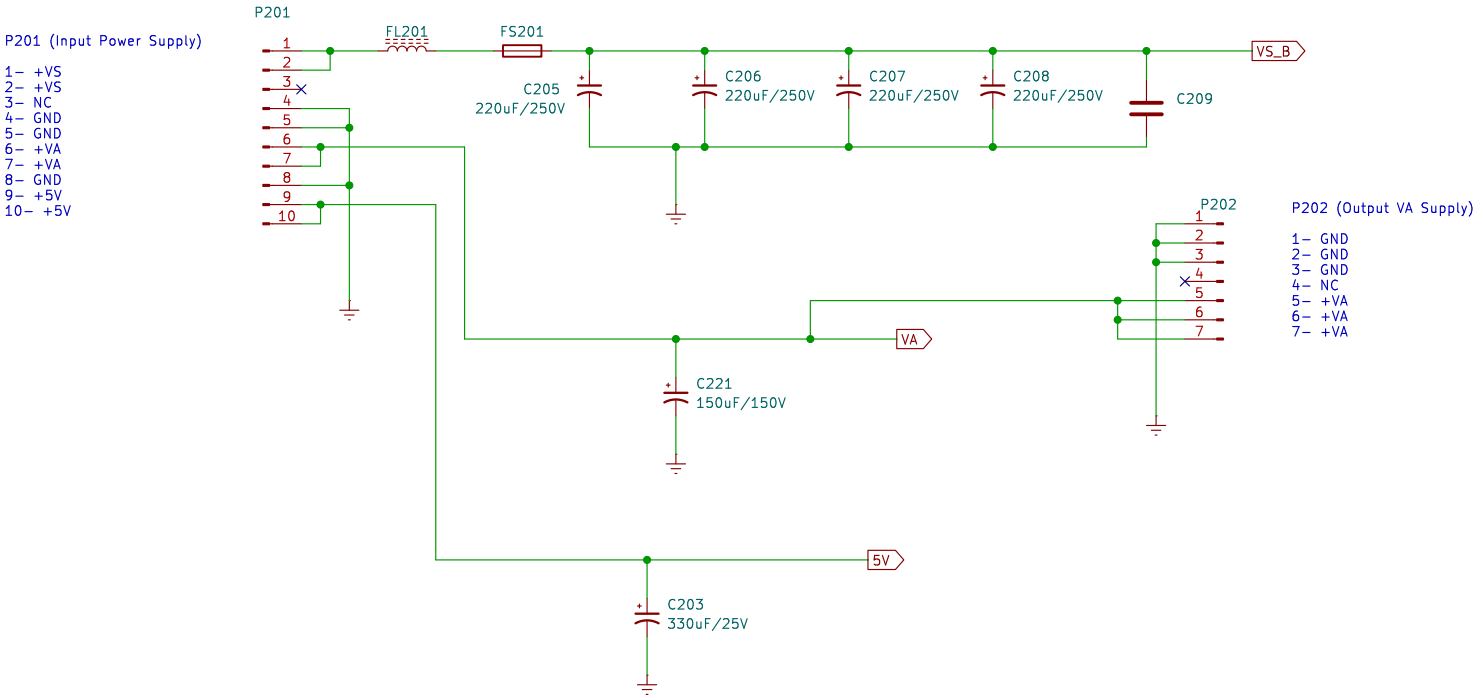
VOLTAGES SUPPLY



VS Voltage supply
Author: Fábio Pereira da Silva

Sheet: /
File: y_board.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

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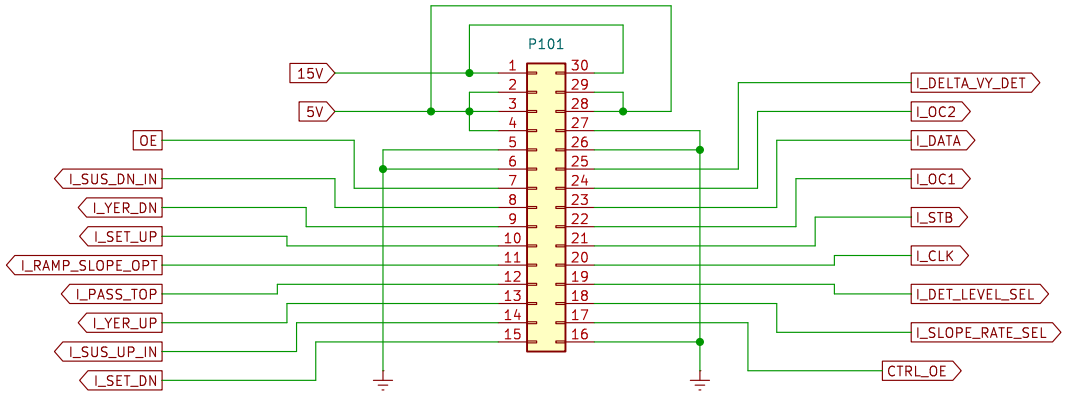
Input Control (Part 1 of 3)

P101

1- 15V
2- 5V
3- 5V
4- 5V
5- GND
6- GND
7- (2- OE)
8- (4- I_YSUS_DN_IN)
9- (6- I_YER_DN)
10- (8- I_SET_UP)
11- (10- I_RAMP_SLOPE_OPT)
12- (12- I_PASS_TOP)
13- (14- I_YER_UP)
14- (16- I_SUS_UP_IN)
15- (18- I_SET_DN)

30- 15V
29- 5V
28- 5V
27- GND
26- GND
25- (1 - I_DELTA_VY_DET)
24- (3- I_OC2)
23- (5- I_DATA)
22- (7- I_OC1)
21- (9- I_STB)
20- (11- I_CLK)
19- (13- I_DET_LEVEL_SEL)
18- (15- I_SLOPE_RATE_SEL)
17- (17- I_CTRL_OE)
16- GND



