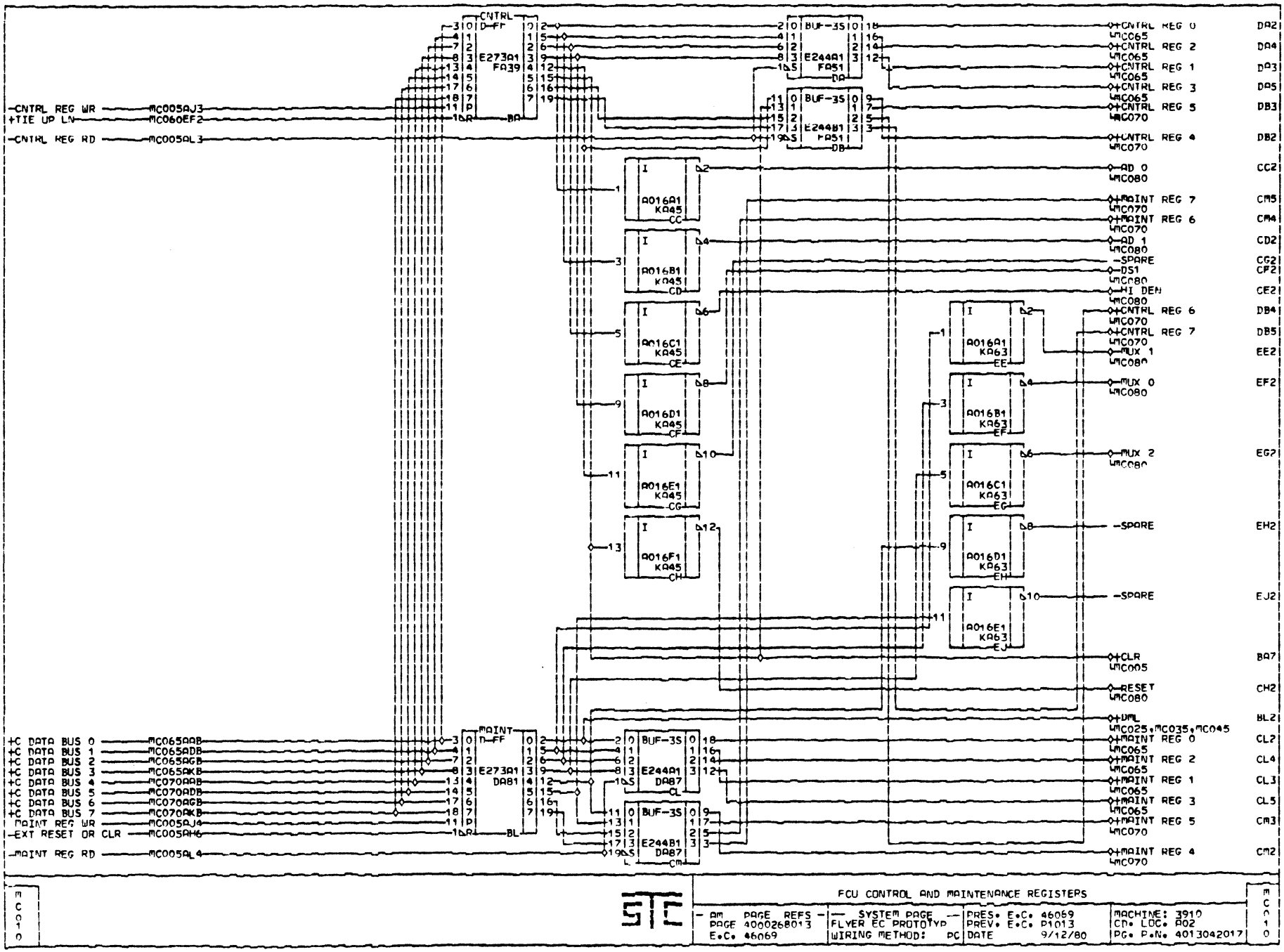
HMCP 12/02/80 12/02/80 PROF: PPCMIRXF



FCU COMMAND REGISTER AND REGISTER ADDRESS DECODES

AM PAGE 4000267015	SYSTEM PAGE	PRES. E.C. 46069	MACHINE: 3910
E.C. 46069	FLYER EC PROTOTYP	PREV. E.C. P1013	CD. LOC. A02
	WIRING METHOD: PC	DATE 9/12/80	PG. P.N. 4013041019

HMCP 10/27/80



FCU CONTROL AND MAINTENANCE REGISTERS

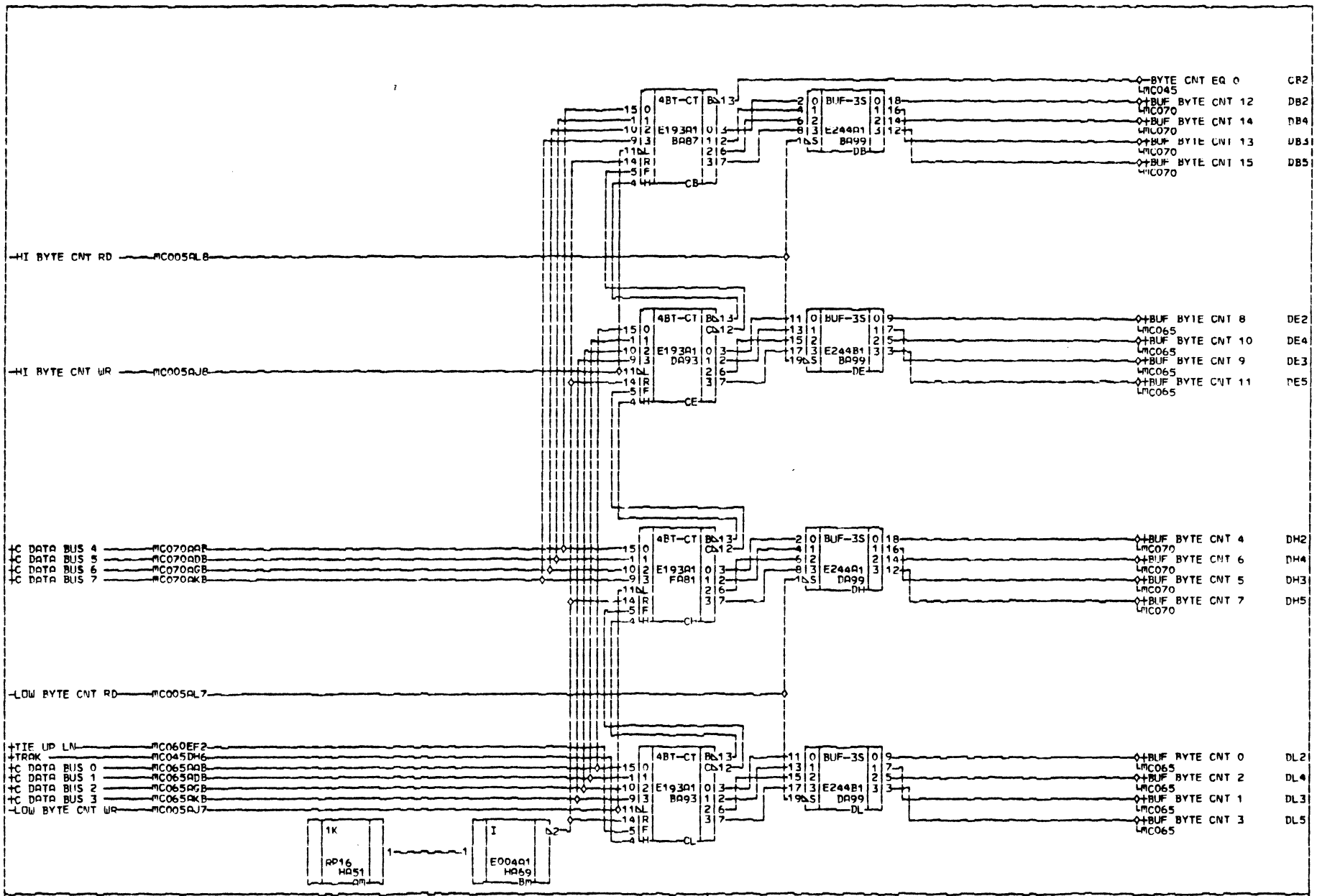
AM PAGE REFS — PAGE 4000268013 E.C. 46069

SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC

PRES. E.C. 46069 PREV. E.C. P1013 DATE 9/12/80

MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013042017

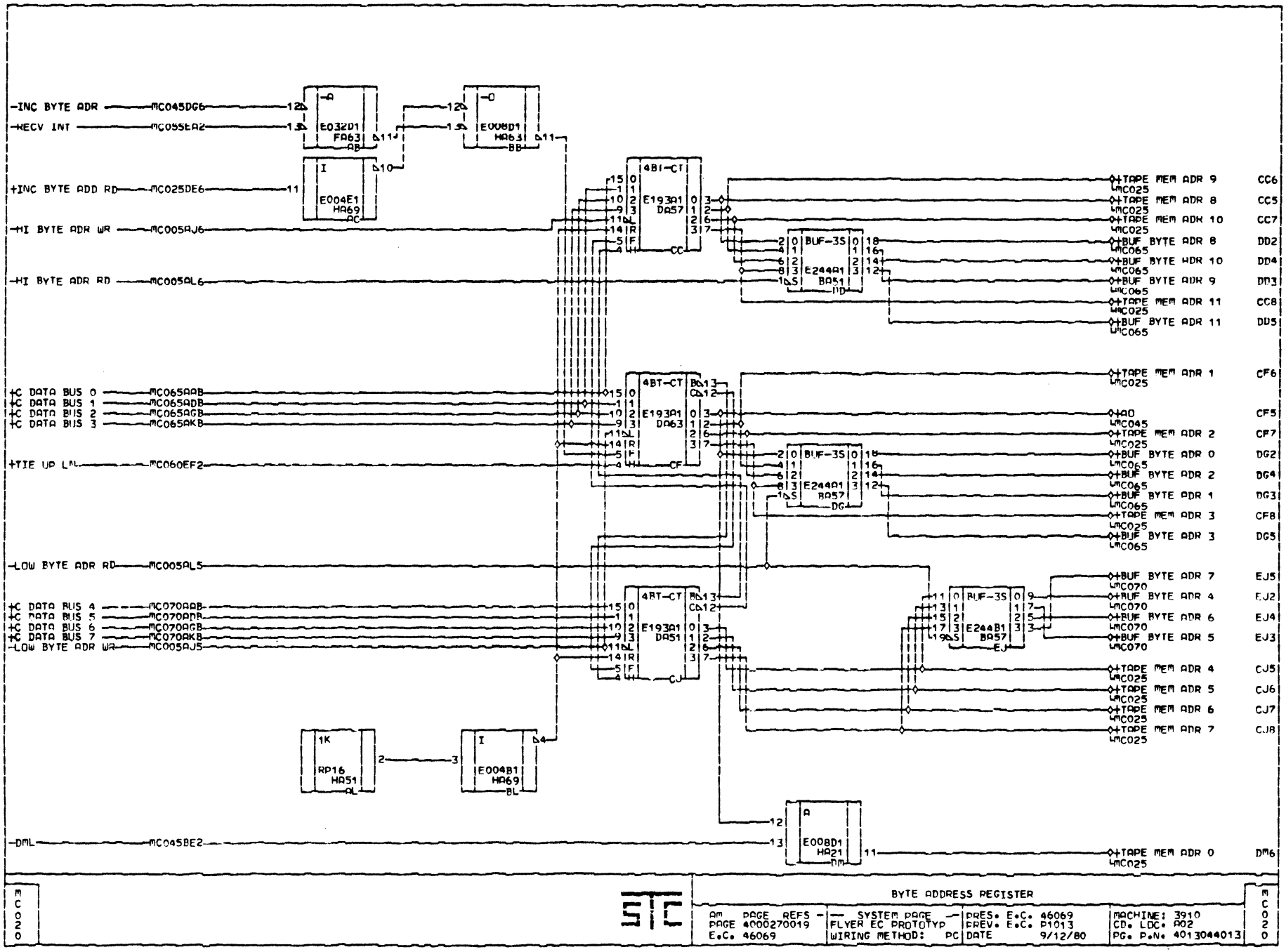
HMCP 10/27/80



BYTE COUNT REGISTER

– AM PAGE REFS – PAGE 4000269011 E.C. 46069	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46069 PREV. E.C. P1013 DATE 9/12/80	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013043015	

HMCP 10/27/80


-INC BYTE ADR
MC045DG6
-RECV INT
MC055EA2
+INC BYTE ADD RD
MC025DE6
-HI BYTE ADR WR
MC005AJ6
-HI BYTE ADR RD
MC005AL6
+C DATA BUS 0
MC065AAB
+C DATA BUS 1
MC065ADB
+C DATA BUS 2
MC065AGB
+C DATA BUS 3
MC065AKB
+TIE UP LAL
MC060EF2
-LOW BYTE ADR RD
MC005AL5
+C DATA BUS 4
MC070AAB
+C DATA BUS 5
MC070ADB
+C DATA BUS 6
MC070AGB
+C DATA BUS 7
MC070AKB
-LOW BYTE ADR WR
MC005AJ5
-DML
MC045BE2
E032D1
FA63
E004E1
HA69
E004B1
HA69
E008D1
HA63
E008D1
HA21
4BI-CT
4BT-CT
E193A1
DA57
DA63
DA51
E244A1
BA51
BA57
BUF-3S
RP16
HA51
+TAPE MEM ADR 9
+TAPE MEM ADR 8
+TAPE MEM ADR 10
+BUF BYTE ADR 8
+BUF BYTE ADR 10
+BUF BYTE ADR 9
+TAPE MEM ADR 11
+BUF BYTE ADR 11
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+TAPE MEM ADR 2
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+BUF BYTE ADR 4
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+TAPE MEM ADR 6
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+TAPE MEM ADR 0
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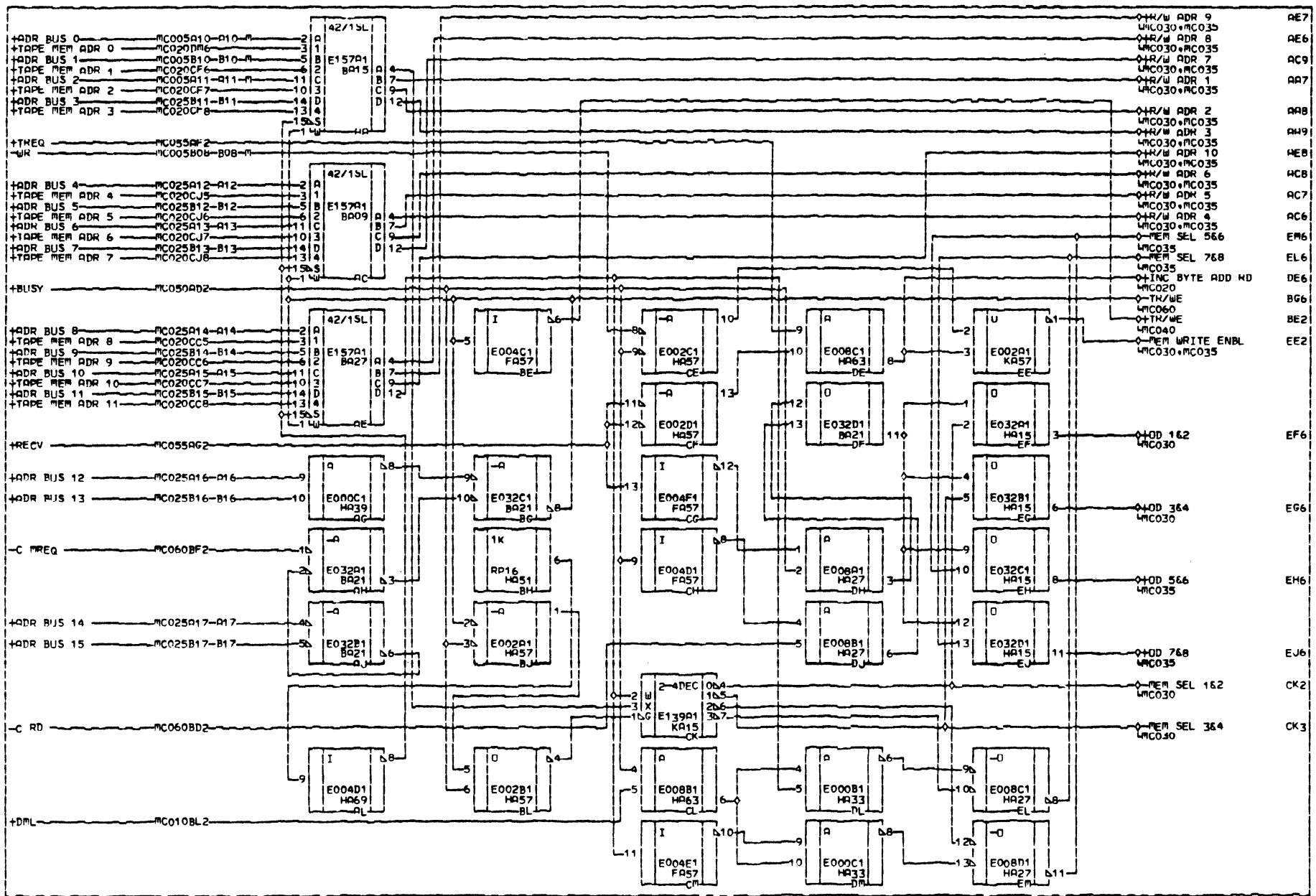
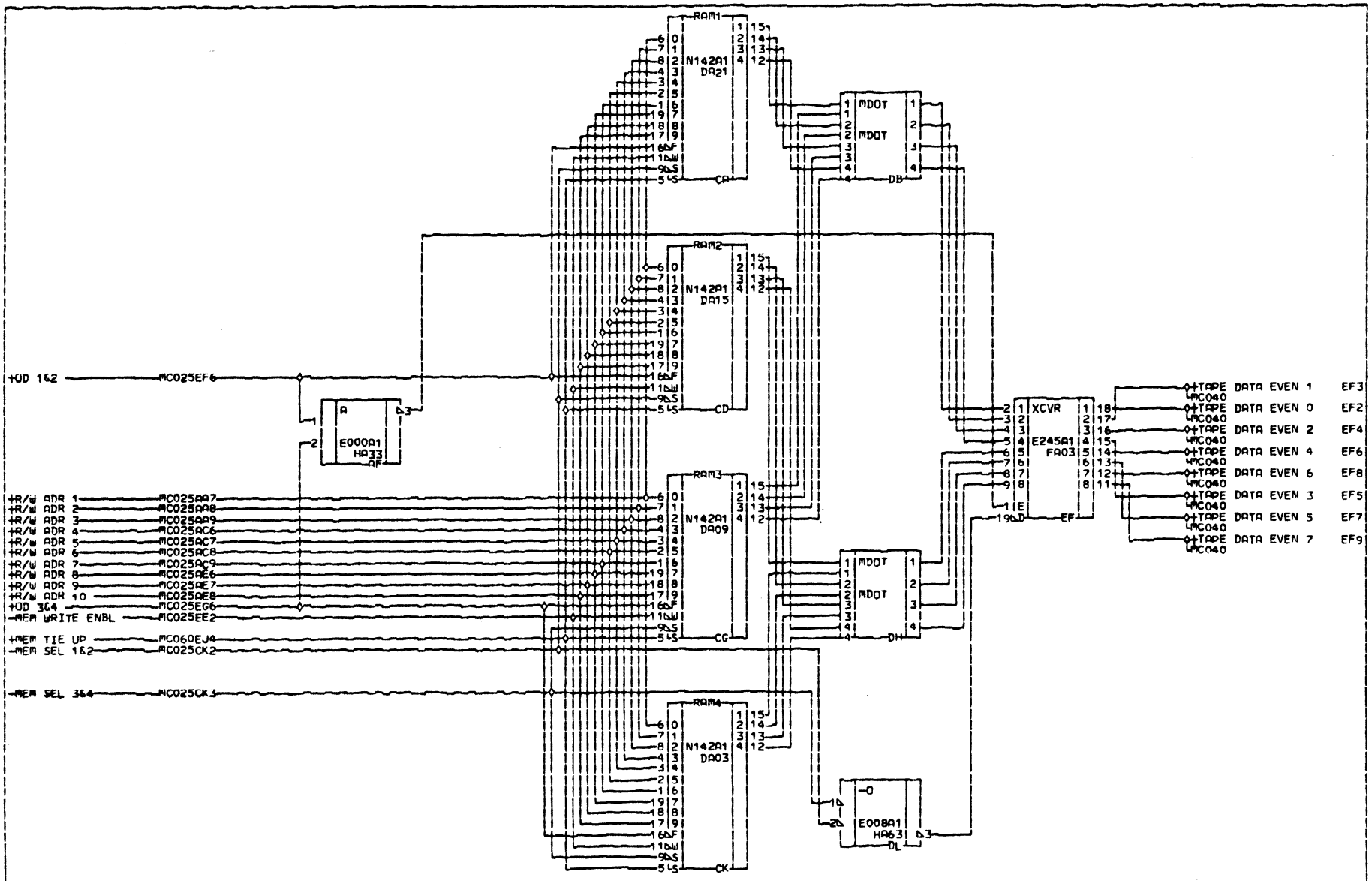
MC065
MC070
MC045
CC6
CC5
CC7
DD2
DD4
DD3
CC8
DD5
CF6
CF5
CF7
DG2
DG4
DG3
CF8
DG5
EJ5
EJ2
EJ4
EJ3
CJ5
CJ6
CJ7
CJ8
DM6
BYTE ADDRESS REGISTER
MC0202
Am PAGE REFS -
PAGE 4000270019
E.C. 46069
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46069
PREV. E.C. P1013
DATE 9/12/80
MACHINE: 3910
CD. LOC. A02
PG. P.N. 4013044013



MC025	STC	TAPE READ/WRITE MEMORY ADDRESS AND CONTROLS		MC025
	- AM PAGE REFS - PAGE 4000271017 E.C. 46069	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46069 PREV. E.C. P1013 DATE 9/12/80	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013045010

HMCP 10/27/80



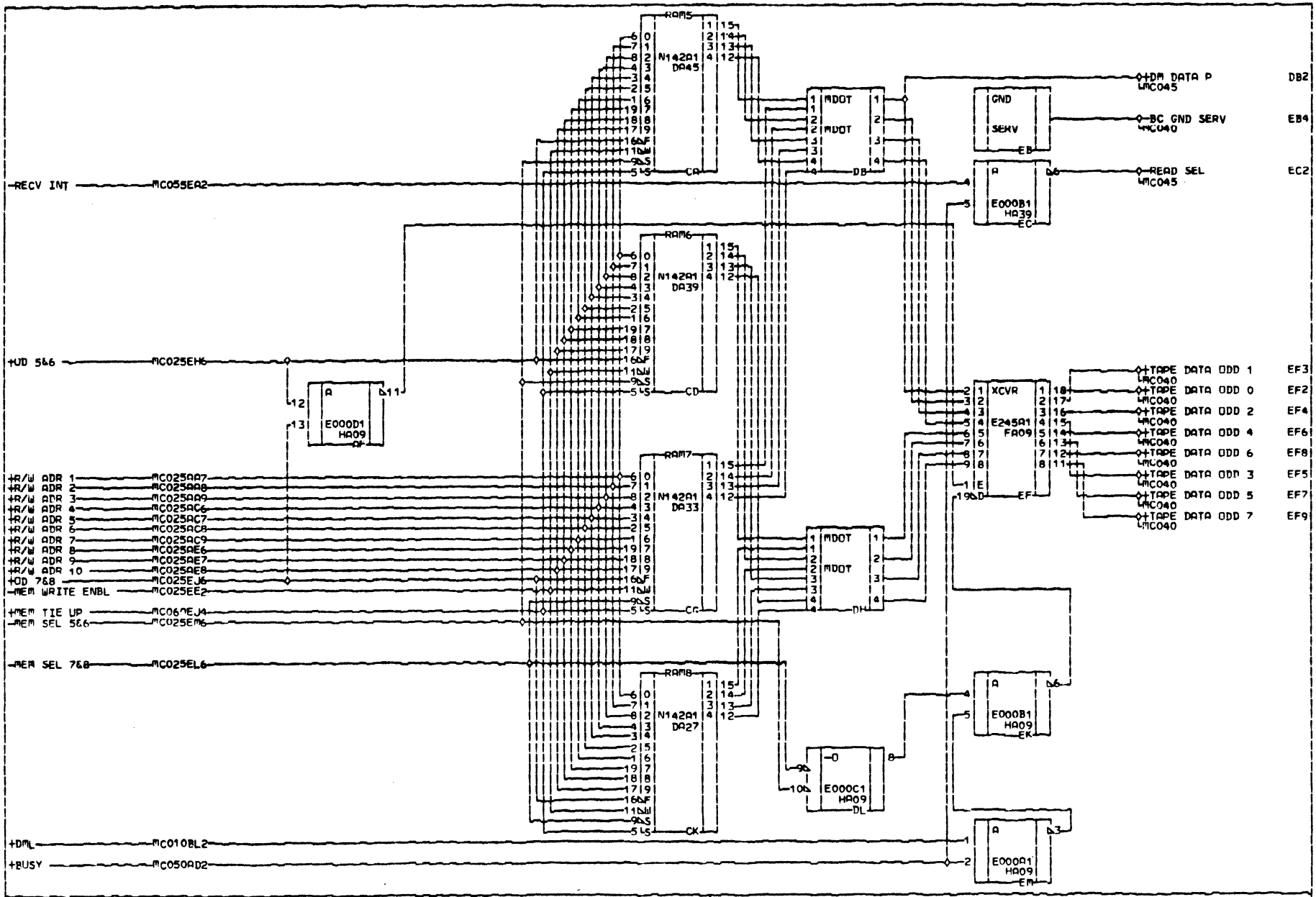
MC030

STC

EVEN ADDRESS READ/WRITE MEMORY

AM PAGE REFS	SYSTEM PAGE			
PAGE 4000272015	FLYER EC PROTOTYP	PRES. E.C. 46069	MACHINE: 3910	MC030
E.C. 46069	WIRING METHOD: PC	PREV. E.C. P1004	CD. LOC. A02	
		DATE 9/12/80	PG. P.N. 4013046018	

