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A mechanical resonance frequency of vibration section 13 of an electro-acoustic transducer having vibrating function is measured during assembly process and is compared with a predetermined mechanical resonance frequency. Based on a difference obtained by the comparison, one of an weight of weight 14 to be attached and a position for fixing the vibration section to frame 16 is determined. In accordance with the determination, the weight 14 for resonance frequency adjustment is attached to vibration section 13, or suspension 12 and frame 16 which have been provisionally fixed are fixed again. Thus the predetermined mechanical resonance frequency f_0 can be obtained steadily. As a result, the rectro-acoustic transducers having vibrating function with stabilized mechanical resonance frequency of the vibration section 13 can be produced.