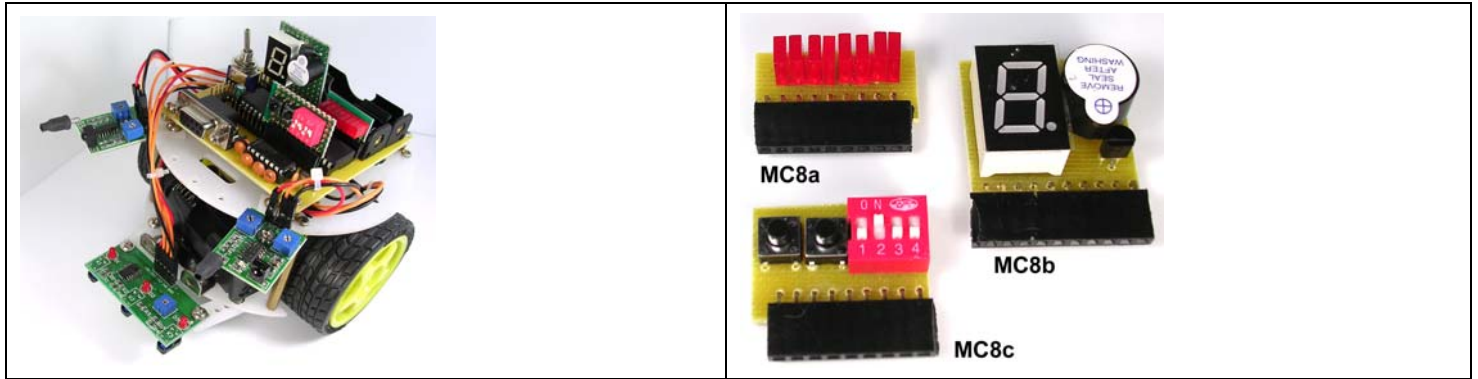


51 Robot Car Parts Price List (51 輪式機器人部件定價單)

(Price include Icon Base Program)

The robot car is available in the following forms:

- 1) Kit – All mechanical parts and electronic components are supplied in loose form. All electronic and mechanical modules are individual packed with detail instruction sheet. (Electronic and mechanical assembled skill and electronic and mechanical knowledge are required. Tools required: soldering iron, soldering wire, screw drivers, nipper and cutter)
- 2) Semi Assembled Kit – All electronic components are soldered on the PCB (Printed Circuit Board) modules, you have to assemble the mechanical parts of the car and mounting PCBs on the car.
- 3) Assembled – All parts are assembled and mounted on the car.



Packing List (部件單) :

CB1	Car Base and Car Accessories (小車車身及附件)		1 set	\$85.00	\$85.00
MC8	C51 Control Board (C51 電路板及電子元件)		1 set	\$220.00	\$220.00
SM2	IR Obstacle Avoidance (Yellow Board) (紅外避障傳感器(黃板))		2 pcs	\$28.00	\$56.00
SM3	IR Tracking Board (3 Sensors) 黑線檢測模塊(3 路)		1 pcs	\$30.00	\$30.00
MC7	L298N H bridge type motor driver with TLP521-4 photocoupler (L298N H 橋式電機驅動模塊配 TLP521-4 光電耦合)		1 pcs	\$45.00	\$45.00
BH4	Battery holder with DC Plug(電池盒) Back to back 4xAA size battery		1 pcs	\$3.50	\$3.50
OT1	USB-RS232 Cable (USB 轉 RS232 串口線)		1 set	\$22.00	\$22.00

MC8a	8 LED module (8 LED 模組)		1 set	\$20.00	\$20.00	
MC8b	7 segment and buzzer module (7 劃顯示管及蜂鳴器模塊)		1 set	\$22.00	\$22.00	
MC8c	2 push button switches and 4 pins dip switch module (2 輕觸開關及 4 位元雙列開關)		1 set	\$22.00	\$22.00	
FC1	(I) - Dupon Wire 100mm (杜邦線)	Red x2 Blk x2 Orange x2	6	\$0.50	\$3.00	
FC2	(I) - Dupon Wire 150mm (杜邦線)	Blk x1 Red x1 Orange x3	5	\$0.60	\$3.00	
FC3	(I) - Dupon Wire 200mm (杜邦線)			\$0.80		
FC4	(H) - Plastic Connecting Rod L30mm Open Ends with 3 Holes(塑膠加工連接件)		4	\$1.00	\$4.00	
FC5	(c) - Dia 3mm Large Head Bolt(大頭螺絲)(10mm)		14	\$0.15	\$2.10	
FC6	Dia 3mm Bolt螺絲(10mm)		4	\$0.10	\$0.40	
FC7	(D) - Dia 3mm Bolt螺絲(5mm)		8	\$0.10	\$0.80	
FC8	(F) - 3mm Nut 螺母		18	\$0.05	\$0.90	
FC9	(B)- Dia3mm L5mm Hexagonal Copper Connecting Rod(直徑 3mm 長 5mm 六角形銅柱)		4	\$0.45	\$1.80	
FC10	(A) - Angle Mount 角碼		4	\$0.50	\$2.00	
FC11	(G)- L60mm Plastic Tighten Belt(尼龍紮帶)		10	\$0.05	\$0.50	
OT3	Assembly fee(加工費)				\$80.00	\$80.00
					Total:	\$624.00

The programming techniques can be divided in the following levels:

- 1) Level 1 - Use the C51 flow code program developed by our company to program the motion of the car to avoid the obstacles or follow the guided track.
- 2) Level 2 – Use the C51 flow code program developed by our company to program the flashing pattern of 8 LED module (MC8a) , the display and the sound pattern of the 7 segments display and buzzer module (MC8b), and the interaction and responses of the 2 push button switches and 4 pins dip switch module (MC8c).
- 3) Level 3 – Use the process embedded in the C51 flow code program developed by our company to input the simple C commands to extend the motion of the car and control of the modules.
- 4) Level 4 – The robot car can be used as the experiment or development board. User writes the program in C language or BASIC language in the BASCOM environment. The I/O pins of the 89S51 chip can be fully used. The interactive I/O control can be achieved by using the sensors (sensing device) and the actuators (output reactor).

More features and functions of C51 flow code program are still under development, such as the software and hardware of the characters/graphics display modules and A/D and D/A conversion modules.

Dimensions:

Car overall size: diameter 120mm, height 75mm.

Wheel diameter /thickness: 65mm/25mm

Plastic plate thickness/separation: 3mm/50mm

Weight: approx700g (without battery)