

AUTOMOTIVE CIRCUIT BETWEEN ECU AND POWERTRAIN COMPONENT

5 ABSTRACT OF THE DISCLOSURE

A power control arrangement for providing power from a vehicle battery to an automotive powertrain component/apparatus input under control of a controller, comprising: a controller having, a first output line) connected to an automotive component/apparatus input via a first resistor (R2), where said automotive component/apparatus input terminal is connected to also a second resistor (R1), connect to both the vehicle battery and controller via an intermediate switching circuit; and a second output line connected to said automotive component/apparatus via said intermediate switching circuit, wherein said intermediate switching circuit comprises first (Q1) and second (Q2) transistors, wherein the second output line of the controller is connected to the base of said second transistor (Q2); the emitter terminal of second transistor is connected to earth, and the collector terminal is connected to the base terminal of first transistor (Q1) and where the emitter of first transistor (Q1) is connected to said battery and the collector of first transistor (Q1) is connected to the end of resistor R1.

Figure 4