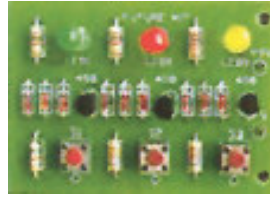
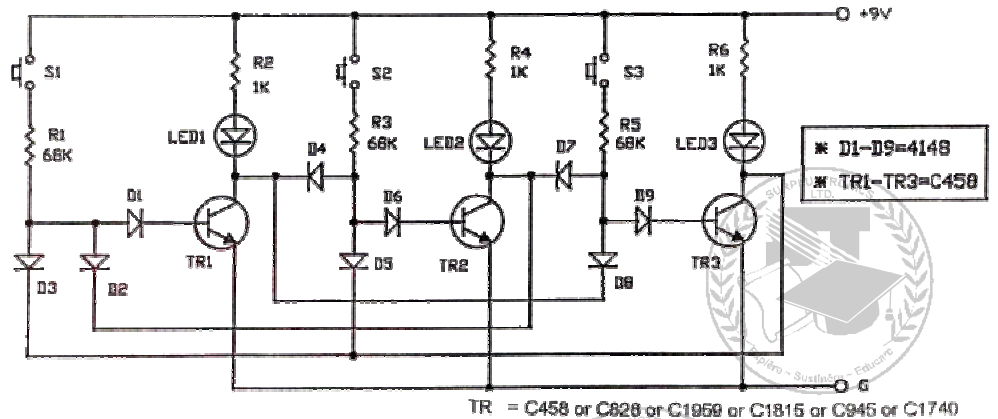


# FK137 GAME SHOW CIRCUIT

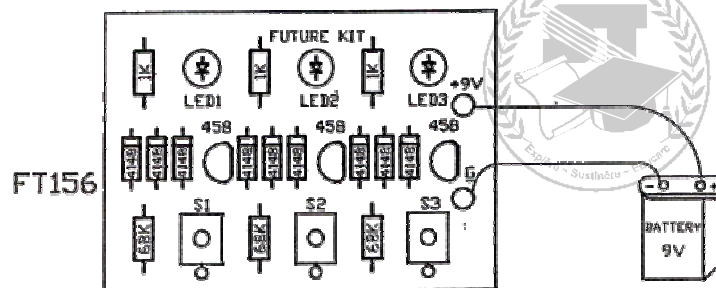
The priority testing game circuit. It is the electronic circuit applied for decision making e.g. game shows TV where the first player who presses the switch has the right to answer. The LED shows which player pressed their button. Any other players pressing the switch after them will be ignored. This circuit is applied for only 2-3' Players only.



As shown in the diagram, S1, S2 and S3 are for the 3 players. If player 1 presses their switch, the current will transfer from Resistor 1 through Diode 1 to leg B of Transistor TR1, Leg C and E closed and voltage goes to ground, completing the circuit for LED 1 which will light.



LED 2 and LED 3 do not light when player 2 or 3 switch is pressed because the current will revert to leg C of TR1 because it is already closed. TR2 and 3 cannot close a circuit and therefore LED's 2 and 3 can't light.



The LED stays on until the circuit is reset with an optional NC switch on the Battery positive lead. There is no way that all LED will start at the same time except the circuit is damaged.

The circuit can be modified by replacing the TACT or PCB switches for wires extended to momentary push button switches.

In the assembly of this kit, like most others in the "Future Kit" range, it is best to start by first checking that you have all the components. The attaching them in order of their height from the board. I.e. resistors first and so on. The last items that should be attached however should always be any semiconductors including transistors. This avoids unnecessary heat on sensitive components. The PCB or 'printed circuit board' will be marked already for the components. If polarity is essential then this is marked also. Values of components marked are brief and because of the translation are sometimes incorrect, therefore it is best to double check before placing.

## Component list:

- R1,3 & 5** 68k ohm (68,000 ohm)
- R2,4 & 6** 1k ohm (1,000 ohm)
- D1 – 9** 4148 signal diodes
- S1 – 3** SPST momentary TACT switch
- TR1, 2 & 3** C945 (marked 458)
- LED1 – 3** 5mm Red ,Green and yellow standard.

Suits age 13+