HMCP 10/27/80

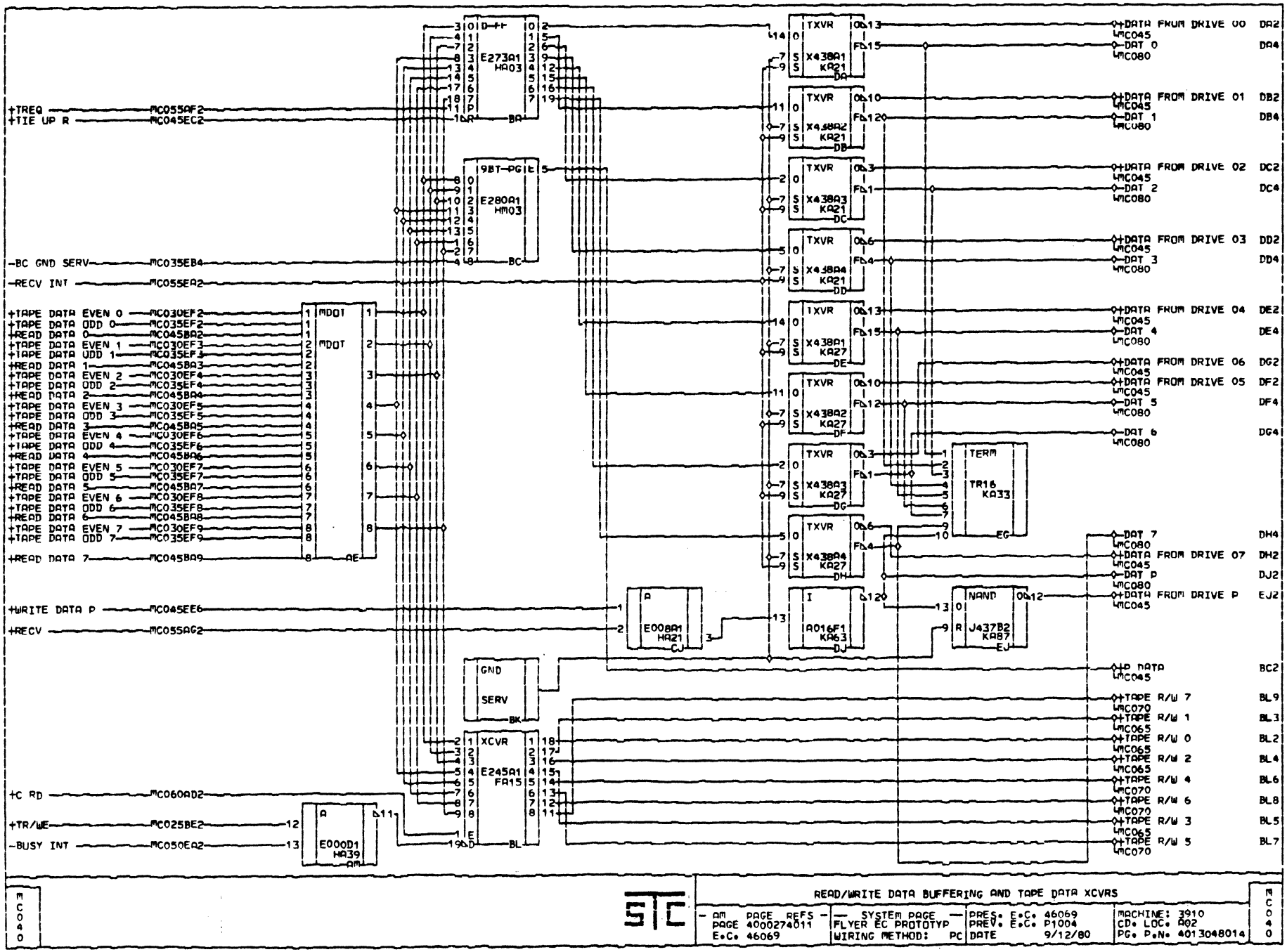


MC035

ODD ADDRESS READ/WRITE MEMORY

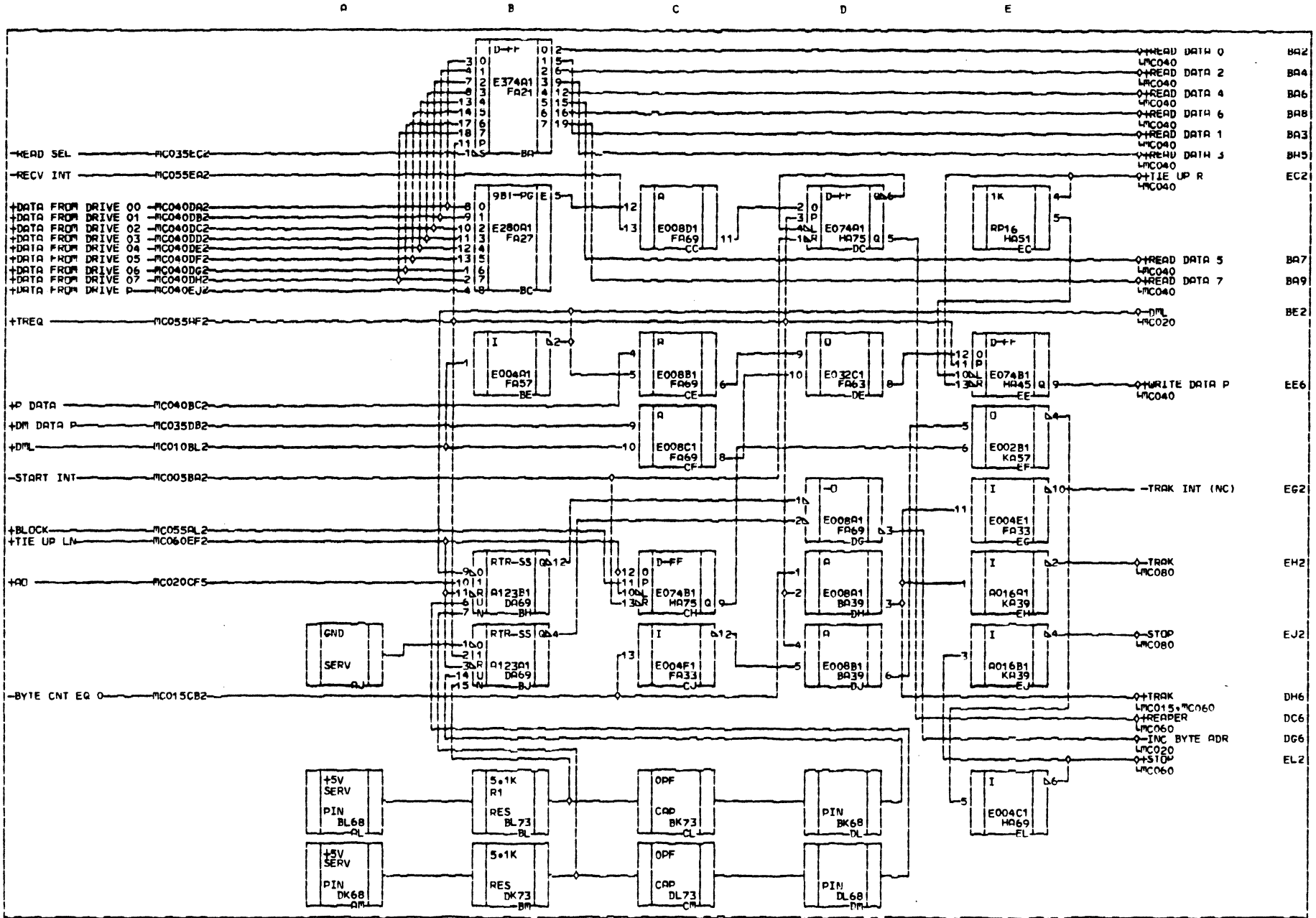
- DM PAGE REFS -	— SYSTEM PAGE —	PRES. E.C. 46069	MACHINE: 3910	MCC3
PAGE 4000273013	FLYER EC PROTOTYP	PREV. E.C. P1013	CD. LOC. A02	5
E.C. 46069	WIRING METHOD: PC	DATE 9/12/80	PG. P.N. 4013047016	

HMCP 10/27/80



MC040	READ/WRITE DATA BUFFERING AND TAPE DATA XCVRS			MC040
AM PAGE REFS — PAGE 4000274011 E.C. 46069	SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46069 PREV. E.C. P1004 DATE 9/12/80	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013048014	

HMCP 10/27/80

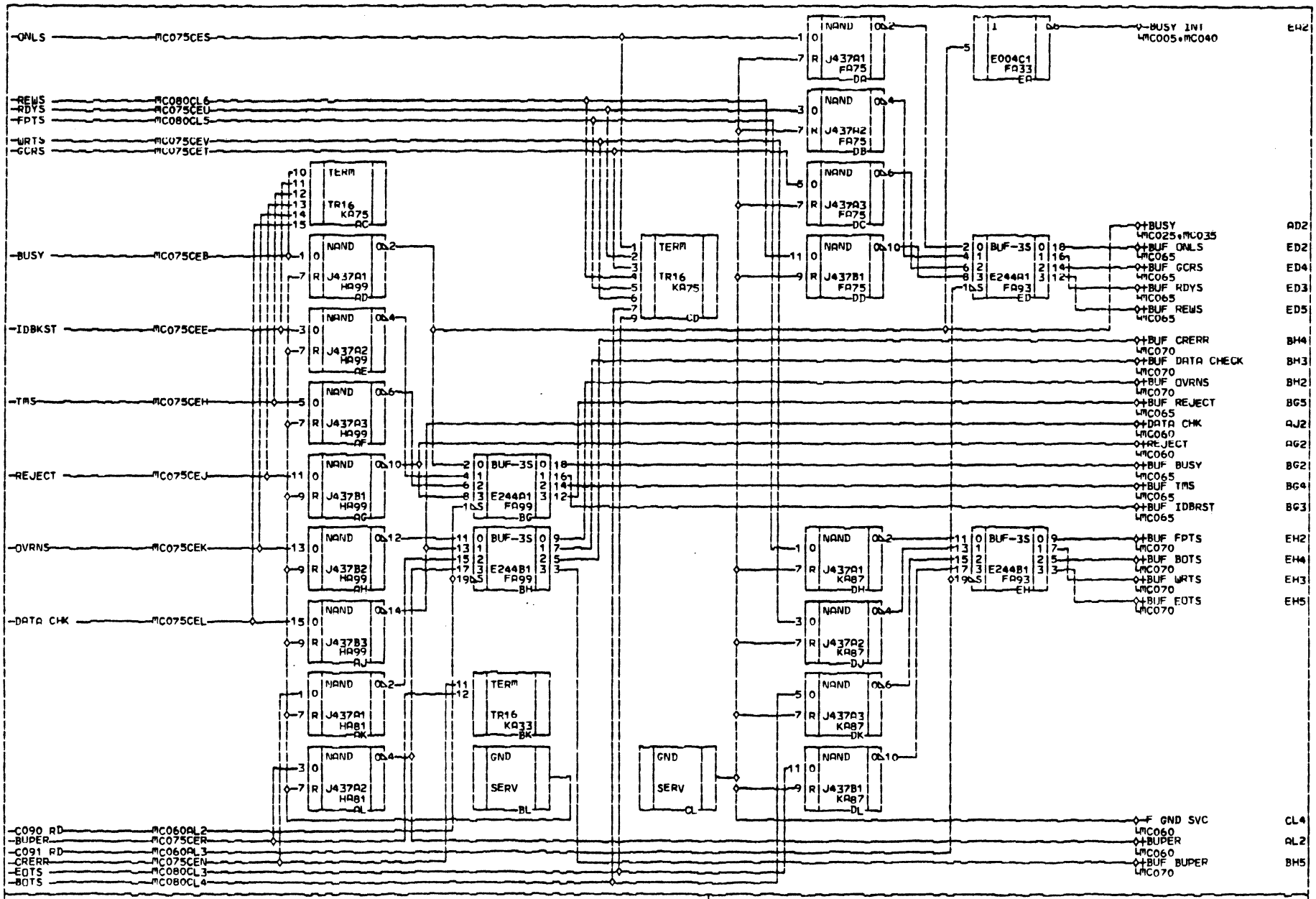


PARITY GENERATOR AND CHECK.TREQ AND TRAK

- AM PAGE REFS -	— SYSTEM PAGE —	PRES. E.C. 46069	MACHINE: 3910
PAGE 4000457012	FLYER EC PROTOTYP	PREV. E.C. P1013	CD. LOC. A02
E.C. 46069	WIRING METHOD: PC	DATE 9/12/80	PG. P.NO. 4013049012

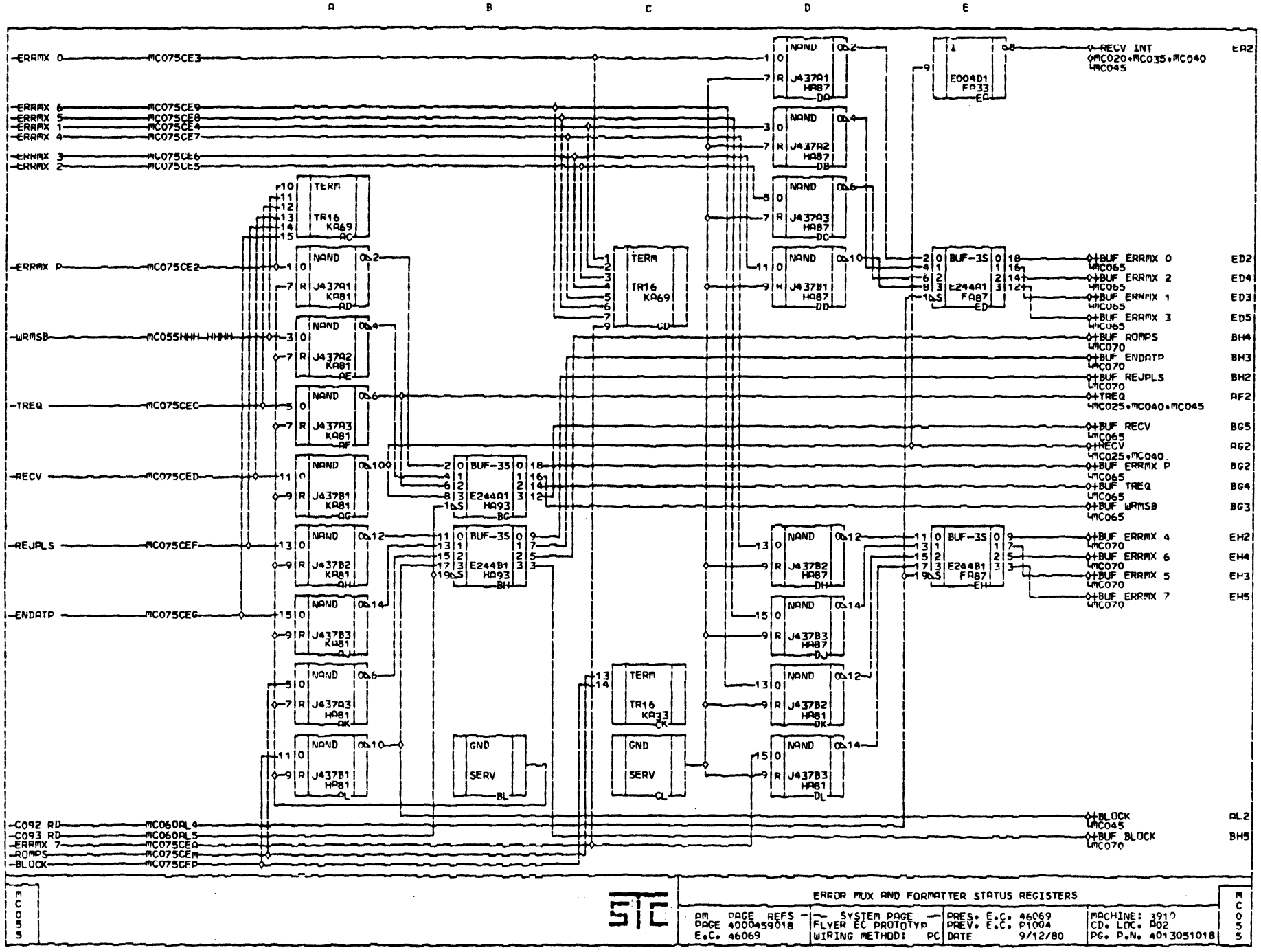
MC045

HMCP 10/27/80



MC050	STC	FORMATTER AND DRIVE STATUS REGISTERS			MC050
	AM PAGE REFS – PAGE 4000458010 E.C. 46069	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46069 PREV. E.C. P1004 DATE 9/12/80	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013050010	

HMCP 10/27/80



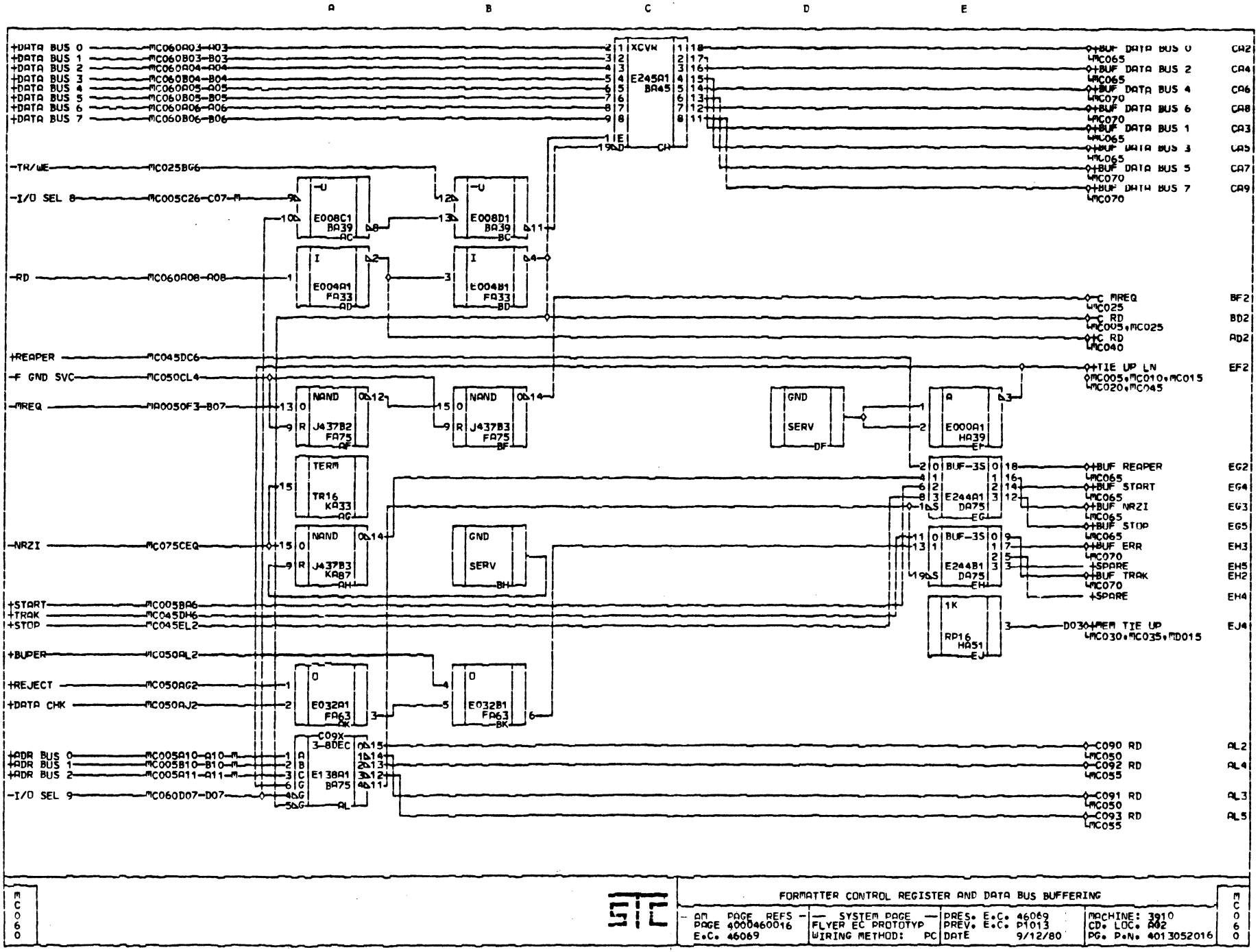
MC055

ERROR MUX AND FORMATTER STATUS REGISTERS

AM PAGE REFS — SYSTEM PAGE —
PAGE 4000459018
E.C. 46069
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46069
PREV. E.C. P1004
DATE 9/12/80
MACHINE: 3910
CD. LOC. A02
PG. P.N. 4013051018

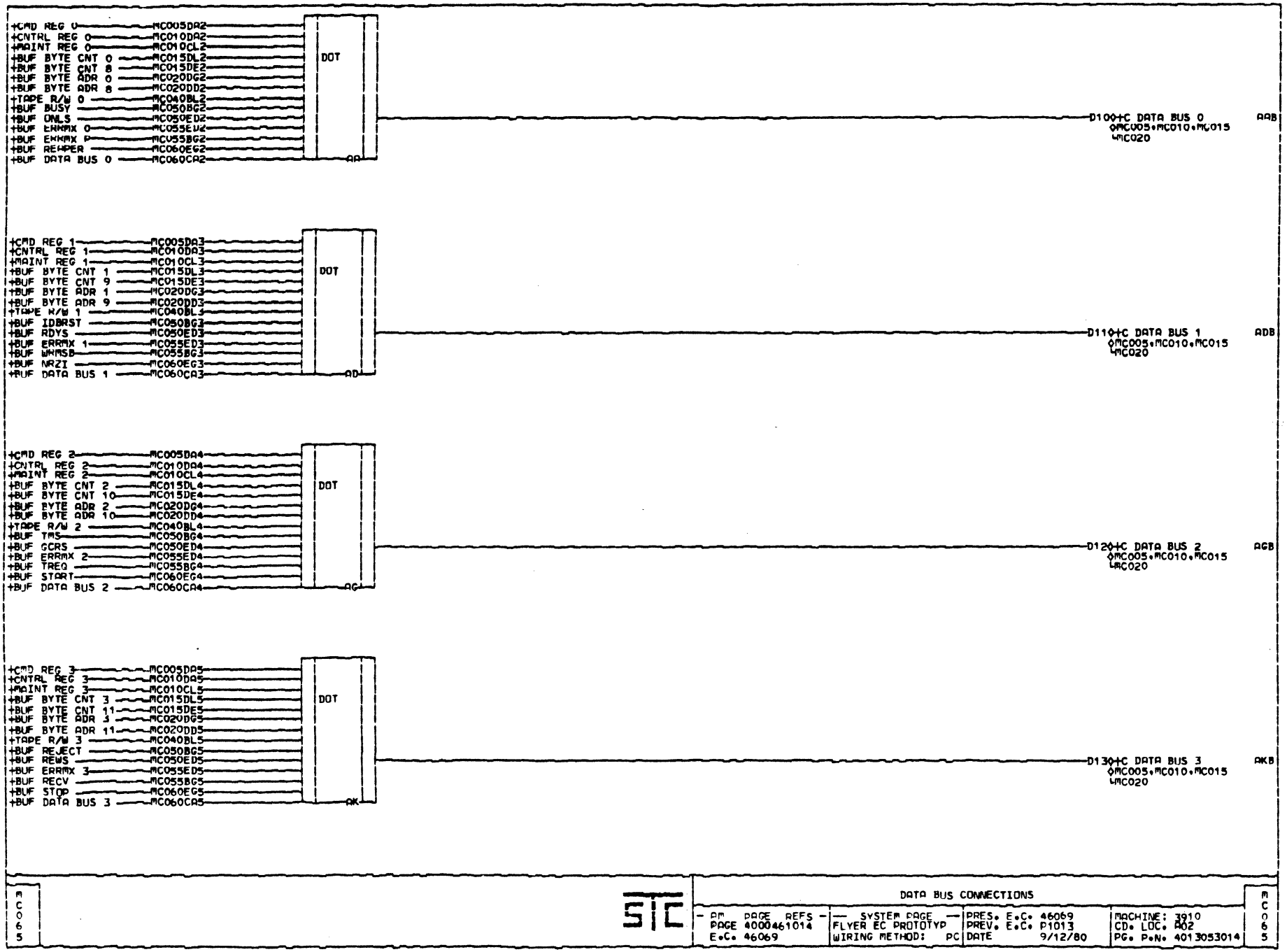
MC055

HMCP 10/27/80



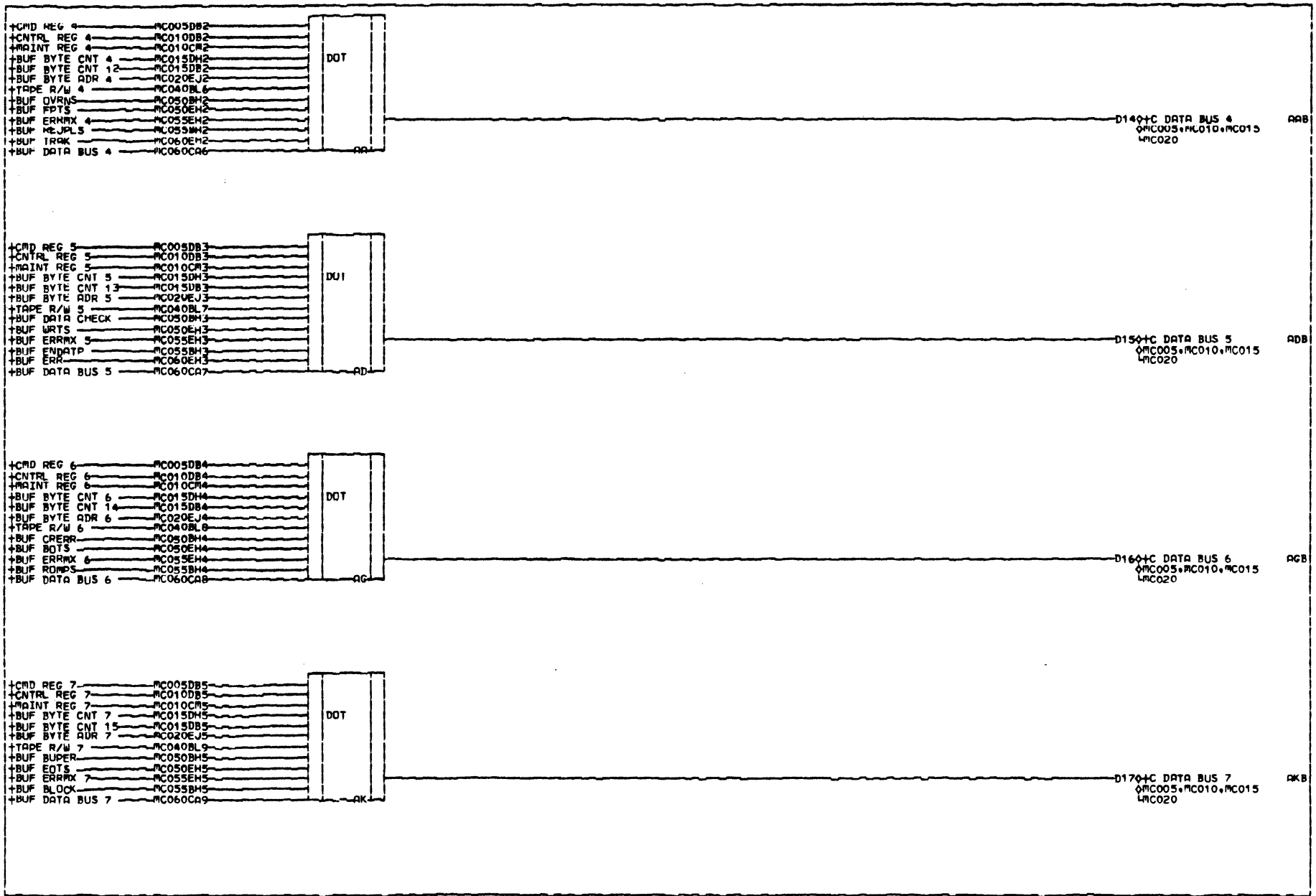
MC060	FORMATTER CONTROL REGISTER AND DATA BUS BUFFERING			MC060
AM PAGE REFS — PAGE 4000460016 E.C. 46069	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46069 PREV. E.C. P1013 DATE 9/12/80	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013052016	

HMCP 10/27/80



MC065	STC	DATA BUS CONNECTIONS			MC065
	– AM PAGE REFS – PAGE 4000461014 E.C. 46069	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46069 PREV. E.C. P1013 DATE 9/12/80	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013053014	

HMCP 10/27/80



MC070	DATA BUS CONNECTIONS				MC070
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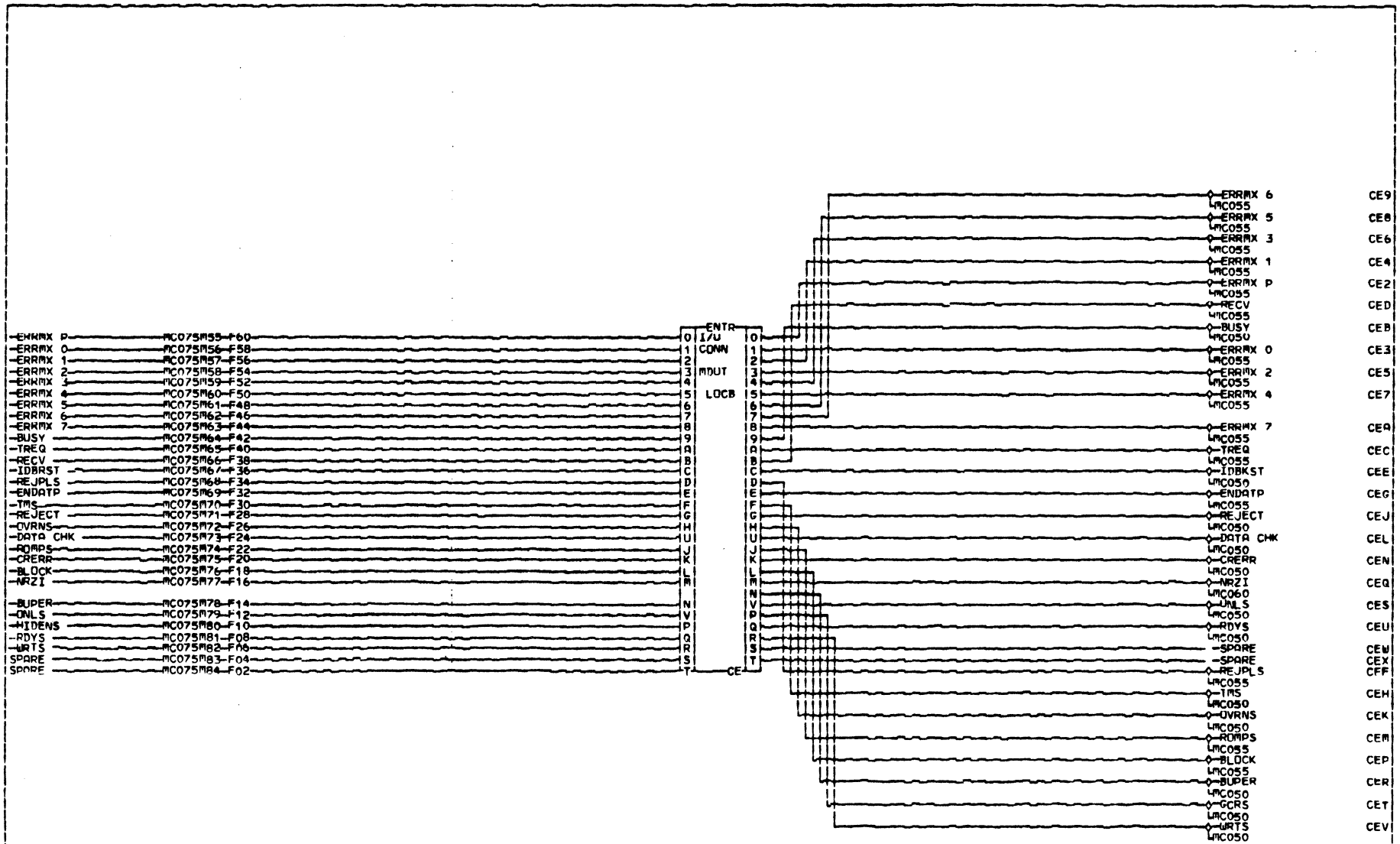
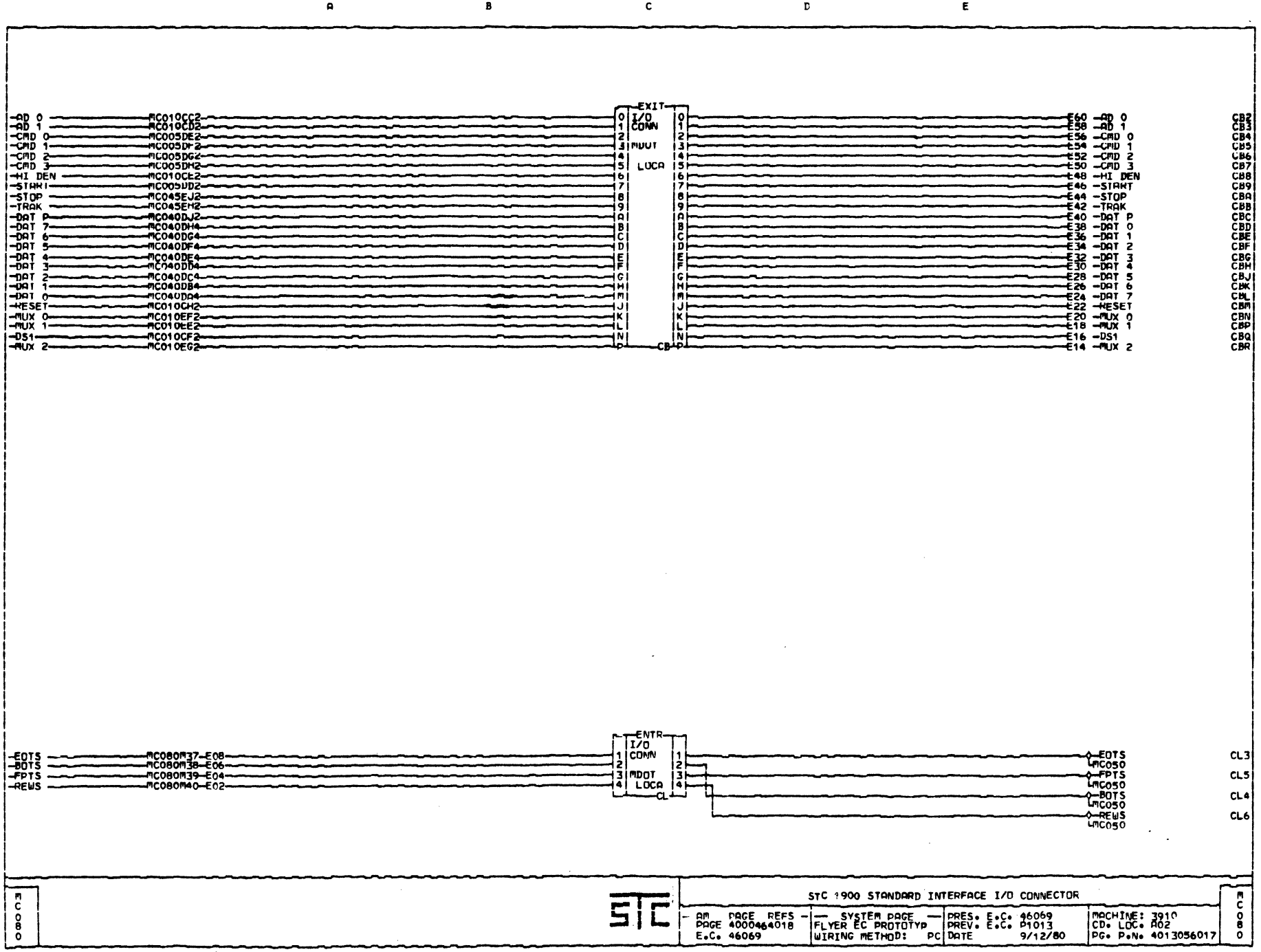


