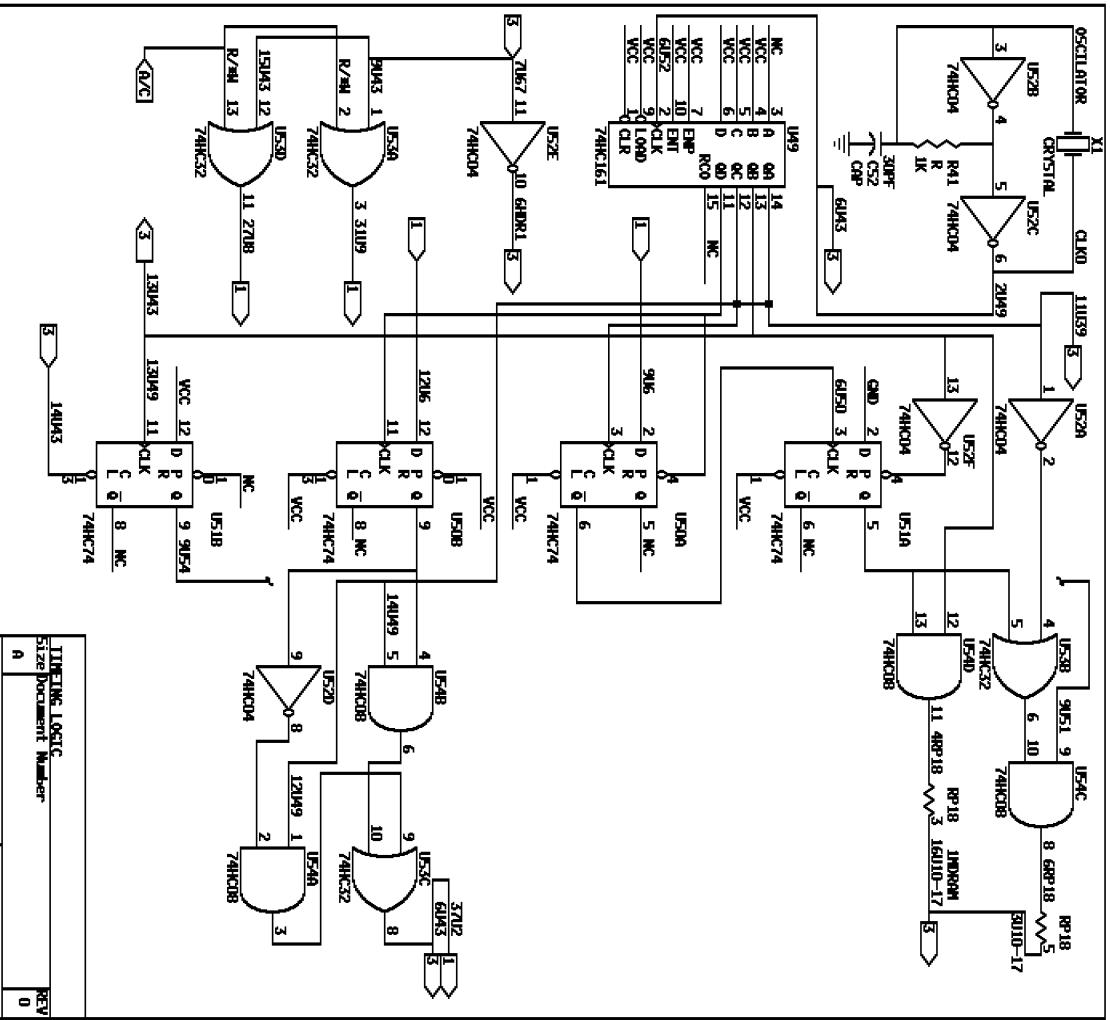
