



Figure 1 In this rechargeable electric toothbrush, no conductive contact occurs between the toothbrush holder and the charging unit. Energy transfer takes place through inductive coupling (a). This cutaway of the encapsulated base shows the primary winding of the transformer, with a ferrous rod pushing into the key that the toothbrush unit fits onto. Precise alignment is necessary to maximize the coupling between the two windings (b).

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