The car battery indicator displays the condition of the battery with the help of three LED's, the red LED indicate that the battery is nearly discharged, and less than 10 Volts. The yellow LED indicate that the battery voltage is normal, that is between 10V and 12V. The green LED indicate the voltage above 12V when the battery is being charged.

COMPONENTS

RESISTORS
R1. 1k ohm Brown Black Red
R2. 470 ohm Yellow Violet Brown
R3. 470 ohm Yellow Violet Brown
R4. 470 ohm Yellow Violet Brown
R5. 8k2 ohm Grey Red Red
R6. 8k2 ohm Grey Red Red

SEMIConDUCTORS
Q1 & Q2 BC 238
D1 & D2 IN4001 or IN4007
LED 1 RED LED
LED 2 YELLOW LED
LED 3 GREEN LED

PRINTED CIRCUIT BOARD

ZENER DIODES
Z1. 3.9VOLT 400mW
Z2. 9.1VOLT 400mW
Z3. 12 VOLT 400mW