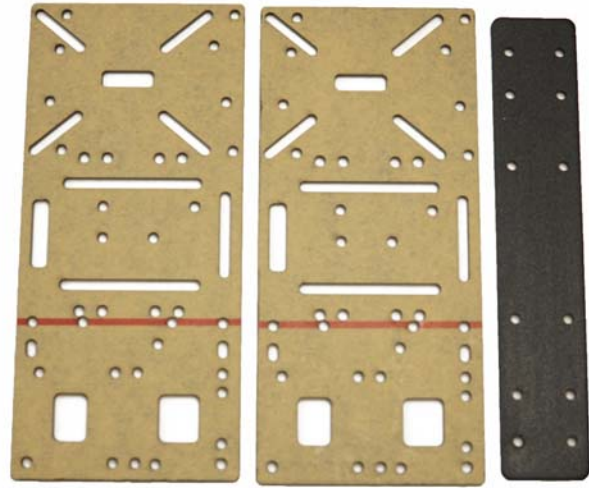


## Two Wheels Balance Car Chassis with JGA25 Motor Kit

SKU 110090264

The kit uses JGA25 DC geared motors and optical encoders for higher motor control accuracy and double-layer acrylic plates for easy placement of sensors and development boards.

With this kit, you can DIY assemble the balance car, mini Segway, select the right sensor and development board, and maintain the balance of the body by controlling the rotation of the motor. In this process, you can learn the PID algorithm and learn how to control the motor. Of course, you must first have a balanced car chassis and assemble it.



## The Motor parameters:

### Encoders Magnetic Series

# Magnetic Encoders

## Two Channel Optical Encoder



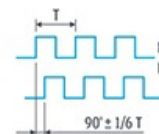
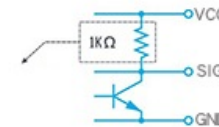
#### Two Channel Encoder Connections

1. Black: -Motor
2. Red :+Motor
3. Green:Hall Sensor GND
4. Blue :Hall Sensor VCC
5. Yellow:Hall Sensor A OUT
6. White:Hall Sensor B OUT



### Electrical Characteristics

Characteristics	Symbol	Test conditions	Min.	Ref.	Max.	Units	
Supply voltage	Vcc	--	2.7	-	5.5	V	Output circuit
Output saturation voltage	Vce (sat)	Vcc = 14V ; IC = 20mA	-	300	700	mV	
Output leakage current	Icex	Vcc = 14V ; Vce = 14V	-	< 0.1	10	μA	
Supply current	Ice	Vcc = 20V Output open	-	5	10	mA	Output wave
Output rise time	tr	Vcc = 14V ; RL = 820 Ω ; CL = 20pF	-	0.3	1.5	μs	
Output fall time	tr	Vcc = 14V ; RL = 820 Ω ; CL = 20pF	-	0.3	1.5	μs	



- 20%~85%RH  
Operating relative humidity
- -10°C~+60°C  
Operating temperature range

## Part List

- 1 x Car chassis (metal)
- 2 x Car extension chassis (acrylic)
- 2 x JGA25 motor
- 2 x 17-4MM Coupling
- 2 x Motor bracket (metal)
- 2 x 72MM wheel
- 4 x 12 MM copper column
- 4 x 30 MM copper column

**ECCN/HTS**

ECCN	ERA99
HSCODE	9023009000
USHSCODE	90230000
UPC	