Input Control (Part 1 of 3)
Author: Fábio Pereira da Silva

Sheet: /Input control (Part 1 of 3)/
File: input_control.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
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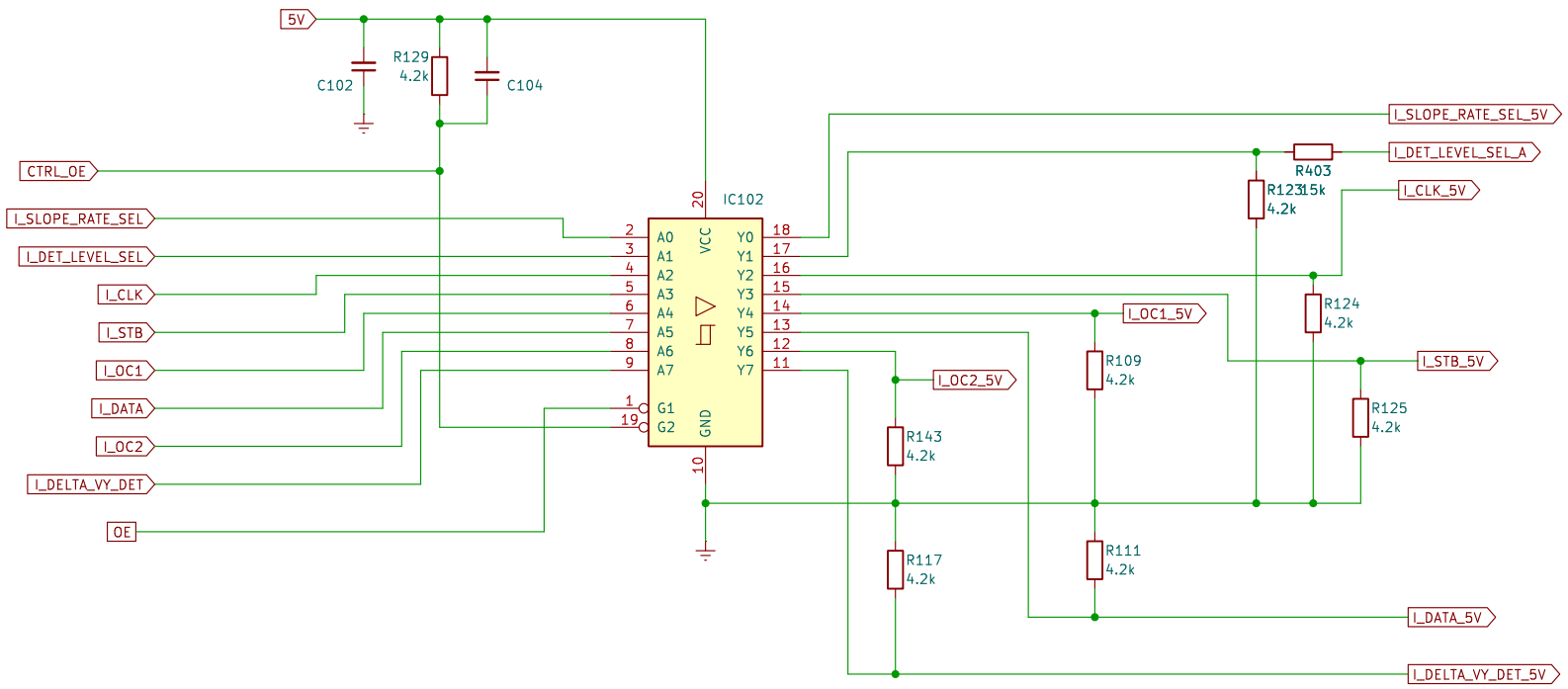
Input Control (Part 2 of 3)



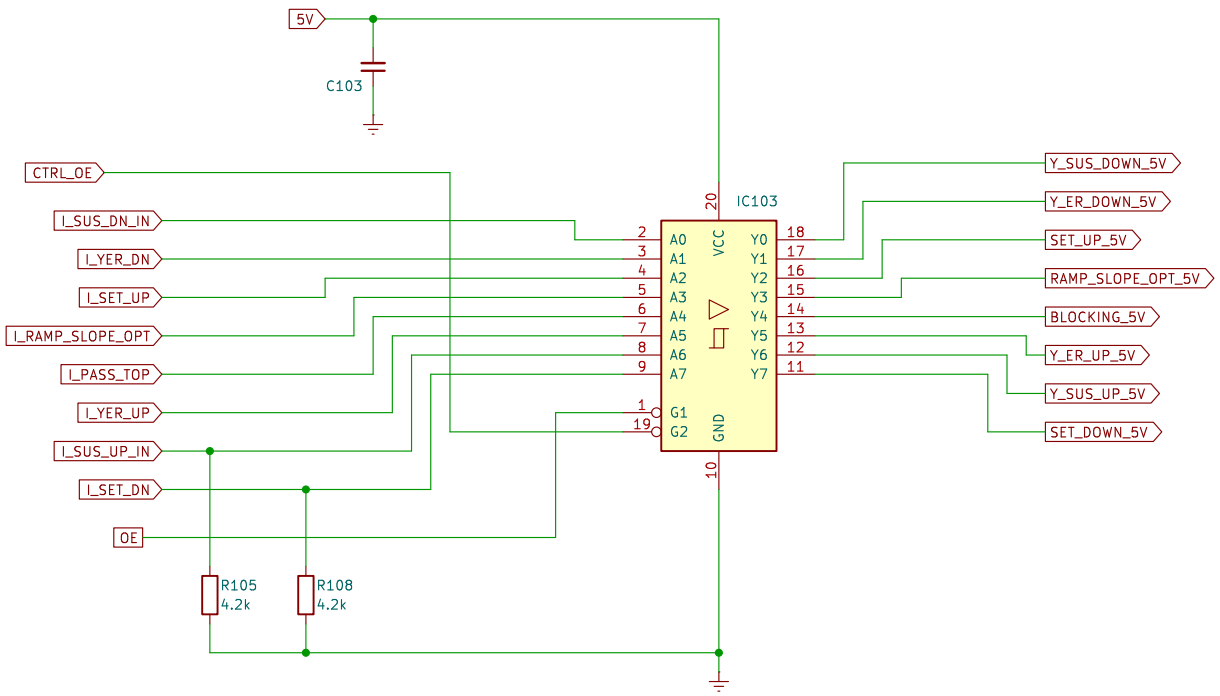
Input Control (Part 2 of 3)
Author: Fábio Pereira da Silva

Sheet: /Input control (Part 2 of 3)/
File: input_control2.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 3/17

Input Control (Part 3 of 3)



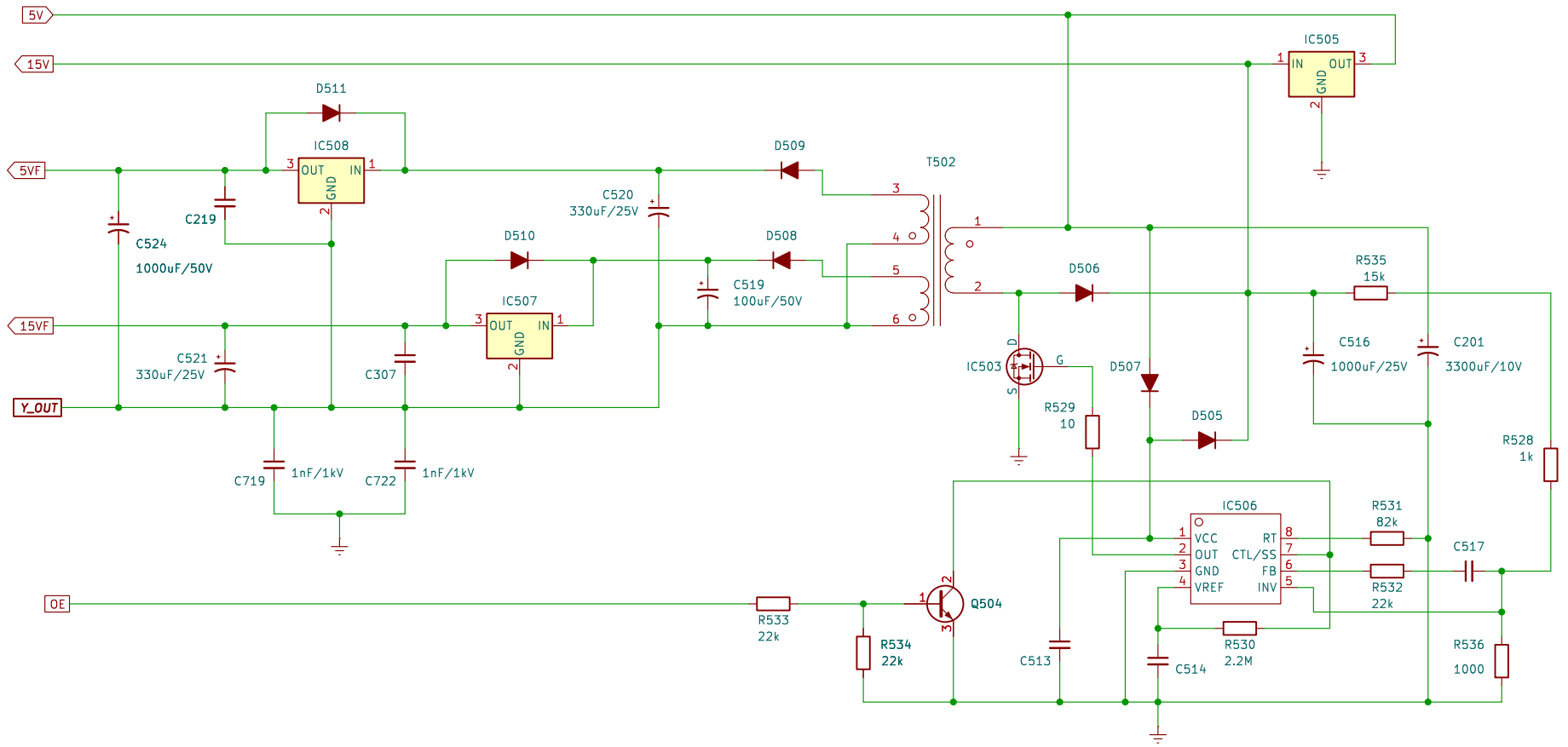
Input Control (Part 3 of 3)
Author: Fábio Pereira da Silva

