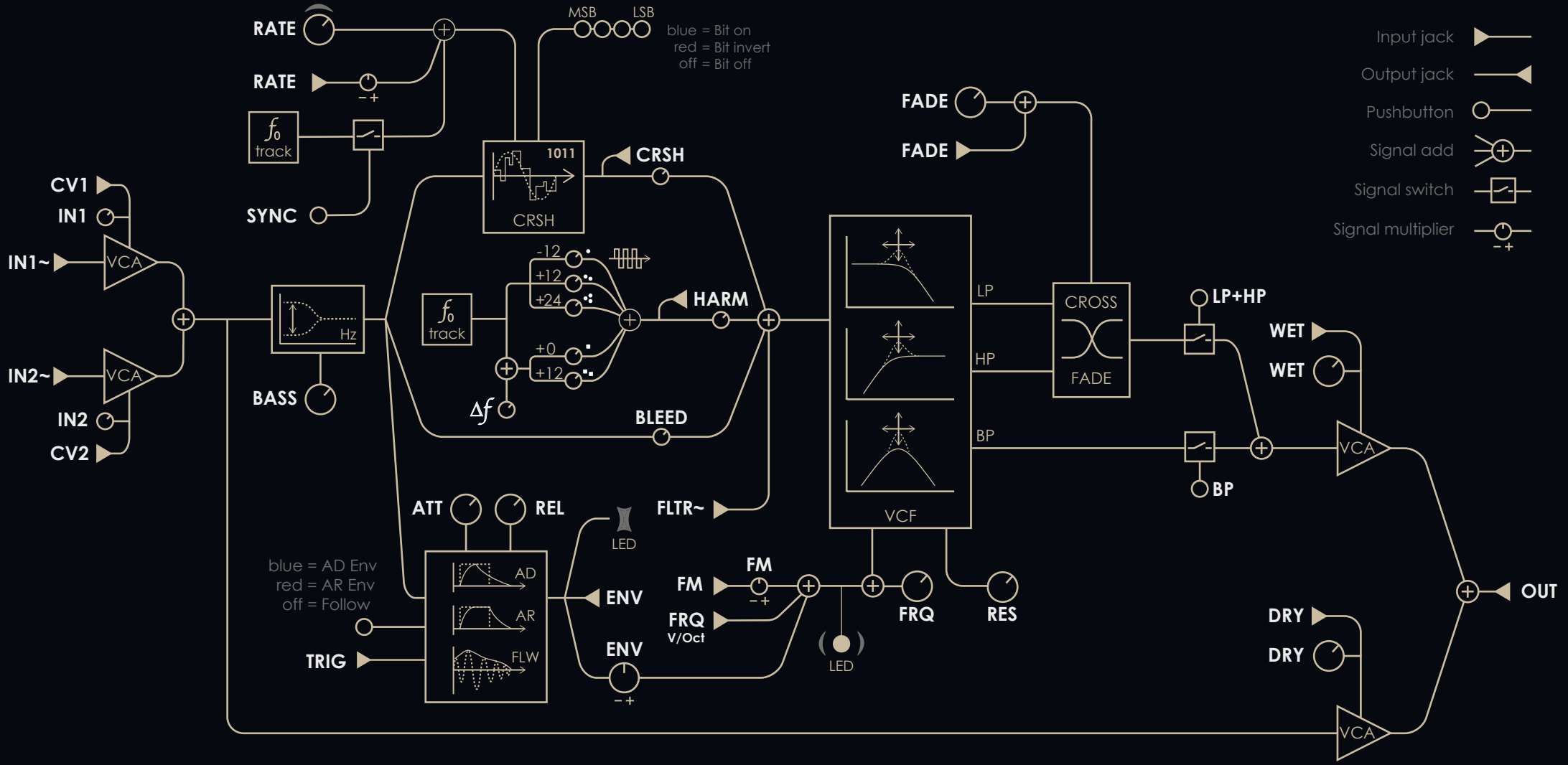
neuzeit
INSTRUMENTS


RATE
RATE
SYNC
MSB
LSB
blue = Bit on
red = Bit invert
off = Bit off
CRSH
CRSH
FADE
FADE
Input jack
Output jack
Pushbutton
Signal add
Signal switch
Signal multiplier
CV1
IN1
IN1~
IN2~
IN2
CV2
VCA
VCA
Hz
BASS
-12
+12
+24
+0
+12
HARM
BLEED
Δf
LP
HP
BP
VCF
CROSS
FADE
LP+HP
BP
WET
WET
VCA
ATT
REL
LED
FLTR~
blue = AD Env
red = AR Env
off = Follow
AD
AR
FLW
TRIG
ENV
ENV
FM
FM
FRQ
V/Oct
LED
FRQ
RES
DRY
DRY
VCA
OUT

# Second user layer

Enable alternative functions, access via longpress of SYNC button


CRSH operates with
blue: 12 Bits
red: 8 Bits

CRSH buttons MSB LSB affect
blue: Bits 1, 2, 3, 4
red: Bits 2, 3, 4+5, 6+7+8

HARM and oscillators create
blue: Pulse waves with 50% duty cycle
red: Noise output with different probability distribution

HARM ▪ and ▪▪ pulsewave oscillators are
blue: Free running, frequency follows $f_0$ with $\Delta f$ offset
red: Hard-synced to thru-zero, frequency follows $f_0$ with $\Delta f$ offset
off: Free running, frequency is static, set by $\Delta f$

AD Env
AR Env
Follow

ENV operates in
blue: Classic one-shot mode, started by TRIG rising edge
red: AD: In LFO mode, retrigger by TRIG rising edge
AR: In LFO-mode, active while TRIG is high


In Longpress mode: LED indicates input clipping of CRSH
Clipping means, that all bits are used

Otherwise: LED brightness corresponds to RATE