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- 0.5" high efficiency LED display

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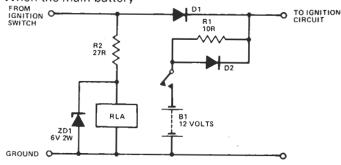
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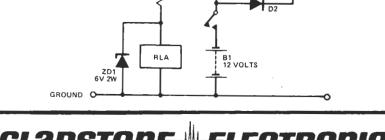
Cold Start Ignition

M. C. Polgreen

The heart of the circuit is a small auxiliary battery with a capacity of one or two amp hours. If a nickel cadmium battery is used then R1 should be increased in value so that the maximum trickle charge current is not exceeded. R2, ZD1, and RLA connect B1 into circuit when the ignition is switched on, thereby reducing the amount of additional wiring. Any small 6 volt relay with a contact rating of 5 amps will do, and ZD1, R2 ensure that the relay will remain energised when the starter motor causes the main battery voltage to drop. When the main battery

voltage falls, D1 becomes reverse biased and D2 forward biased, therefore allowing B1 to supply current to the ignition circuit. When the engine is running, the main battery voltage rises, forward biases D1 and reverse biases D2. Therefore the ignition current comes from the main battery, and B1 is trickle charged via R1. The two diodes D1, D2 should be rated at 50 V, 10 A.







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