Sheet: /Input control (Part 3 of 3)/
File: input_control3.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 4/17

5VF, 15VF and 15V Supply



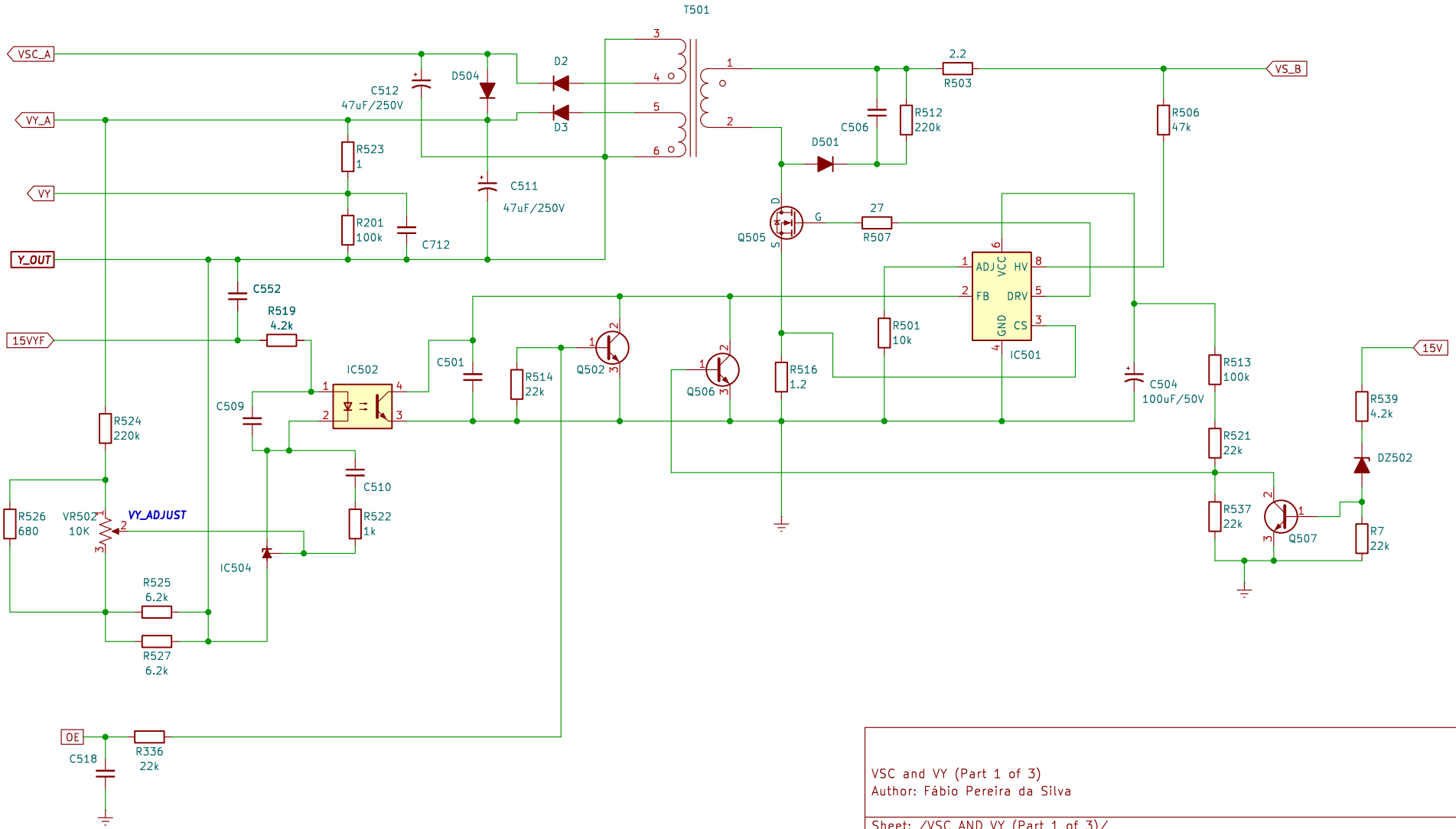
5VF, 15VF and 15V Supply
Author: Fábio Pereira da Silva

Sheet: /5VF, 15VF 15v/
File: 5VF_15VF_15V.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 5/17

VSC and VY (Part 1 of 3)



