Main Robe Chassis	Description	Amount Cost	Total	Supplier	Order Code	Comment
A4 phywood 3mm 1 8 3,4900 E 3,4900 Esy 25056858061 Preferred to acrylic: Does not break as easily as acrylic which is very brittle 30mm M3 screw 4 6 0.300 6 1,650 ebay 221265568237 Pock of 5 M3 nut 1 6 0.000 6 0.600 Rapid Electronics 33-110 Pock of 100 Cegared motor 2 6 1.000 6 0.600 Rapid Electronics 37-1217 25mm rubber wheel 3 6 0.8100 6 1,300 6 3,400 Rapid Electronics 37-1210 Pock of 100 6xAA battery holder 1 6 1,000 6 1,000 ebay 212148057634 Both Together Addruit motor shield 1 6 0.328 6 2,5600 ebay 212148057634 Both Together Aderiut motor shield 1 6 0.038 6 1,500 ebay 212162768987 The price is for a cheap Chinese clone. Genuine ones are £25 Aduin 1 6 0.000	Main Robot Chassis		£ 25.440	4		This is including many spares. It's highly likely you already own some of these items too
20mm M3 screw 10 6 0.0158 6 1.5800 Rapid Electronics 33-2320 Pack of 100 30mm M3 screw 17 6 0.0505 6 1.6500 Bayd Electronics 33-1710 Pack of 100 DC geard motor 2 6 1.8100 6 3,6200 Rapid Electronics 37-1217 2x5mm rubber wheel 3 6 0.8500 6 3,4000 Rapid Electronics 37-1317 2x75mm steel shaft 1 6 1.7000 6 8,2000 Bayd Electronics 37-0350 Pack of 50 9 battery clip 1 6 6 0.3288 8 2,2968 Rapid Electronics 37-0350 Pack of 50 Abattery 6 6 0.3288 8 2,2968 Rapid Electronics 1,81452 Adaruti motor shield 1 6 0.0000 6 9,5000 Bayd Electronics 1,41675106854 The price is for a cheap Chinese clone. Adafruit style motor shield preferred as it allows for serves Cable tie (1=20mm W=4,6mm)	A4 acrylic 3mm	1 £ 3.100	0 £ 3.100	0 eBay	201121042564	More aesthetically pleasing
Some M3 screw	A4 plywood 3mm	1 £ 3.490	0 £ 3.490	0 eBay	252056858061	Preferred ito acrylic: Does not break as easily as acrylic which is very brittle
M3 nut 17 £ 0.805 £ 0.850 Rapid Electronics 33-1710 Pack of 100 DC geared motor 2 £ 1.8100 £ 0.8550 £ 0.8550 £ 0.8500 Rapid Electronics 37-120 Pack of 4 2x5mm tubel wheel 1 £ 0.0199 £ 0.8508 £ 0.8050 Rapid Electronics 37-320 Pack of 50 9v battery clip 1 £ 0.1090 £ 0.7000 eBay 121748057634 Both Together 6xAb battery holder 1 £ 1.5000 £ 1.5500 £ 1.5500 8 Bay 1211748057634 Both Together Addrout motor shield 1 £ 1.5500 £ 1.5500 £ 1.5500 8 Bay 121675106854 The price is for a cheap Chinese clone. Genuine ones are £25 Addruit motor shield 1 £ 0.0080 £ 0.5000 Rapid Electronics 34-1525 Bay 121675106854 The price is for a cheap Chinese clone. Adafruit style motor shield preferred as it allows for servos Cable tel (=200mm W=4.6mm) 1 £ 0.0080 £ 0.5000 Rapid Electronics 34-1528 Bark delectronics 37-1528 Black electrical tape works best Senor PCB 1 £ 0.0004 £ 0.5000 £ 0.5000 Rapid Electronics 58-2005 Inits is including	20mm M3 screw	10 £ 0.015	8 £ 1.580	0 Rapid Electronics	33-2320	Pack of 100
DC geared motor 2 6 1.810 6 3.620 3.6	30mm M3 screw	4 £ 0.330	0 £ 1.650	0 eBay	221265564237	Pack of 5
25mm rubber wheel 3	M3 nut	17 £ 0.006	5 £ 0.650	O Rapid Electronics	33-1710	Pack of 100