MC075	STC	STC 1900 STANDARD INTERFACE I/O CONNECTOR			MC075
	- AM PAGE REFS - PAGE 4000463010 E.C. 46069	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: PC	PRES. E.C. 46069 PREV. E.C. P1004 DATE 9/12/80	MACHINE: 3910 CD. LOC. A02 PG. P.N. 4013055019	

HMCP 10/27/80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CONN
MUUT
LUCA
CB
-AD 0 MC010CC2
-AD 1 MC010CD2
-CMD 0 MC005DE2
-CMD 1 MC005DF2
-CMD 2 MC005DG2
-CMD 3 MC005DH2
-HI DEN MC010CE2
-START MC005DD2
-STOP MC045EJ2
-TRAK MC045EH2
-DAT P MC040DJ2
-DAT 7 MC040DH4
-DAT 6 MC040DG4
-DAT 5 MC040DF4
-DAT 4 MC040DE4
-DAT 3 MC040DD4
-DAT 2 MC040DC4
-DAT 1 MC040DB4
-DAT 0 MC040DD4
-RESET MC010CH2
-MUX 0 MC010EF2
-MUX 1 MC010EE2
-DS1 MC010CF2
-MUX 2 MC010EG2
E60 -AD 0 CB2
E58 -AD 1 CB3
E56 -CMD 0 CB4
E54 -CMD 1 CB5
E52 -CMD 2 CB6
E50 -CMD 3 CB7
E48 -HI DEN CB8
E46 -START CB9
E44 -STOP CBA
E42 -TRAK CBB
E40 -DAT P CBC
E38 -DAT 0 CBD
E36 -DAT 1 CBE
E34 -DAT 2 CBF
E32 -DAT 3 CBG
E30 -DAT 4 CBH
E28 -DAT 5 CBJ
E26 -DAT 6 CBK
E24 -DAT 7 CBL
E22 -RESET CBM
E20 -MUX 0 CBN
E18 -MUX 1 CBP
E16 -DS1 CBQ
E14 -MUX 2 CBR
ENTR
I/O
CONN
MDOT
LOCA
CL
-EOTS MC080M37-E08
-BOTS MC080M38-E06
-FPTS MC080M39-E04
-REWS MC080M40-E02
EOTS LMC050 CL3
FPTS LMC050 CL5
BOTS LMC050 CL4
REWS LMC050 CL6
STC 9900 STANDARD INTERFACE I/O CONNECTOR
AM PAGE REFS
PAGE 4000464018
E.C. 46069
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: PC
PRES. E.C. 46069
PREV. E.C. D1013
DATE 9/12/80
MACHINE: 3910
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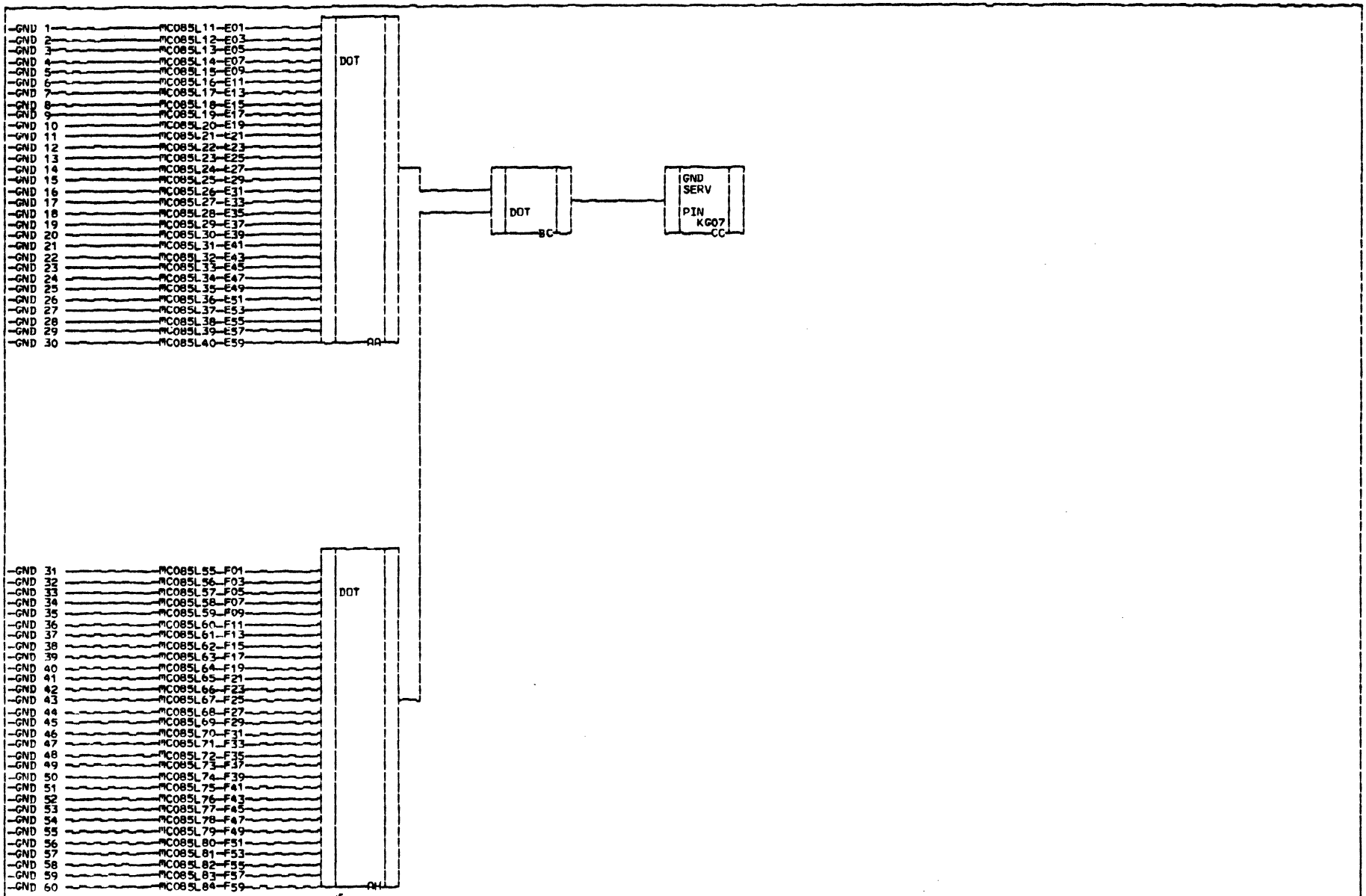
PG. P.NO. 4013056017
MC080

HMCP 10/27/80



MC085

SIC 1900 STANDARD INTERFACE SIGNAL GROUNDS

AM PAGE REFS	SYSTEM PAGE	PRES. E.C. 46069	MACHINE: 3910
PAGE 4000483018	FLYER EC PROTOTYP	PREV. E.C. P1013	CD. LOC. A02
E.C. 46069	WIRING METHOD: PC	DATE 9/12/80	PG. P.N. 4013057015

HMCP 10/27/80

BUILD ARC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E.C.
03-02-81	1	46091

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	400041503	6	C	N	SYS LGC GP,MD4000131G3,W/W	D	REL	01-19-81	3910	01-19-81

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
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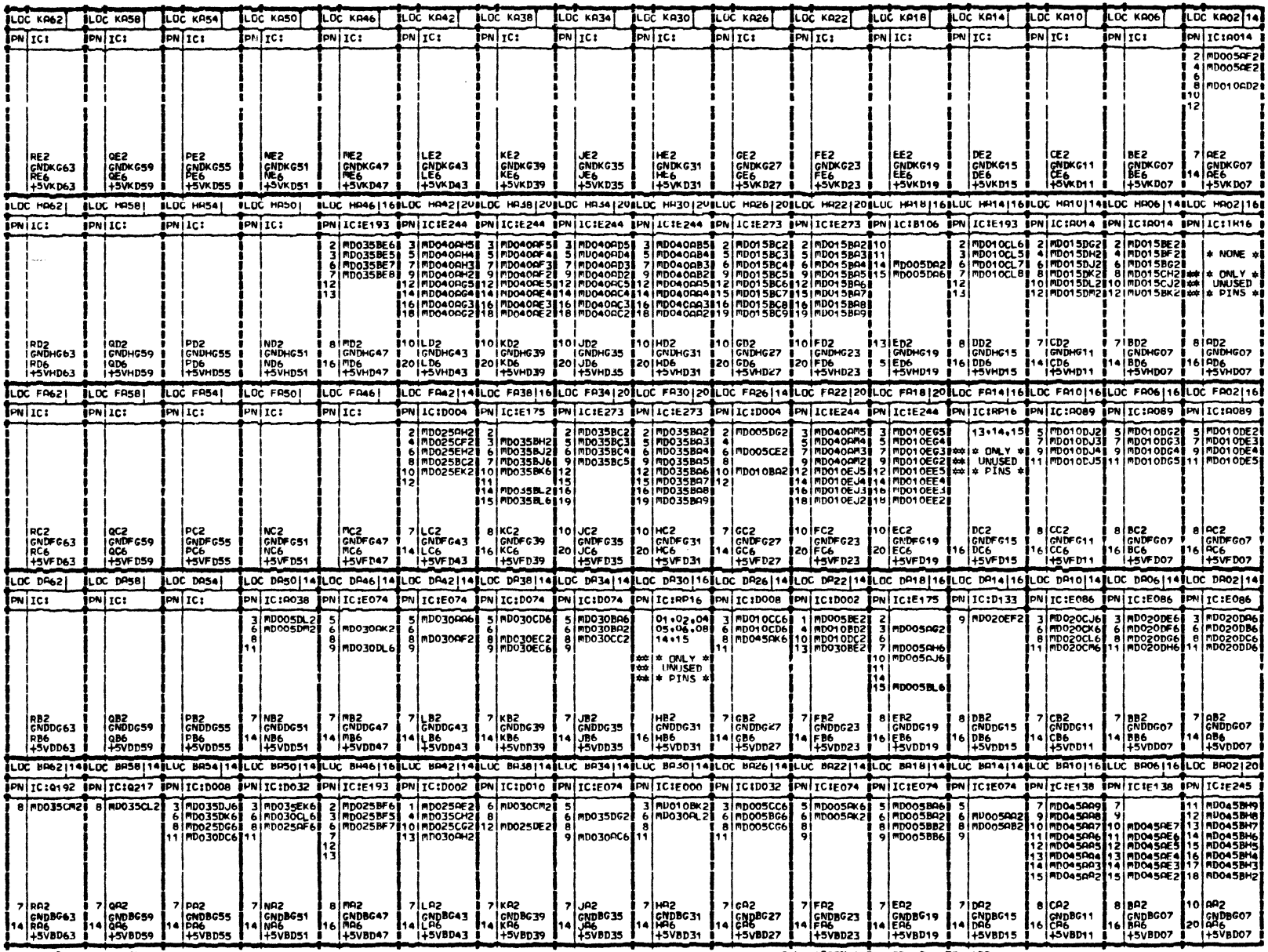
	001	01	400037502	4		REF	PC	SYS LGC,MD005,W/W	D						
	002	01	400037503	0		REF	PC	SYS LGC,MD010,W/W	D						
	003	01	400037702	0		REF	PC	SYS LGC,MD015,W/W	D						
	004	01	400037802	8		REF	PC	SYS LGC,MD020,W/W	D						
	005	01	400037902	6		REF	PC	SYS LGC,MD025,W/W	D						
	006	01	400038002	4		REF	PC	SYS LGC,MD030,W/W	D						
	007	01	400038102	2		REF	PC	SYS LGC,MD035,W/W	D						
	008	01	400038202	0		REF	PC	SYS LGC,MD040,W/W	D						
	009	01	400038301	0		REF	PC	SYS LOGIC,MD 045,W/W	D						
	010	01	400038401	8		REF	PC	SYS LOGIC,MD 050 W/W	D						
	011	01	400038501	5		REF	PC	SYS LOGIC,MD 055 W/W	D						
	012	01	400040602	7		REF	PC	SYS LGC,MD060,W/W	D						
	500	01	400013103	9		REF	PC	CKT CD,MD,W/W ASSEMBLY	S						
								0014 TOTAL LINES							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PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC:A014
2 MD005AF2
4 MD005AE2
6
8 MD010AD2
10
12
RE2 GNDKG63 RE6 +5VKD63
QE2 GNDKG59 QE6 +5VKD59
PE2 GNDKG55 PE6 +5VKD55
NE2 GNDKG51 NE6 +5VKD51
ME2 GNDKG47 ME6 +5VKD47
LE2 GNDKG43 LE6 +5VKD43
KE2 GNDKG39 KE6 +5VKD39
JE2 GNDKG35 JE6 +5VKD35
HE2 GNDKG31 HE6 +5VKD31
GE2 GNDKG27 GE6 +5VKD27
FE2 GNDKG23 FE6 +5VKD23
EE2 GNDKG19 EE6 +5VKD19
DE2 GNDKG15 DE6 +5VKD15
CE2 GNDKG11 CE6 +5VKD11
BE2 GNDKG07 BE6 +5VKD07
7 14 AE2 GNDKG07 AE6 +5VKD07
LOC HA62 | LOC HA58 | LOC HA54 | LOC HA50 | LOC HA46 | 16 | LOC HA42 | 20 | LOC HA38 | 20 | LOC HA34 | 20 | LOC HA30 | 20 | LOC HA26 | 20 | LOC HA22 | 20 | LOC HA18 | 16 | LOC HA14 | 16 | LOC HA10 | 14 | LOC HA06 | 14 | LOC HA02 | 16
PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC:E193 | PN | IC:E244 | PN | IC:E244 | PN | IC:E244 | PN | IC:E273 | PN | IC:E273 | PN | IC:B106 | PN | IC:E193 | PN | IC:A014 | PN | IC:A014 | PN | IC:1K16
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3 MD035BE5
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7 MD035BE8
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13
3 MD040AH5
5 MD040AH4
7 MD040AH3
9 MD040AH2
12 MD040AG5
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18 MD040AG2
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12 MD040AE5
14 MD040AE4
16 MD040AE3
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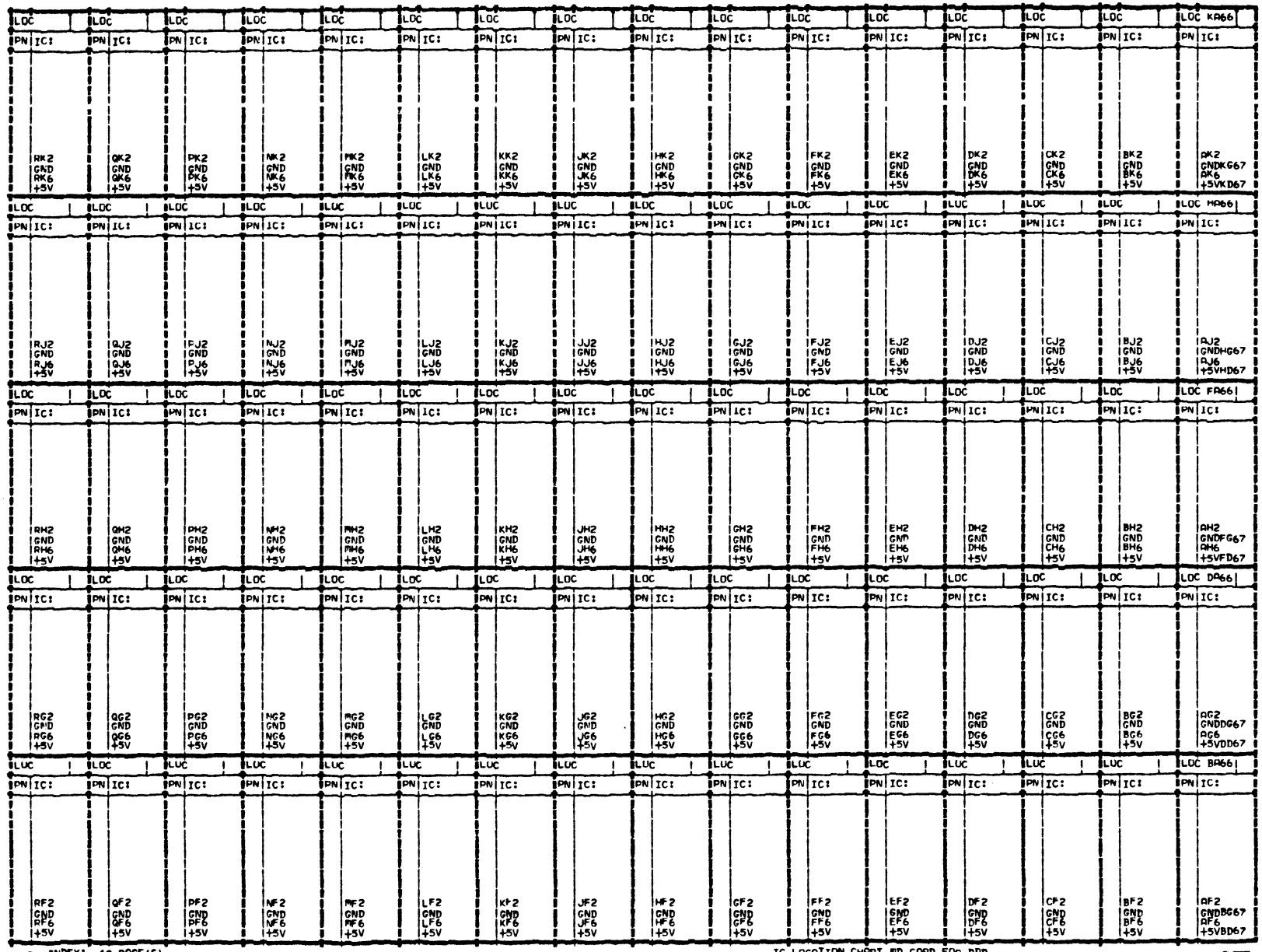
14 MD040AA4
16 MD040AA3
18 MD040AA2
2 MD015BC2
3 MD015BC3
6 MD015BC4
9 MD015BC5
12 MD015BC6
15 MD015BC7
16 MD015BC8
19 MD015BC9
2 MD015BA2
5 MD015BA3
8 MD015BA4
11 MD015BA5
14 MD015BA6
15 MD015BA7
16 MD015BA8
19 MD015BA9
10
11
14 MD005DA2
15 MD005DA6
12
13
2 MD010CL6
3 MD010CL5
6 MD010CL7
7 MD010CL8
8 DD2 GNDHG15 DD6 +5VHD15
2 MD015DG2
4 MD015DH2
6 MD015DJ2
8 MD015DK2
10 MD015DL2
12 MD015DM2
7 CD2 GNDHG11 CD6 +5VHD11
2 MD015BE2
4 MD015BF2
6 MD015BG2
8 MD015CH2 ** * ONLY *
10 MD015CJ2 ** UNUSED
12 MD015BK2 ** * PINS *
* NONE *
RD2 GNDHG63 RD6 +5VHD63
QD2 GNDHG59 QD6 +5VHD59
PD2 GNDHG55 PD6 +5VHD55
ND2 GNDHG51 ND6 +5VHD51
8 MD2 GNDHG47 16 MD6 +5VHD47
10 LD2 GNDHG43 20 LD6 +5VHD43
10 KD2 GNDHG39 20 KD6 +5VHD39
10 JD2 GNDHG35 20 JD6 +5VHD35
10 HD2 GNDHG31 20 HD6 +5VHD31
10 GD2 GNDHG27 20 GD6 +5VHD27
10 FD2 GNDHG23 20 FD6 +5VHD23
13 ED2 GNDHG19 5 ED6 +5VHD19
8 DD2 GNDHG15 16 DD6 +5VHD15
7 CD2 GNDHG11 14 CD6 +5VHD11
7 BD2 GNDHG07 14 BD6 +5VHD07
8 AD2 GNDHG07 16 AD6 +5VHD07
LOC FA62 | LOC FA58 | LOC FA54 | LOC FA50 | LOC FA46 | LOC FA42 | 14 | LOC FA38 | 16 | LOC FA34 | 20 | LOC FA30 | 20 | LOC FA26 | 14 | LOC FA22 | 20 | LOC FA18 | 20 | LOC FA14 | 16 | LOC FA10 | 16 | LOC FA06 | 16 | LOC FA02 | 16
PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC: | PN | IC:D004 | PN | IC:E175 | PN | IC:E273 | PN | IC:E273 | PN | IC:D004 | PN | IC:E244 | PN | IC:E244 | PN | IC:RP16 | PN | IC:A089 | PN | IC:A089 | PN | IC:A089
2 MD025AH2
4 MD025CF2
6 MD025EH2
8 MD025BC2
10 MD025EK2
12
2 MD035BH2
3 MD035BJ2
6 MD035BJ6
7 MD035BK6
10
11
14 MD035BL2
15 MD035BL6
2 MD035BC2
3 MD035BC3
6 MD035BC4
9 MD035BC5
12
15
16
19
2 MD035BA2
3 MD035BA3
6 MD035BA4
8 MD035BA5
9 MD035BA6
12 MD035BA7
12 MD035BA8
MD035BA9
2 MD005DG2
4
6 MD005CE2
8
9 MD010BA2
12
14
16
18
3 MD040AM5
5 MD040AM4
7 MD040AM3
9 MD040AM2
12 MD040AL5
14 MD040AL4
16 MD040AL3
18 MD040AL2
3 MD010EG5
5 MD010EG4
7 MD010EG3 **
9 MD010EG2 **
12 MD010EE5 **
14 MD010EE4
16 MD010EE3
18 MD010EE2
13,14,15
* ONLY *
UNUSED
* PINS *
5 MD010DJ2
7 MD010DJ3
9 MD010DJ4
11 MD010DJ5
5 MD010DG2
7 MD010DG3
9 MD010DG4
11 MD010DG5
5 MD010DE2
7 MD010DE3
9 MD010DE4
11 MD010DE5
RC2 GNDFG63 RC6 +5VFD63
QC2 GNDFG59 QC6 +5VFD59
PC2 GNDFG55 PC6 +5VFD55
NC2 GNDFG51 NC6 +5VFD51
MC2 GNDFG47 MC6 +5VFD47
7 LC2 GNDFG43 14 LC6 +5VFD43
8 KC2 GNDFG39 16 KC6 +5VFD39
10 JC2 GNDFG35 20 JC6 +5VFD35
10 HC2 GNDFG31 20 HC6 +5VFD31
7 GC2 GNDFG27 14 GC6 +5VFD27
10 FC2 GNDFG23 20 FC6 +5VFD23
10 EC2 GNDFG19 20 EC6 +5VFD19
DC2 GNDFG15 16 DC6 +5VFD15
8 CC2 GNDFG11 16 CC6 +5VFD11
8 BC2 GNDFG07 16 BC6 +5VFD07
8 AC2 GNDFG07 16 AC6 +5VFD07
LOC DA62 | LOC DA58 | LOC DA54 | LOC DA50 | 14 | LOC DA46 | 14 | LOC DA42 | 14 | LOC DA38 | 14 | LOC DA34 | 14 | LOC DA30 | 16 | LOC DA26 | 14 | LOC DA22 | 14 | LOC DA18 | 16 | LOC DA14 | 16 | LOC DA10 | 14 | LOC DA06 | 14 | LOC DA02 | 14
PN | IC: | PN | IC: | PN | IC: | PN | IC:A038 | PN | IC:E074 | PN | IC:E074 | PN | IC:D002 | PN | IC:D074 | PN | IC:RP16 | PN | IC:D008 | PN | IC:D002 | PN | IC:E175 | PN | IC:D133 | PN | IC:E086 | PN | IC:E086 | PN | IC:E086
3 MD005DL2
6 MD005DM2
8
11
MD030AK2
MD030AF2
MD030DL6
5 MD030AA6
6
8
9
5 MD030CD6
6 MD030BA2
8 MD030CC2
9
01,02,04
05,06,08
14,15
** * ONLY *
** UNUSED
** * PINS *
3 MD010CC6
4 MD010CD6
8 MD045AK6
11
1 MD010CC6
4 MD010BD2
6 MD010DC2
13 MD030BE2
2
3 MD005AG2
6
7 MD005AH6
10 MD005AJ6
11
14
15 MD005BL6
9 MD020EF2
2 MD020CJ6
6 MD020CK6
8 MD020DG6
11 MD020CM6
3 MD020DE6
6 MD020DF6
8 MD020DG6
11 MD020DH6
3 MD020DA6
6 MD020DB6
8 MD020DC6
11 MD020DD6
RB2 GNDDG63 RB6 +5VDD63
QB2 GNDDG59 QB6 +5VDD59
PB2 GNDDG55 PB6 +5VDD55
7 NB2 GNDDG51 14 NB6 +5VDD51
7 MB2 GNDDG47 14 MB6 +5VDD47
7 LB2 GNDDG43 14 LB6 +5VDD43
7 KB2 GNDDG39 14 KB6 +5VDD39
7 JB2 GNDDG35 16 JB6 +5VDD35
HB2 GNDDG31 14 HB6 +5VDD31
7 GB2 GNDDG27 14 GB6 +5VDD27
7 FB2 GNDDG23 14 FB6 +5VDD23
8 EB2 GNDDG19 16 EB6 +5VDD19
8 DB2 GNDDG15 16 DB6 +5VDD15
7 CB2 GNDDG11 14 CB6 +5VDD11
7 BB2 GNDDG07 14 BB6 +5VDD07
7 AB2 GNDDG07 14 AB6 +5VDD07
LOC BA62 | 14 | LOC BA58 | 14 | LOC BA54 | 14 | LOC BA50 | 14 | LOC BA46 | 16 | LOC BA42 | 14 | LOC BA38 | 14 | LOC BA34 | 14 | LOC BA30 | 14 | LOC BA26 | 14 | LOC BA22 | 14 | LOC BA18 | 14 | LOC BA14 | 14 | LOC BA10 | 16 | LOC BA06 | 16 | LOC BA02 | 20
PN | IC:Q192 | PN | IC:Q217 | PN | IC:D008 | PN | IC:D032 | PN | IC:E193 | PN | IC:D002 | PN | IC:D010 | PN | IC:E074 | PN | IC:E000 | PN | IC:D032 | PN | IC:E074 | PN | IC:E074 | PN | IC:E074 | PN | IC:E138 | PN | IC:E138 | PN | IC:E245
8 MD035CM2
8 MD035CL2
3 MD035DJ6
6 MD035DK6
8 MD025DG6
11 MD030DC6
3 MD035EK6
6 MD030CL6
8 MD025AF6
11
2 MD025BF6
4 MD025BF5
6 MD025BF7
7
12
13
1 MD025AE2
4 MD035CH2
6 MD025CG2
8
10 MD030AH2
13
6 MD030CM2
12 MD025DE2
5
6 MD035DG2
8
9 MD030AC6
11
3 MD010BK2
6 MD030AL2
8
11
3 MD005CC6
6 MD005BG6
8 MD005CG6
11
5 MD005AK6
8 MD005AK2
11
5 MD005BA6
6 MD005BA2
8 MD005BB2
9 MD005BB6
5
6 MD005AA2
8 MD005AB2
9
7 MD045AA8
9
10 MD045AA7
11 MD045AA6
12 MD045AA5
13 MD045AA4
14 MD045AA3
15 MD045AA2
7
9
10 MD045AE7
11 MD045AE6
12 MD045AE5
13 MD045AE4
14 MD045AE3
15 MD045AE2
11 MD045BH9
12 MD045BH8
13 MD045BH7
14 MD045BH6
15 MD045BH5
16 MD045BH4
17 MD045BH3
18 MD045BH2
7 RA2 GNDBG63 14 RA6 +5VBD63
7 QA2 GNDBG59 14 QA6 +5VBD59
7 PA2 GNDBG55 14 PA6 +5VBD55
7 NA2 GNDBG51 14 NA6 +5VBD51
8 MA2 GNDBG47 16 MA6 +5VBD47
7 LA2 GNDBG43 14 LA6 +5VBD43
7 KA2 GNDBG39 14 KA6 +5VBD39
7 JA2 GNDBG35 14 JA6 +5VBD35
7 HA2 GNDBG31 14 HA6 +5VBD31
7 GA2 GNDBG27 14 GA6 +5VBD27
7 FA2 GNDBG23 14 FA6 +5VBD23
7 EA2 GNDBG19 14 EA6 +5VBD19
7 DA2 GNDBG15 14 DA6 +5VBD15
8 CA2 GNDBG11 16 CA6 +5VBD11
8 BA2 GNDBG07 16 BA6 +5VBD07
10 AA2 GNDBG07 20 AA6 +5VBD07
INDEX: 12 PAGE(S)
PAGE CRD PG P/N EC LEVEL
MD005 4000275026 46040
MD010 4000276032 46091
MD015 4000277022 46040
MD020 4000278020 46091
MD025 4000279028 46040
MD030 4000280026 46040
MD035 4000281024 46040
MD040 4000282022 46040
MD045 4000283012 46005
MD050 4000284010 46005
MD055 4000285017 46005
MD060 4000286023 46040
IC LOCATION CHART MD CARD FOR DDD
PRESENT EC 46091 DATE 10/23/80 CD PN 4000131039 PAGE 1
PREV EC 46040 PAGE PN 4000058034 CD TYPE MD FLEVEL 34559 OF 2