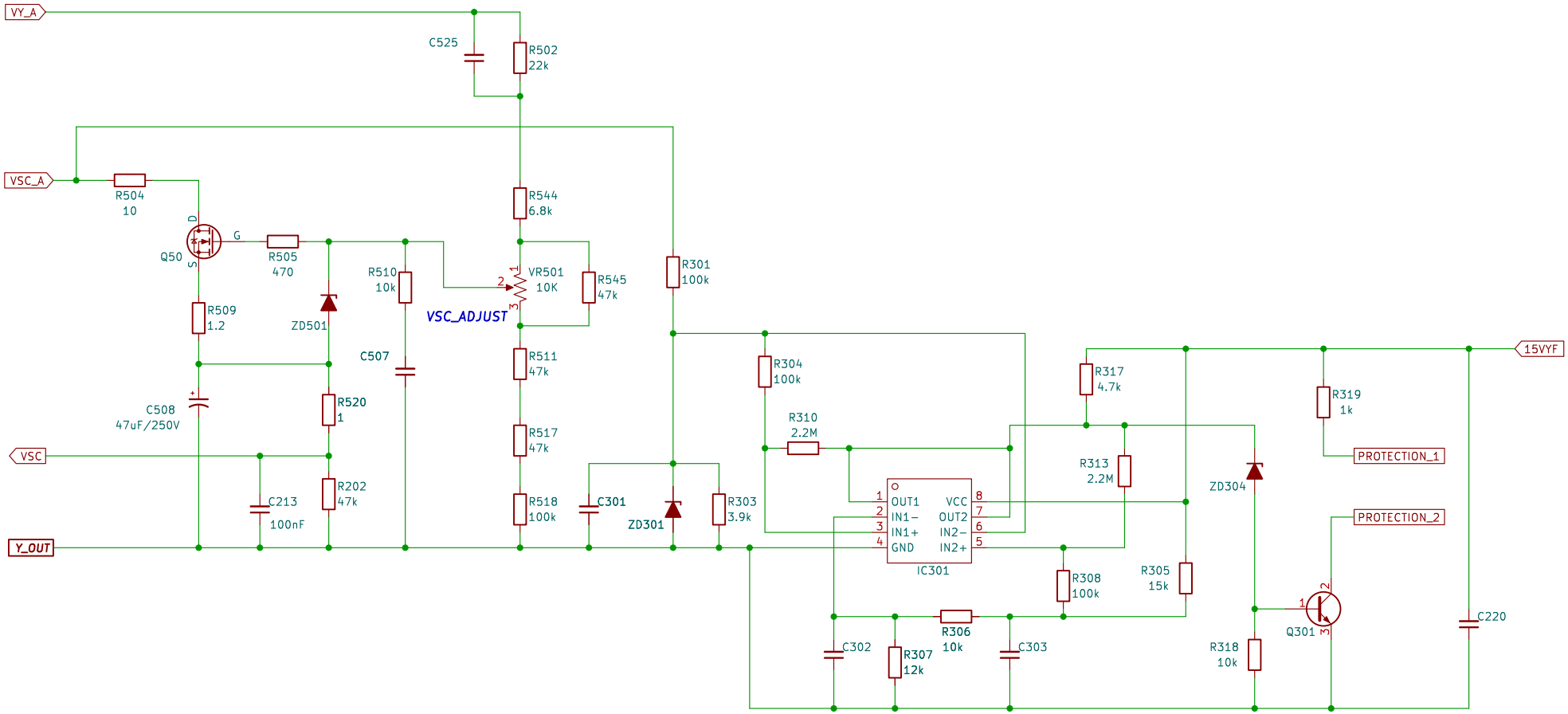
VSC and VY (Part 1 of 3)
Author: Fábio Pereira da Silva

Sheet: /VSC AND VY (Part 1 of 3)/
File: vsc_and_vy.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 6/17

VSC and VY (Part 2 of 3)



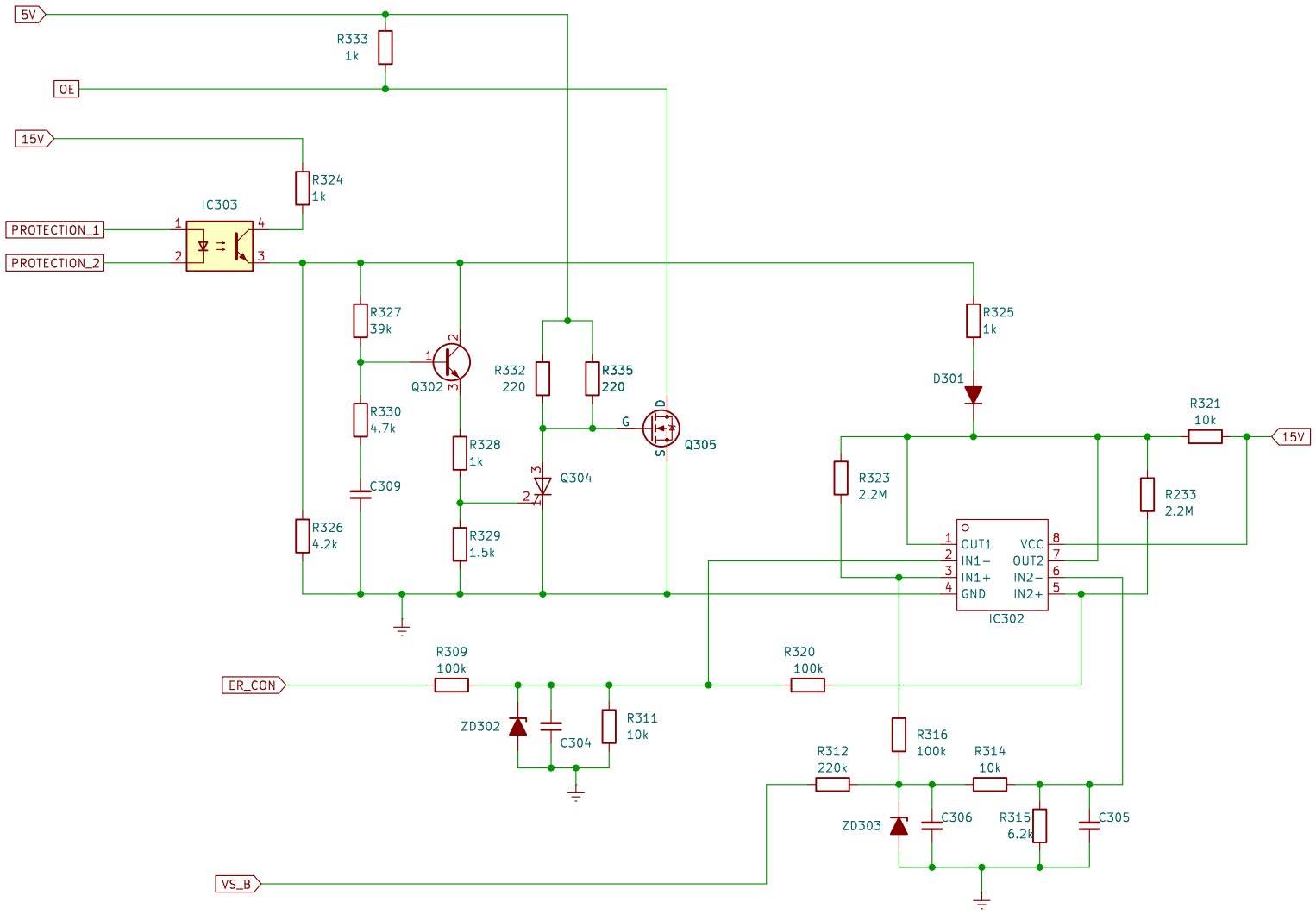
VSC and VY (Part 2 of 3)
Author: Fábio Pereira da Silva

Sheet: /VSC and VY (Part 2 of 3)/
File: vcs_and_vy_part2_of_3.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 7/17

VSC and VY (Part 3 of 3)



