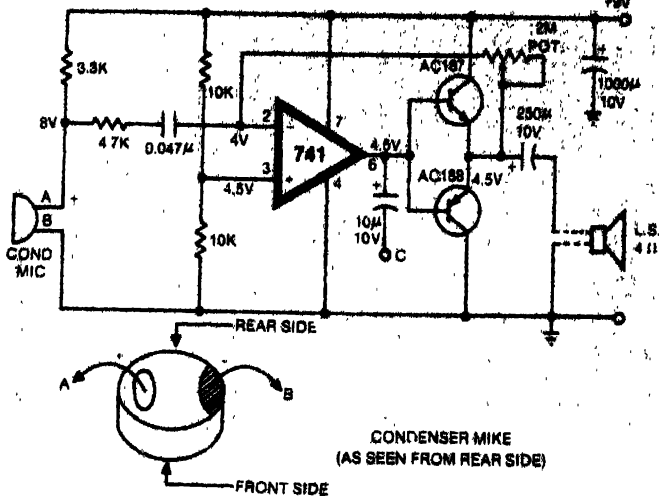


Listening Bug

It is a simple, inexpensive and hi-fi device for listening to the conversation going on in an adjoining room or for the parents wishing to keep a strict vigil on the activities of their children through the sounds in childrens' rooms. It is one evening project for an experimenter.

The sound signals (even at a distance of 5 metres from the mike) are picked up by the condenser microphone, and converted into electrical variations which are amplified by the op-amp IC 741 used in the inverting mode with a single supply using divider network of resistors. The gain of IC 741 can be set by varying the feedback through 2.2M pot.

The output of IC 741 is further amplified by the push-pull amplifier using transistors AC187/AC188 pair. A shielded wire should be used to suppress hum for carrying the output signal from the output of the amplifier to speaker fitted in



the other room. Alternatively, from point C onwards, the amplifier can be dispensed with by feeding the output of the IC 741 to the pick-up point of an ordinary transistor radio.

The condenser microphone may be housed in a proper enclosure to increase its sensitivity.

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