INDEX: 12 PAGE(S)

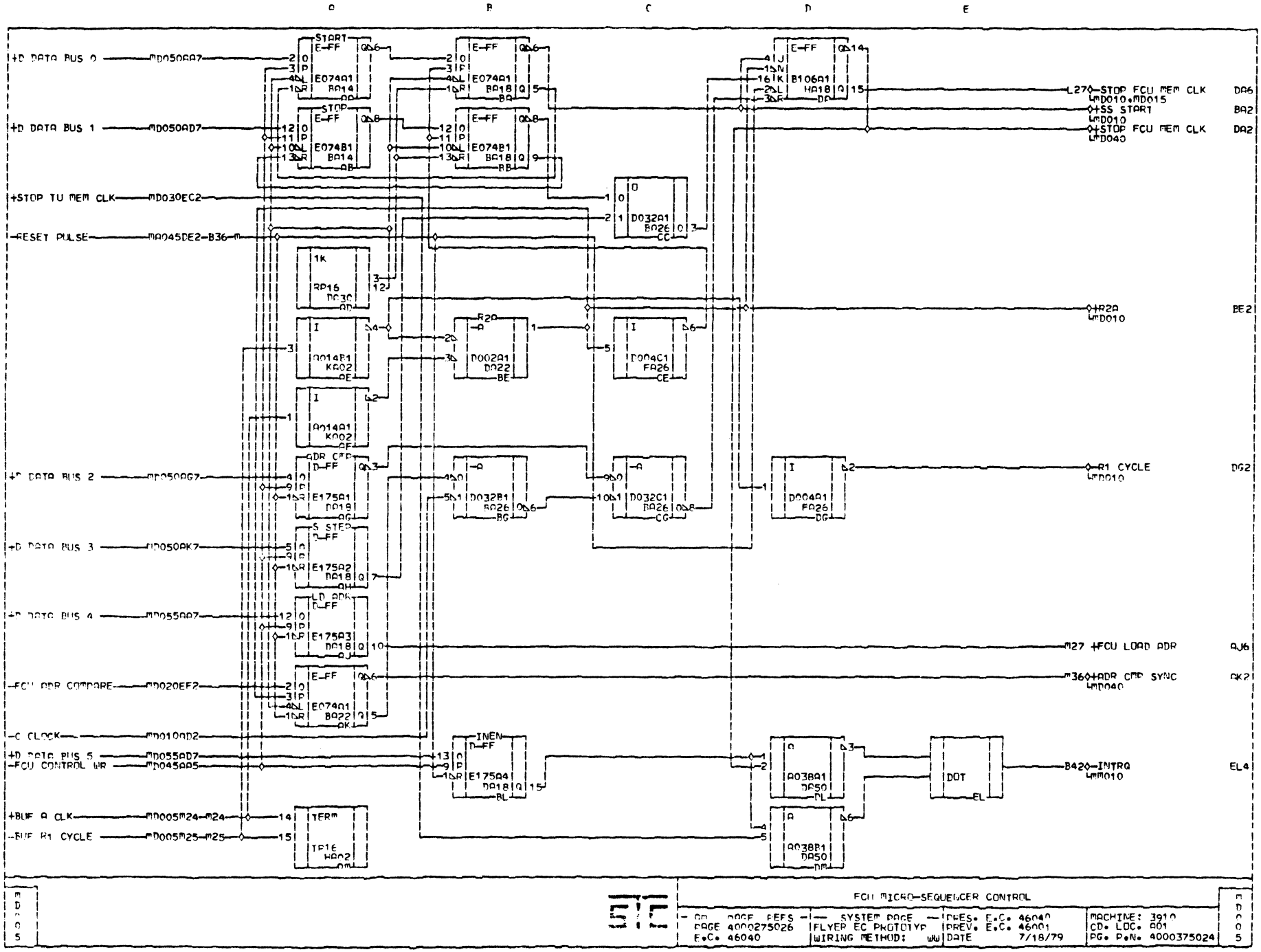
PAGE	CRD PG P/N	EC LEVEL
MD005	4000275026	46040
MD010	4000276032	46091
MD015	4000277022	46040
MD020	4000278020	46091
MD025	4000279028	46040
MD030	4000280026	46040
MD035	4000281024	46040
MD040	4000282022	46040
MD045	4000283012	46005
MD050	4000284010	46005
MD055	4000285017	46005
MD060	4000286023	46040

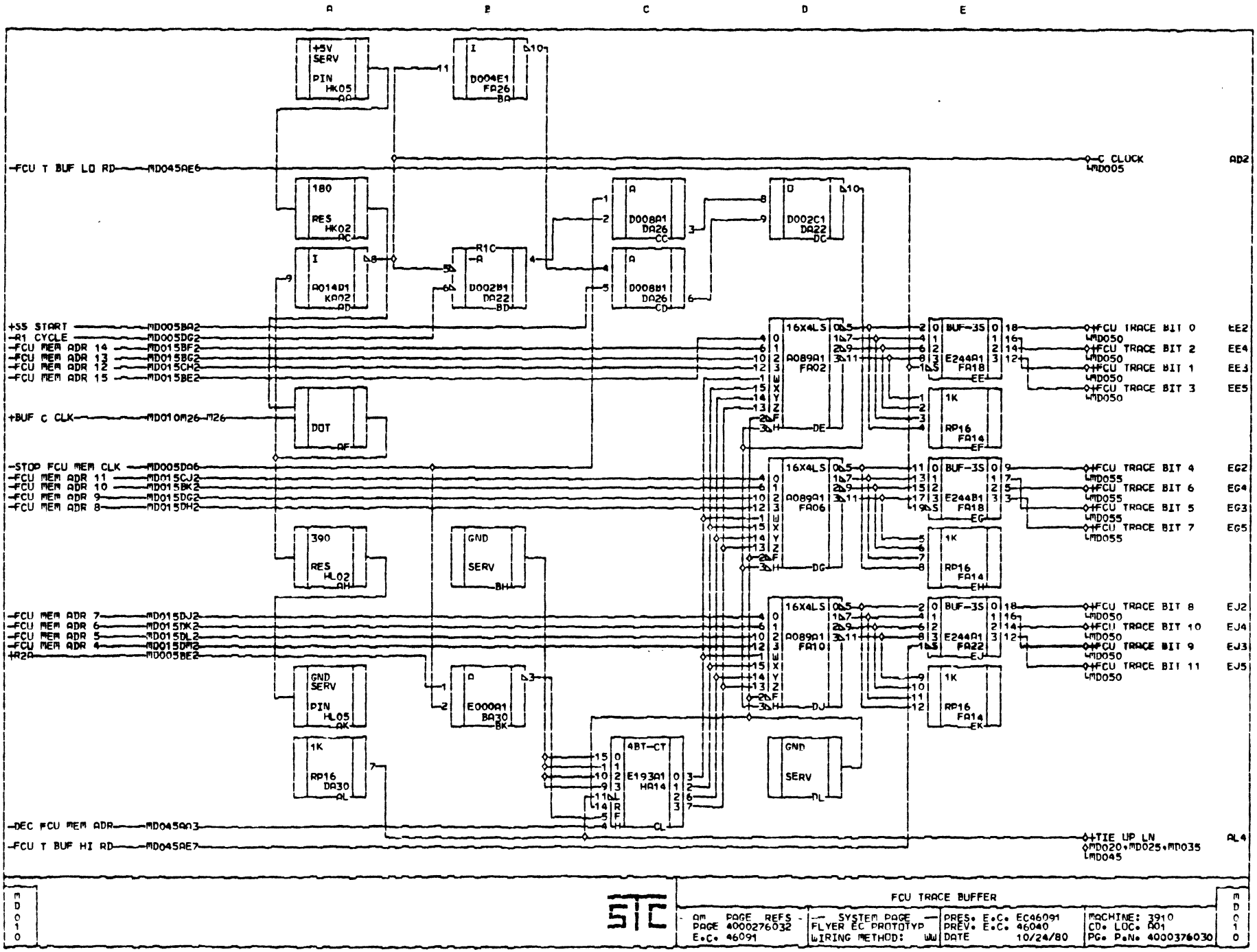
IC LOCATION CHART MD CARD FOR DDD

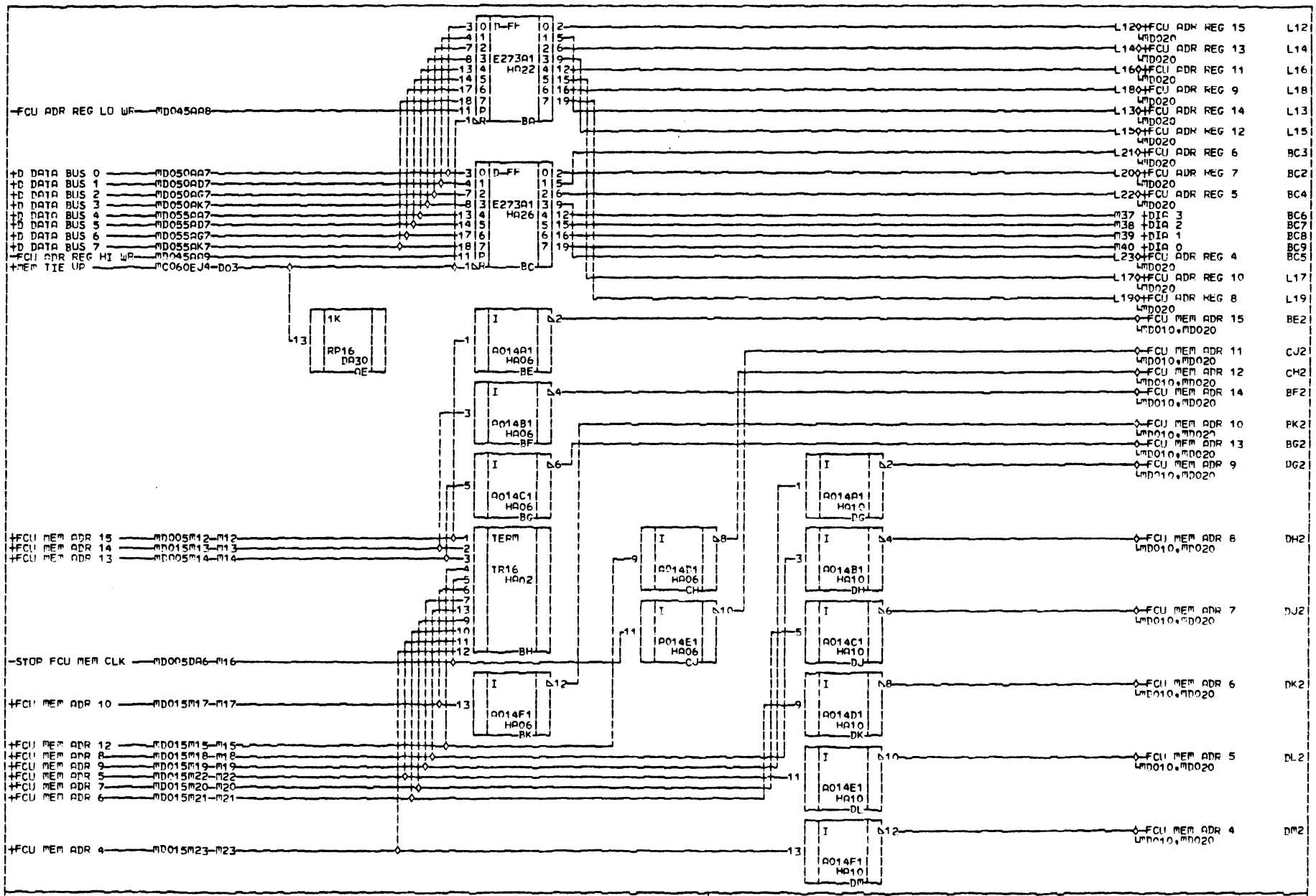
PRESENT EC	46091	DATE	10/23/80	CD PN	40001131039
PREV EC	46040	PAGE PN	4000058034	CD TYPE MD	FLEVEL 34559

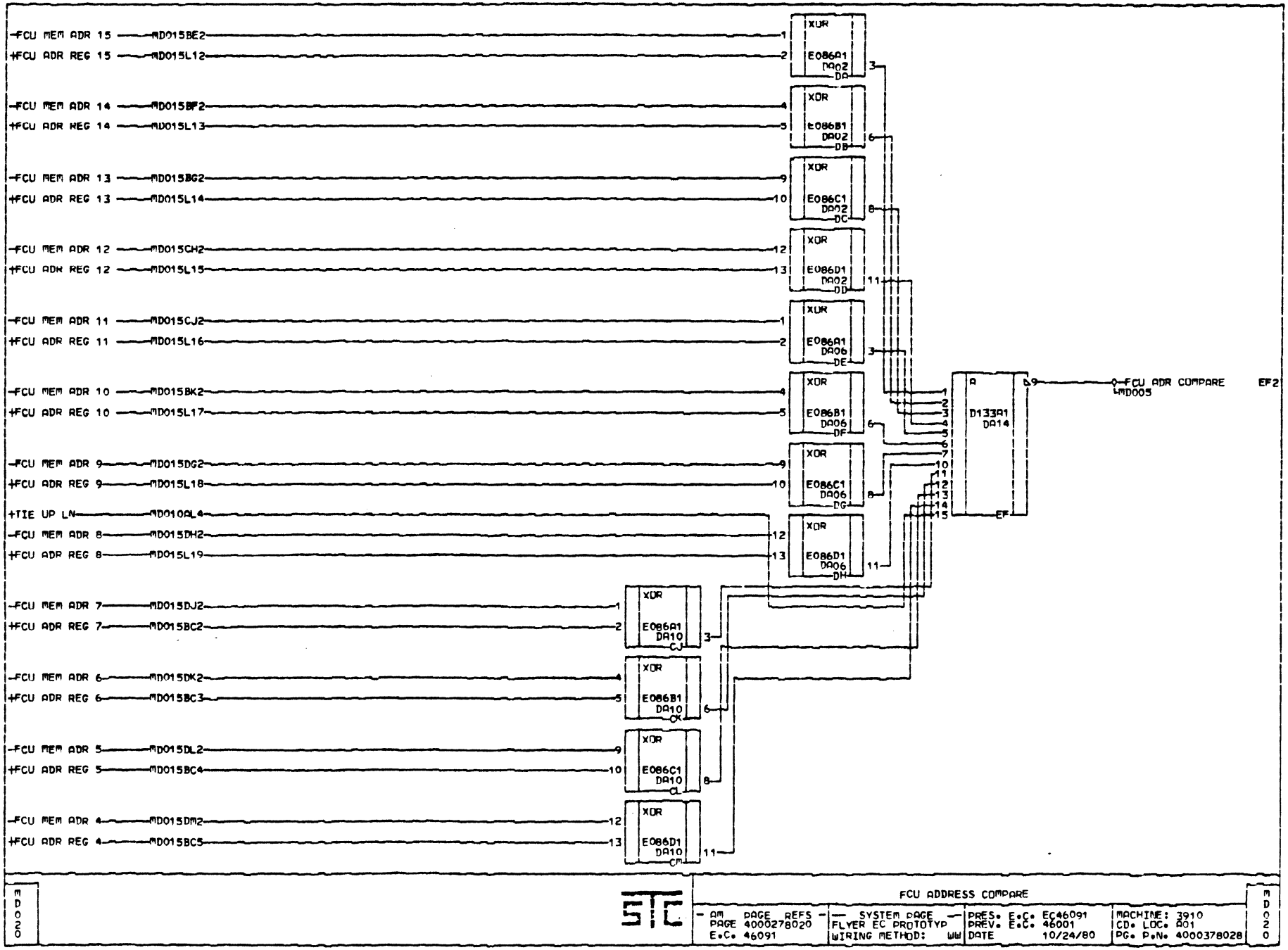
PAGE 2 OF 2

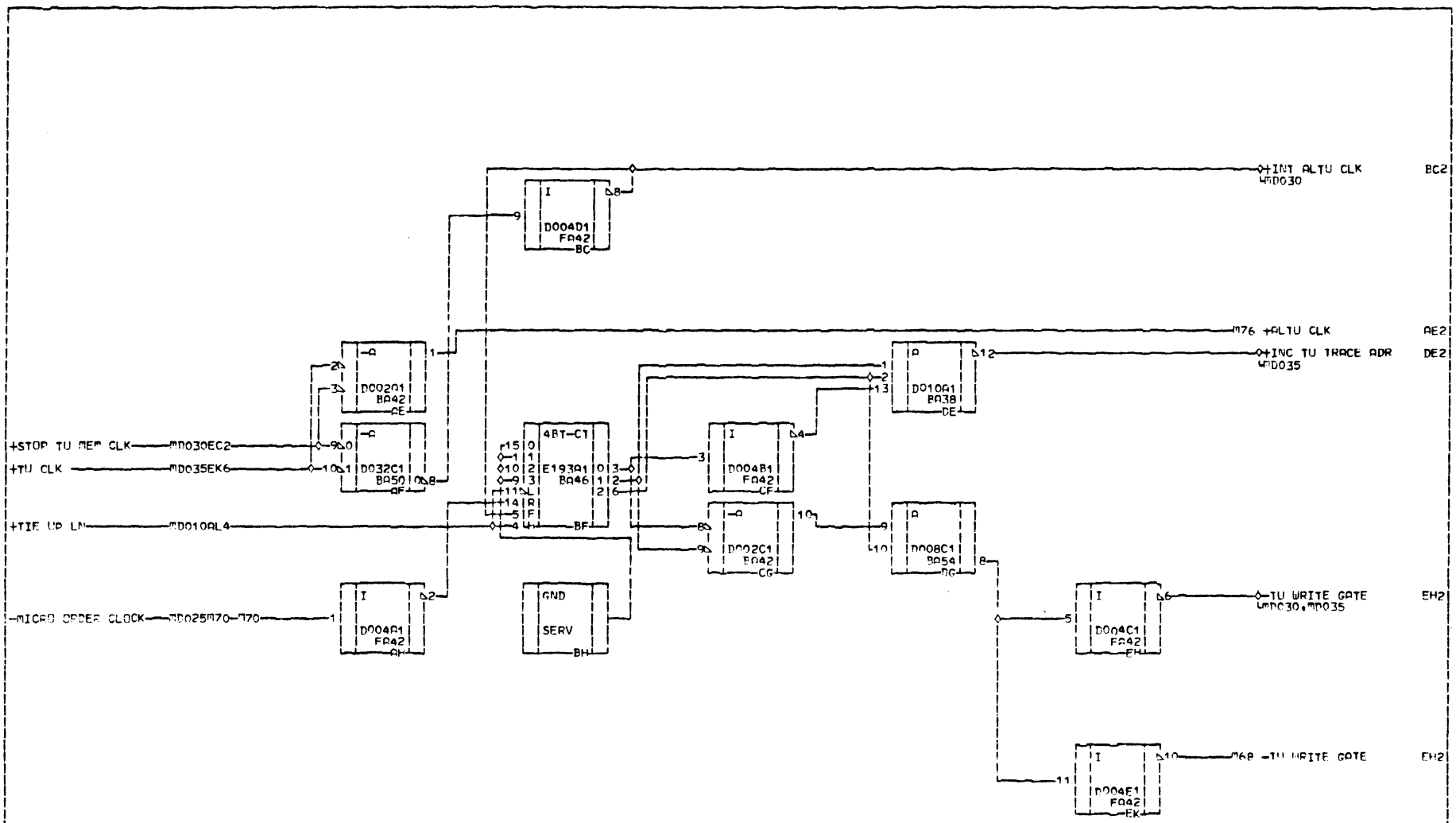
HMD1 12/02/80 12/02/80 PAGE: P0005S6


+D DATA BUS 0
+D DATA BUS 1
+STOP TU MEM CLK
-RESET PULSE
+D DATA BUS 2
+D DATA BUS 3
+D DATA BUS 4
-FCU ADR COMPARE
-C CLOCK
+D DATA BUS 5
-FCU CONTROL WR
+BUF A CLK
-BUF R1 CYCLE
+STOP FCU MEM CLK
+SS START
+R2A
+R1 CYCLE
+FCU LOAD ADR
+ADR CMP SYNC
+INTRQ
FCU MICRO-SEQUENCER CONTROL


+5V SERV PIN HK05 AA
D004E1 FA26 BA
C CLOCK MD005 AD2
-FCU T BUF LO RD MD045AE6
180 RES HK02 AC
A014D1 KA02 AD
D008A1 DA26 CC
D002C1 DA22 DC
R1C D002B1 DA22 BD
D008B1 DA26 CD
+SS START MD005BA2
-R1 CYCLE MD005DG2
-FCU MEM ADR 14 MD015BF2
-FCU MEM ADR 13 MD015BG2
-FCU MEM ADR 12 MD015CH2
-FCU MEM ADR 15 MD015BE2
16X4LS A089A1 FA02 DE
BUF-3S E244A1 FA18 EE
1K RP16 FA14 EF
FCU TRACE BIT 0 EE2
FCU TRACE BIT 2 EE4
FCU TRACE BIT 1 EE3
FCU TRACE BIT 3 EE5
+BUF C CLK MD010M26-M26
DOT AF
-STOP FCU MEM CLK MD005DA6
-FCU MEM ADR 11 MD015CJ2
-FCU MEM ADR 10 MD015BK2
-FCU MEM ADR 9 MD015DG2
-FCU MEM ADR 8 MD015DH2
16X4LS A089A1 FA06 DG
BUF-3S E244B1 FA18 EG
1K RP16 FA14 EH
FCU TRACE BIT 4 EG2
FCU TRACE BIT 6 EG4
FCU TRACE BIT 5 EG3
FCU TRACE BIT 7 EG5
390 RES HL02 AH
GND SERV BH
-FCU MEM ADR 7 MD015DJ2
-FCU MEM ADR 6 MD015DK2
-FCU MEM ADR 5 MD015DL2
-FCU MEM ADR 4 MD015DM2
+R2A MD005BE2
16X4LS A089A1 FA10 DJ
BUF-3S E244A1 FA22 EJ
1K RP16 FA14 EK
FCU TRACE BIT 8 EJ2
FCU TRACE BIT 10 EJ4
FCU TRACE BIT 9 EJ3
FCU TRACE BIT 11 EJ5
GND SERV PIN HL05 AK
E000A1 BA30 BK
1K RP16 DA30 AL
4BT-CT E193A1 HA14 CL
GND SERV DL
-DEC FCU MEM ADR MD045A03
-FCU T BUF HI RD MD045AE7
TIE UP LN MD020•MD025•MD035 MD045 AL4
FCU TRACE BUFFER
PAGE 4000276032
E.C. 46091
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. EC46091
PREV. E.C. 46040
DATE 10/24/80
MACHINE: 3910
CD. LOC. A01
PG. P.N. 4000376030

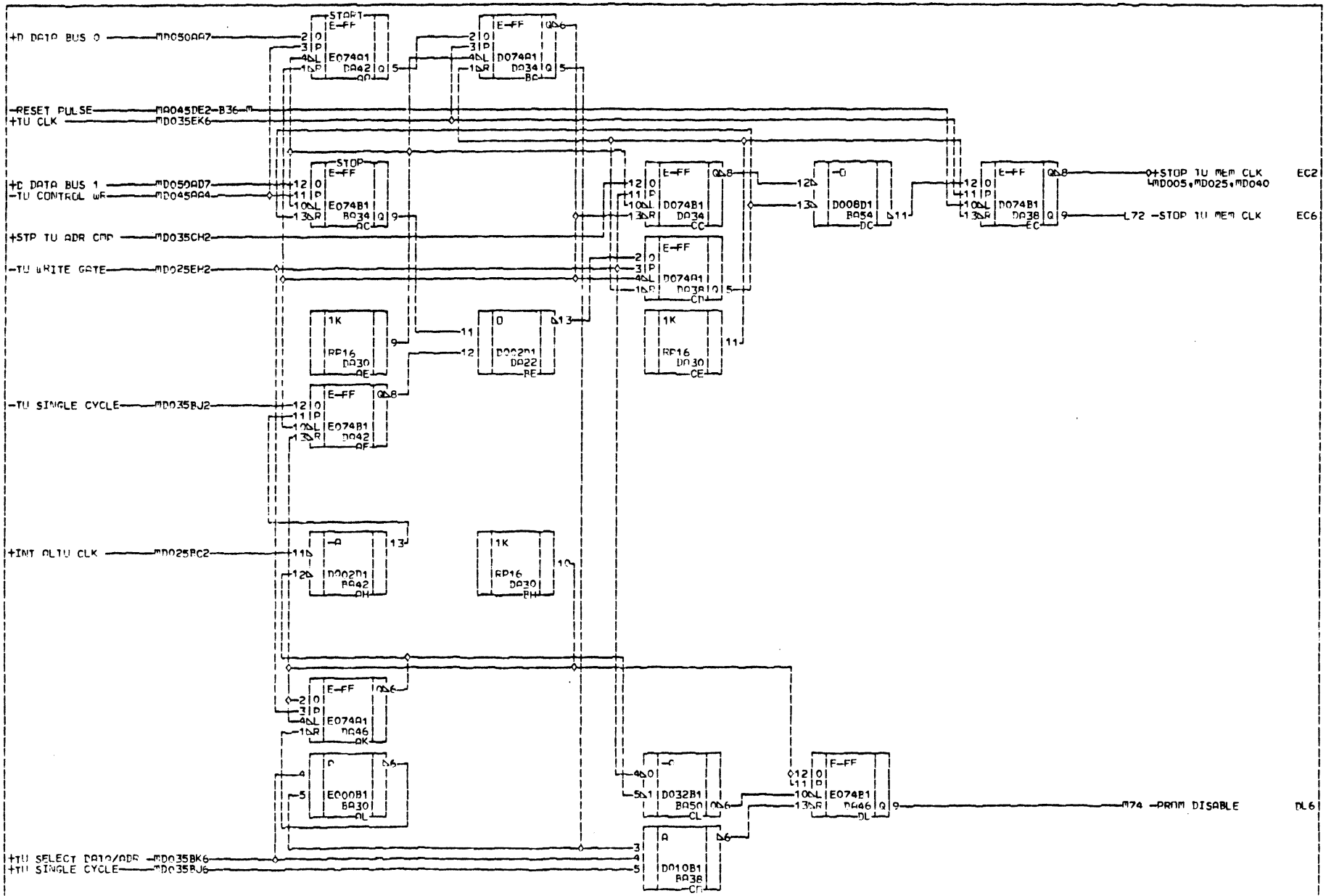

FCU ADR REG LO WR MD045AA8
+D DATA BUS 0 MD050AA7
+D DATA BUS 1 MD050AD7
+D DATA BUS 2 MD050AG7
+D DATA BUS 3 MD050AK7
+D DATA BUS 4 MD055AA7
+D DATA BUS 5 MD055AD7
+D DATA BUS 6 MD055AG7
+D DATA BUS 7 MD055AK7
FCU ADR REG HI WR MD045AA9
+MEM TIE UP MC060EJ4-D03
E273A1 HA22 BA
E273A1 HA26 BC
1K RP16 DA30 AE
A014A1 HA06 BE
A014B1 HA06 BF
A014C1 HA06 BG
A014D1 HA06 CH
A014E1 HA06 CJ
A014F1 HA06 BK
TERM TR16 HA02 BH
+FCU MEM ADR 15 MD005M12-M12
+FCU MEM ADR 14 MD015M13-M13
+FCU MEM ADR 13 MD005M14-M14
-STOP FCU MEM CLK MD005DA6-M16
+FCU MEM ADR 10 MD015M17-M17
+FCU MEM ADR 12 MD015M15-M15
+FCU MEM ADR 8 MD015M18-M18
+FCU MEM ADR 9 MD015M19-M19
+FCU MEM ADR 5 MD015M22-M22
+FCU MEM ADR 7 MD015M20-M20
+FCU MEM ADR 6 MD015M21-M21
+FCU MEM ADR 4 MD015M23-M23
L120 +FCU ADR REG 15 MD020
L140 +FCU ADR REG 13 MD020
L160 +FCU ADR REG 11 MD020
L180 +FCU ADR REG 9 MD020
L130 +FCU ADR REG 14 MD020
L150 +FCU ADR REG 12 MD020
L210 +FCU ADR REG 6 MD020
L200 +FCU ADR REG 7 MD020
L220 +FCU ADR REG 5 MD020
M37 +DIA 3
M38 +DIA 2
M39 +DIA 1
M40 +DIA 0
L230 +FCU ADR REG 4 MD020
L170 +FCU ADR REG 10 MD020
L190 +FCU ADR REG 8 MD020
A014A1 HA10 DG
A014B1 HA10 DH
A014C1 HA10 DJ
A014D1 HA10 DK
A014E1 HA10 DL
A014F1 HA10 DM
+FCU MEM ADR 15 MD010•MD020
+FCU MEM ADR 11 MD010•MD020
+FCU MEM ADR 12 MD010•MD020
+FCU MEM ADR 14 MD010•MD020
+FCU MEM ADR 10 MD010•MD020
+FCU MEM ADR 13 MD010•MD020
+FCU MEM ADR 9 MD010•MD020
+FCU MEM ADR 8 MD010•MD020
+FCU MEM ADR 7 MD010•MD020
+FCU MEM ADR 6 MD010•MD020
+FCU MEM ADR 5 MD010•MD020
+FCU MEM ADR 4 MD010•MD020
FCU ADDRESS REGISTER AND MEM ADDRESS BUFFERS
PAGE REFS
PAGE 4000277022
E.C. 46040
SYSTEM PAGE
FLYER EC PROTOTYPE
WIRING METHOD: WW
PRES. E.C. 46040
PREV. E.C. 46001
DATE 7/18/79
MACHINE: 3910
CD. LOC. A01
PG. P.N. 4000377020