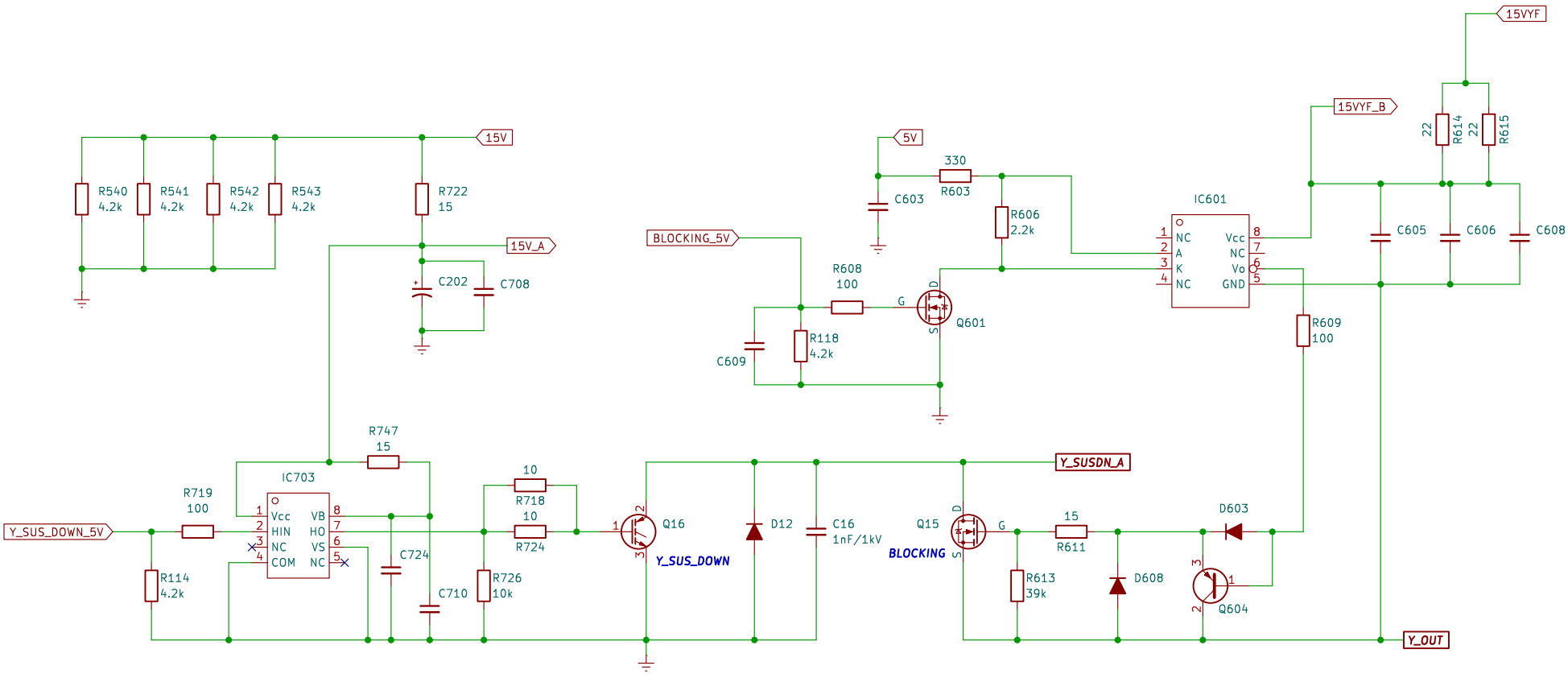
Author: Fábio Pereira da Silva

Sheet: /VSC and VY (Part 3 of 3)/
File: vsc_and_vy_part3_of_3.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 8/17

Y BLOCKING AND Y SUS DOWN



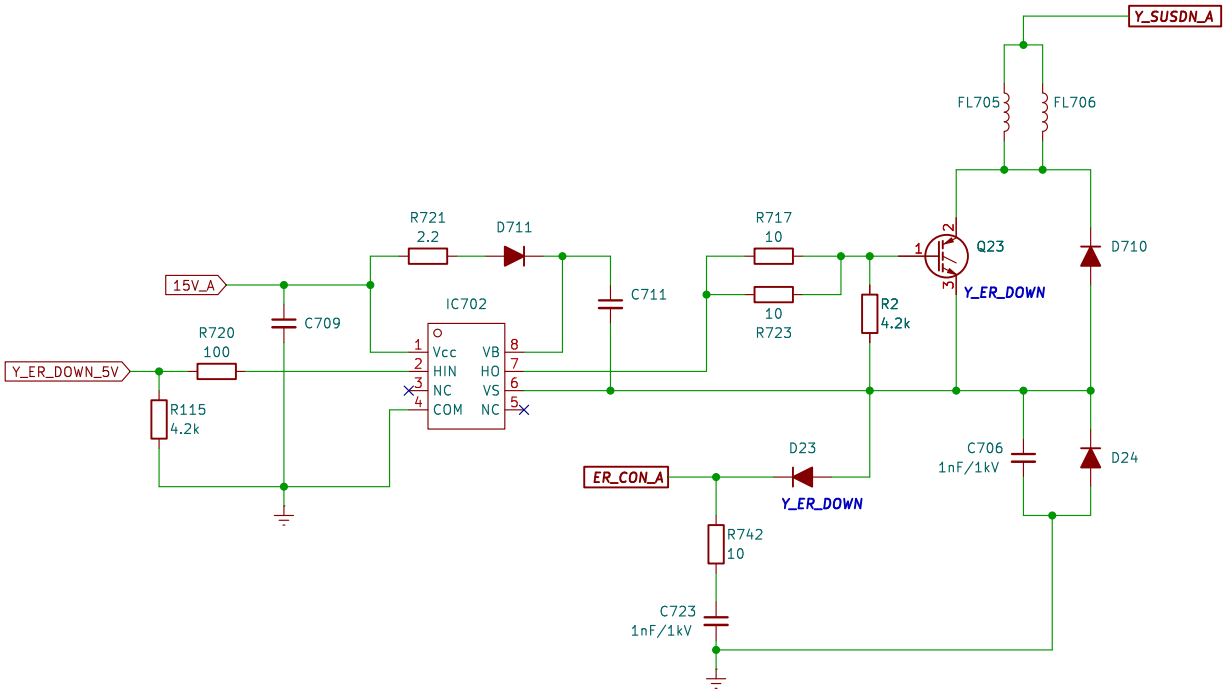
Y_BLOCKING | Y_SUS_DOWN
Author: Fábio Pereira da Silva

Sheet: /Y_SUS_DOWN_AND_Y_BLOCKING/
File: y_sus_dn_and_blocking.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 9/17

