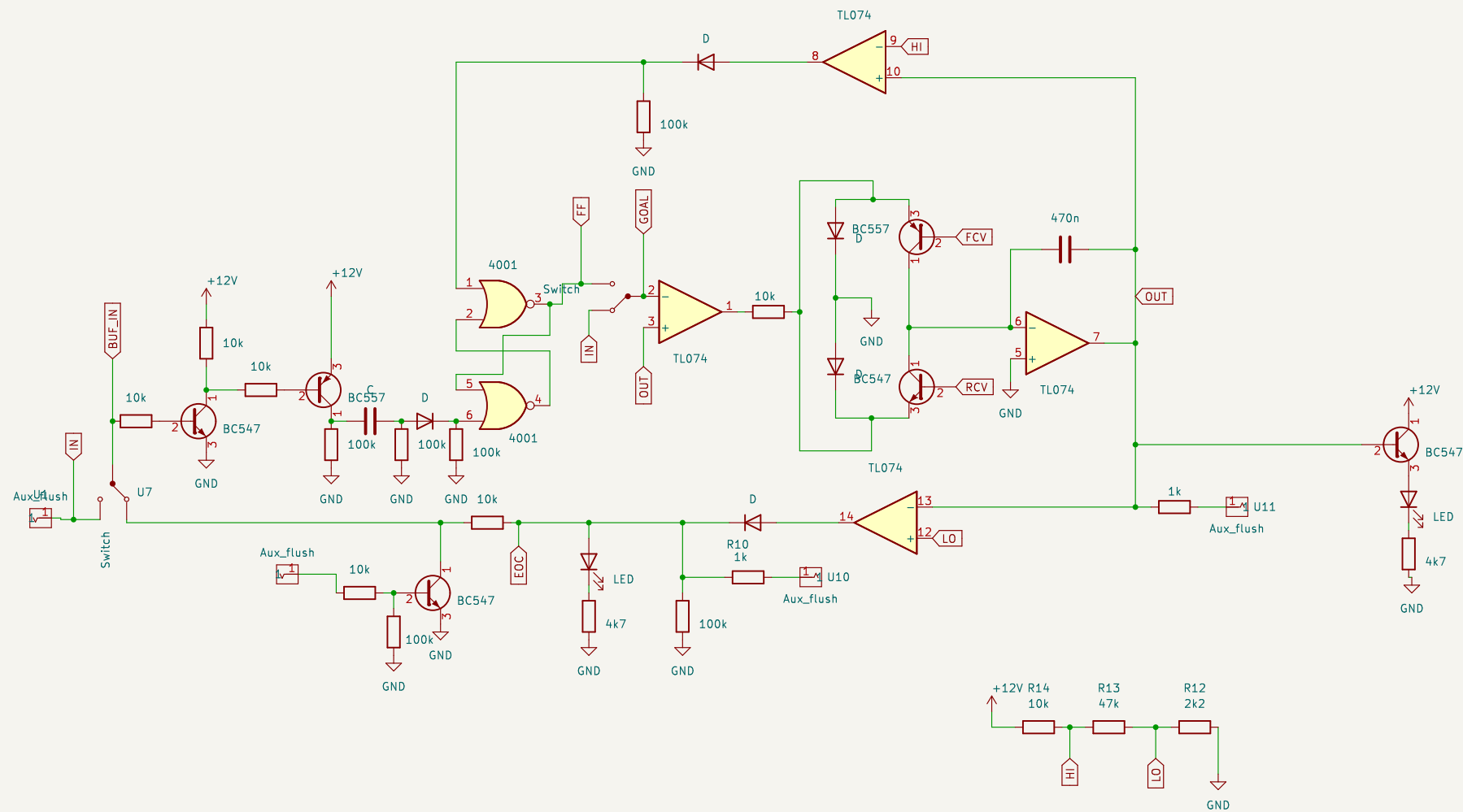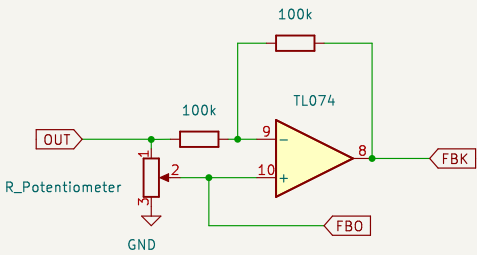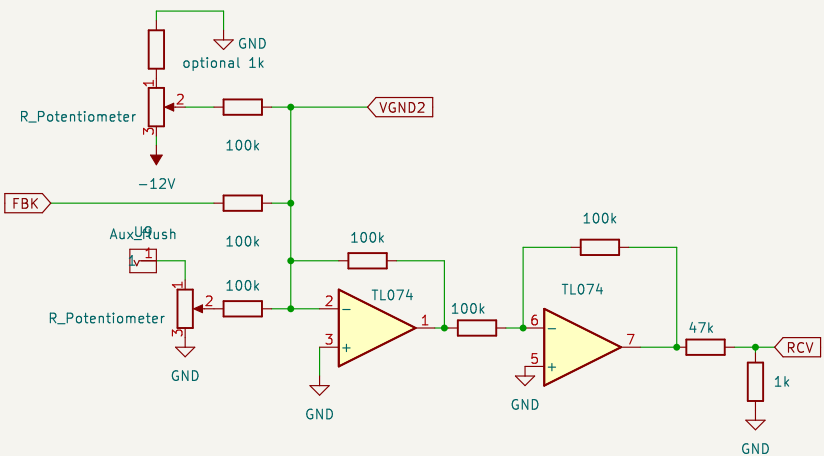# Integrator and controls