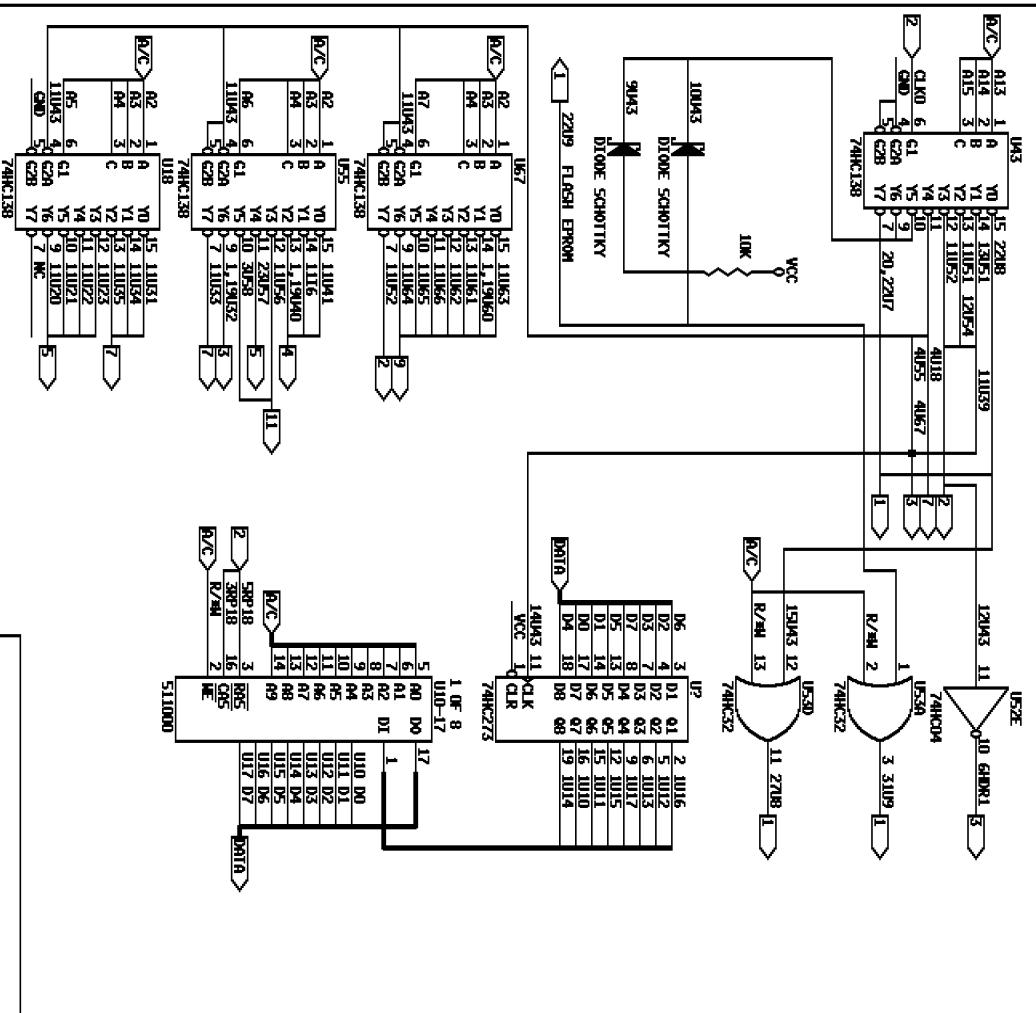


