Clocks
Main Clock: 32.215905 MHz
VCLK: 10.738 MHz
CCLK: 3.5795 MHz
LCD Inverter: 30kHz (@ 200 VAC)

{Control}

{SND}

Link Connector
File: link_connector.kicad_sch

T1 (test point) uses value because R conflicts with transformer T1

OG did not negate control bus signal names. Negative/Bars added here.

C5 may be wrong designator.
Difficult to read.

IC1
315-3638 (?)
Difficult to read IC1 Part Number

CN1
CONN 45P for GG 01

IC3
uPDF4364

IC2
HM65256

buttons
File: buttons.kicad_sch

LCD Connect, Backlight, and Pre-Sound
File: lcd_backlight_presound.kicad_sch

CN4
WIRE HARN 9P FOR GG

Main clock listed as 31.215905 MHz in service manual but no value given in VA0 or VA1 schematic

D4 value difficult to read
R30 value difficult to read

Original uses 3 symbols for GND, tied together.
Using modified Analog and Digital in this drawing.

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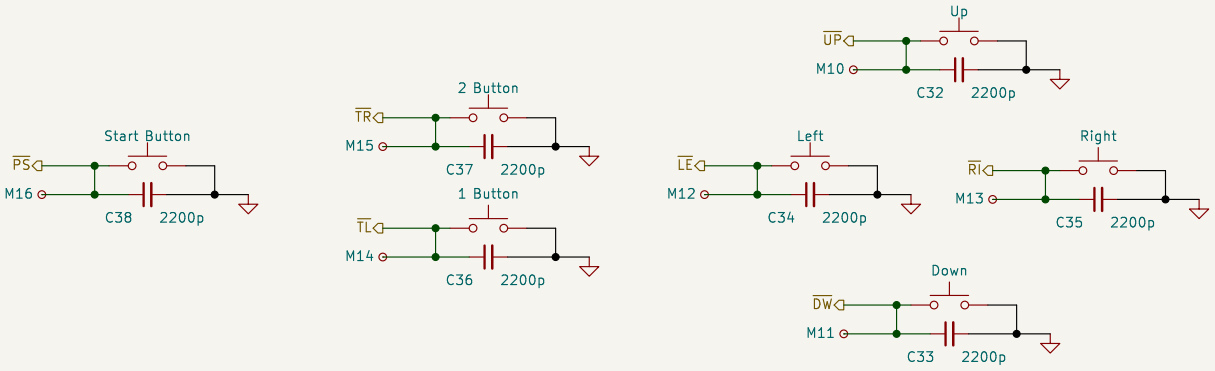
Sheet: /
File: Game Gear VA1.kicad_sch

Title: VA1 Board – (Single ASIC)

Size: A3	Date: 2023-02-14	**Rev: 1**
KiCad E.D.A. kicad (7.0.0)		Id: 1/4



(Re-organized from original schematic.)