Y ENERGY RECOVERY DOWN



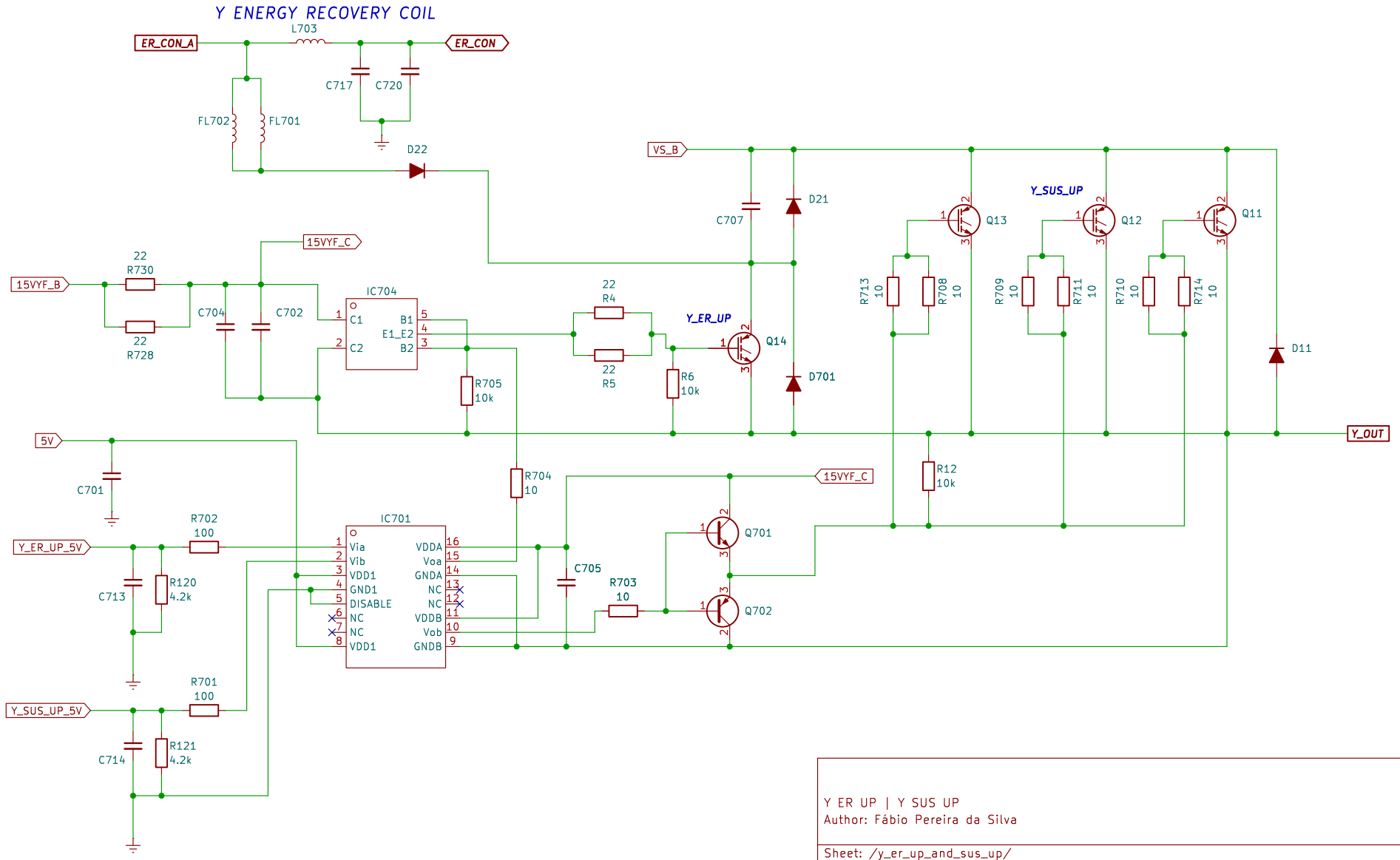
Y ER DOWN
Author: Fábio Pereira da Silva

Sheet: /y_er_down/
File: y_er_down.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 10/17

Y ENERGY RECOVERY UP AND Y SUS UP



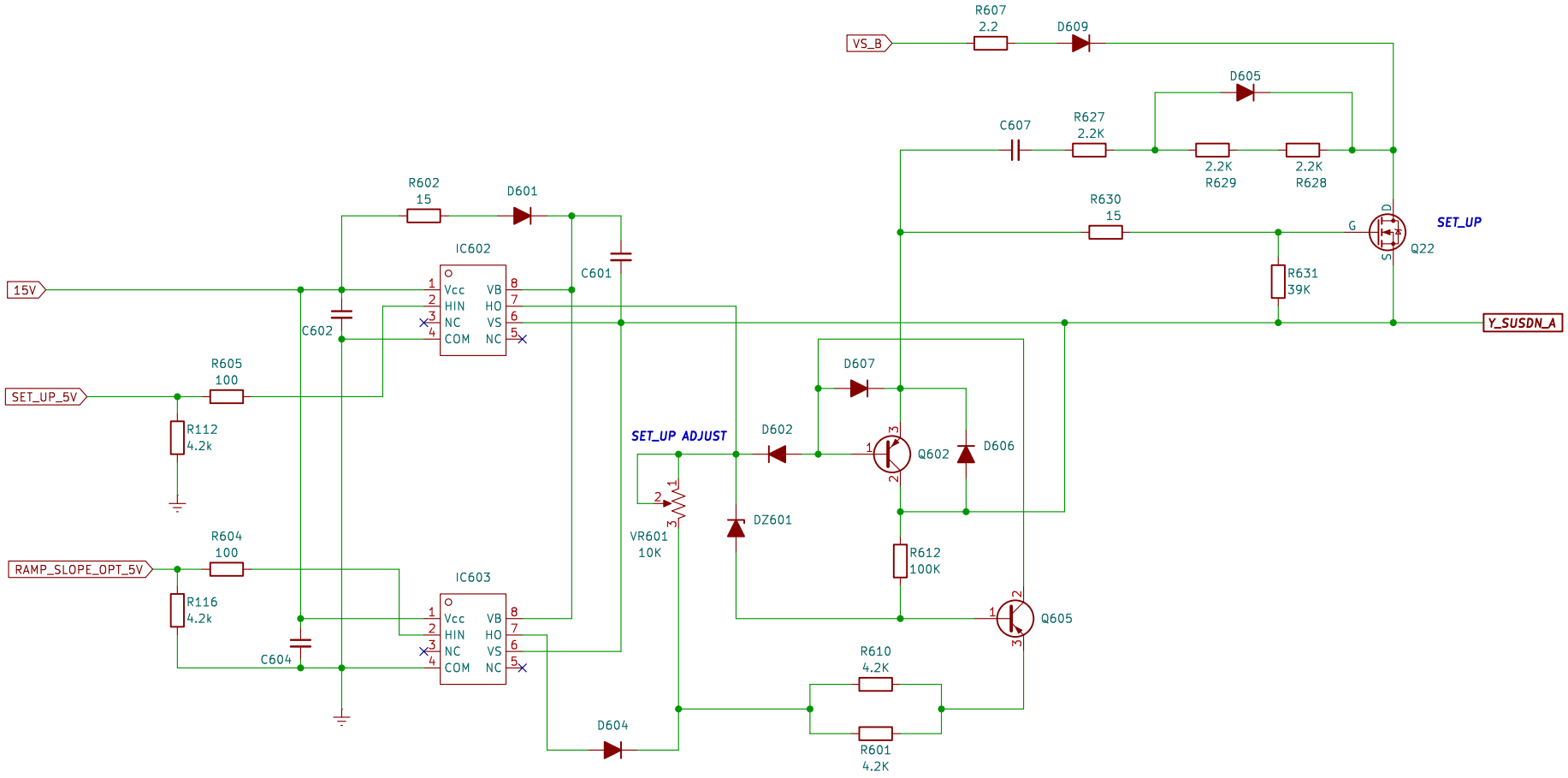
Y ER UP | Y SUS UP
Author: Fábio Pereira da Silva

Sheet: /y_er_up_and_sus_up/
File: y_er_up_and_sus_up.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 11/17

