

Bad Buffer Distortion - JR 22/23

A simplified distortion only version of Bad Buffer

Notes

Based on AC-Coupled Single-Supply Inverting Amplifier using a dual op-amp

Gain, distortion level is set by the ratio between the input resistor (R1) and the feedback resistor (VR1): e.g., $100/10 = 10\times$ gain

VR1 try 1M for more extreme gain!

R1 and R2 values should be matched to keep the input at unity gain (lowest possible ratio between input and feedback resistor 1/1)

C1 ac-coupling (0.1 uF bright; 10 uF more bass)

Virtual Ground (VG) - R4 and R5 create a voltage divider for the creation of a VG

The 'spare' op-amp is used as a buffer to provide greater stability for the VG

R6 (1k) is optional and is only needed with heavy capacitive loads

Bad Buffer Distortion JR 23