Feedback attenuverter

CV Summing and scaling Rise (Attack)

CV Summing and scaling Fall (Release)

TL074

100k
GND

D
HI
8
9
10
TL074

4001
1
2
3
Switch
Switch
FF
GOAL
IN
OUT

2
3
1
10k
TL074

BC557
D
FCV
1
2
3

470n

OUT

BC547
RCV
1
2
3
GND

6
5
7
TL074
GND

TL074

+12V
10k
10k
BC547
1
2
3
GND

+12V
BC557
C
100k
D
5
4
6
4001
100k
100k

GND
GND
GND
10k

EOC

D
R10
1k
14
12
13
LO
TL074

1k
U11
Aux_flush

+12V
BC547
1
2
3
LED
4k7
GND

BUF_IN
IN
Aux flush
U4
Switch

Aux_flush
10k
BC547
1
2
3
100k
GND

Aux_flush
10k
100k
GND

LED
4k7
GND

100k
GND

100k
U10
Aux_flush

+12V R14
10k
R13
47k
R12
2k2
HI
LO
GND

R_Potentiometer
100k
OUT
100k
9
10
8
TL074
FBK
2
GND
FBO

GND optional 1k
R_Potentiometer
2
VGND2
100k
-12V
FBK
100k
Aux flush
U8
R_Potentiometer
100k
100k
2
3
1
TL074
GND
100k
6
5
7
TL074
100k
GND
47k
RCV
1k
GND

GND optional 1k
R_Potentiometer
2
VGND1
100k
-12V
FBK
100k
Aux flush
U9
R_Potentiometer
100k
100k
2
3
TL074
GND
100k
13
12
14
47k
FCV
1k
GND
GND

-12V
+12V
OUT
BUF_IN
EOC
FF
GOAL
VGND1
VGND2
FBO
1
2
3
4
5
6
7
8
9
10
11
GND
J2
Conn_01x11_Pin
J3
Conn_01x11_Pin

U3D
4001
12
13
11

U3C
4001
8
9
10

+12V
VDD
14
4001
U3E
VSS
7
GND

+12V
V+
4
U5E
TL074
V-
11
-12V

+12V
V+
4
U6E
TL074
V-
11
-12V

J1
Conn_01x06_Pin
+12V
1
2
3
4
5
6
GND
-12V

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Title: VCAR by github.com/Fihdi
Size: A3   Date:
KiCad E.D.A. kicad 7.0.9   Id: 1/1
Rev: