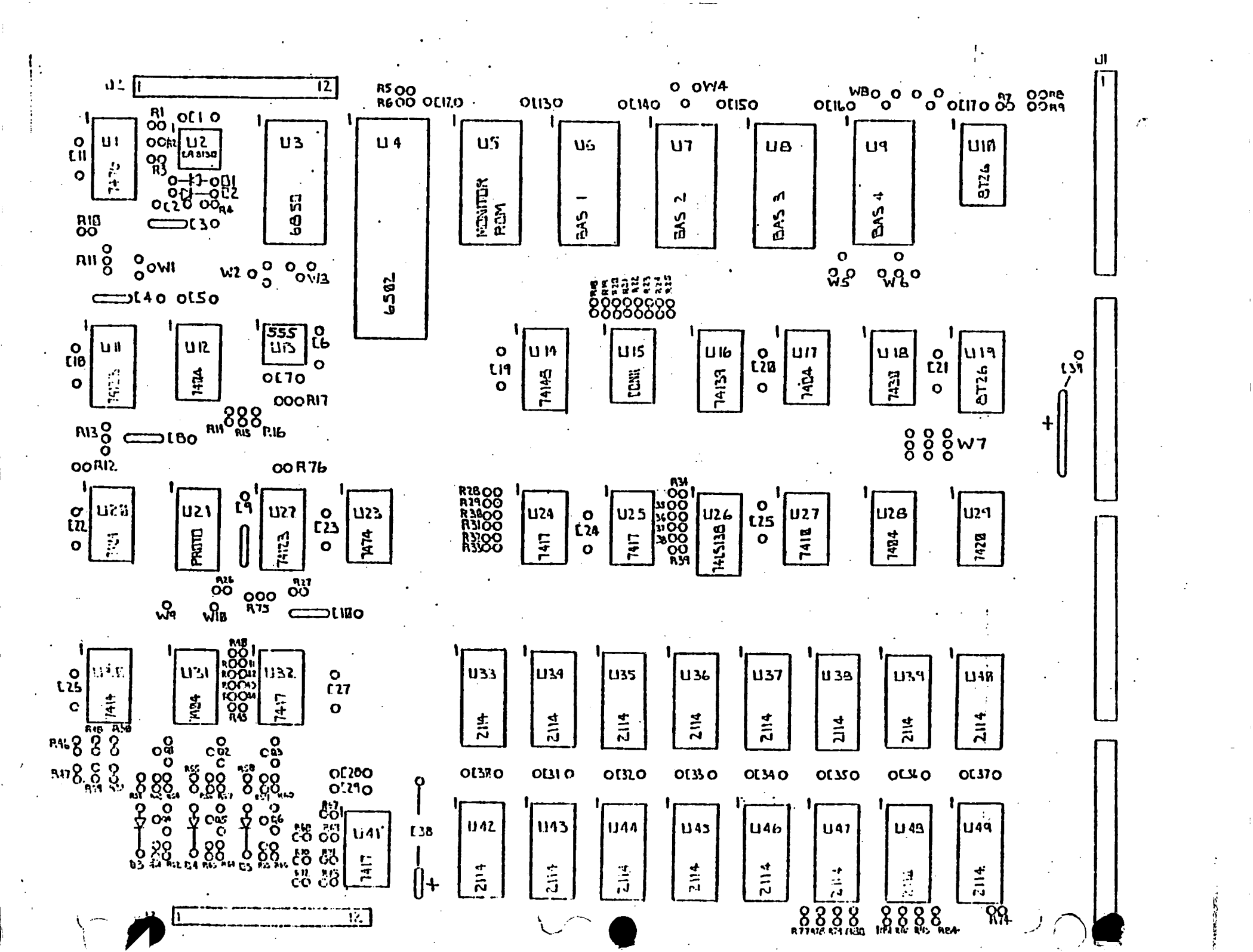
U1
U2
U3
6850
U4
6502
U5
MONITOR ROM
U6
BAS 1
U7
BAS 2
U8
BAS 3
U9
BAS 4
U10
U11
U12
7404
U13
555
U14
74145
U15
U16
74139
U17
7404
U18
7438
U19
U20
U21
PROTO
U22
U23
7474
U24
7417
U25
7417
U26
74S138
U27
7418
U28
7404
U29
7428
U30
U31
7404
U32
7417
U33
2114
U34
2114
U35
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U36
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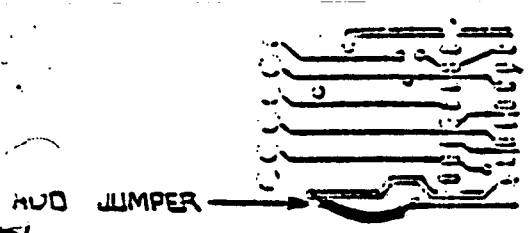
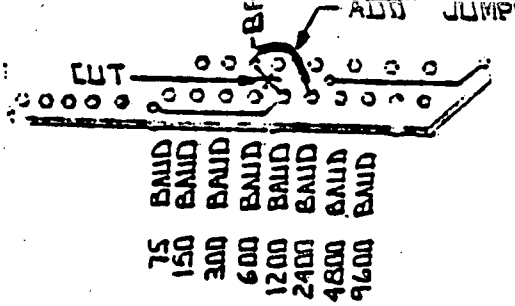
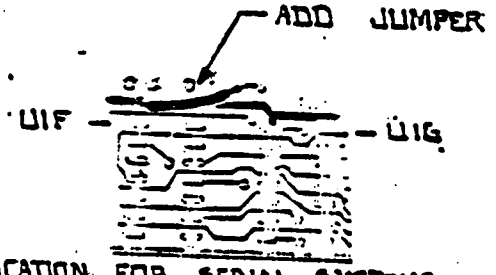
U49
2114



