

Deep Blue (technical specifications)

Deep Blue is an advanced modular sound generation apparatus. Sources of error from the human operator are minimized through the use of signal purification devices.

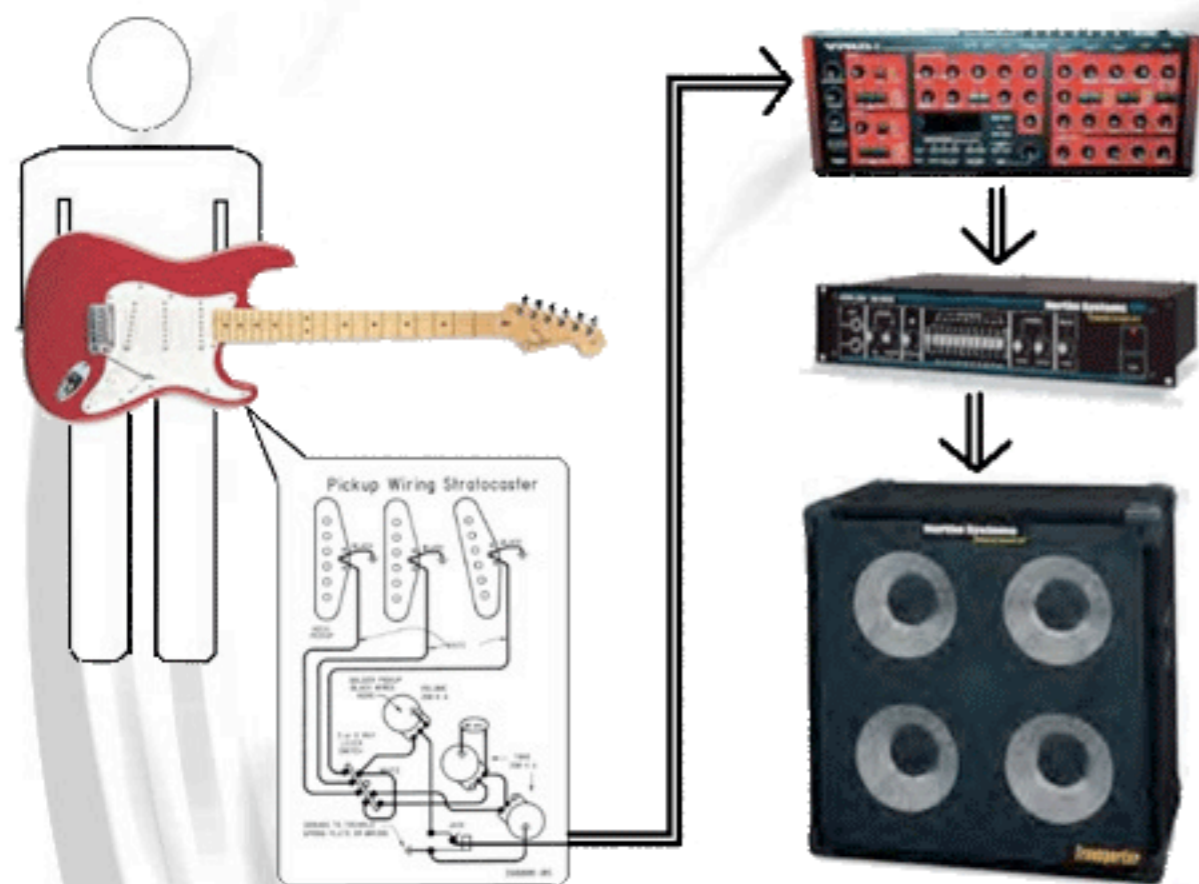


Fig. 1 : a helpful diagram

Requirements:

The device requires a source of 120V(rms) / 60Hz alternating current with a maximum power handling capacity of 320W. Under 1 cubic meter of space is required for operation. The modular design affords many advantages including easy adjustment and replacement of the independent modules. The device is highly portable and can be transported by automobile. Specially designed wheels allow rapid transport of the assembly and prevent unwanted floor resonance at low frequencies. Assembly and dismantling can be accomplished in 90 seconds.

A) Automatic accompaniment is provided to minimize errors accumulated by the performer(s). A pseudorandom sample-and-hold number generator successfully simulates and improves upon naturally occurring group variations of ensemble performers, thereby improving efficiency.

B) Reinforcement of signal is performed by a high-powered amplification device capable of output exceeding 350W/4ohm under optimum conditions. User assumes responsibility for impedance matching.

C) The process is capable of producing high intensity output through cost-effective alloy magnetic technology. Care should be taken not to exceed the natural limitations of the audience through improper power adjustment in the lowest frequency components. Output can be adjusted to provide sound pressure levels from 0 to over 100 dB relative to the threshold of perception.

D) The internal circuitry of the control unit is highly simplistic, as demonstrated in the schematic diagram.

Operation:

A detachable control unit is used to interface the operator with the process. The control unit is inexpensive and easily obtained at local audio hardware retailers, making replacement easy in the event of accident or misuse by the operator. To avoid malfunction, the operator may be removed from the process at certain times.