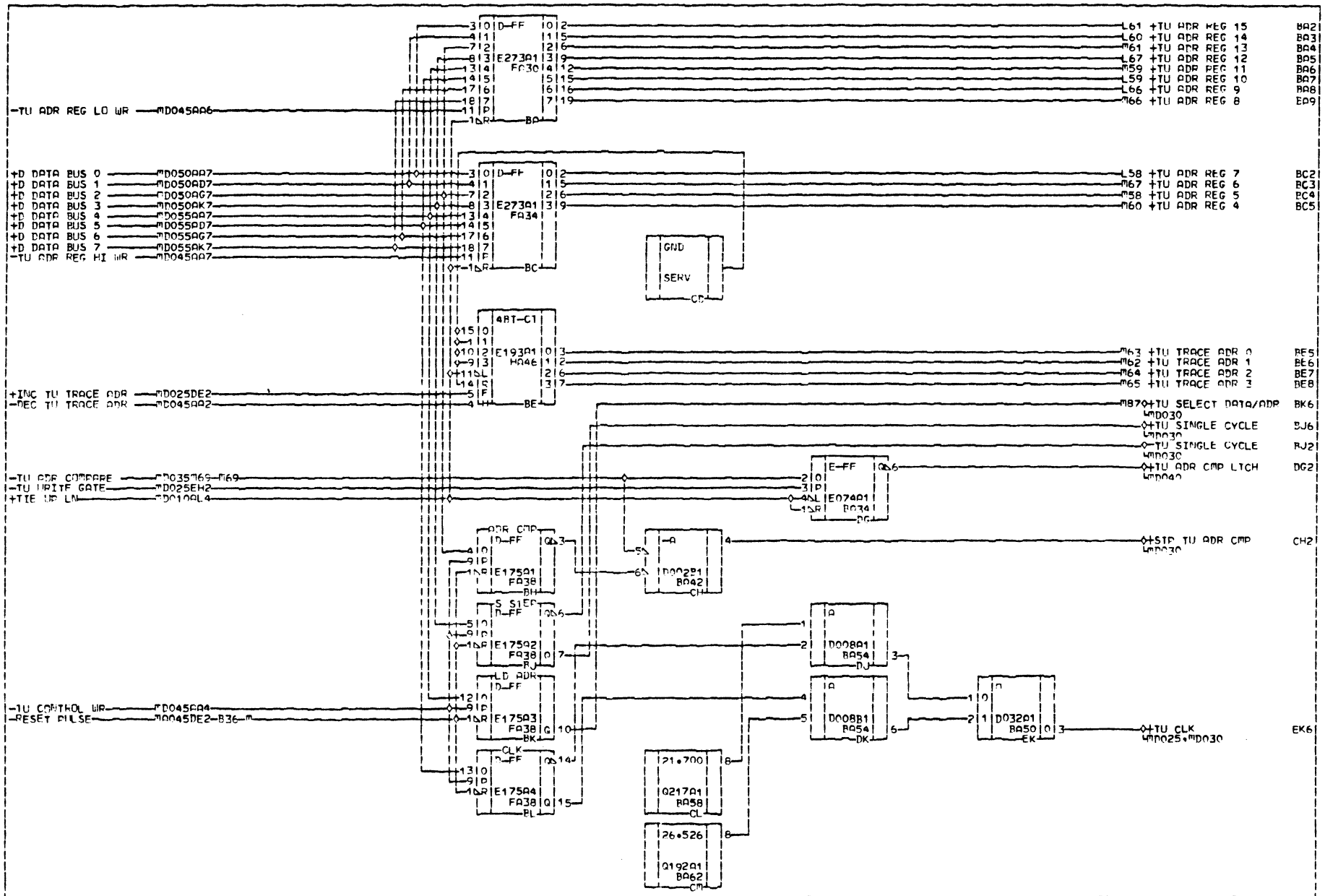

A
B
C
D
E
FCU MEM ADR 15
MD015BE2
FCU ADR REG 15
MD015L12
FCU MEM ADR 14
MD015BF2
FCU ADR REG 14
MD015L13
FCU MEM ADR 13
MD015BG2
FCU ADR REG 13
MD015L14
FCU MEM ADR 12
MD015CH2
FCU ADR REG 12
MD015L15
FCU MEM ADR 11
MD015CJ2
FCU ADR REG 11
MD015L16
FCU MEM ADR 10
MD015BK2
FCU ADR REG 10
MD015L17
FCU MEM ADR 9
MD015DG2
FCU ADR REG 9
MD015L18
TIE UP LN
MD010AL4
FCU MEM ADR 8
MD015DH2
FCU ADR REG 8
MD015L19
FCU MEM ADR 7
MD015DJ2
FCU ADR REG 7
MD015BC2
FCU MEM ADR 6
MD015DK2
FCU ADR REG 6
MD015BC3
FCU MEM ADR 5
MD015DL2
FCU ADR REG 5
MD015BC4
FCU MEM ADR 4
MD015DM2
FCU ADR REG 4
MD015BC5
XOR
E086A1
DA02
DA
E086B1
DA02
DB
E086C1
DA02
DC
E086D1
DA02
DD
E086A1
DA06
DE
E086B1
DA06
DF
E086C1
DA06
DG
E086D1
DA06
DH
E086A1
DA10
CJ
E086B1
DA10
CK
E086C1
DA10
CL
E086D1
DA10
CM
D133A1
DA14
A
EF
FCU ADR COMPARE
MD005
EF2
FCU ADDRESS COMPARE
AM PAGE REFS
PAGE 4000278020
E.C. 46091
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. EC46091
PREV. E.C. 46001
DATE 10/24/80
MACHINE: 3910
CD. LOC. 001
PG. P.N. 4000378028
MD020



MD025		TU MICRO-SEQUENCER COUNTER	MD025
		- DM PAGE REFS - PAGE 4000279028 E.C. 46040	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46040 PREV. E.C. 46001 DATE 7/18/79	MACHINE: 3910 CD. LOC. A01 PG. P.N. 4000379026

HM01 07/19/79


+D DATA BUS 0
MD050AA7
-RESET PULSE
MA045DE2-B36-M
+TU CLK
MD035EK6
+C DATA BUS 1
MD050AD7
-TU CONTROL WR
MD045AA4
+STP TU ADR CMP
MD035CH2
-TU WRITE GATE
MD025EH2
-TU SINGLE CYCLE
MD035BJ2
+INT ALTU CLK
MD025BC2
+TU SELECT DATA/ADR
MD035BK6
+TU SINGLE CYCLE
MD035BJ6
+STOP TU MEM CLK
MD005,MD025,MD040
-STOP TU MEM CLK
-PROM DISABLE
TU MICRO-SEQUENCER CONTROL
SYSTEM PAGE
PAGE 4000280026
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. 46040
PREV. E.C. 46001
DATE 7/18/79
MACHINE: 3910
CD. LOC. A01
PG. P.NO. 4000380024


-TU ADR REG LO WR
+D DATA BUS 0
+D DATA BUS 1
+D DATA BUS 2
+D DATA BUS 3
+D DATA BUS 4
+D DATA BUS 5
+D DATA BUS 6
+D DATA BUS 7
-TU ADR REG HI WR
+INC TU TRACE ADR
-DEC TU TRACE ADR
-TU ADR COMPARE
-TU WRITE GATE
+TIE UP LN
-TU CONTROL WR
-RESET PULSE
L61 +TU ADR REG 15
L60 +TU ADR REG 14
M61 +TU ADR REG 13
L67 +TU ADR REG 12
M59 +TU ADR REG 11
L59 +TU ADR REG 10
L66 +TU ADR REG 9
M66 +TU ADR REG 8
L58 +TU ADR REG 7
M67 +TU ADR REG 6
M58 +TU ADR REG 5
M60 +TU ADR REG 4
M63 +TU TRACE ADR 0
M62 +TU TRACE ADR 1
M64 +TU TRACE ADR 2
M65 +TU TRACE ADR 3
M87 +TU SELECT DATA/ADR
+TU SINGLE CYCLE
+TU SINGLE CYCLE
+TU ADR CMP LTCH
+SIP TU ADR CMP
+TU CLK
D-FF
E273A1
FA30
FA34
E193A1
MA46
E-FF
E074A1
BA34
ADR CMP
E175A1
FA38
S S1EP
E175A2
LD ADR
E175A3
CLK
E175A4
4BT-C1
GND
SERV
A
D002B1
BA42
D008A1
BA54
D008B1
D032A1
BA50
21.700
0217A1
BA58
26.526
0192A1
BA62
TU ADR REG AND TRACE BUF ADR LINES
PAGE 4000281024
E.C. 46040
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES. E.C. 46040
PREV. E.C. 46001
DATE 7/18/79
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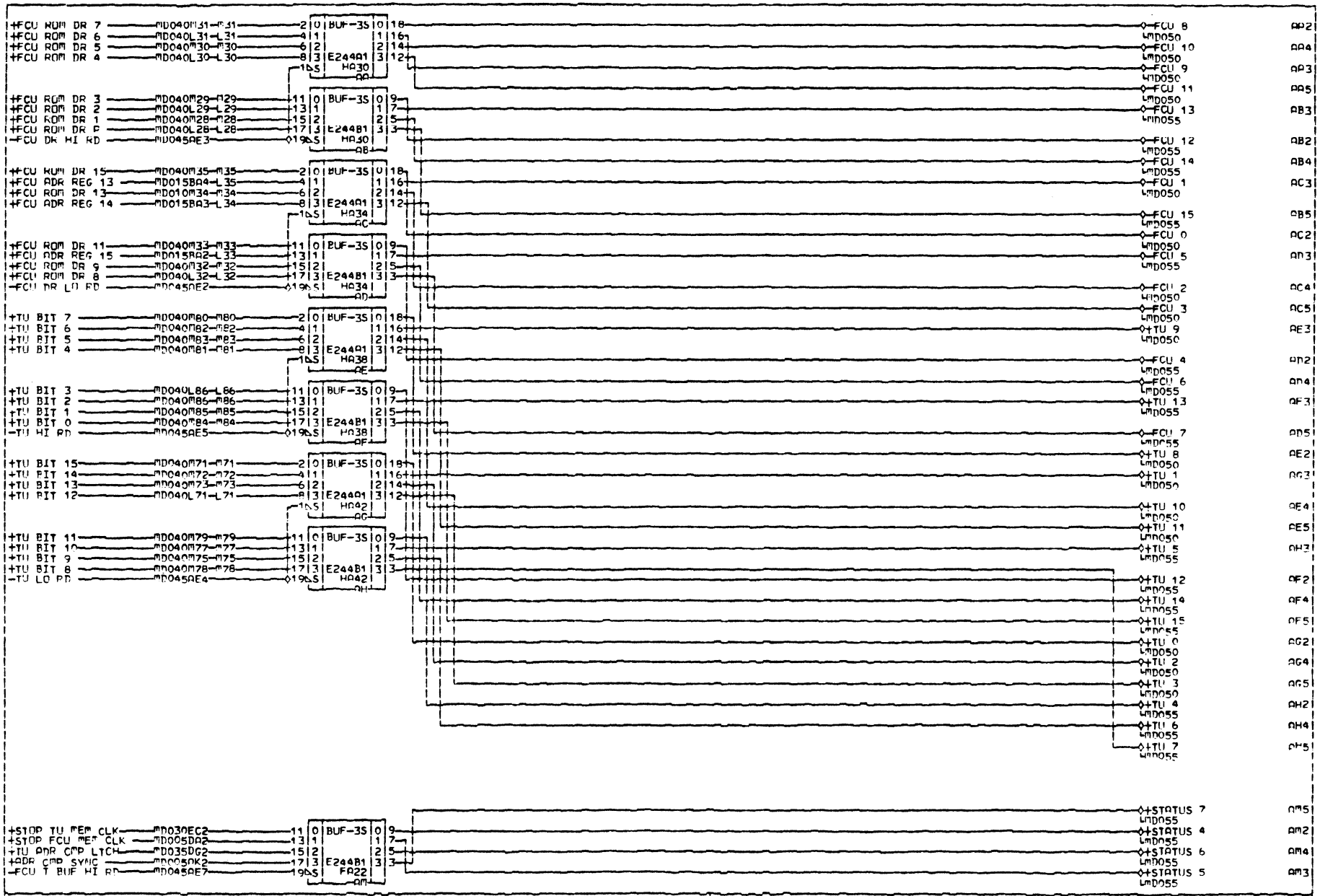
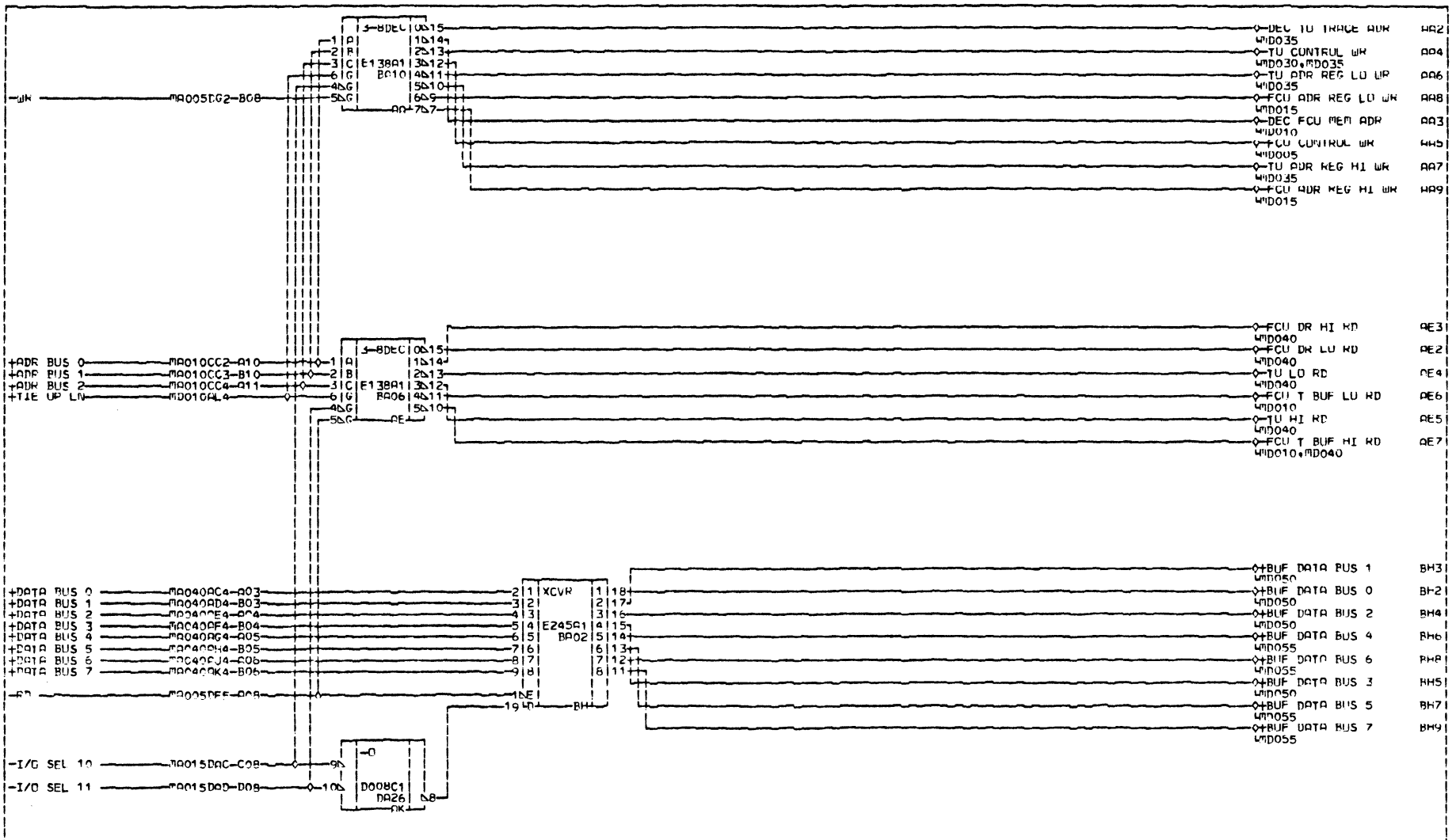
CD. LOC. A01
PG. P.No. 4000381022



ECU PROM DATA AND TU DATA/TRACE BUFFER ADDRESS LINES

AM PAGE REFS	SYSTEM PAGE			
PAGE 4000282022	FLYER EC PROTOTYP	PRES. E.C. 46040	MACHINE: 3910	
E.C. 46040	WIRING METHOD: WW	PREV. E.C. 46001	CD. LOC. A01	
		DATE 7/18/79	PG. P.N. 4000382020	

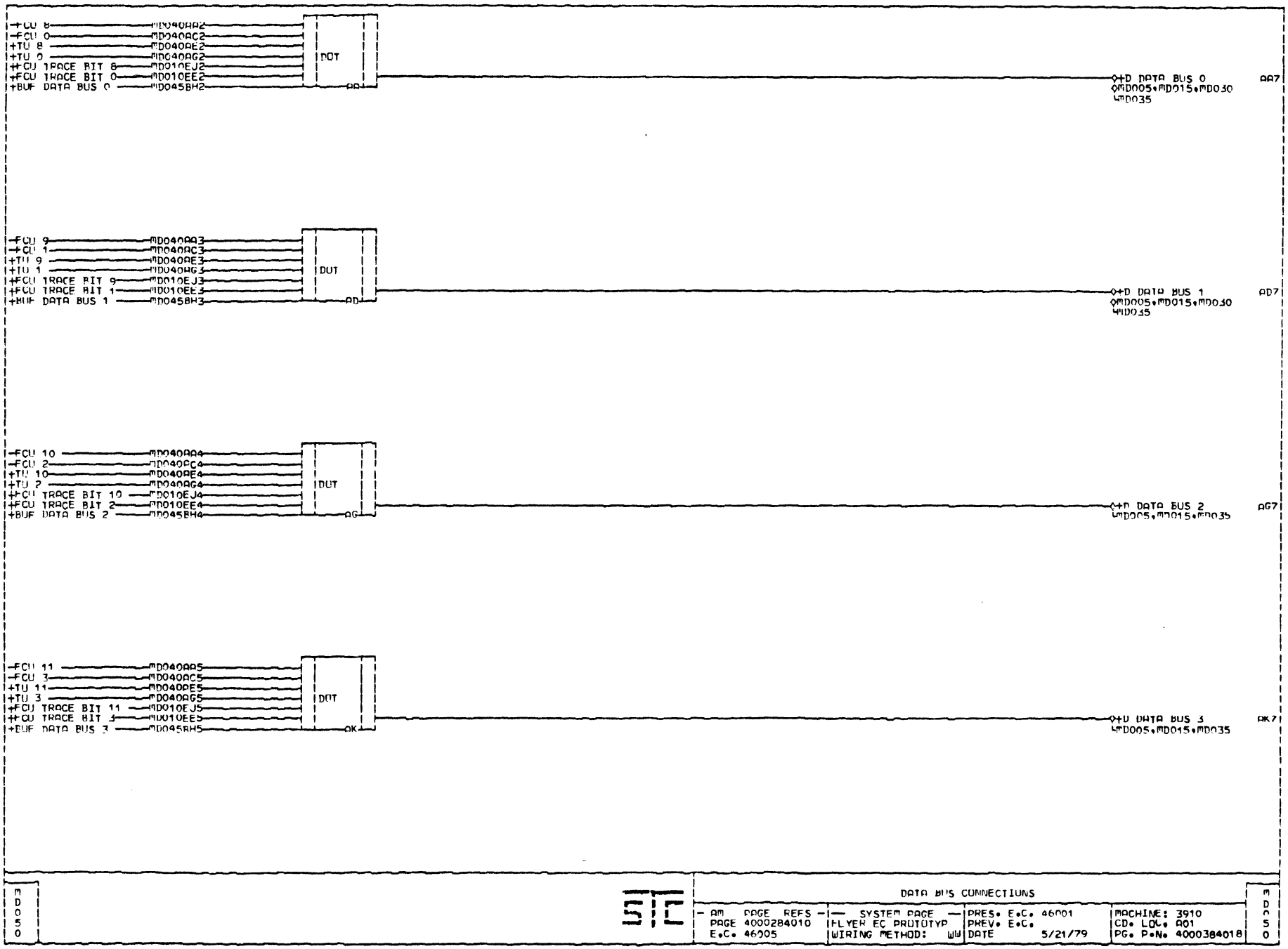
HMD1 07/19/79

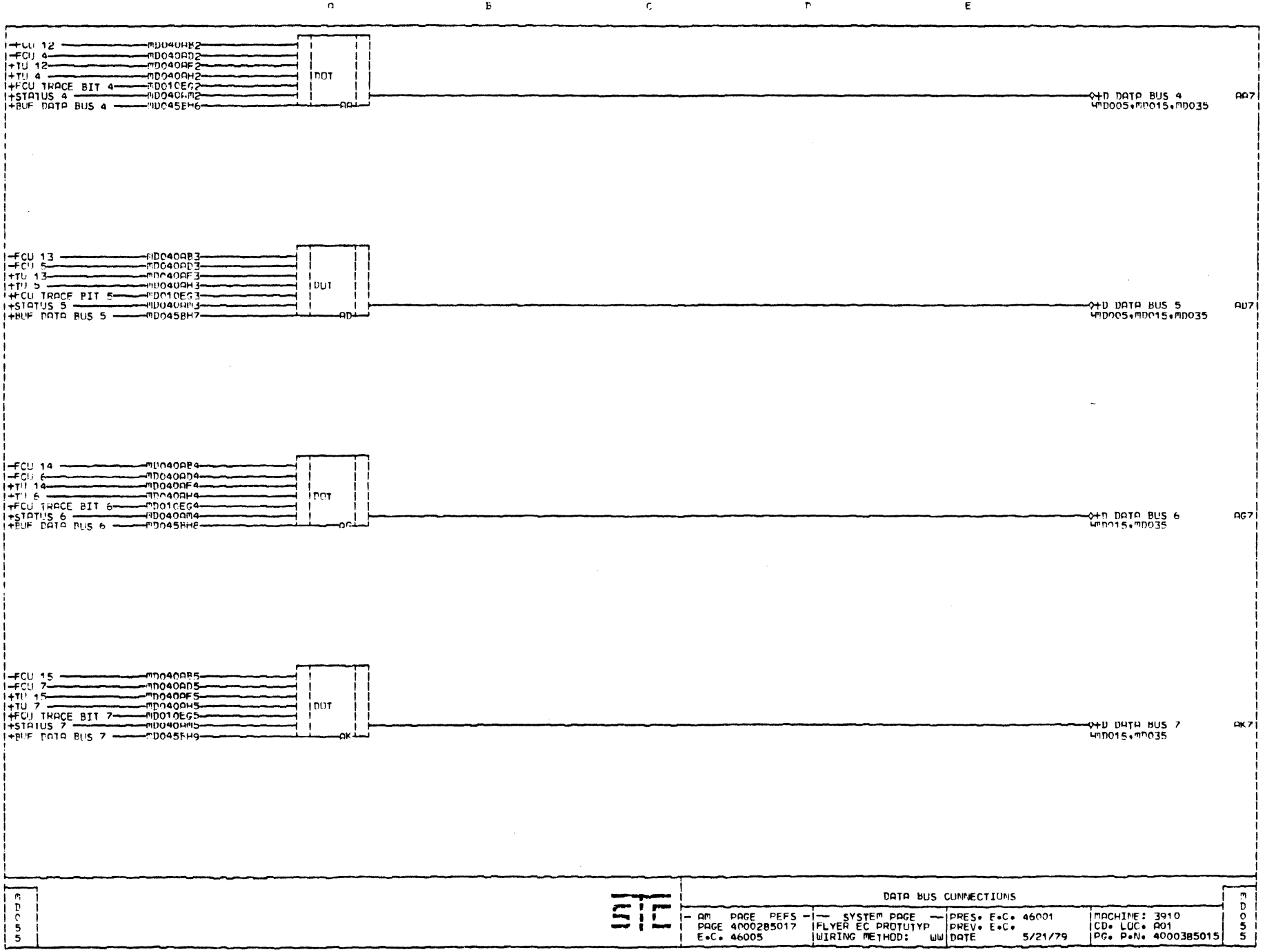


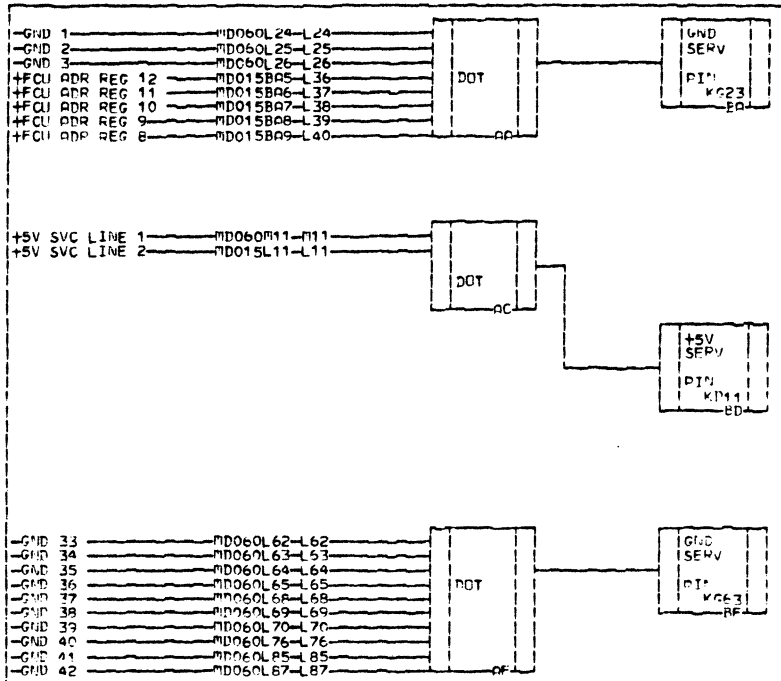
MD045

I/O SELECTS AND DATA BUS BUFFERING-Z80 INTERFACE

AM PAGE REFS — PAGE 4000283012 E•C• 46005	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES• E•C• 46001 PREV• E•C• DATE 5/21/79	MACHINE: 3910 CD• LUC• A01 PG• P•N• 4000383010


+FCU 8
+FCU 0
+TU 8
+TU 0
+FCU TRACE BIT 8
+FCU TRACE BIT 0
+BUF DATA BUS 0
MD040AA2
MD040AC2
MD040AE2
MD040AG2
MD010EJ2
MD010EE2
MD045BH2
DOT
AA1
+D DATA BUS 0
MD005•MD015•MD030
MD035
AA7
+FCU 9
+FCU 1
+TU 9
+TU 1
+FCU TRACE BIT 9
+FCU TRACE BIT 1
+BUF DATA BUS 1
MD040AA3
MD040AC3
MD040AE3
MD040AG3
MD010EJ3
MD010EE3
MD045BH3
DOT
AD1
+D DATA BUS 1
MD005•MD015•MD030
MD035
AD7
+FCU 10
+FCU 2
+TU 10
+TU 2
+FCU TRACE BIT 10
+FCU TRACE BIT 2
+BUF DATA BUS 2
MD040AA4
MD040AC4
MD040AE4
MD040AG4
MD010EJ4
MD010EE4
MD045BH4
DOT
AG1
+D DATA BUS 2
MD005•MD015•MD035
AG7
+FCU 11
+FCU 3
+TU 11
+TU 3
+FCU TRACE BIT 11
+FCU TRACE BIT 3
+BUF DATA BUS 3
MD040AA5
MD040AC5
MD040AE5
MD040AG5
MD010EJ5
MD010EE5
MD045BH5
DOT
AK1
+D DATA BUS 3
MD005•MD015•MD035
AK7
DATA BUS CONNECTIONS
- AM PAGE REFS -
PAGE 4000284010
E•C• 46005
— SYSTEM PAGE —
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES• E•C• 46001
PREV• E•C•
DATE 5/21/79
MACHINE: 3910
CD• LOC• A01
PG• P•N• 4000384018
MD050