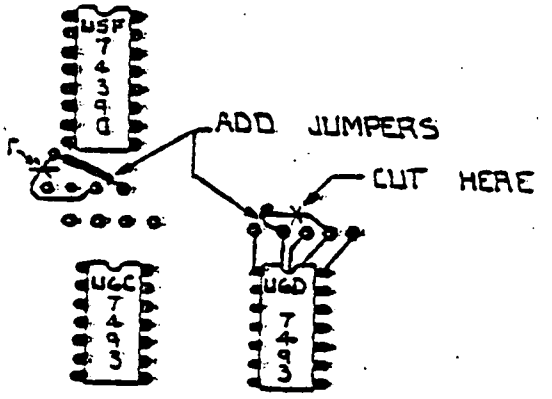
MODIFICATION FOR SERIAL SYSTEMS
REAR VIEW
DETAIL C-2



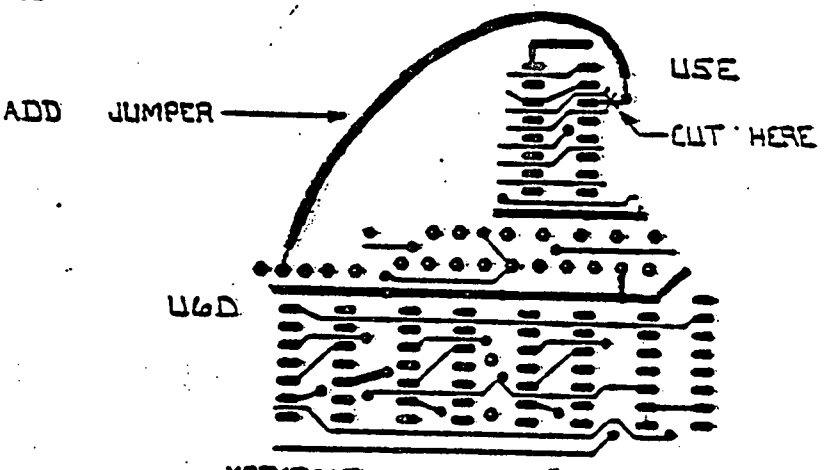
BAUD RATE JUMPER FOR SERIAL SYSTEMS
REAR VIEW
DETAIL C-3



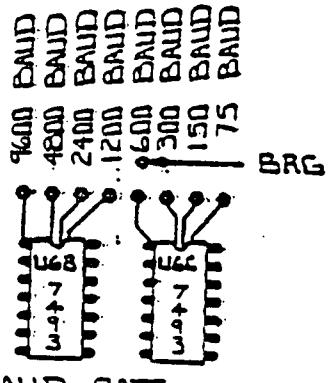
MODIFICATION FOR SERIAL SYSTEMS
REAR VIEW
DETAIL C-4



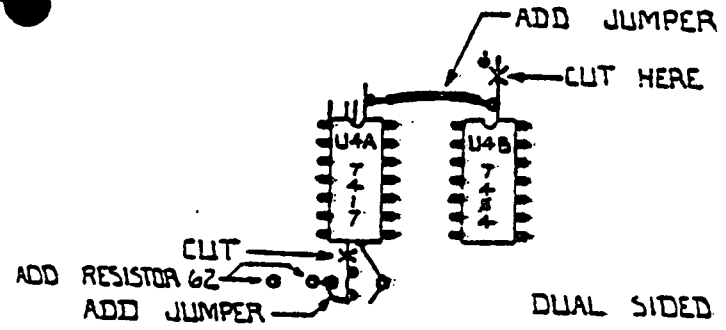
MODIFICATION FOR 8" FLOPPY
FRONT VIEW
DETAIL D



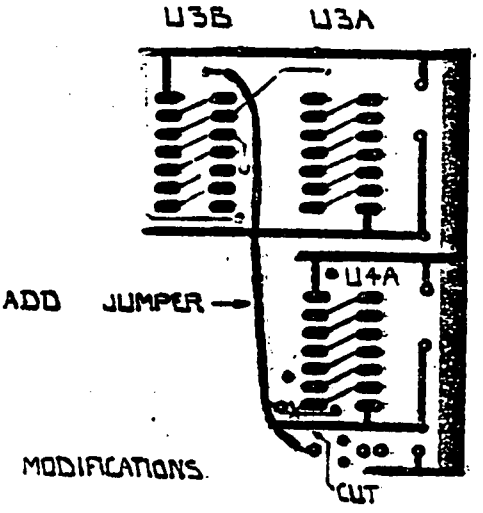
MODIFICATION FOR 8" FLOPPY
REAR VIEW
DETAIL D-1



BAUD RATE JUMPERS
FRONT VIEW
DETAIL E

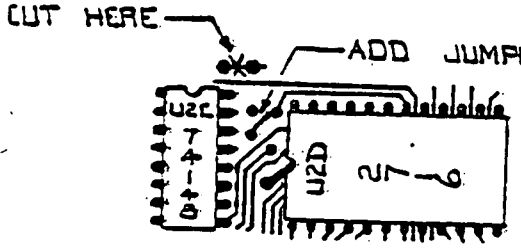


FRONT VIEW OF SDS BOARD
DETAIL A

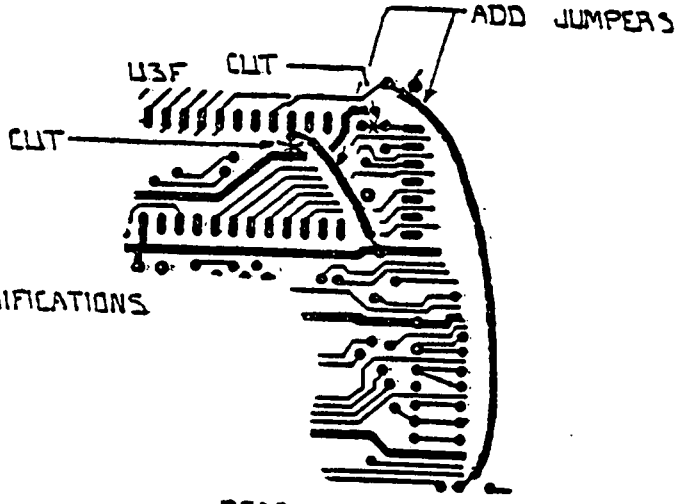


REAR VIEW OF SDS BOARD
DETAIL A-1

DUAL SIDED FLOPPY MODIFICATIONS

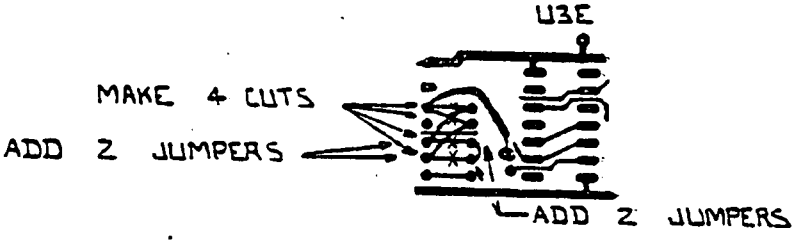


FRONT VIEW
DETAIL B

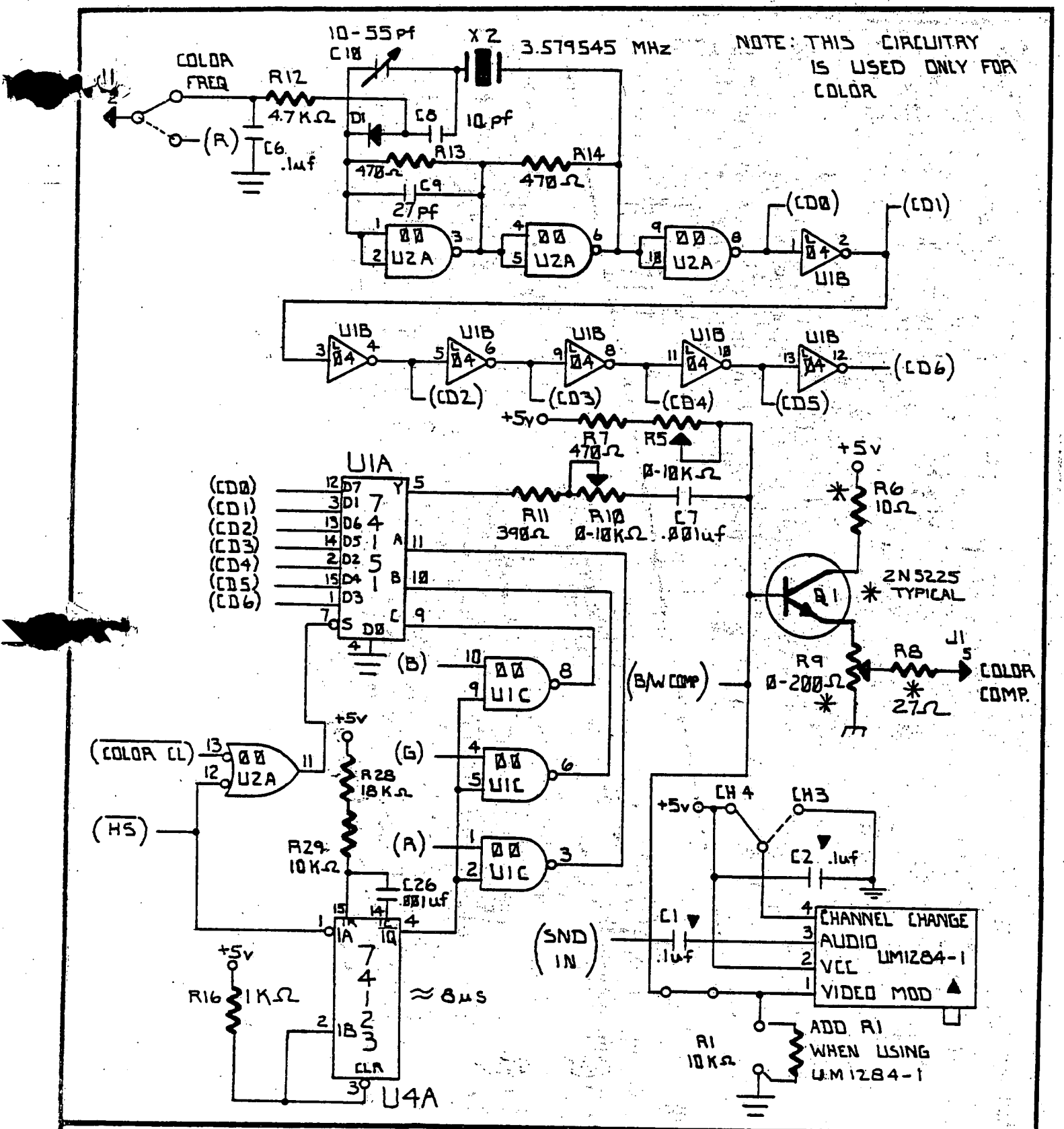


REAR VIEW
