

Automatic Antenna Retract

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This circuit was designed to retract automatically a motorised car antenna every time the ignition is turned off. With ignition on, relays A and B are energised (total current drain about 100 mA). When the ignition is turned off, relay A is turned off and 12V from the battery drives the antenna down and charges C1 via R3. With the values shown for C1 and R3, after about a three second delay relay C is energised and interrupts supply voltage to relay B, removing supply voltage from the circuit. This circuit suits the two-wire control motorised antennas commonly available. The values of R2 and R3 may need to be adjusted to suit different motors as the retraction time varies.