A
B
C
D
E
+FCU 12
+FCU 4
+TU 12
+TU 4
+FCU TRACE BIT 4
+STATUS 4
+BUF DATA BUS 4
MD040AH2
MD040AD2
MD040AF2
MD040AH2
MD01CEG2
MD040AM2
MD045BH6
DDT
AA
+D DATA BUS 4
MD005•MD015•MD035
AA7
+FCU 13
+FCU 5
+TU 13
+TU 5
+FCU TRACE BIT 5
+STATUS 5
+BUF DATA BUS 5
MD040AB3
MD040AD3
MD040AF3
MD040AH3
MD01CEG3
MD040AM3
MD045BH7
DDT
AD
+D DATA BUS 5
MD005•MD015•MD035
AD7
+FCU 14
+FCU 6
+TU 14
+TU 6
+FCU TRACE BIT 6
+STATUS 6
+BUF DATA BUS 6
MD040AB4
MD040AD4
MD040AF4
MD040AH4
MD01CEG4
MD040AM4
MD045BH8
DDT
AG
+D DATA BUS 6
MD015•MD035
AG7
+FCU 15
+FCU 7
+TU 15
+TU 7
+FCU TRACE BIT 7
+STATUS 7
+BUF DATA BUS 7
MD040AB5
MD040AD5
MD040AF5
MD040AH5
MD01CEG5
MD040AM5
MD045BH9
DDT
AK
+D DATA BUS 7
MD015•MD035
AK7
MD055
DATA BUS CONNECTIONS
AM PAGE PEFS
PAGE 4000285017
E•C• 46005
SYSTEM PAGE
FLYER EC PROTOTYP
WIRING METHOD: WW
PRES• E•C• 46001
PREV• E•C•
DATE 5/21/79
MACHINE: 3910
CD• LOC• A01
PG• P•N• 4000385015
MD055
HMD1 05/23/79



M D 0 6 0	SIGNAL GROUNDS AND +5V SVC				M D 0 6 0
	— OF PAGE REFS — PAGE 4000286023 E.C. 46040	— SYSTEM PAGE — FLYER EC PROTOTYP WIRING METHOD: WW	PRES. E.C. 46040 PREV. E.C. 46001 DATE 7/18/79	MACHINE: 3910 CD. LOC. A01 PG. P.N. 4000406027	

HMD1 07/19/79

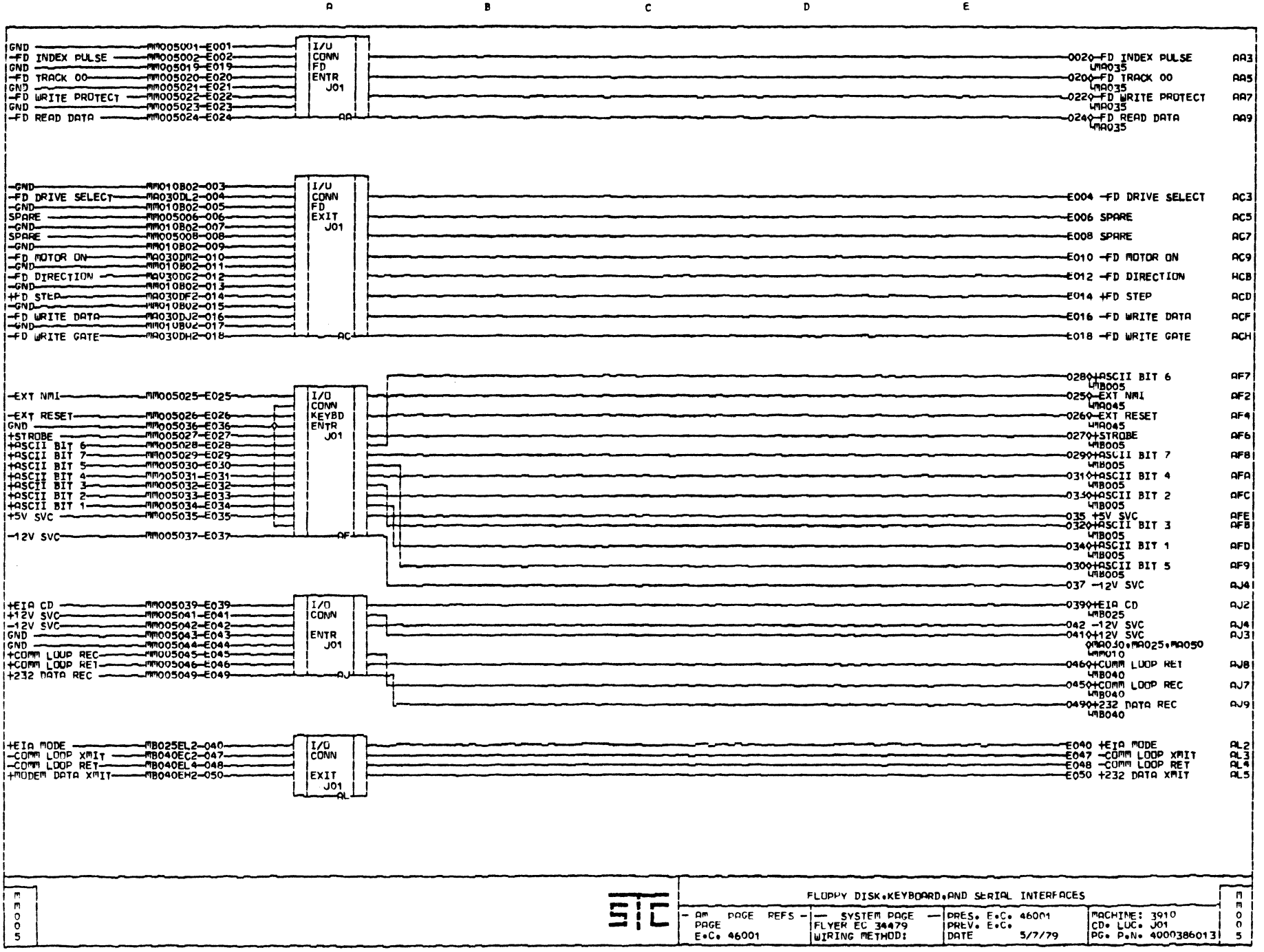
BUILD ARC DOC

ASSEMBLY PARTS LIST

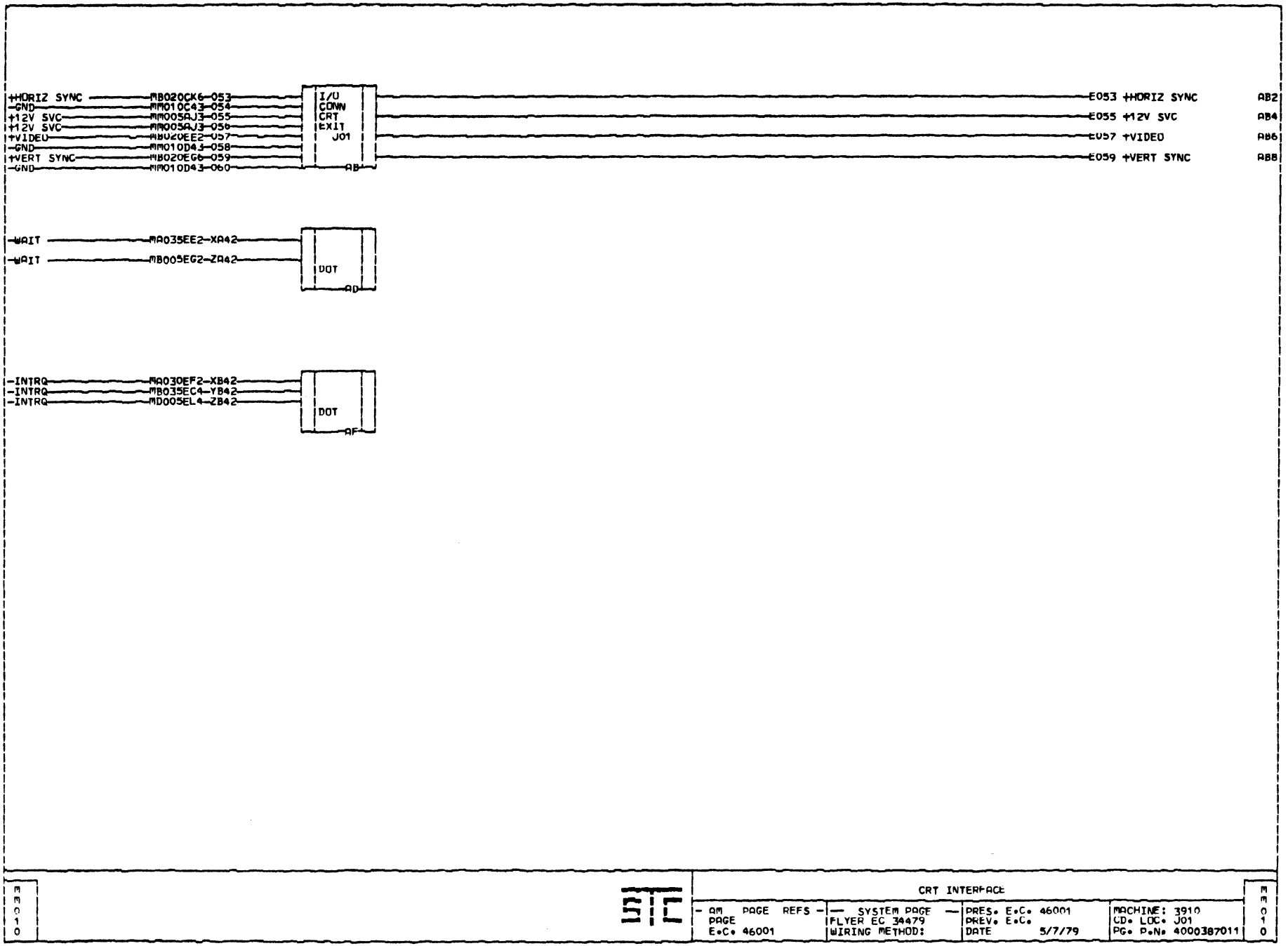
PRINT DATE	PAGE	E.C. NO.
01-07-81	1	46001

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	400040801	5	A	N	SLG,MM,PAGES	N	REL	06-21-79	3910	06-21-79

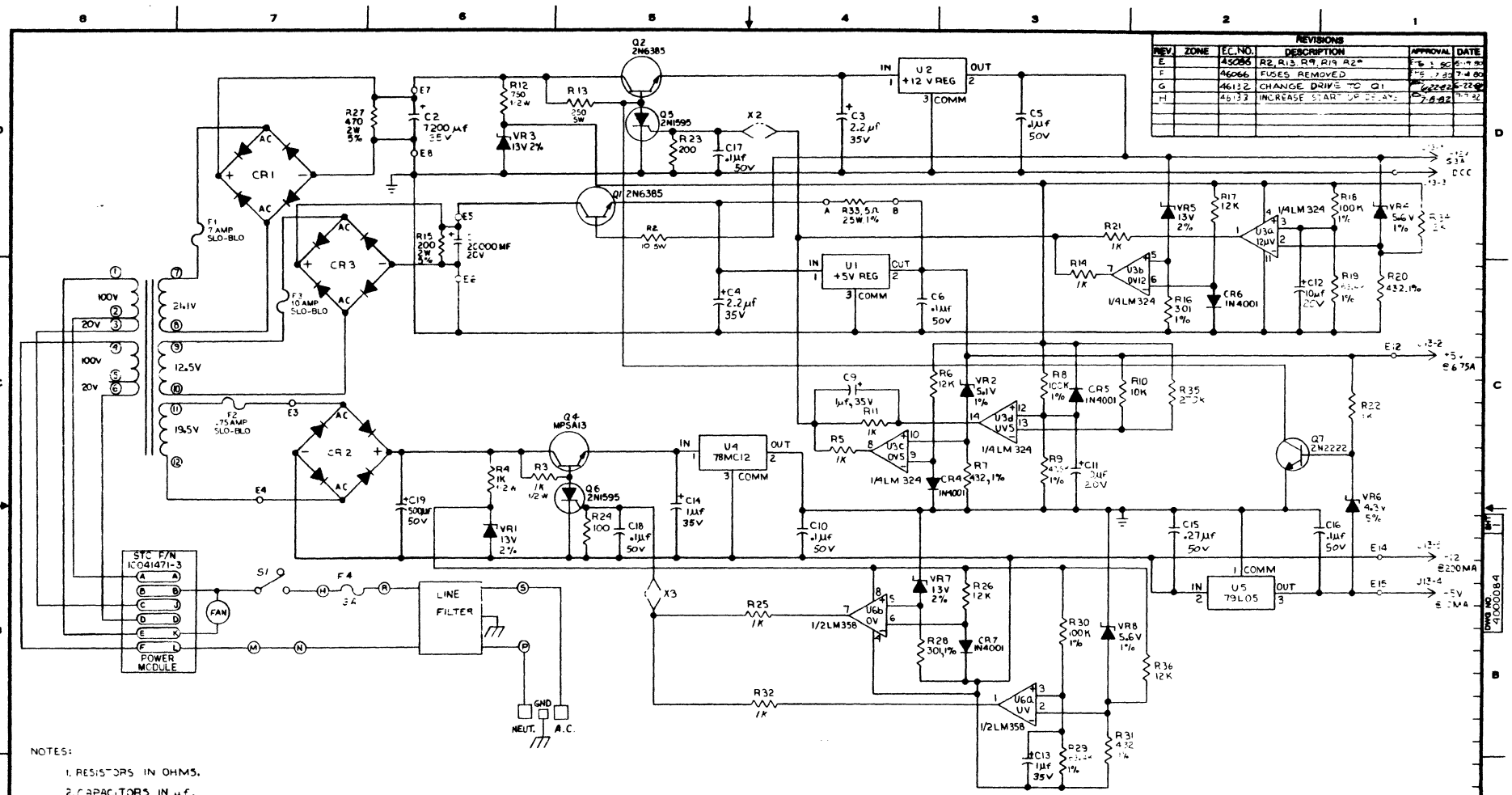
T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	001	01	400038601	3		REF	PC	SYS LOGIC,MM005	D						
	002	01	400038701	1		REF	PC	SYS LOGIC,MM010	D						
								0002 TOTAL LINES							


A
B
C
D
E
GND MM005001-E001 I/O CONN FD ENTR J01
FD INDEX PULSE MM005002-E002
GND MM005019-E019
FD TRACK 00 MM005020-E020
GND MM005021-E021
FD WRITE PROTECT MM005022-E022
GND MM005023-E023
FD READ DATA MM005024-E024 AA
0020 FD INDEX PULSE AA3 MA035
0200 FD TRACK 00 AA5 MA035
0220 FD WRITE PROTECT AA7 MA035
0240 FD READ DATA AA9 MA035
GND MM010B02-003 I/O CONN FD EXIT J01
FD DRIVE SELECT MA030DL2-004
GND MM010B02-005
SPARE MM005006-006
GND MM010B02-007
SPARE MM005008-008
GND MM010B02-009
FD MOTOR ON MA030DM2-010
GND MM010B02-011
FD DIRECTION MA030DG2-012
GND MM010B02-013
FD STEP MA030DF2-014
GND MM010B02-015
FD WRITE DATA MA030DJ2-016
GND MM010B02-017
FD WRITE GATE MA030DH2-018 AC
E004 FD DRIVE SELECT AC3
E006 SPARE AC5
E008 SPARE AC7
E010 FD MOTOR ON AC9
E012 FD DIRECTION ACB
E014 FD STEP ACD
E016 FD WRITE DATA ACF
E018 FD WRITE GATE ACH
EXT NMI MM005025-E025 I/O CONN KEYBD ENTR J01
EXT RESET MM005026-E026
GND MM005036-E036
STROBE MM005027-E027
ASCII BIT 6 MM005028-E028
ASCII BIT 7 MM005029-E029
ASCII BIT 5 MM005030-E030
ASCII BIT 4 MM005031-E031
ASCII BIT 3 MM005032-E032
ASCII BIT 2 MM005033-E033
ASCII BIT 1 MM005034-E034
5V SVC MM005035-E035
12V SVC MM005037-E037 AF
0280 ASCII BIT 6 AF7 MB005
0250 EXT NMI AF2 MA045
0260 EXT RESET AF4 MA045
0270 STROBE AF6 MB005
0290 ASCII BIT 7 AF8 MB005
031◇ ASCII BIT 4 AFA MB005
0330 ASCII BIT 2 AFC MB005
035 +5V SVC AFE
032◇ ASCII BIT 3 AFB MB005
0340 ASCII BIT 1 AFD MB005
0300 ASCII BIT 5 AF9 MB005
037 -12V SVC AJ4
EIA CD MM005039-E039 I/O CONN ENTR J01
12V SVC MM005041-E041
-12V SVC MM005042-E042
GND MM005043-E043
GND MM005044-E044
COMM LOOP REC MM005045-E045
COMM LOOP RET MM005046-E046
232 DATA REC MM005049-E049 AJ
0390 EIA CD AJ2 MB025
042 -12V SVC AJ4
0410 12V SVC AJ3 MA050◇MA025◇MA030 MM010
0460 COMM LOOP RET AJ8 MB040
0450 COMM LOOP REC AJ7 MB040
0490 232 DATA REC AJ9 MB040
EIA MODE MB025EL2-040 I/O CONN EXIT J01
COMM LOOP XMIT MB040EC2-047
COMM LOOP RET MB040EL4-048
MODEM DATA XMIT MB040EH2-050 AL
E040 EIA MODE AL2
E047 COMM LOOP XMIT AL3
E048 COMM LOOP RET AL4
E050 232 DATA XMIT AL5
FLOPPY DISK, KEYBOARD, AND SERIAL INTERFACES
AM PAGE REFS - PAGE E.C. 46001
SYSTEM PAGE - FLYER EC 34479 WIRING METHOD:
PRES. E.C. 46001 PREV. E.C. DATE 5/7/79
MACHINE: 3910 CD. LOC. J01 PG. P.N. 4000386013
MM005

HMM 06/13/79


A
B
C
D
E
+HORIZ SYNC
-GND
+12V SVC
+12V SVC
+VIDEO
-GND
+VERT SYNC
-GND
MB020CK6-053
MM010C43-054
MM005AJ3-055
MM005AJ3-056
MB020EE2-057
MM010D43-058
MB020EG6-059
MM010D43-060
I/O
CONN
CRT
EXIT
J01
AB
E053 +HORIZ SYNC
E055 +12V SVC
E057 +VIDEO
E059 +VERT SYNC
AB2
AB4
AB6
AB8
-WAIT
-WAIT
MA035EE2-XA42
MB005EG2-ZA42
DOT
AD
-INTRQ
-INTRQ
-INTRQ
MA030EF2-XB42
MB035EC4-YB42
MD005EL4-ZB42
DOT
AF
CRT INTERFACE
- AM PAGE REFS -
PAGE
E.C. 46001
— SYSTEM PAGE —
FLYER EC 34479
WIRING METHOD:
PRES. E.C. 46001
PREV. E.C.
DATE 5/7/79
MACHINE: 3910
CD. LOC. J01
PG. P.N. 4000387011

HMM 06/13/79



NOTES:

1. RESISTORS IN OHMS.
2. CAPACITORS IN µf.
3. LAST REFERENCE DESIGNATION USED: R33, C19, CR7, U6, F4, Q7.
4. REF NOT USED: C8.
5. ALL RESISTORS 1/4W. 5% UNLESS OTHERWISE SPECIFIED.

PREVIOUS DWG. NO.	FIND NO.	REF. DES.	FIND NO.	REF. DES.

UNLESS OTHERWISE SPECIFIED:
THIS PART MUST CONFORM TO S.T.C. STANDARD 3000 PACKAGE PART PER S.T.C. SPEC
FINISH SPECS:
MATERIAL:
TOLERANCES

STORAGE TECHNOLOGY CORP.

TITLE: SCHEMATIC, PWR SUPPLY, 120V

	DFTG	CHECK	E.C. ENG	MAT ENG	APP	SCALE
NAME	BAJ					NONE
DATE	2-23-79					

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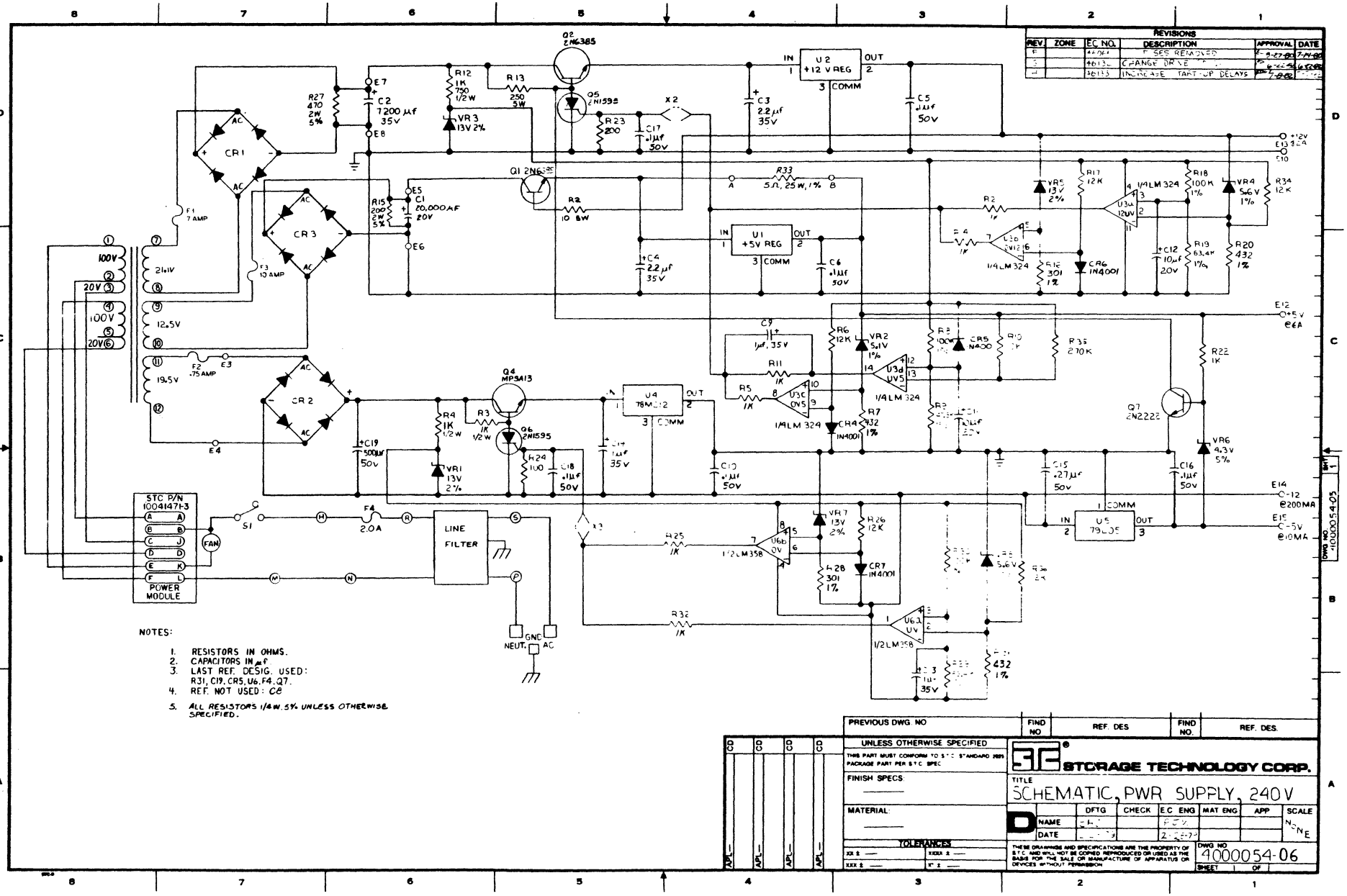
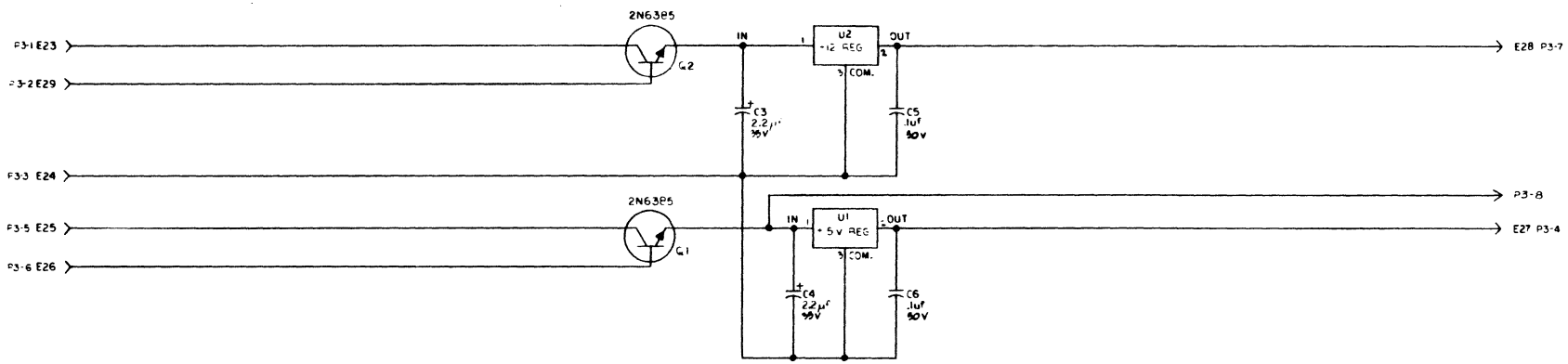
DWG NO. 4000084-06
SHEET OF


REVISIONS
REV. ZONE EC NO. DESCRIPTION APPROVAL DATE
F 4101 FUSES REMOVED
G 4813 CHANGE DRIVE
H 4833 INCREASE START-UP DELAYS
Q2 2N6385
Q5 2N1595
Q1 2N6385
Q4 MPS413
Q6 2N1595
Q7 2N2222
U1 +5V REG
U2 +12 V REG
U3 1/4LM 324
U4 78M12
U5 79L05
U6 1/2LM358
CR1
CR2
CR3
CR4 IN4001
CR5 IN400
CR6 IN4001
CR7 IN4001
VR1 13V 2%
VR2 5.1V 1%
VR3 13V 2%
VR4 5.6V 1%
VR5 13V 2%
VR6 4.3V 5%
VR7 13V 2%
F1 7 AMP
F2 .75 AMP
F3 10 AMP
F4 2.0A
100V
20V
12.5V
21.6V
19.5V
STC P/N 1004147-3
POWER MODULE
FAN
S1
LINE FILTER
GND
NEUT.
AC
+12V @2A
+5V @6A
-12 @200MA
-5V @10MA
NOTES:
1. RESISTORS IN OHMS.
2. CAPACITORS IN μf.
3. LAST REF. DESIG. USED: R31, C19, CR5, U6, F4, Q7.
4. REF. NOT USED: C8
5. ALL RESISTORS 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
PREVIOUS DWG. NO
FIND NO
REF. DES
UNLESS OTHERWISE SPECIFIED
FINISH SPECS:
MATERIAL:
TOLERANCES
STORAGE TECHNOLOGY CORP.
TITLE
SCHEMATIC, PWR SUPPLY, 240V
NAME
DATE
DFTG
CHECK
E.C. ENG
MAT ENG
APP
SCALE
NONE
DWG NO
4000054-06
SHEET
SHT 1
DWG NO 4000054-05

REVISIONS					
REV.	ZONE	EC No.	DESCRIPTION	APPROVAL	DATE
A		46017	19. EQUIV. TO PEC P5031 W/CHG	[illegible]	5-22-79
B		46015	ADD 5V B0035T	[illegible]	7-12-79
C		45764	[illegible]	[illegible]	[illegible]



NOTES

1. CAPACITORS IN µF
2. LAST REF. DESIG. USED - C8, Q2, U2
3. DESIG. NOT USED C1, C2

PREVIOUS DWG. NO.	FIND NO.	REF. DES.	FIND NO.	REF. DES.

UNLESS OTHERWISE SPECIFIED:
THIS PART MUST CONFORM TO S.T.C. STANDARD 2005
PACKAGE PART PER S.T.C. SPEC

FINISH SPECS:

MATERIAL:

TOLERANCES
XX ± XXXX ±
XXX ± X° ±

STORAGE TECHNOLOGY CORP.