58-20. UP/EM
Size Document Number
A

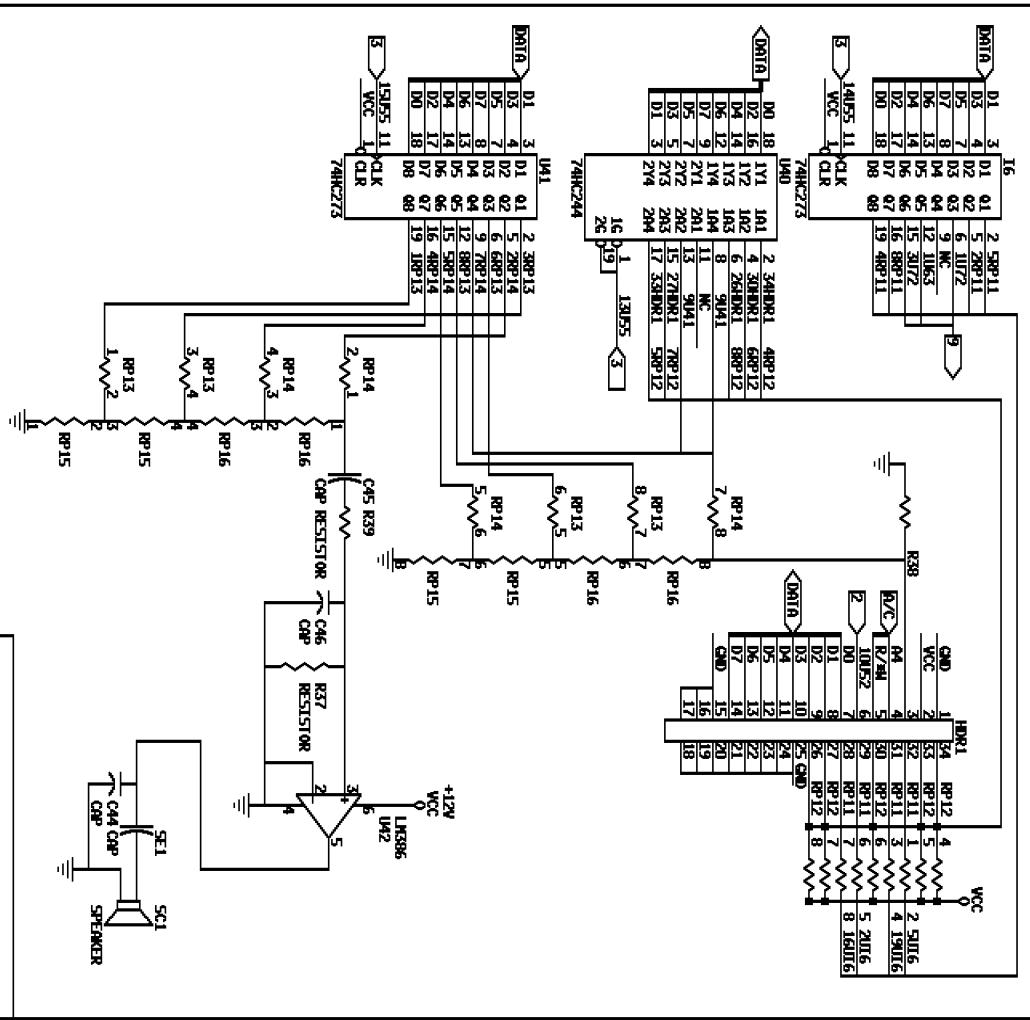


TIMEING LOGIC
Size Document Number
A



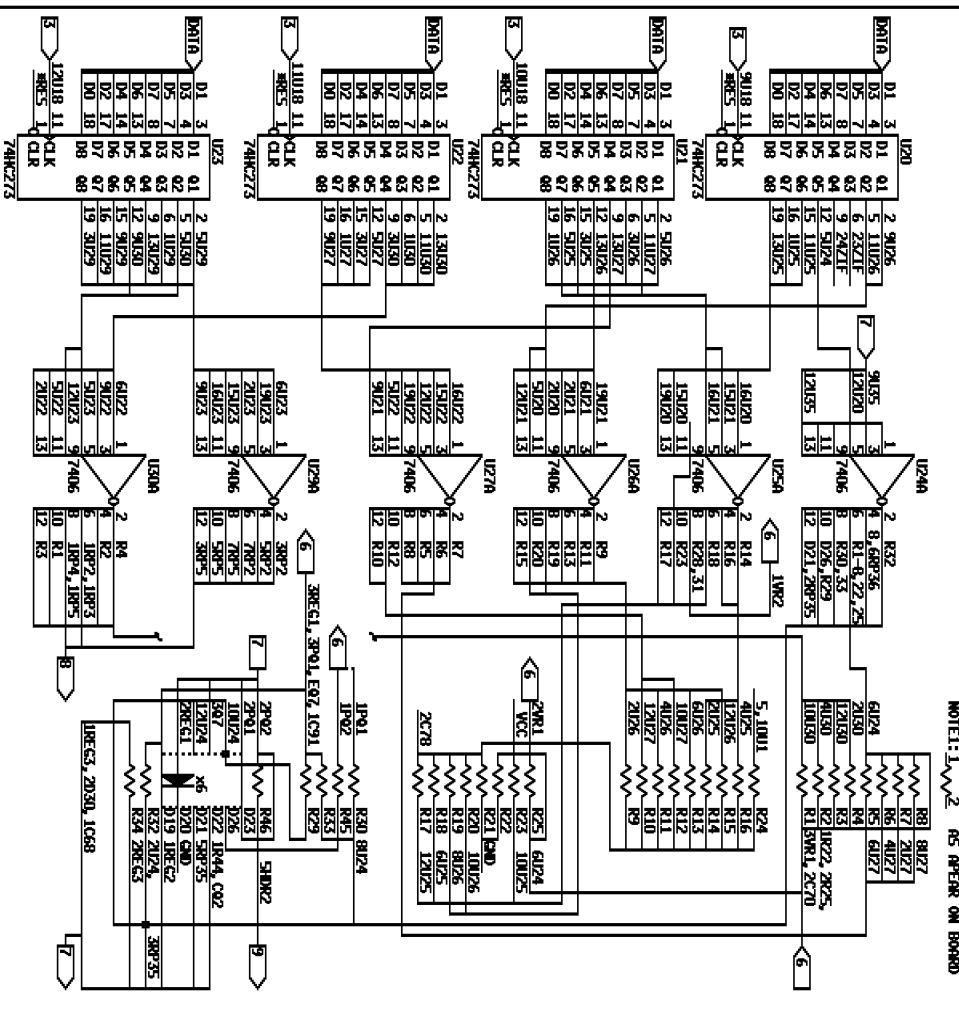
RECORDED DATE	REV 0
SIZE	
DOCUMENT NUMBER	