DETAIL B-1

2716 E ROM MODIFICATIONS



SERIAL SYSTEM MODIFICATIONS
REAR VIEW
DETAIL C-1



OHIO SCIENTIFIC			product name/number MODEL 540 REV B-1 COLOR OUTPUT	
date 15 AUG. 1979 DRAWN ~ J.L.K.	revision	page	status	sheet 6 of 8

~ NOTE: DELETE COMPONENTS DENOTED WITH ▲ WHEN USING UHF CONVERTER
DELETE COMPONENTS DENOTED WITH * WHEN USING VHF MODULATER

Ohio Scientific BASIC for the 6502, 8K version 3.2

Commands

CONT	LIST	NEW	NULL	RUN

Statements

CLEAR	DATA	DEF	DIM	END	FOR
GOTO	GOSUB	IF...GOTO	IF...THEN	INPUT	LET
NEXT	ON...GOTO	ON...GOSUB	POKE	PRINT	READ
REM	RESTORE	RETURN	STOP		

Expressions

Operators

-, +, *, /, ↑, NOT, AND, OR, >, <, <>, >=, <=, = RANGE 10^{-32} to 10^{+32}

Variables

A, B, C, . . ., Z and two letter variables
The above can all be subscripted when used in an array
String variables use above names plus $, eg. A$

Functions

ABS(X)	ATN(X)	COS(X)	EXP(X)	FRE(X)	INT(X)
LOG(X)	PEEK(I)	POS(I)	RND(X)	SGN(X)	SIN(X)
SPC(I)	SQR(X)	TAB(I)	TAN(X)	USR(I)	

String Functions

ASC(X$)	CHR$(I)	FRE(X$)	LEFT$(X$,I)	LEN(X$)	MID$(X$, I, J)
RIGHT$(X$,I)		STR$(X)		VAL(X$)	

Special Characters

● Erases line being typed, then provides carriage return, line feed.
← Erases last character typed.
CR Carriage Return -- must be at the end of each line
: Separates statements on a line.
CONTROL/C Execution or printing of a list is interrupted at the end of a line. "BREAK IN LINE XXXX" is printed, indicating line number of next statement to be executed or printed.
CONTROL/O No outputs occur until return made to command mode. If an Input statement is encountered, either another CONTROL/O is typed, or an error occurs.
? Equivalent to PRINT