TITLE: SCHEMATIC POWER SUPPLY, MY

	DFTG	CHECK	E.C. ENG	MAT. ENG	APP	SCALE
NAME	[illegible]		[illegible]			
DATE	3-5-79		[illegible]			

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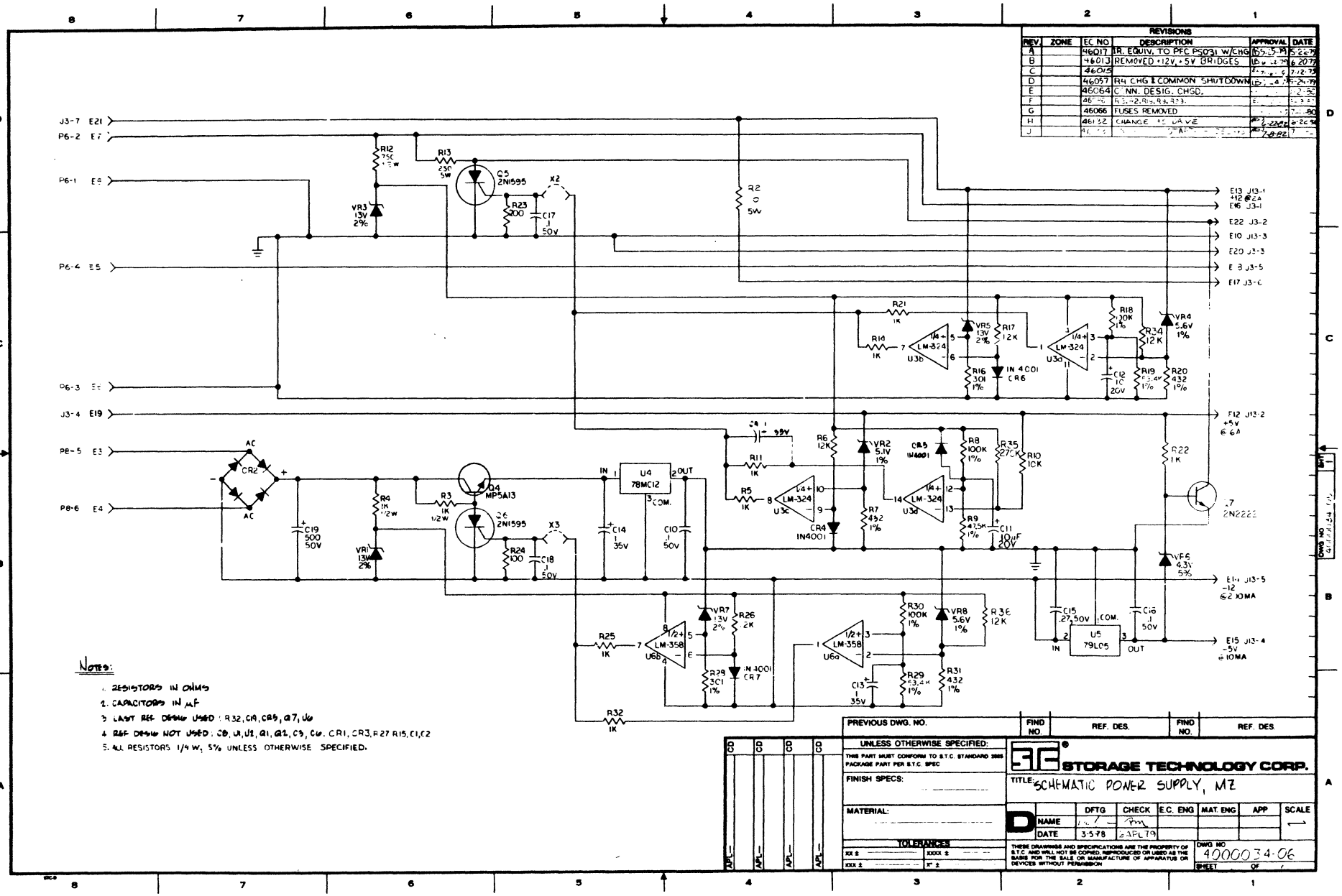
DWG NO 4300030-01 CD 7
SHEET 1 OF 1

CD 7 DWG NO 4300030-01


REVISIONS
REV. ZONE EC NO DESCRIPTION APPROVAL DATE
A 46017 IR. EQUIV. TO PFC PS031 W/CHG
B 46013 REMOVED +12V, +5V BRIDGES
C 46015
D 46057 R4 CHG & COMMON SHUTDOWN
E 46064 C NN. DESIG. CHGD.
F 46066 FUSES REMOVED
G 46132 CHANGE TO DRIVE
J
J3-7 E21
P6-2 E7
P6-1 E8
P6-4 E5
P6-3 E6
J3-4 E19
P8-5 E3
P8-6 E4
E13 J13-1 +12 @2A
E16 J3-1
E22 J3-2
E10 J13-3
E20 J3-3
E 8 J3-5
E17 J3-6
E12 J13-2 +5V @6A
E14 J13-5 -12 @2.10MA
E15 J13-4 -5V @10MA
R12 75C 1/2W
R13 250 5W
Q5 2N1595
X2
R23 200
C17 .1 50V
VR3 13V 2%
R2 0 5W
R21 1K
R14 1K
U3b LM-324
VR5 13V 2%
R17 12K
IN 4001 CR6
R16 301 1%
U3d LM-324
R18 10K 1%
R34 12K
VR4 5.6V 1%
C12 1C 20V
R19 3.4K 1%
R20 432 1%
AC
CR2
AC
C19 500 50V
R4 1K 1/2W
R3 1K 1/2W
Q4 MP5A13
Q6 2N1595
X3
VR1 13V 2%
R24 100
C18 .1 50V
U4 78MC12
IN
OUT
COM.
C14 1 35V
C10 .1 50V
C9 1 35V
R11 1K
R5 1K
U3c LM-324
R6 12K
VR2 5.1V 1%
CR4 IN4001
R7 432 1%
CR5 IN4001
R8 100K 1%
R35 27CK
R10 10K
U3a LM-324
R9 47.5K 1%
C11 10uF 20V
R22 1K
Q7 2N2222
VR6 4.3V 5%
C15 .27 50V
U5 79L05
C16 .1 50V
R25 1K
U6b LM-358
VR7 13V 2%
R26 2K
R28 3C1 1%
IN 4001 CR7
U6a LM-358
R30 100K 1%
VR8 5.6V 1%
R36 12K
C13 1 35V
R29 3.4K 1%
R31 432 1%
R32 1K
Notes:
1. RESISTORS IN OHMS
2. CAPACITORS IN µF
3. LAST REF DESIG USED : R32, CR8, CR9, Q7, U6
4. REF DESIG NOT USED : C8, U1, U2, Q1, Q2, C9, C6, CR1, CR3, R27 R15, C1, C2
5. ALL RESISTORS 1/4 W, 5% UNLESS OTHERWISE SPECIFIED.
PREVIOUS DWG. NO.
FIND NO. REF. DES. FIND NO. REF. DES.
UNLESS OTHERWISE SPECIFIED:
THIS PART MUST CONFORM TO S.T.C. STANDARD 3005
PACKAGE PART PER S.T.C. SPEC
FINISH SPECS:
MATERIAL:
TOLERANCES
STORAGE TECHNOLOGY CORP.
TITLE: SCHEMATIC POWER SUPPLY, MZ
DFTG CHECK E.C. ENG MAT. ENG APP SCALE
NAME
DATE 3-5-78 28APL79 1
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DWG NO 40000334-06
SHEET OF

BUILD ARC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E.C.
03-02-81	1	46093

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
C500	400015703	3	B	N	CD LGC GP,MP,PC	N	REL	01-19-81	3910	01-19-81

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	001	01	400035903	2		REF	PC	CD LGC,AM910,MP,PC	D						
	002	01	400030002	2		REF	PC	PC CD LOGIC,MP 005	D						
	003	01	400030103	8		REF	PC	CD LGC,MP010,PC	D						
	004	01	400030202	8		REF	PC	PC CD LOGIC,MP 015	D						
	005	01	400030302	6		REF	PC	PC CD LOGIC,MP 020	D						
								0005 TOTAL LINES							

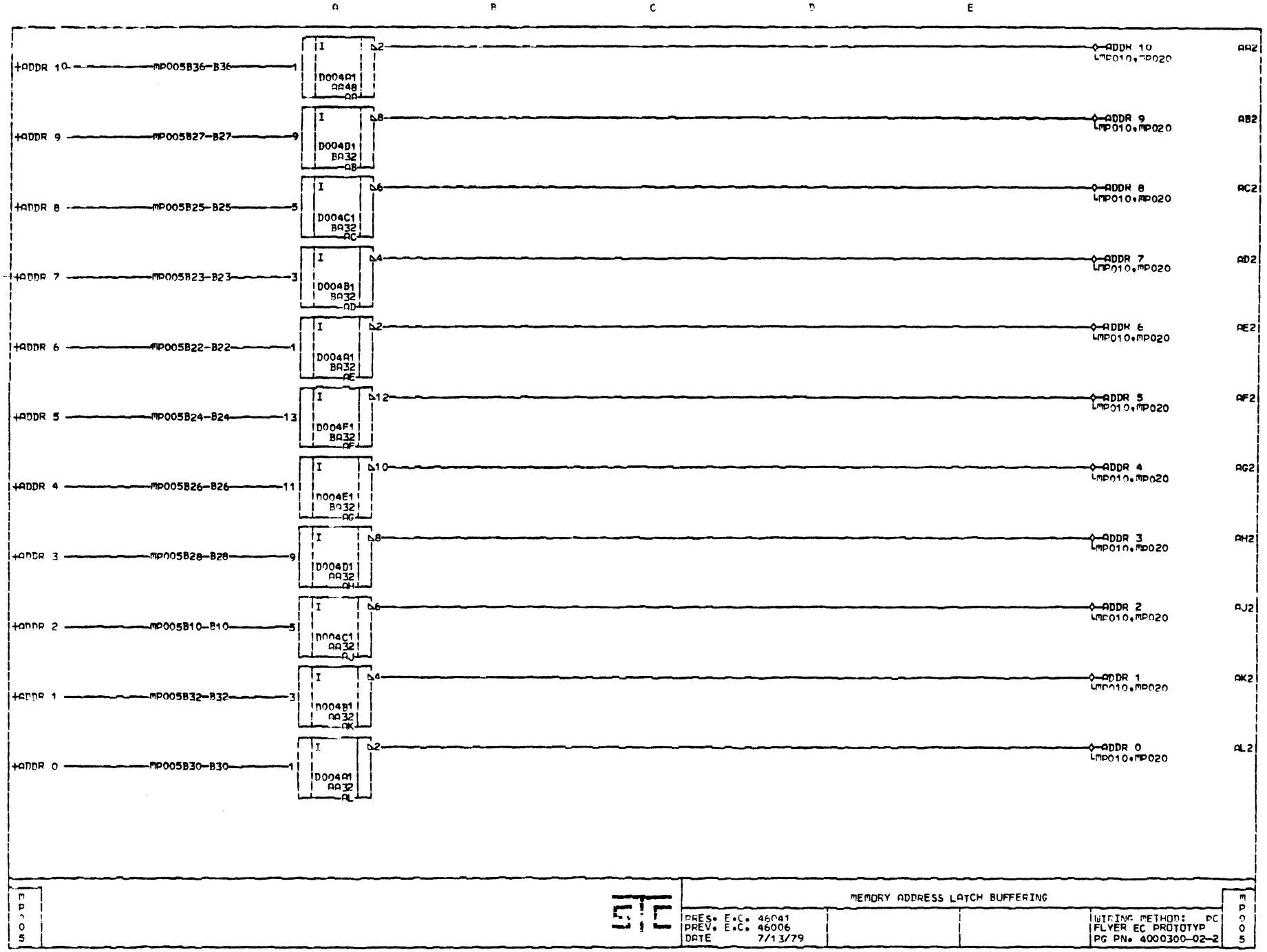
LOC CA48		LOC CA40	14	LOC CA32	14	LOC CA24	14	LOC CA16	16	LOC CA08	16	LOC CA01	16
PN	IC:	PN	IC:E086	PN	IC:E086	PN	IC:E086	PN	IC:A089	PN	IC:E367	PN	IC:E367
		3		3	MP010AG6	3	MP010AC6	5	MP020BB2	3	MP015CH2	3	MP015CF2
		6	MP010AH6	6	MP010AD6	6	MP010AL6	7	MP020BA3	5	MP015CD3	5	MP015CE3
		8	MP010AJ6	8	MP010AE6	8	MP010AA6	9	MP020BA4	7	MP015CD4	7	MP015CF4
		11	MP010AK6	11	MP010AF6	11	MP010AB6	11	MP020BA5	9	MP015CD5	9	MP015CF5
										11	MP015CE2	11	MP015CG2
										13	MP015CE3	13	MP015CG3
	GC2	7	FC2	7	EC2	7	DC2	8	CC2	8	BC2	8	AC2
	GND		GND		GND		GND		GND		GND		GND
	GC6	14	FC6	14	EC6	14	DC6	16	CC6	16	BC6	16	AC6
	+5V		+5V		+5V		+5V		+5V		+5V		+5V

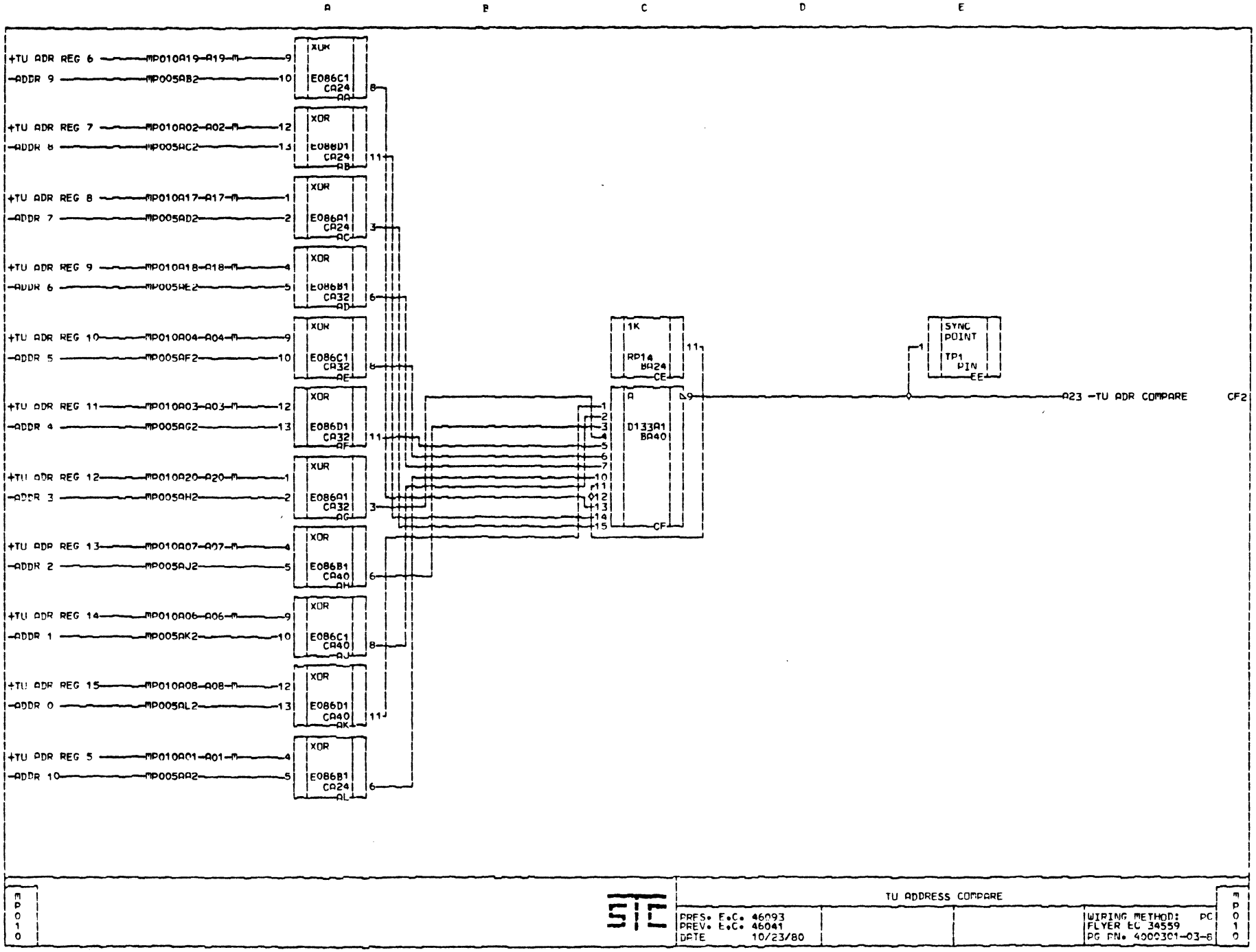
LOC BA48		LOC BA40	16	LOC BA32	14	LOC BA24	14	LOC BA16	16	LOC BA08	16	LOC BA01	16
PN	IC:	PN	IC:D133	PN	IC:D004	PN	IC:AP14	PN	IC:A089	PN	IC:E157	PN	IC:E157
		9	MP010CF2	2	MP005BE2		01,02,03	5	MP020BE2	4	MP020EA6	4	MP020EE6
				4	MP005BD2		04,06,12	7	MP020BE3	7	MP020EA7	7	MP020EE7
				6	MP005BC2		7	9	MP020BF4	9	MP020EA8	9	MP020EE8
				8	MP005BB2	**	* ONLY *	11	MP020BE5	12	MP020EA9	12	MP020EE9
				10	MP005BC2	**	UNUSED						
				12	MP005BF2	**	* PINS *						
	GB2	8	FB2	7	EP2		DB2	8	CB2	8	BB2	8	AB2
	GND		GND		GND		GND		GND		GND		GND
	GB6	16	FB6	14	EP6	14	DB6	16	CB6	16	BB6	16	AB6
	+5V		+5V		+5V		+5V		+5V		+5V		+5V

LOC AA48		LOC AA40	14	LOC AA32	14	LOC AA24	16	LOC AA16	16	LOC AA08	16	LOC AA01	16
PN	IC:D004	PN	IC:AP14	PN	IC:D004	PN	IC:A089	PN	IC:E367	PN	IC:E157	PN	IC:E157
2	MP005AA2		13	2	MP005AL2	5	MP020BC2	3	MP015CH2	4	MP020EC6	4	MP020EG6
4				4	MP005AK2	7	MP020BC3	5	MP015CH3	7	MP020EC7	7	MP020EG7
6		**	* ONLY *	6	MP005AJ2	9	MP020BC4	7	MP015CH4	9	MP020EC8	9	MP020EG8
8		**	UNUSED	8	MP005AH2	11	MP020BC5	9	MP015CH5	12	MP020EC9	12	MP020EG9
10		**	* PINS *	10	MP015CK2			11					
12				12	MP015CL2			13					
7	GA2		EA2	7	EA2	8	DA2	8	CA2	8	BA2	8	AA2
	GND		GND		GND		GND		GND		GND		GND
14	GA6	14	EA6	14	EA6	16	DA6	16	CA6	16	BA6	16	AA6
	+5V		+5V		+5V		+5V		+5V		+5V		+5V

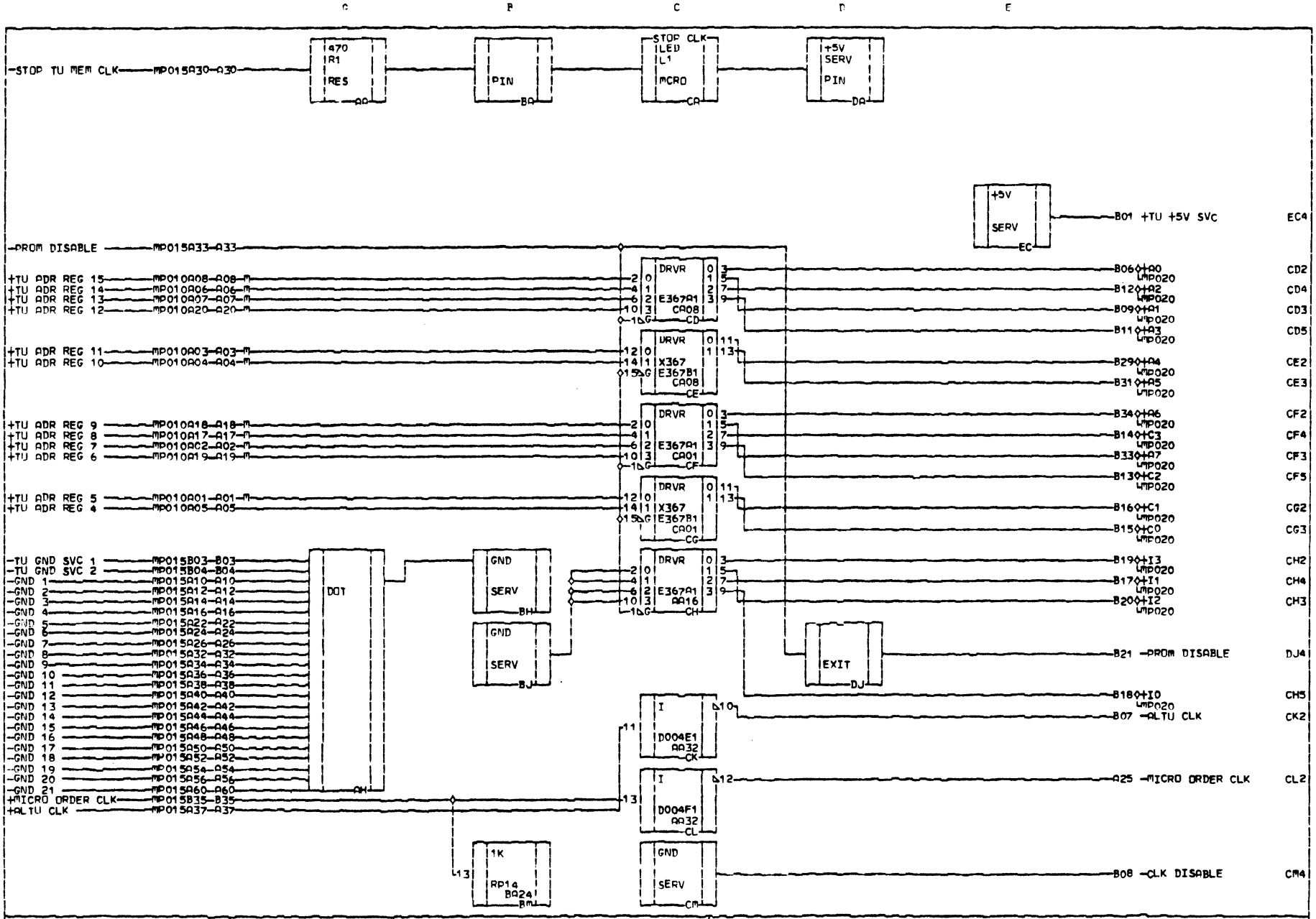
IC LOCATION CHART MP CARD FOR PDP

PRESENT EC	46093	DATE	10/23/80	CD PN	4000143026
PREV EC	46041	PAGE PN	4000059032	CD TYPE MP	FLEVEL 34559


A
B
C
D
E
+ADDR 10
MP005B36-B36
1
D004A1
AA48
AA
2
ADDR 10
LMP010,MP020
AA2
+ADDR 9
MP005B27-B27
9
D004D1
BA32
AB
8
ADDR 9
LMP010,MP020
AB2
+ADDR 8
MP005B25-B25
5
D004C1
BA32
AC
6
ADDR 8
LMP010,MP020
AC2
+ADDR 7
MP005B23-B23
3
D004B1
BA32
AD
4
ADDR 7
LMP010,MP020
AD2
+ADDR 6
MP005B22-B22
1
D004A1
BA32
AE
2
ADDR 6
LMP010,MP020
AE2
+ADDR 5
MP005B24-B24
13
D004F1
BA32
AF
12
ADDR 5
LMP010,MP020
AF2
+ADDR 4
MP005B26-B26
11
D004E1
BA32
AG
10
ADDR 4
LMP010,MP020
AG2
+ADDR 3
MP005B28-B28
9
D004D1
AA32
AH
8
ADDR 3
LMP010,MP020
AH2
+ADDR 2
MP005B10-B10
5
D004C1
AA32
AJ
6
ADDR 2
LMP010,MP020
AJ2
+ADDR 1
MP005B32-B32
3
D004B1
AA32
AK
4
ADDR 1
LMP010,MP020
AK2
+ADDR 0
MP005B30-B30
1
D004A1
AA32
AL
2
ADDR 0
LMP010,MP020
AL2
MP005
MEMORY ADDRESS LATCH BUFFERING
PRES. E.C. 46041
PREV. E.C. 46006
DATE 7/13/79
WIRING METHOD: PC
FLYER EC PROTOTYP
PG PN. 4000300-02-2
MP005

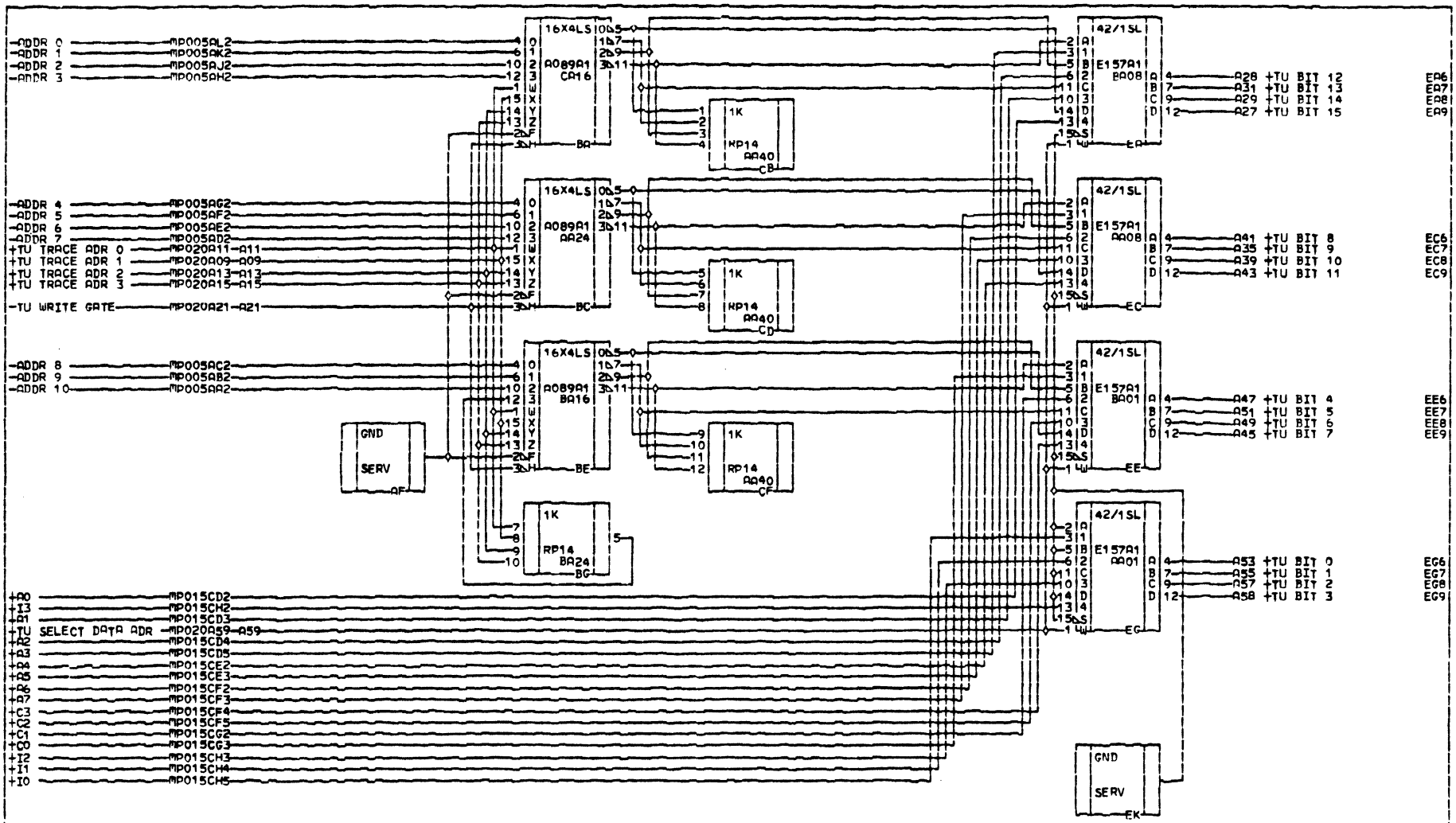


MP010	STC	TU ADDRESS COMPARE			MP010
		PRES. E.C. 46093 PREV. E.C. 46041 DATE 10/23/80		WIRING METHOD: PC FLYER EC 34559 PC PN. 4000301-03-B	



MP015	STC	TU PROM AND CLOCK DRIVERS	MP01
		PRES. E.C. 46041 PREV. E.C. 46006 DATE 7/13/79	WIRING METHOD: PC FLYER EC PROTOTYP PC PN. 4000302-02-8

HMPA 12/03/79



MP020	STC	TU TRACE BUFFER MEMORY		MP020
		PRES. E.C. 46041 PREV. E.C. 46006 DATE 7/13/79		WIRING METHOD: PC FLYER EC PROTOTYP PG PN. 4000303-02-6

BUILD ARC DOC

ASSEMBLY PARTS LIST

PRINT DATE	PAGE	E.C. NO.
01-07-81	1	46042

DIV.	ASSEMBLY NUMBER	CD	REV.	DWG.	DESCRIPTION	MC	STATUS	STATUS DATE		FILE DATE
0500	400044201	4	A	N	CD LOG GP,MQ,PC	N	REL	12-17-79	3910	12-17-79

T	FIND NO	LI	PART NUMBER	CD	M	QUANTITY	U/M	PART DESCRIPTION	MC	YLD	E.C. NO. IN	E.C. NO. OUT	S/N	WK IN	WK OUT
	001	01	400044301	2		REF	PC	CD LOG AM 271,MQ,PC	D						
	002	01	400044401	0		REF	PC	CD LOG,MQ005,PC	D						
	003	01	400044501	7		REF	PC	CD LOG,MQ010,PC	D						
	004	01	400044601	5		REF	PC	CD LGC,MQ15,PC	D						
	005	01	400044701	3		REF	PC	CD LGC,MQ020,PC	D						
								0005 TOTAL LINES							