Date: February 27, 1990 Sheet 3 of 11

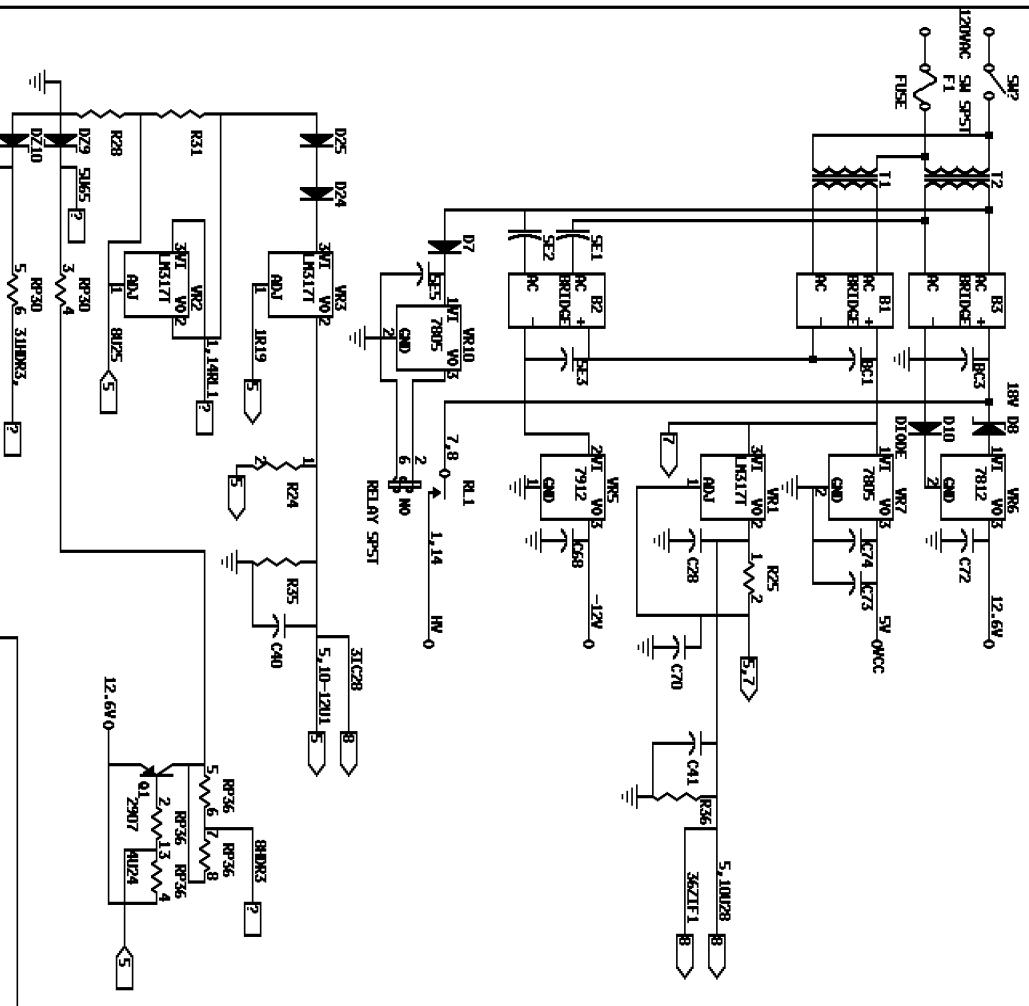


KOD SPKR LCD	REV 0
Size document Number	
A	