SET UP



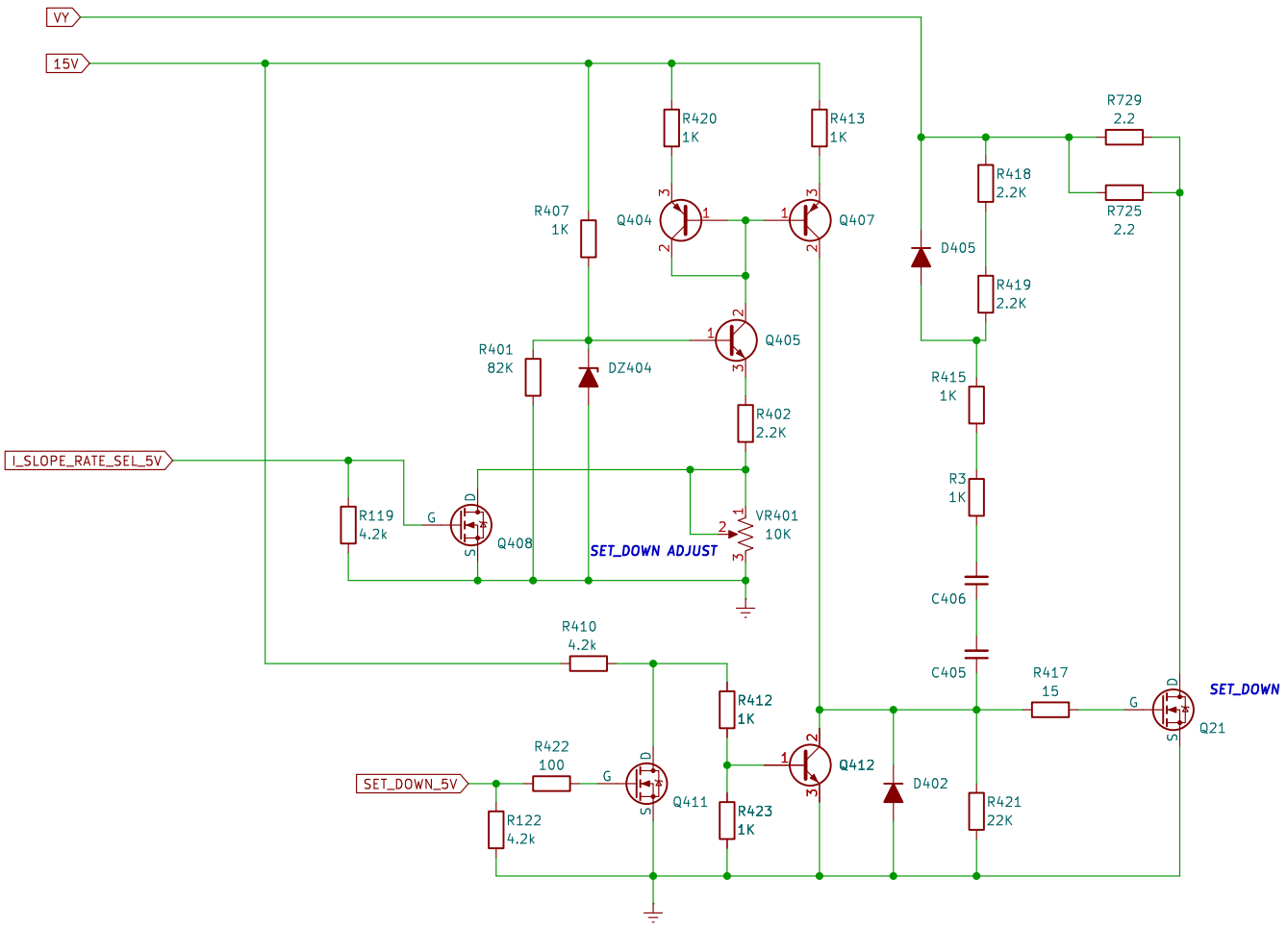
Set Up
Author: Fábio Pereira da Silva

Sheet: /SetUp/
File: set_up.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 12/17

SET DOWN



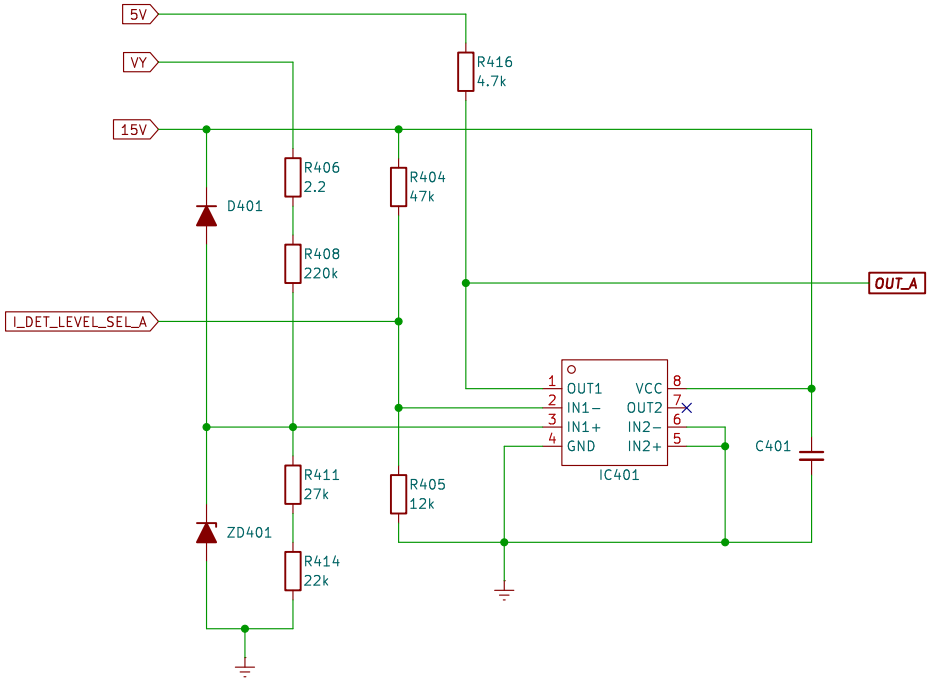
Author: Fábio Pereira da Silva

Sheet: /SetDown/
File: set_down.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 13/17

OUPUT CONTROL (Part 1 of 4)



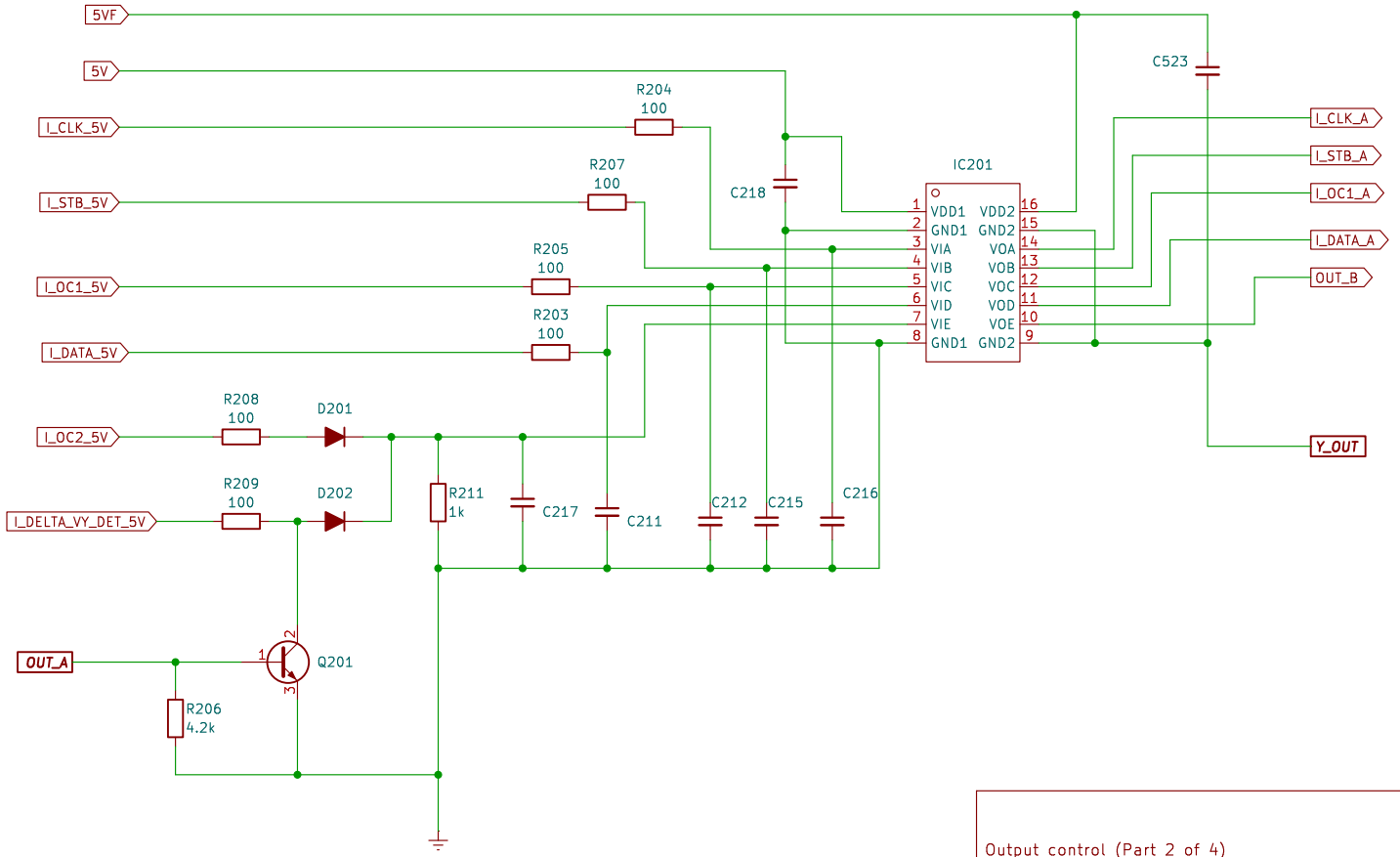
Output Control (Part 1 of 4)
Author: Fábio Pereira da Silva

