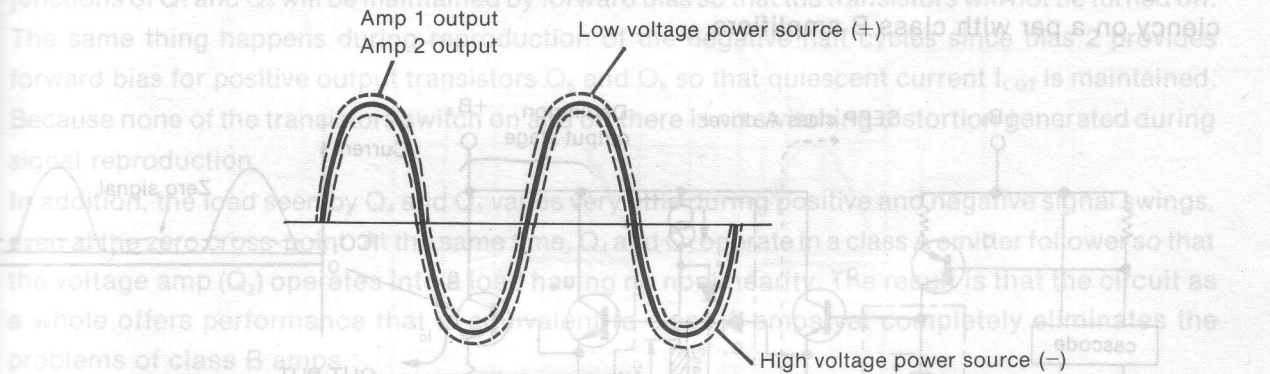
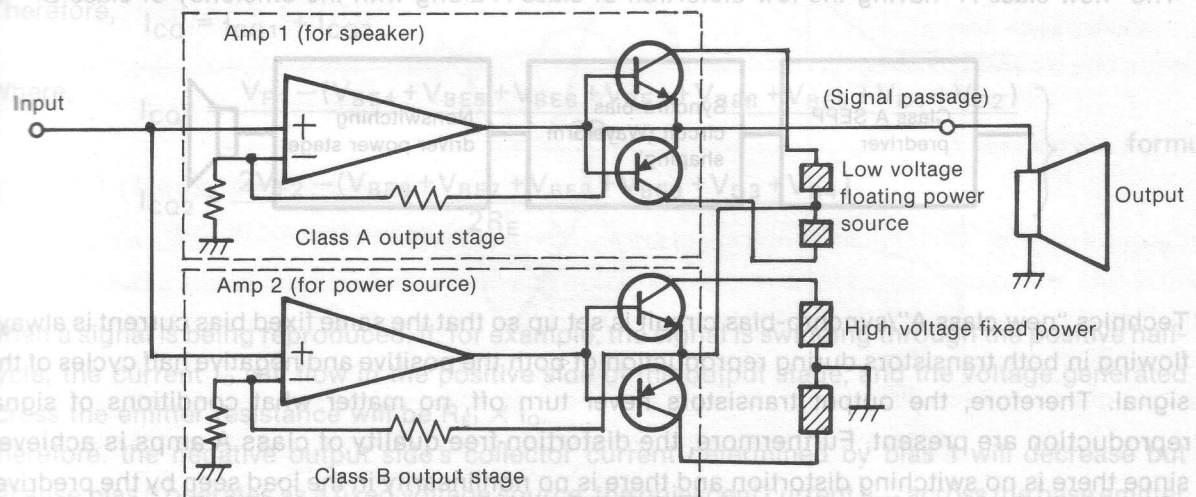


15-3. Class A +



[Fig. 15-24]

● Class A+ amplification

It is the minimum requirement for class A operation to allow idling current of at least 1/2 of the peak current at the maximum output and to use only the linear range of the output amplifying element. Therefore, to reduce the heat generation while satisfying these requirements, the supply voltage must be lowered.

However, simply lowering the supply voltage is not sufficient since the output transistor is saturated on to allow power generation. To prevent this saturation, the collector-emitter voltage of the transistor is kept constant by making the power source floating at the central point and by driving the central point with the second amp.

This is the class A+ system. This system, based on class A operation, has excellent features which cannot be achieved with conventional class A amps, with respect to efficiency and performance.