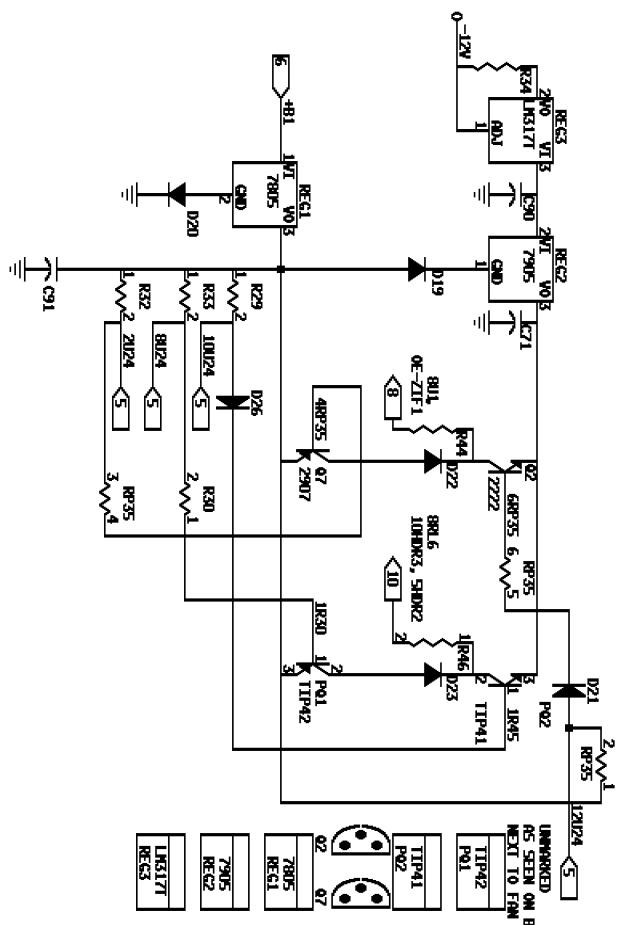
Date: April 13, 1989 Sheet 4 of 11



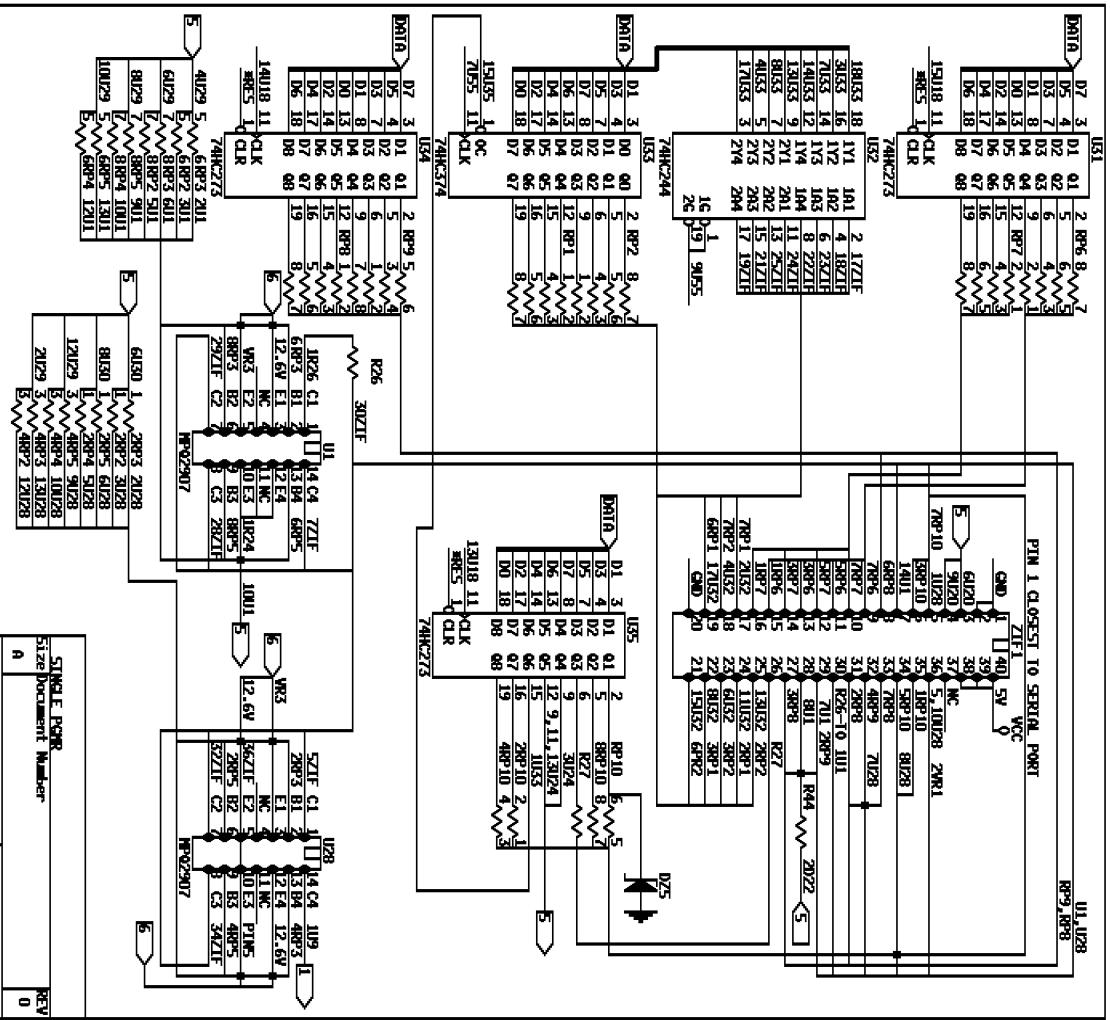
IN-LV-SUPPLY SHEETS 5-7