xx75mm steel shaft 1 f 0.0199 (1 on the color) Rapid Electronics 37-0350 Pack of 50 9v battery clip 1 f 1.7000 (2 on the color) 2 f 1.7000 (2 on the color) Rapid Electronics 121748057634 Both Together 6vAA battery holder 1 f 2.5000 (2 on the color) 2 v 2.5000 (2 on the color) Rapid Electronics 18-1452 Arduino 1 f 2.5000 (2 on the color) 2 v 2.5000 (2 on the color) 8ay (2 1802708989 The price is for a cheap Chinese clone. Adafruit style motor shield preferred as it allows for servos Addruit motor shield 1 f 2.5000 (2 on the color) 2 v 3000 (2 on the color) 8ay (2 1802708989 The price is for a cheap Chinese clone. Adafruit style motor shield preferred as it allows for servos Cable tie (L=200mm W=4.6mm) 1 f 2.5000 (2 on the color) 2 v 3000 (2 on the color) 8ay (2 on the color) 8ay (2 on the color) Adaffective of the color) 8ay (2 on the color) Adaffective of the colo	DC geared motor	2 £ 1.810	0 £ 3.620	O Rapid Electronics	37-1217	
9v battery clip 6xAA battery holder 6xA Dattery holder 6xA Dattery	25mm rubber wheel	3 £ 0.85	0 £ 3.420	0 Rapid Electronics	37-1320	Pack of 4
AA Battery holder 1	2x75mm steel shaft	1 £ 0.019	9 £ 0.993	6 Rapid Electronics	37-0350	Pack of 50
6XAB battery holder 1 2 3 5 2.5680 Rapid Electronics 18-1452 Arduino 1 £ 2.5600 £ 3.500 eBay 221802708989 The price is for a cheap Chinese clone. Genuine ones are £25 Adafruit motor shield 1 £ 0.0008 £ 0.8700 Rapid Electronics 04-0754 Pack of 100 Tape 1 £ 0.6000 £ 0.6000 Rapid Electronics 04-0754 Pack of 100 PCB 1 £ 0.6000 £ 0.5000 Rapid Electronics 04-0754 Pack of 100 PCB 1 £ 0.6000 £ 1.2132 This is including many spares. PCB 1 £ 0.5000 Chinese PCB fab If you are interested in some of these contact me, I have many left over IR LED 5 £ 0.1104 £ 0.5520 Rapid Electronics 58-2005 18 Poblications 5 £ 0.0074 £ 0.5520 Rapid Electronics 58-2005 330 Ohm resistor 5 £ 0.0074 £ 0.7416 Rapid Electronics 62-0358 Pack of 100 Male to	9v battery clip	1 f 1 700	O f 1700	Λ eBay	1217/1805763/	Roth Together
Arduino 1 f 2 5.000 6 Bay 21802708989 The price is for a cheap Chinese clone. Genuine ones are £25 Adafruit motor shield 1 f 1,9500 5 1,9500 6 Bay 14167510854 The price is for a cheap Chinese clone. Adafruit style motor shield preferred as it allows for servos Cable tie (L=20mm W=4.6mm) 1 f 1,0000 5 1 0.6000 8 Rapid Electronics 87-1552 Black electrical tape works best Sensor PCB	6xAA battery holder	1	0 1 1.700	о евау	121740037034	both together
Adafruit motor shield 1 f 1. 91.00	AA Battery	6 £ 0.382	8 £ 2.296	8 Rapid Electronics	18-1452	
Cable tie (L=200mm W=4.6mm) 1 6 0.087 E 0.8700 Rapid Electronics 04-0754 Pack of 100 Tape 1 6 0.6000 Espoit Description E 12.713 This is including many spares. PCB 1 6 6.5000 Clinese PCB fab If you are interested in some of these contact me, I have many left over IR LED 5 6 0.1104 6 0.5520 Rapid Electronics 58-2006 IR phototransistor 5 6 0.1014 6 0.5520 Rapid Electronics 58-2006 330 Ohm resistor 5 6 0.0074 6 0.7416 Rapid Electronics 58-2005 10 Kohm resistor 5 6 0.0074 6 0.7416 Rapid Electronics 62-0358 Pack of 100 10 Nohm resistor 7 6 0.0074 6 0.7416 Rapid Electronics 62-0358 Pack of 100 Male to Female jumper wire 7 6 0.0024 8 0.9300 8ay 11651703549 1400 1	Arduino	1 £ 2.560	0 £ 2.560	0 eBay	221802708989	The price is for a cheap Chinese clone. Genuine ones are £25
