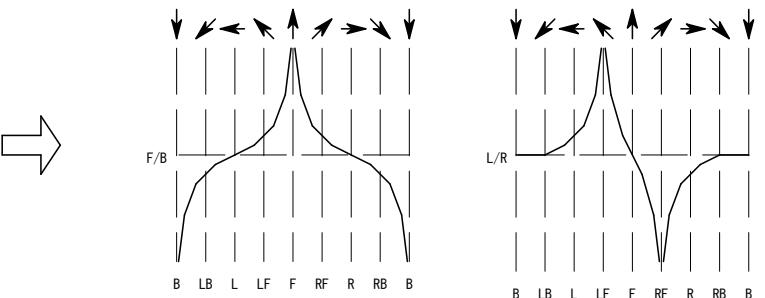


Is a critical problem

-> if $V_{R1} = \infty$
 if $A \neq 0V$ or $B \neq 0V$
 log is become extreme value $\pm V_{cc}(\infty)$.



SEE NEXT PAGE

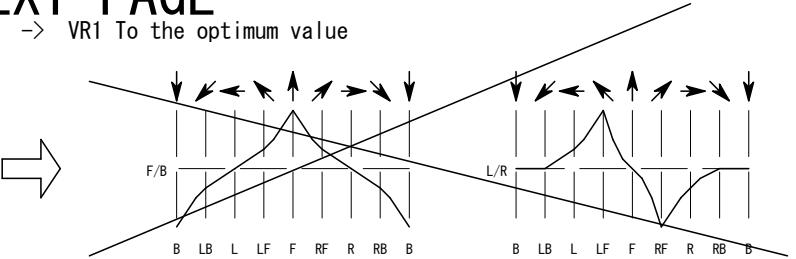
→ VR1 To the optimum value

Z : small noize

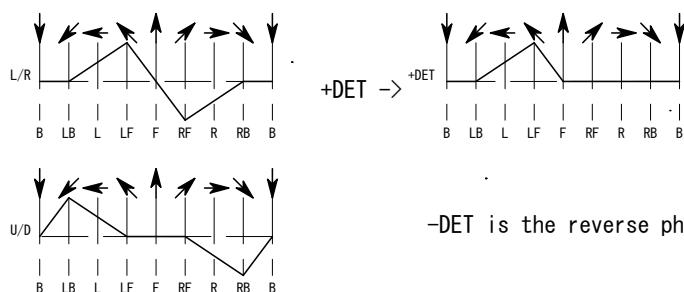
if $A \neq 0V$ and $B \neq 0V$

log is become Indefinite (unstable)

→ Z optimum value, VR2 optimum Balance,
to log is become OV (stable)

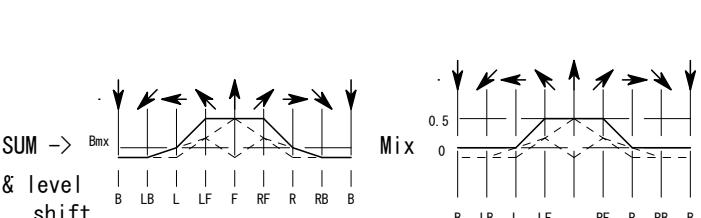
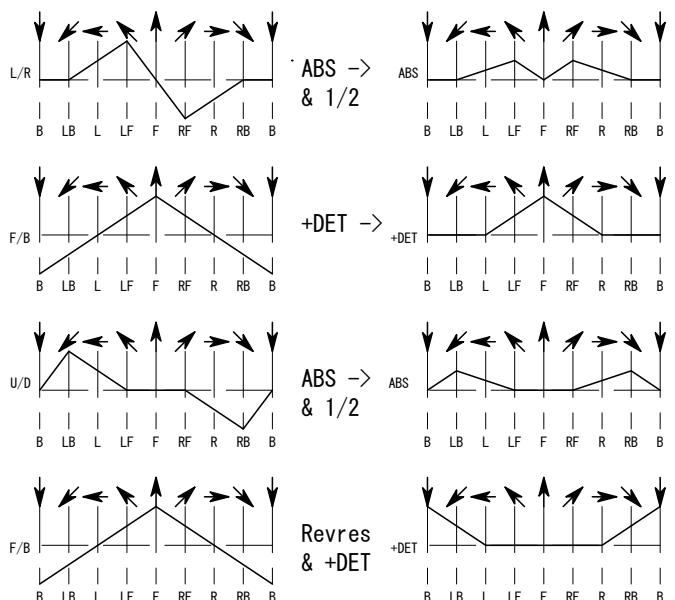


how do you scale the output of DET to control the phase shifting ($0\sim90^\circ$)?



-DET is the reverse phase. In addition, the same U/D.

how do you scale (0~0.5) the MIX?



In addition, the same Fmx.