Sheet: /Output Control (Part 1 of 4)/
File: output_control.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 14/17

OUPUT CONTROL (Part 2 of 4)



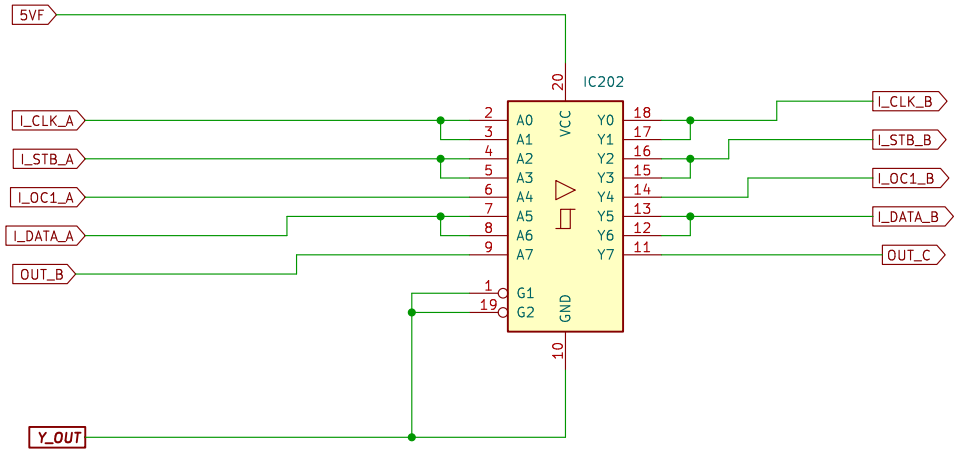
Output control (Part 2 of 4)
Author: Fábio Pereira da Silva

Sheet: /Output Control (Part 2 of 4)/
File: output_control2.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 15/17

OUPUT CONTROL (Part 3 of 4)



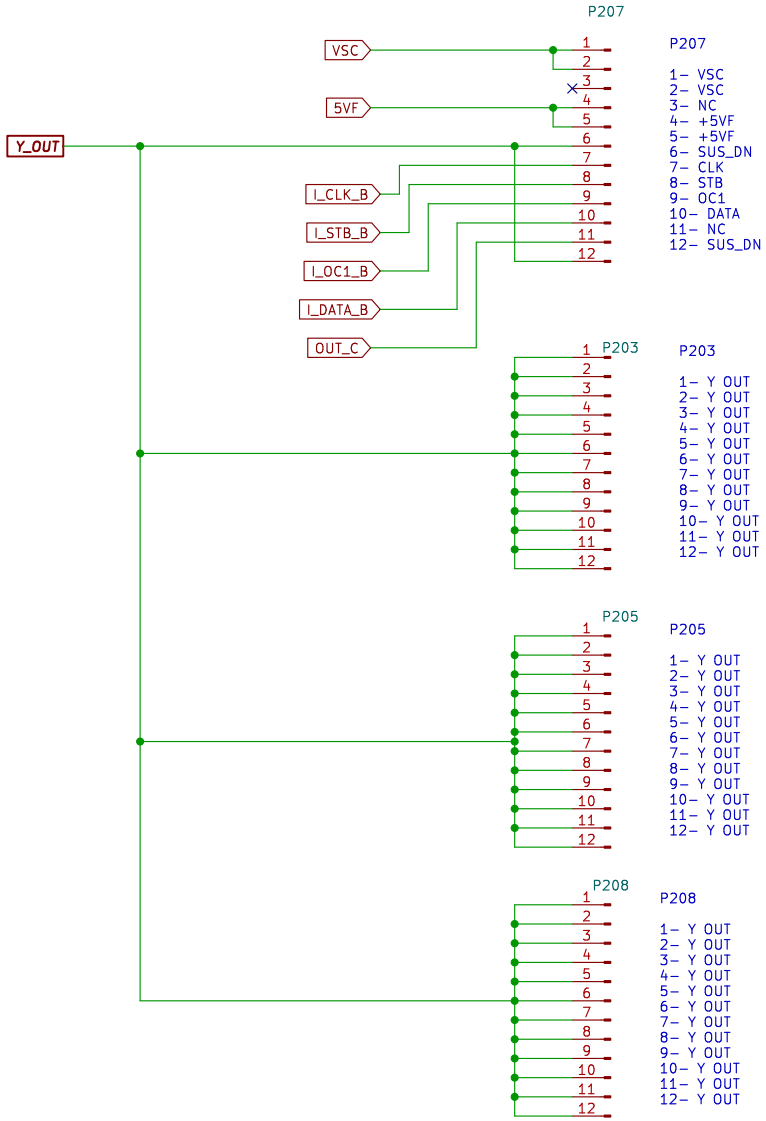
Output control (Part 3 of 4)
Author: Fábio Pereira da Silva

Sheet: /Output Control (Part 3 of 4)/
File: output_control3.kicad_sch

Title: Y BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 16/17

OUPUT CONTROL (Part 4 of 4)



NOTES:
======
- Serigraphy notation in P207 (Y Out) is called SUS_DN
- Pin 11 in P207 in Serigraphy is NC but is connected to output pin 11 in IC 202

Output Control (Part 4 of 4) Author: Fábio Pereira da Silva		
Sheet: /Output Control (Part 4 of 4)/ File: output_control4.kicad_sch		
Title: Y BOARD LG PLASMA TV PANEL		
Size: A4	Date: 2025-03-24	**Rev: 1.0**
KiCad E.D.A. 8.0.9		Id: 17/17