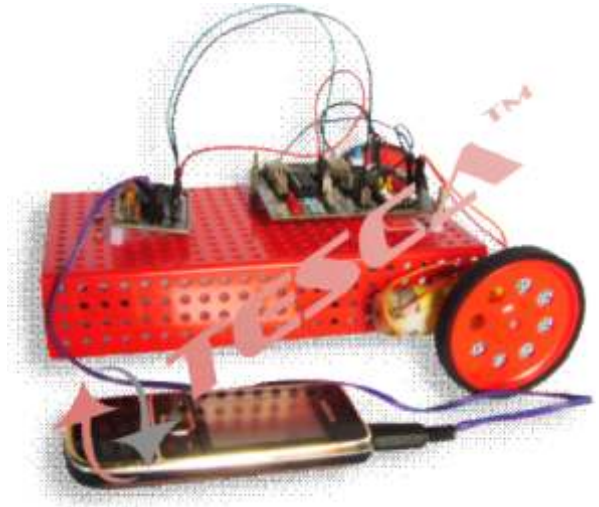


Most popular robot for beginners, the Line followers is now available with the legacy of 8051 and choice of Serial or USB programming.

The controlling part of kit is based around 8051 microcontroller, equipped with motor drivers and ISP facility to program it on board.



#### Features of mechanical assembly:

- Laser cut chassis
- Aluminum brackets
- 150 Rpm BO motors
- Special slots for Line sensors

#### Features of Robot Controller and Modules:

- 8051 Core NXP P89V51RD2 (For serial version)
- 8051 core AT89S52 (For USB version)
- On-board motor drivers, for driving 2 DC motors or 1 stepper motors
- On board level converter for serial communication
- On board power regulator
- Terminal block for easy connection of motors
- Protection against noise and back EMF
- Protection against wrong polarity wiring of battery/power supply
- On-board LEDs for debugging and testing
- On-board preset for sensor adjustments

#### Prerequisites:

- Working Knowledge of C.
  - Syntax and semantics
  - loops and conditions
  - Functions

Note: Specifications are subject to change.

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#### Package Includes:

- Microcontroller: NXP 89V51RD2 or AT89S51
- Pack of essential electronic components and ICs
- Controller PCB:1
- Aluminum parts; 1 set
- 150 rpm, 12VDC Geared Motors :2
- Plastic wheels:2
- Castor Wheels
- IR sensor
- DTMF decoder
- Line Sensor
- Battery: 8.2 Volts, 750mAh
- Battery charger: 1
- Pack of Nuts and Bolts:1
- Programming Cable

#### Experiments:

- Obstacle Avoiding robot
- Edge Avoiding Robot
- Line Following Robot
- Light Activated Robot
- Cell Phone Controlled Robot
- Computer Controlled Robot