Tape 1 £ 0.6600 Rapid Electronics 87-1552 Black electrical tape works best Sensor PCB £ 1.713 This is including many spares. PCB 6.5000 5 6.5000 Chinese PCB fab If you are interested in some of these contact me, I have many left over IR LED 5 6.01104 6 0.5520 Rapid Electronics 58-2005 IR phototransistor 5 6.01104 6 0.5520 Rapid Electronics 58-2005 330 Ohm resistor 5 6.0074 6 0.7416 Rapid Electronics 62-0358 Pack of 100 10 Kohm resistor 5 6.0074 6 0.7416 Rapid Electronics 62-0358 Pack of 100 7 Pin 0.1" header 1 6 2.1500 EBay 400858209683 100 <	Adafruit motor shield	1 £ 1.950	0 £ 1.950	0 eBay	141675106854	The price is for a cheap Chinese clone. Adafruit style motor shield preferred as it allows for servos
Sensor PCB f 1.7132 This is including many spares. PCB 1 6.5000 f 6.5000 Chinese PCB fab If you are interested in some of these contact me, I have many left over IR LED 5 f 0.1104 f 0.5520 Rapid Electronics 58-2006 IR phototransistor 5 f 0.0104 f 0.5520 Rapid Electronics 58-2005 330 Ohm resistor 5 f 0.0074 f 0.7416 Rapid Electronics 62-0358 Pack of 100 10 Kohm resistor 5 f 0.0074 f 0.7416 Rapid Electronics 62-0358 Pack of 100 10 Kohm resistor 5 f 0.0074 f 0.7416 Rapid Electronics 62-0358 Pack of 100 Nall cable tie (L=80mm W=2.4mm) 7 f 0.0204 f 0.9900 Rapid Electronics 04-0630 Pack of 100 Servo f 7 f 0.0400 F 0.04030 Pack of 100 Servo <td>Cable tie (L=200mm W=4.6mm)</td> <td>1 £ 0.008</td> <td>7 £ 0.870</td> <td>0 Rapid Electronics</td> <td>04-0754</td> <td>Pack of 100</td>	Cable tie (L=200mm W=4.6mm)	1 £ 0.008	7 £ 0.870	0 Rapid Electronics	04-0754	Pack of 100
PCB 1 £ 6.5000 £ 6.5000 Chinese PCB fab If you are interested in some of these contact me, I have many left over IR LED 5 £ 0.1104 £ 0.5520 Rapid Electronics 58-2006 IR phototransistor 5 £ 0.1104 £ 0.5520 Rapid Electronics 58-2005 330 Ohm resistor 5 £ 0.0074 £ 0.7416 Rapid Electronics 62-0358 Pack of 100 10 Kohm resistor 5 £ 0.0074 £ 0.7416 Rapid Electronics 62-0358 Pack of 100 7 Pin 0.1" header 1 £ 2.1500 £ 2.1500 eBay 400858209683 <td>Tape</td> <td>1 £ 0.660</td> <td>0.660</td> <td>0 Rapid Electronics</td> <td>87-1552</td> <td>Black electrical tape works best</td>	Tape	1 £ 0.660	0.660	0 Rapid Electronics	87-1552	Black electrical tape works best
IR LED 5 6 0.1104 £ 0.5520 Rapid Electronics 58-2006 IR phototransistor 5 6 0.1104 £ 0.5520 Rapid Electronics 58-2005 330 Ohm resistor 5 6 0.0074 £ 0.7416 Rapid Electronics 62-0358 Pack of 100 10 Kohm resistor 5 6 0.0074 £ 0.7416 Rapid Electronics 62-0358 Pack of 100 7 Pin 0.1" header 1 £ 2.1500 £ 2.1500 eBay 400858209683 40085820963 400858209683 400858209683 400858209683 400858209683 </th <th>Sensor PCB</th> <th></th> <th>£ 12.713</th> <th>2</th> <th></th> <th>This is including many spares.</th>	Sensor PCB		£ 12.713	2		This is including many spares.