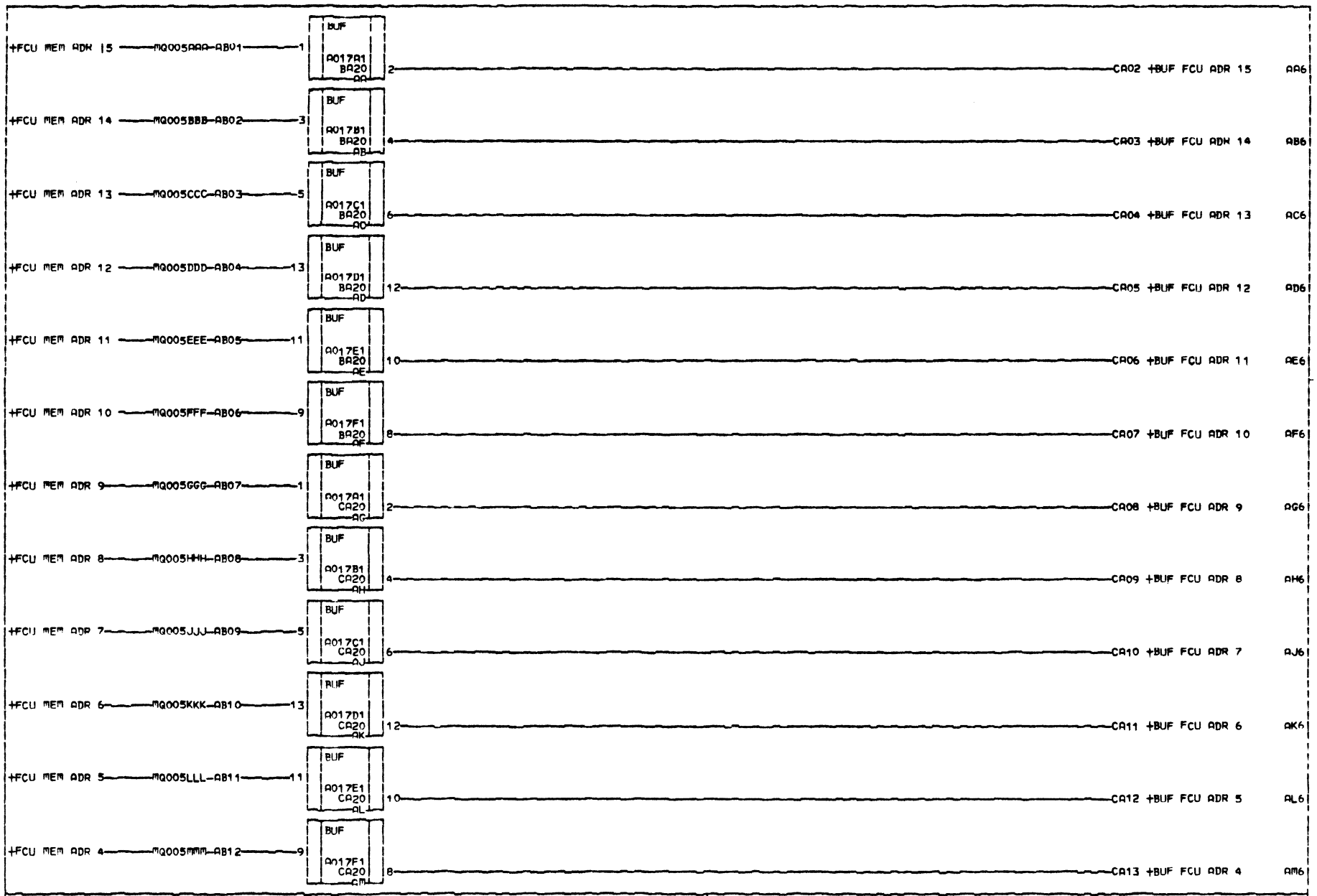
INDEX: 04 PAGE(S)

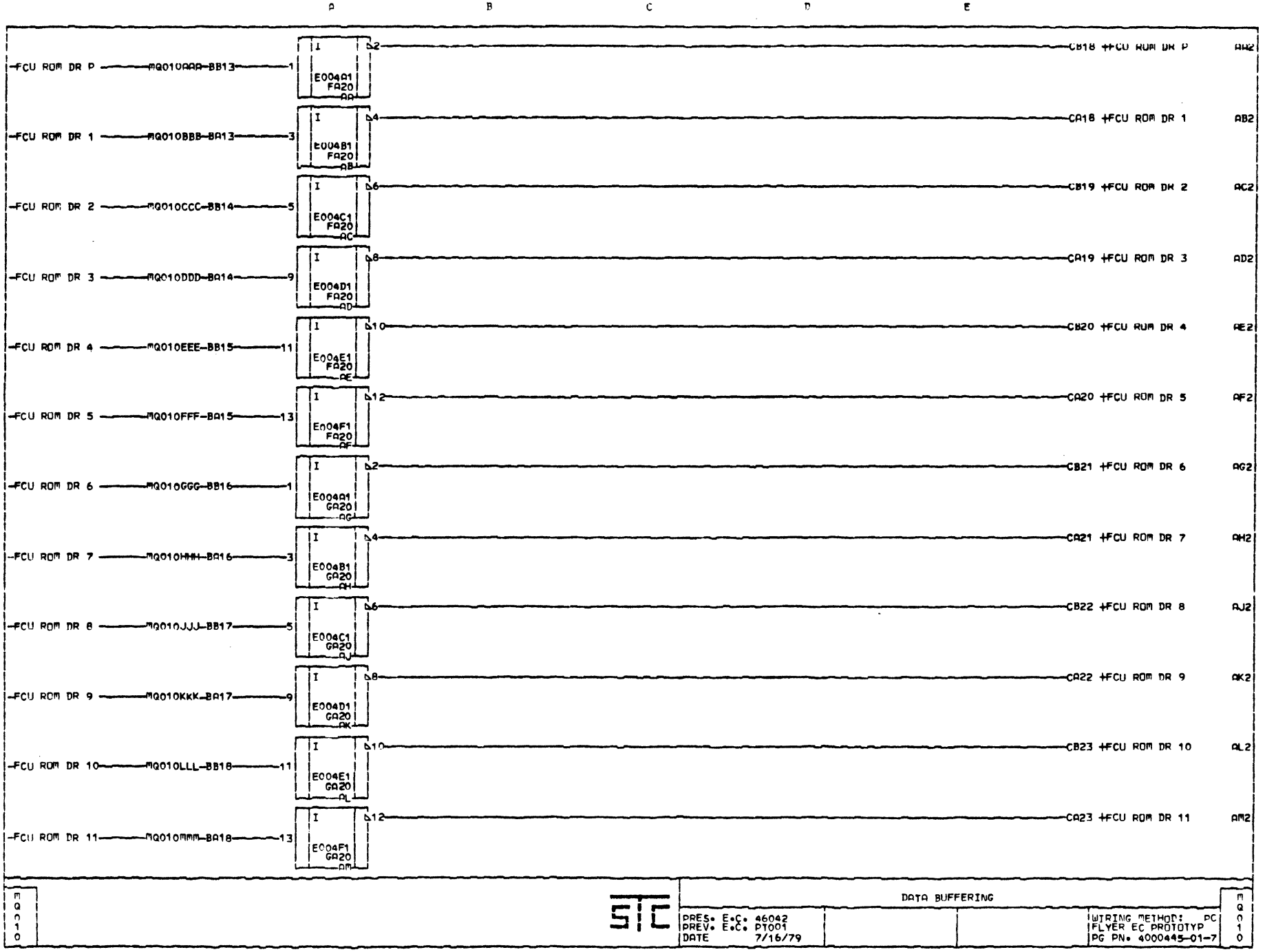
PAGE	CRD PG	P/N	EC LEVEL
MQ005	4	4000444010	46042
MQ010	4	4000445017	46042
MQ015	4	4000446015	46042
MQ020	4	4000447013	46042

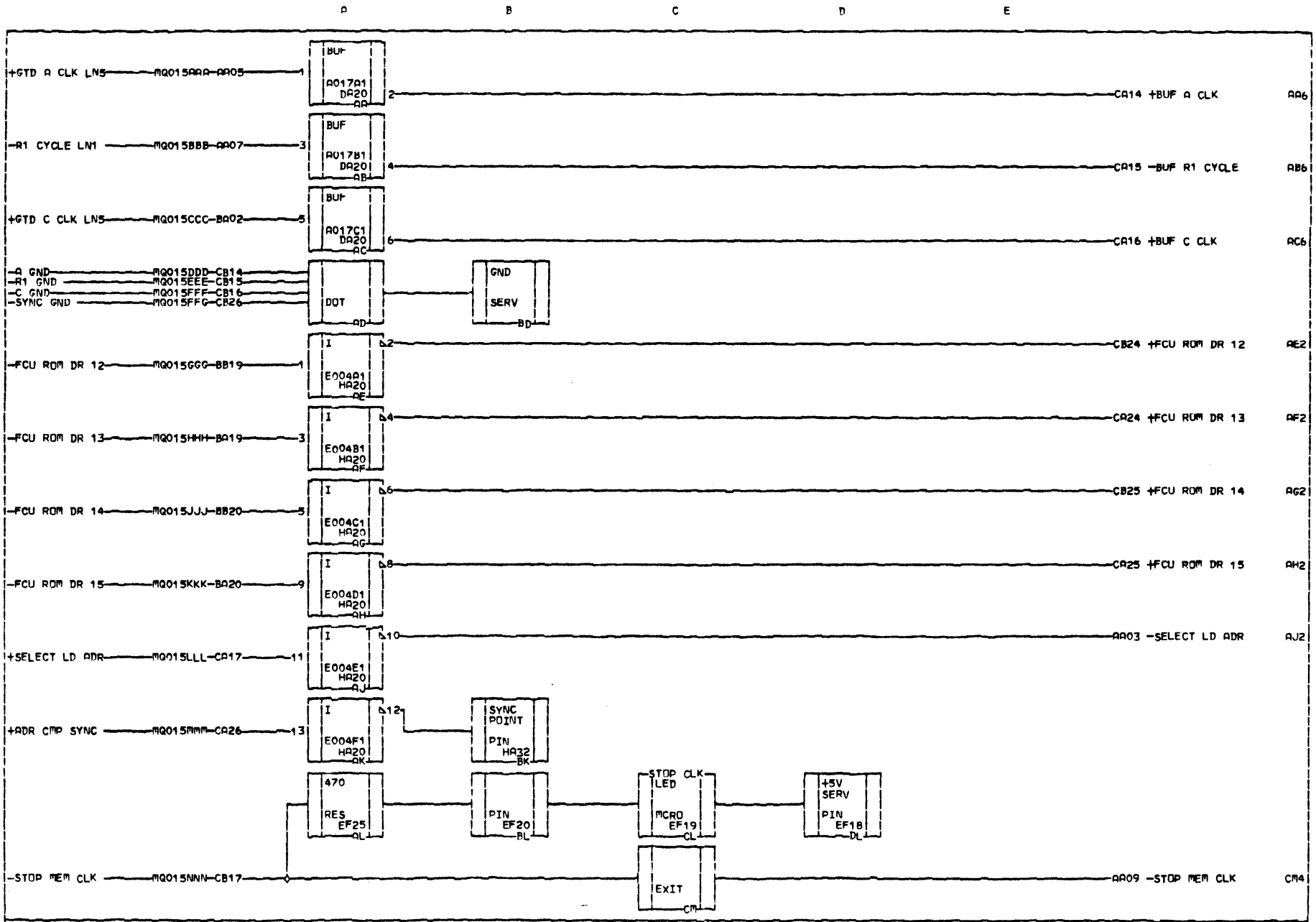
LOC BA20 14		LOC CA20 14		LOC DA20 14		LOC FA20 14		LOC GA20 14		LOC MA20 14	
PN	IC:A017	PN	IC:A017	PN	IC:A017	PN	IC:E004	PN	IC:E004	PN	IC:E004
2	MQ005AA6	2	MQ005AG6	2	MQ015AA6	2	MQ010AA2	2	MQ010AG2	2	MQ015AE2
4	MQ005AB6	4	MQ005AH6	4	MQ015AB6	4	MQ010AB2	4	MQ010AH2	4	MQ015AF2
6	MQ005AC6	6	MQ005AJ6	6	MQ015AC6	6	MQ010AC2	6	MQ010AJ2	6	MQ015AG2
8	MQ005AF6	8	MQ005AM6	8		8	MQ010AD2	8	MQ010AK2	8	MQ015AH2
10	MQ005AE6	10	MQ005AL6	10		10	MQ010AE2	10	MQ010AL2	10	MQ015AJ2
12	MQ005AD6	12	MQ005AK6	12		12	MQ010AF2	12	MQ010AM2	12	MQ015AK2
7	FA2	7	EA2	7	DA2	7	CA2	7	BA2	7	AA2
	GND		GND		GND		GND		GND		GND
14	FA6	14	EA6	14	DA6	14	CA6	14	BA6	14	AA6
	+5V		+5V		+5V		+5V		+5V		+5V

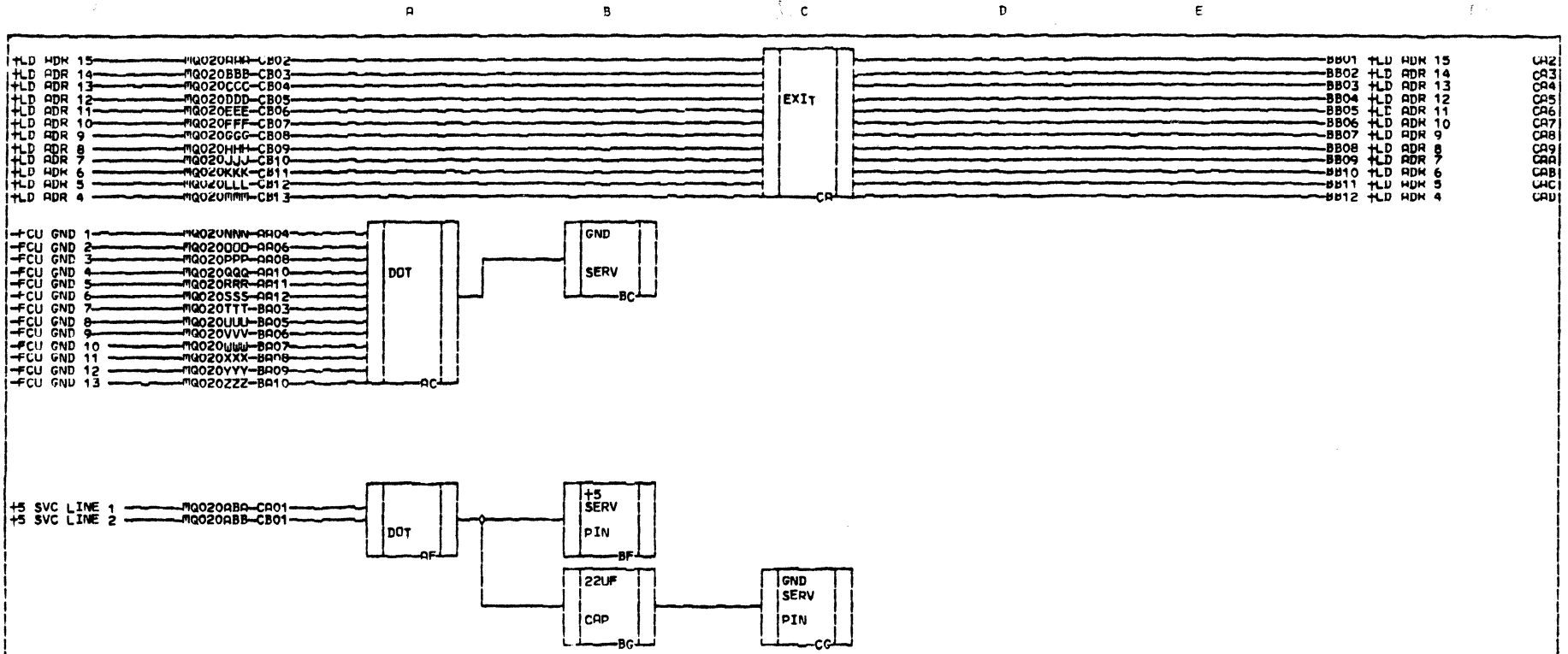
IC LOCATION CHART MQ CARD FOR DDD

PRESENT EC 46042	DATE 7/16/79			CD PN	4000422016
PREV EC PT001	PAGE PN 4000443012	CD TYPE MQ		FLEVEL	PROTOTYP


A
B
C
D
E
+FCU MEM ADR 15
MQ005AAA-AB01
1
BUF
A017A1
BA20
AA
2
CA02 +BUF FCU ADR 15
AA6
+FCU MEM ADR 14
MQ005BBB-AB02
3
BUF
A017B1
BA20
AB
4
CA03 +BUF FCU ADR 14
AB6
+FCU MEM ADR 13
MQ005CCC-AB03
5
BUF
A017C1
BA20
AC
6
CA04 +BUF FCU ADR 13
AC6
+FCU MEM ADR 12
MQ005DDD-AB04
13
BUF
A017D1
BA20
AD
12
CA05 +BUF FCU ADR 12
AD6
+FCU MEM ADR 11
MQ005EEE-AB05
11
BUF
A017E1
BA20
AE
10
CA06 +BUF FCU ADR 11
AE6
+FCU MEM ADR 10
MQ005FFF-AB06
9
BUF
A017F1
BA20
AF
8
CA07 +BUF FCU ADR 10
AF6
+FCU MEM ADR 9
MQ005GGG-AB07
1
BUF
A017A1
CA20
AG
2
CA08 +BUF FCU ADR 9
AG6
+FCU MEM ADR 8
MQ005HHH-AB08
3
BUF
A017B1
CA20
AH
4
CA09 +BUF FCU ADR 8
AH6
+FCU MEM ADR 7
MQ005JJJ-AB09
5
BUF
A017C1
CA20
AJ
6
CA10 +BUF FCU ADR 7
AJ6
+FCU MEM ADR 6
MQ005KKK-AB10
13
BUF
A017D1
CA20
AK
12
CA11 +BUF FCU ADR 6
AK6
+FCU MEM ADR 5
MQ005LLL-AB11
11
BUF
A017E1
CA20
AL
10
CA12 +BUF FCU ADR 5
AL6
+FCU MEM ADR 4
MQ005MMM-AB12
9
BUF
A017F1
CA20
AM
8
CA13 +BUF FCU ADR 4
AM6
MQ005
STC
ADDRESS BUFFERING
PRES. E.C. 46042
PREV. E.C. PT001
DATE 7/16/79
WIRING METHOD: PC
FLYER EC PROTOTYP
PG PN. 4000444-01-0
MQ005


A B C D E
FCU ROM DR P — MQ010AAA-BB13 — 1 — E004A1 FA20 AA — 2 — CB18 +FCU ROM DR P — AH2 — A
FCU ROM DR 1 — MQ010BBB-BA13 — 3 — E004B1 FA20 AB — 4 — CA18 +FCU ROM DR 1 — AB2 — B
FCU ROM DR 2 — MQ010CCC-BB14 — 5 — E004C1 FA20 AC — 6 — CB19 +FCU ROM DR 2 — AC2 — C
FCU ROM DR 3 — MQ010DDD-BA14 — 9 — E004D1 FA20 AD — 8 — CA19 +FCU ROM DR 3 — AD2 — D
FCU ROM DR 4 — MQ010EEE-BB15 — 11 — E004E1 FA20 AE — 10 — CB20 +FCU ROM DR 4 — AE2 — E
FCU ROM DR 5 — MQ010FFF-BA15 — 13 — E004F1 FA20 AF — 12 — CA20 +FCU ROM DR 5 — AF2 — F
FCU ROM DR 6 — MQ010GGG-BB16 — 1 — E004A1 GA20 AG — 2 — CB21 +FCU ROM DR 6 — AG2 — G
FCU ROM DR 7 — MQ010HHH-BA16 — 3 — E004B1 GA20 AH — 4 — CA21 +FCU ROM DR 7 — AH2 — H
FCU ROM DR 8 — MQ010JJJ-BB17 — 5 — E004C1 GA20 AJ — 6 — CB22 +FCU ROM DR 8 — AJ2 — J
FCU ROM DR 9 — MQ010KKK-BA17 — 9 — E004D1 GA20 AK — 8 — CA22 +FCU ROM DR 9 — AK2 — K
FCU ROM DR 10 — MQ010LLL-BB18 — 11 — E004E1 GA20 AL — 10 — CB23 +FCU ROM DR 10 — AL2 — L
FCU ROM DR 11 — MQ010MMM-BA18 — 13 — E004F1 GA20 AM — 12 — CA23 +FCU ROM DR 11 — AM2 — M
MQ010
DATA BUFFERING
PRES. E.C. 46042
PREV. E.C. PT001
DATE 7/16/79
WIRING METHOD: PC
FLYER EC PROTOTYP
PG PN. 4000445-01-7
MQ010


A
B
C
D
E
+GTD A CLK LN5
MQ015AAA-AA05
BUF
A017A1
DA20
AA
CA14 +BUF A CLK
AA6
-R1 CYCLE LN1
MQ015BBB-AA07
BUF
A017B1
DA20
AB
CA15 -BUF R1 CYCLE
AB6
+GTD C CLK LN5
MQ015CCC-BA02
BUF
A017C1
DA20
AC
CA16 +BUF C CLK
AC6
-A GND
-R1 GND
-C GND
-SYNC GND
MQ015DDD-CB14
MQ015EEE-CB15
MQ015FFF-CB16
MQ015FFG-CB26
DOT
AD
GND
SERV
BD
-FCU ROM DR 12
MQ015GGG-BB19
E004A1
HA20
AE
CB24 +FCU ROM DR 12
AE2
-FCU ROM DR 13
MQ015HHH-BA19
E004B1
HA20
AF
CA24 +FCU ROM DR 13
AF2
-FCU ROM DR 14
MQ015JJJ-BB20
E004C1
HA20
AG
CB25 +FCU ROM DR 14
AG2
-FCU ROM DR 15
MQ015KKK-BA20
E004D1
HA20
AH
CA25 +FCU ROM DR 15
AH2
+SELECT LD ADR
MQ015LLL-CA17
E004E1
HA20
AJ
AA03 -SELECT LD ADR
AJ2
+ADR CMP SYNC
MQ015MMM-CA26
E004F1
HA20
AK
SYNC POINT
PIN
HA32
BK
470
RES
EF25
AL
PIN
EF20
BL
STOP CLK LED
MCRO
EF19
CL
+5V SERV
PIN
EF18
DL
-STOP MEM CLK
MQ015NNN-CB17
EXIT
CM
AA09 -STOP MEM CLK
CM4
MQ015
DATA AND CLOCK BUFFERING
PRES. E.C. 46042
PREV. E.C. PT001
DATE 7/16/79
WIRING METHOD: PC
FLYER EC PROTOTYP
PG PN. 4000446-01-5



MQ020	STC	GNDS AND LOAD ADDRESS LINES			MQ020
		PRES. E.C. 46042 PREV. E.C. PT001 DATE 7/16/79		WIRING METHOD: PC FLYER EC PROTOTYP PG PN. 4000447-01-3	

HMQ 12/03/79

MACH LEVEL	EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
	46077			1	3910	2/28/80	N/A	
0008	46072		66783	5	3910	3/31/80	124	
0009	46062		66528	5	3910	5/12/80	000124	4008
	46111			1	3910	9/18/81	N/A	
	46000			1	3910	4/30/79	000001	
	46008			1	3910	4/30/81	000001	
	46009			1	3910	5/ 7/79	000001	
	46018			1	3910	5/ 7/79	000001	
	46010			1	3910	5/14/79	000001	
	46011			1	3910	5/14/79	000001	
	46017	95011 95012 95013 95014 95015		1	3910	5/14/79	000001	
	46019			1	3910	5/14/79	000001	
	46020			1	3910	5/14/79	000001	
	46001			1	3910	5/21/79	000001	
	46007			1	3910	5/21/79	000001	
	46021			1	3910	5/21/79	000001	
	46014	95021		1	6	6/25/79	000001	
	46030			1	3910	7/ 2/79	000001	
	46038			1	3910	7/ 2/81	000001	
	46036			1	3910	7/ 2/79	000001	
	46037			1	3910	7/ 9/79	000001	
	46032			1	3910	7/16/79	000001	
	46045			1	3910	7/16/79	000001	
	46012	95018		1	3910	6/25/79	000001	
	46106			1	3910	7/ 2/79	000001	
	46039			1	3910	7/ 9/79	000001	
	46022			1	3910	7/ 9/79	000001	
	46027	95019		1	3910	6/ 4/79	000001	
	46085			1	3910	5/16/80	150	4006
0010	46086		67024	5	3910	6/24/80	160	
	46053			1	3910	7/21/80	253	4002
	46067			1	3910	8/ 6/80	253	4009
	46087			1	3910	8/27/80	000270	
0011	44295		67055	4	3910	9/19/80	N/A	
	44295Z			1	3910	11/18/80	N/A	
	46086M			1	3910	9/19/80	N/A	
0012	46089		67210	5	3910	11/ 5/80	361	4018
	46082			1	3910	11/ 6/78	361	4011
	46088			1	3910	10/14/80	386	
0013	46081		67045	4	3910	11/17/80	401	4017
	46096			1	3910	2/27/81	N/A	
	46107			1	3910	3/12/81	N/A	
	46049			1	3910	3/24/81	N/A	
	54349M			1	3910	4/ 6/81	N/A	
	46095P			1	3910	4/ 7/81	N/A	
	46094			1	3910	4/20/81	000495	
	46092			1	3910	8/29/81	000535	
	46095			1	3910	8/26/81	000537	
	46069			1	3910	4/ 8/81	000595	
	46069P			1	3910	4/ 8/81	000595	

MACH LEVEL	EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
			MML391			8/10/82		
			MML391			6/24/82		
			MML391			6/24/82		
		95023						
	46004			1	3910	6/11/79	7	
	46005			1	3910	6/11/79	7	
	46028			1	3910	6/11/79	7	
0001	46013			5	3910	6/11/79	7	
	46013A		66281	5	3910	6/18/79	7	
	46002	95016		1	3910	6/18/79	7	
	46003			1	3910	6/18/79	7	
	46006			1	3910	6/18/79	7	
0002	46015	95022	66320	5	3910	7/ 2/79	7	
		95025						
		95026						
		95027						
	46029	95017		1	3910	7/ 2/79	7	
		95034						
		95035						
		95036						
.PG								
	46031	95024		1	3910	7/ 9/79	7	
		95031						
	46033	95028		1	3910	7/ 9/79	7	
		95029						
		95030						
		95032						
	46034			1	3910	7/ 9/79	7	
0003	46035	95035	66339	5	3910	7/ 9/79	7	
0004	46043		66344	5	3910	7/ 9/79	7	
0005	46023	95037	66357	5	3910	7/16/79	7	
		95038						
		95039						
		95040						
		95042						
	46044			1	3910	7/16/79	7	
	46047			1	3910	7/23/79	7	
	46048			1	3910	7/23/79	7	
0006	46050	95047	66383	5	3910	7/23/79	7	
	46026			1	3910	7/30/79	7	
	46056			1	3910	9/ 6/79	17	
0007	46057		66486	5	3910	10/18/79	21	
	46065			1	3910	10/30/79	37	
	46068	90447		1	3910	11/ 1/79	48	
	46046			1	3910	11/19/79	54	
	46054			1	3910	11/19/79	54	
	46052			1	3910	11/12/79	67	
	46040			1	3910	12/14/79	N/A	
	46042			1	3910	12/20/79	N/A	
	46070			1	3910	1/10/80	70	
	46055			1	3910	2/11/80	91	
	46055X			1	3910	12/ 4/80	N/A	
	46055Z			1	3910	2/11/80	91	
	46064			1	3910	2/13/80	111	4003

MACH LEVEL	EC NO.	EIR NO.	F/B NO.	S T	MOD FEAT	INCORP DATE	SNBI	ECN
	46066			1	3910	9/18/81	000601	
	46066N			1	3910	9/18/81	000601	
	46101			1	3910	4/30/81	N/A	
	46111			1	3910	10/10/81	N/A	
	46117			1	3910	11/20/81	N/A	
	46099			1	3910	6/ 1/81	N/A	
	46099P			1	3910	6/ 1/81	N/A	
	46098			1	3910	6/10/81	N/A	
	44255			1	3910	6/10/81	N/A	
00014	46118			4	3910	7/22/81	000533	
							000621	
							000624	
	46069P			1	3910	7/23/81	000595	
	46080			1	3910	8/ 5/81	000723	
00015	46114	69778	66953	4	3910	8/18/81	000808	
			66783					
	46115			1	3910	8/26/81	N/A	
	44420			1	3910	8/26/81	000801	
							000806	
							000809	
							THRU	
							000811	
							000819	
							THRU	
							000821	
							000824	
00016	46116		69801	4	3910	12/ 8/81	000913	
00017	46110		67854	4	3910	12/14/81	000927	
	44630			1	3910	1/14/82	N/A	
	44083N			1	3910	1/14/82	N/A	
00018	46083			4	3910	1/20/82	000986	
	41265			1	3910	1/29/82	000999	
							001003	
	46064			1	3910	2/22/82	N/A	
	46120			1	3910	2/27/82	000460	
	46125			1	3910	1/28/82	000999	
							001094	
							001003	
	46123			1	3910	2/22/82	001094	
	03659			1	3910	5/20/82	N/A	
	46130			1	3910	6/25/82	N/A	
	46133			1	3910	7/25/82	001311	004041
	46132			1	3910	8/13/82	N/A	