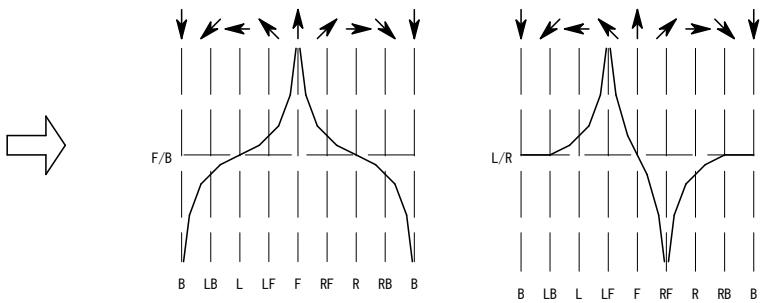
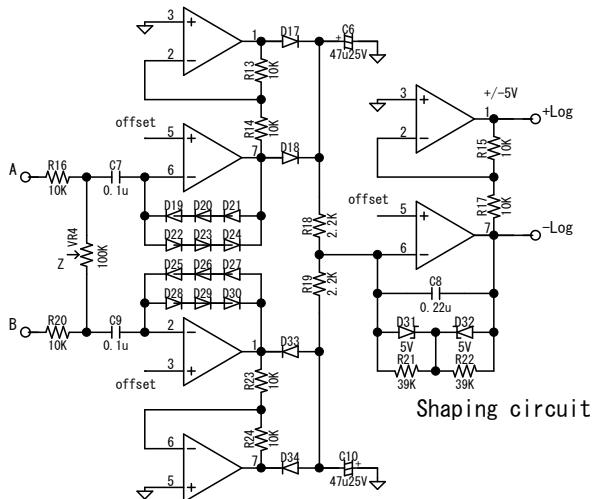
Supplemental

Actually, In fact, because it is asymmetrical, will not be able to detect it correctly.

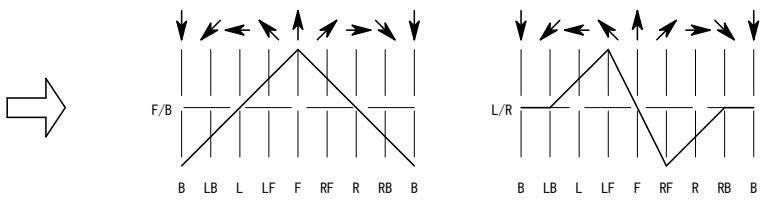
Is a critical problem

if $A=0V$ and $\pm B \gg 0$ or $B=0V$ and $\pm A \gg 0$
 log is become extreme value $\pm V_{cc}(\infty)$.

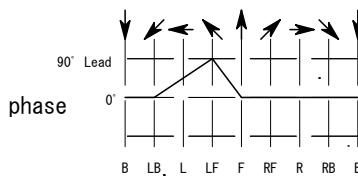
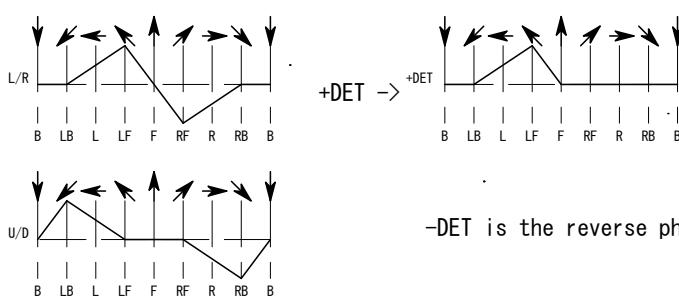
→ if Shaping circuit not exist



→ if Shaping circuit exist

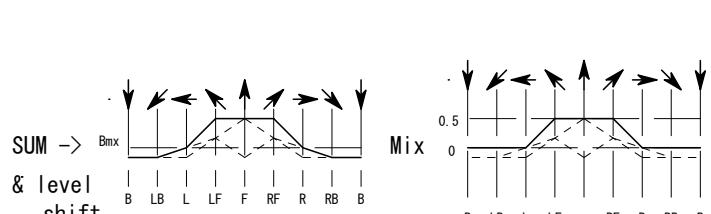
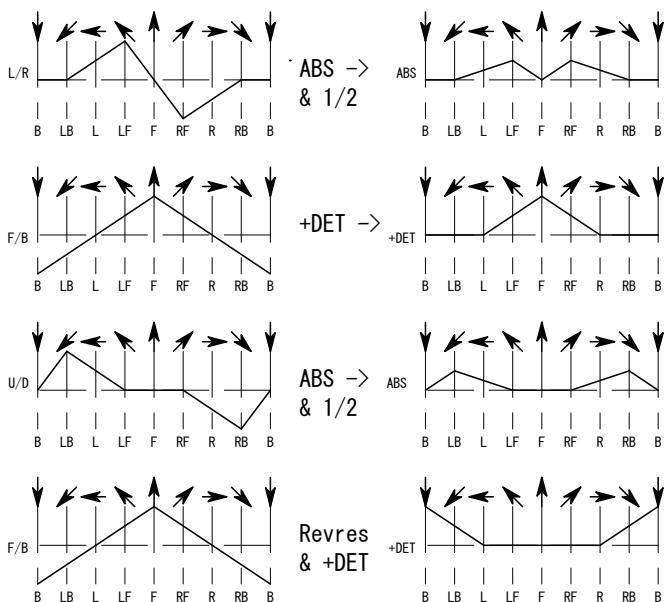


how do you scale the output of DET to control the phase shifting ($0 \sim 90^\circ$)?



-DET is the reverse phase. In addition, the same U/D.

how do you scale ($0 \sim 0.5$) the MIX?



In addition, the same Fmx.

Supplemental

Actually, In fact, because SQ system itself is asymmetrical, will not be able to detect it correctly.