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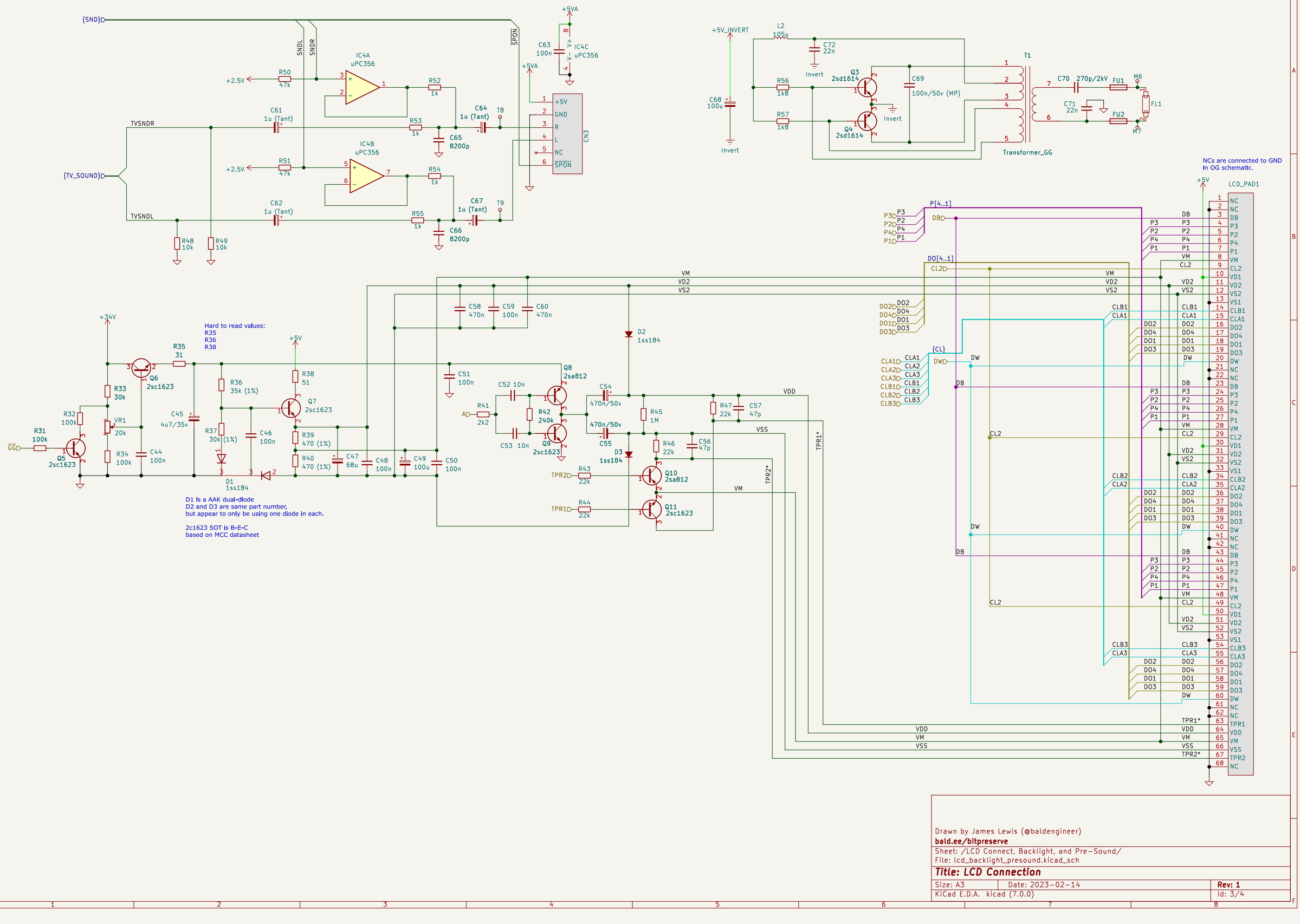
Sheet: /buttons/
File: buttons.kicad_sch