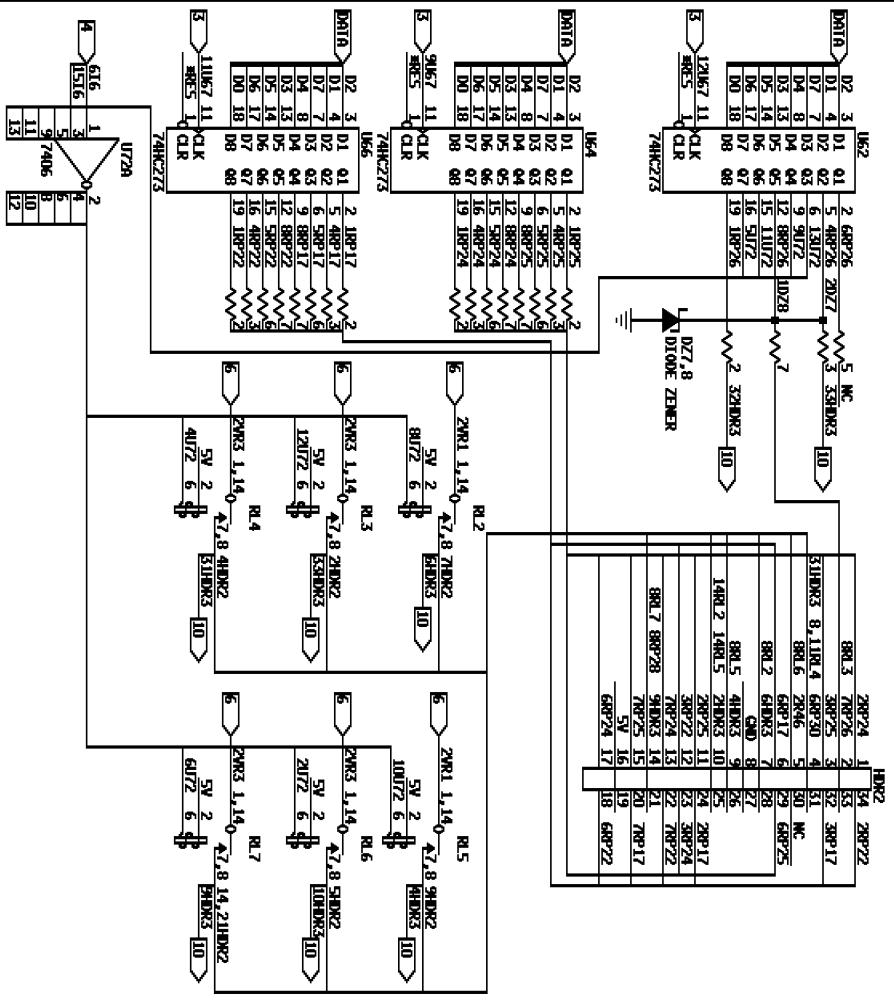
HALF-SUPPLY SHEETS 5-7	
Size document Number	REV 0
A	Date: April 12, 1989 Sheet 6 of 11