Title: Button Pads

Size: A4	Date: 2023-02-14	**Rev: 1**
KiCad E.D.A. kicad (7.0.0)		Id: 2/4


{SND}
SNDL
SNDR
SPON
+5VA
C63
100n
IC4C
uPC356
IC4A
uPC356
+2.5V
R50
47k
R52
1k
C61
1u (Tant)
TVSNDR
R53
1k
C64
1u (Tant)
T8
C65
8200p
CN3
+5V
GND
R
L
NC
SPON
{TV_SOUND}
IC4B
uPC356
R51
47k
R54
1k
C62
1u (Tant)
TVSNDL
R55
1k
C67
1u (Tant)
T9
C66
8200p
R48
10k
R49
10k
+5V_INVERT
C68
100u
Invert
L2
105u
C72
22n
R56
1k8
R57
1k8
Q3
2sd1614
Q4
2sd1614
C69
100n/50v (MP)
T1
Transformer_GG
C70
270p/2kV
C71
22n
FU1
FU2
M6
M7
FL1
NCs are connected to GND
In OG schematic.
LCD_PAD1
P[4..1]
DO[4..1]
{CL}
DW
DB
CL2
VM
VD2
VS2
CLB1
CLA1
CLB2
CLA2
CLB3
CLA3
VDD
VSS
TPR1*
TPR2*
+34V
R35
31
Hard to read values:
R35
R36
R38
Q6
2sc1623
R33
30k
R32
100k
VR1
20k
R31
100k
GG
Q5
2sc1623
R34
100k
C44
100n
C45
4u7/35v
R36
35k (1%)
R37
30k (1%)
D1
1ss184
C46
100n
R38
51
Q7
2sc1623
R39
470 (1%)
R40
470 (1%)
C47
68u
C48
100n
C49
100u
C50
100n
C58
470n
C59
100n
C60
470n
C51
100n
D2
1ss184
C52 10n
C53 10n
R41
2k2
Q8
2sa812
R42
240k
Q9
2sc1623
C54
470n/50v
C55
470n/50v
R45
1M
R46
22k
C56
47p
R47
22k
C57
47p
D3
1ss184
R43
22k
Q10
2sa812
R44
22k
Q11
2sc1623
TPR2
TPR1
D1 Is a AAK dual-diode
D2 and D3 are same part number,
but appear to only be using one diode in each.
2c1623 SOT is B-E-C
based on MCC datasheet
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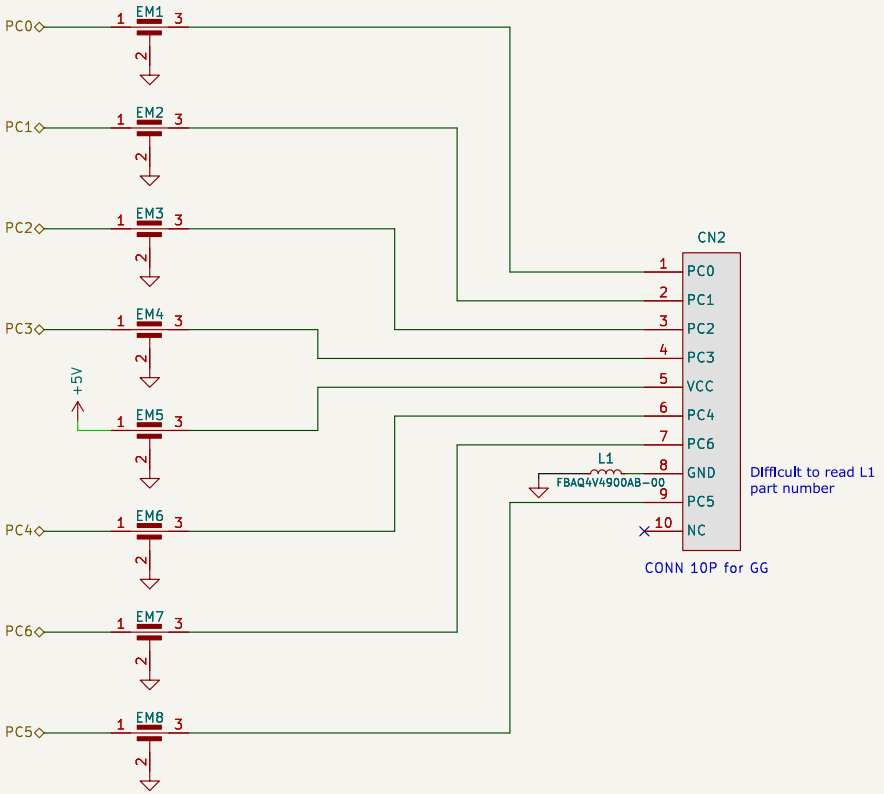
Sheet: /LCD Connect, Backlight, and Pre-Sound/
File: lcd_backlight_presound.kicad_sch
Title: LCD Connection
Size: A3
Date: 2023-02-14
Rev: 1
KiCad E.D.A. kicad (7.0.0)
Id: 3/4



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Sheet: /Link Connector/

File: link_connector.kicad_sch

Title: Link Connector

Size: A4	Date: 2023-02-14	**Rev: 1**
KiCad E.D.A. kicad (7.0.0)		Id: 4/4