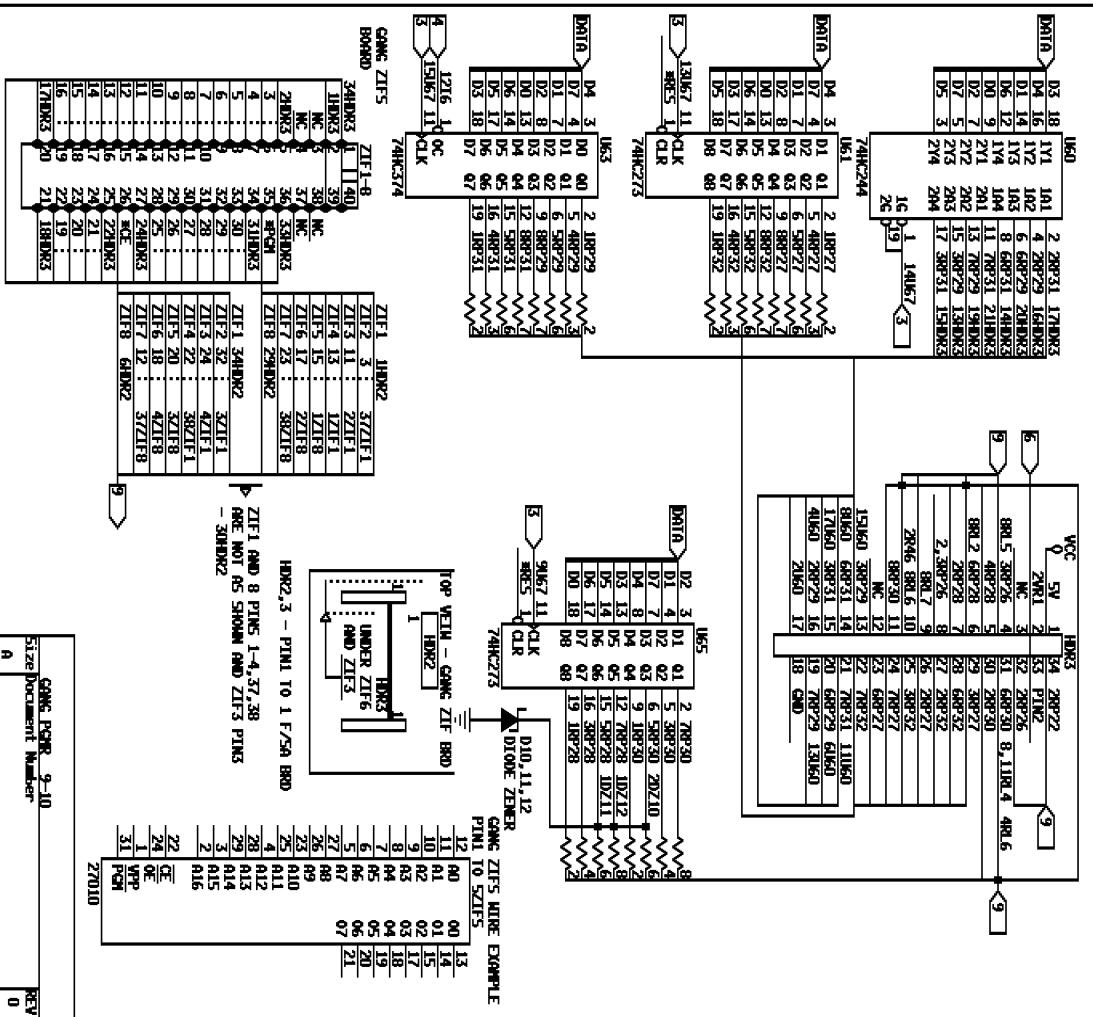
HALF-SUPPLY SHEETS 5-7



SINGLE PAGE
Size Document Number
A

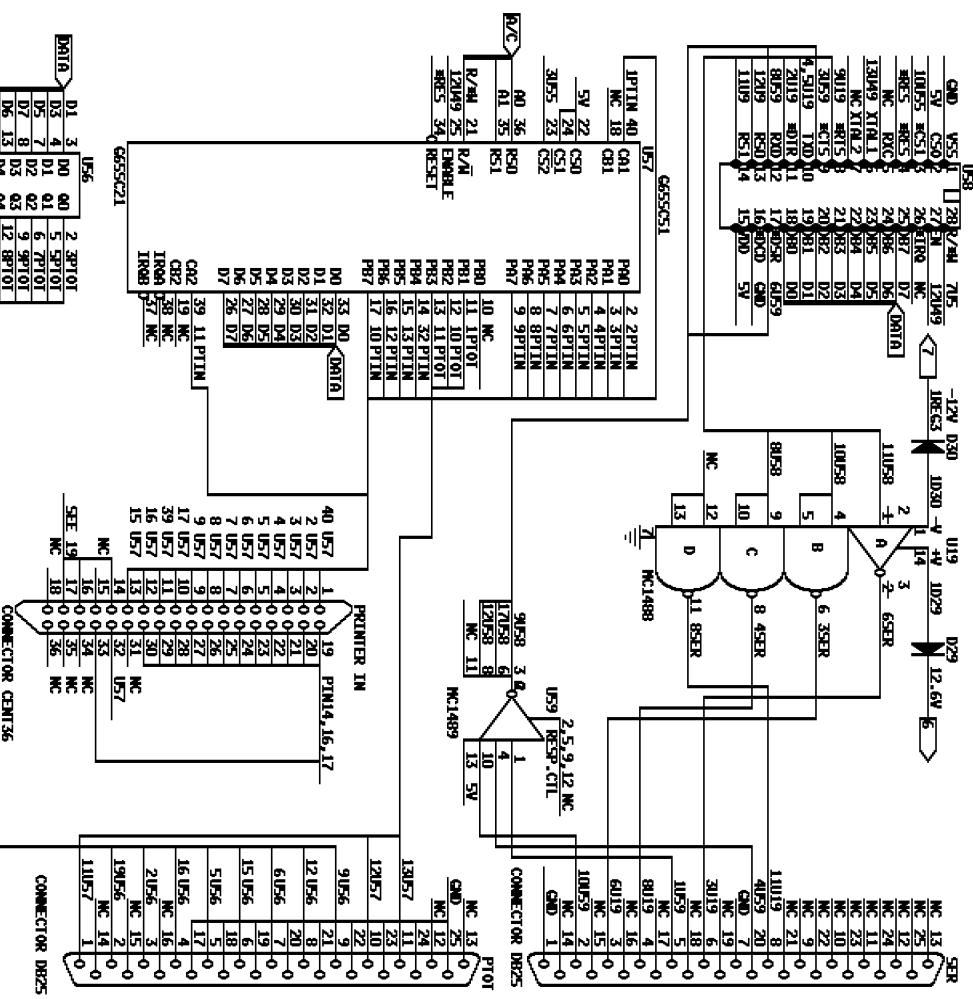


GONG FORM 2-10	
Size A	Document Number 0
Date: April 14, 1989	Sheet 9 of 11



104

卷之三



REV 0	SIZE 10	SERIAL NUMBER A
Date: February 27, 1990 Sheet 11 of 11		

SA20 SCHEMATIC DIRECTORY

uP/MEMORY.....S1
TIMEING LOGIC.....S2
DECODER LOGIC.....S3
KBRD,SPKR,LCD.....S4
HV,LV,SUPPLY.....S5-S7
SINGLE PGMR.....S8
GANG PGMR.....S9-S10
SERIAL/PARALLEL IO....S11

SA-20,10 IC LIST, filename: saic.lst

top is at port connectors

IC-1 MPQ-2907 ;low left corner brd
IC-2 65C02 ;only 40 pin bot right brd
IC-3 74HC244 ;second left of 6502
IC-4 74HC245 ;r of 6502
IC-5 74HC244 ;l of 6502
IC-6 74HC273 ;l of IC-9(Flash)
I6 74HC273 ;I6 is type error on board ;second r of 6502
IC-7 27C64A
IC-8 HM6264LP-15
IC-9 28F256
IC-(10-17) 4C1001 ;1meg drams
IC-18 74HC138 ;b lft corner of IC-9(Flash)
IC-19 MC1488 ;top left of board
IC-(20-23) 74HC273 ;3rd left of IC-9(Flash)
IC-(24-27) 7406 ;left of top left corner IC-9
IC-28 MPQ-2907 ;bot left corn board
IC-(29,30) 7406 ;lft of IC-9 at edge of brd
IC-31 74HC273 ;r of zif
IC-32 74HCT244 ;r of zif
IC-33 74HC374 ;r of zif
IC-34 74HC273 ;r of zif
IC-35 74HC273 ;second lft of IC-9
IC-(36,37,38) NU
IC-39 74HC273 ;bot right of brd
IC-40 74HC244 ;3 right of 6502
IC-41 74HC273 ;4 right of 6502
IC-42 LM386 ;bot right cornr of brd
IC-43 74HC138 ;bot left cornr 6502
IC-(44,45,46,47,48) NU
IC-49 74HC161B1 ;below IC-9
IC-(50,51) 74HC74 ;below IC-9
IC-52 74HC04 ;below IC-9
IC-53 74HC32 ;below IC-9
IC-54 74HC08 ;below IC-9 bot edge brd
IC-55 74HC138 ;r of top right cornr 6502
IC-56 74HC374 ;r top of brd
IC-57 65SC24P-1 ;mid top of brd
IC-58 65SC54PI-1 ;l mid top of brd
IC-59 MC1489 ;l top brd
IC-60 74HCT244 ;mid right of brd
IC-61 74HC273 ;mid brd
IC-62 74HC273 ;mid r brd
IC-63 74HC374 ;mid r brd
IC-(64-66) 74HC273 ;up mid brd
IC-67 74HC138 ;r of top right corner 6502
IC-(68,69,70,71) NU
IC-72 7406 ;above 6502

THE END OF IC LIST 61 IC's TOTAL

title: sarp.lst

March 27 1989, 2:05pm a list of resistor packs and reference to location

RP1 :bottom mid left
PR2 :pr2(typeo) btm mid left
RP2-5 :mid far left

rp6-7 ;low left
rp8 ;low mid lft
rp9 ;btm left
rp10 ;low mid left
rp11 ;lower right
rp12 ;low right
rp13-16 ;low far right
rp17 ;mid up
rp18 ;btm mid
rp19 ;low mid
rp20 ;low mid
rp21-NU
rp22 ;mid up
rp23-NU
rp24 ;mid up
rp25 ;mid up
rp26 ;middle
rp27 ;mid right
rp28 ;mid up right
rp29 ;mid right
rp30 ;mid up right
rp31 ;mid right
rp32 ;mid right
rp33-34-NU
rp35 ;up left
rp36 ;upper right