IR phototransistor 5	PCB	1 £ 6.500	0 £ 6.500	O Chinese PCB fab		If you are interested in some of these contact me, I have many left over
330 Ohm resistor 5	IR LED	5 £ 0.110	4 £ 0.552	O Rapid Electronics	58-2006	
10 Kohm resistor 5	IR phototransistor	5 £ 0.110	4 £ 0.552	O Rapid Electronics	58-2005	
7 Pin 0.1" header 1 f 2.1500 f 2.1500 eBay 400858209683 They can be replaced with solid core wire Male to Female jumper wire 7 f 0.0248 f 0.9900 eBay 111651703549 Small cable tie (L=80mm W=2.4mm) 2 f 0.0480 f 0.4860 Rapid Electronics 04-0630 Pack of 100 Obstacle sensor f 7.3800 EBay 380661514413 HC-SR04 HC-SR04 ervo adapter 1 f 0.9900 f 0.9900 eBay 400795830076 HC-SR04 servo adapter 1 f 0.9900 f 0.9900 eBay 141741597378 3D printable 10mm M2 screw 2 f 0.0118 f 1.1800 Rapid Electronics 33-2210 Pack of 100, Can be used to mount Arduino properly	330 Ohm resistor	5 £ 0.007	4 £ 0.741	6 Rapid Electronics	62-0358	3 Pack of 100
Male to Female jumper wire 7 f v 0.0248 f 0.0900 v 6 0.4860 6 0.9900 v 6 bay 111651703549 v 64-0630 v	10 Kohm resistor	5 £ 0.007	4 £ 0.741	6 Rapid Electronics	62-0394	Pack of 100
Male to Female jumper wire 7 f 0.0248 f 0.9900 eBay 111651703549 Small cable tie (L=80mm W=2.4mm) 2 f 0.0049 f 0.4860 Rapid Electronics 04-0630 Pack of 100 Obstacle sensor f 7.3800 This is including many spares. Servo 1 f 2.0400 f 2.0400 eBay 380661514413 HC-SR04 1 f 0.9900 f 0.9900 eBay 400795830076 HC-SR04 servo adapter 1 f 0.9900 f 0.9900 eBay 141741597378 3D printable 10mm M2 screw 2 f 0.0118 f 1.1800 Rapid Electronics 33-2210 Pack of 100, Can be used to mount Arduino properly	7 Pin 0.1" header	1 £ 2.150	0 £ 2.150	0 eBay	400858209683	209683 They can be replaced with solid core wire
Obstacle sensor £ 7.3800 This is including many spares. Servo 1 £ 2.0400 £ 2.0400 eBay 380661514413 HC-SR04 1 £ 2.1200 £ 2.1200 eBay 400795830076 HC-SR04 servo adapter 1 £ 0.9900 £ 0.9900 eBay 141741597378 3D printable 10mm M2 screw 2 £ 0.0118 £ 1.1800 Rapid Electronics 33-2210 Pack of 100, Can be used to mount Arduino properly	Male to Female jumper wire	7 £ 0.024	8 £ 0.990	0 eBay	111651703549)
Servo 1 £ 2.0400 £ 2.0400 eBay 380661514413 HC-SR04 1 £ 2.1200 £ 2.1200 eBay 400795830076 HC-SR04 servo adapter 1 £ 0.9900 £ 0.9900 eBay 141741597378 3D printable 10mm M2 screw 2 £ 0.0118 £ 1.1800 Rapid Electronics 33-2210 Pack of 100, Can be used to mount Arduino properly	Small cable tie (L=80mm W=2.4mm)	2 £ 0.004	9 £ 0.486	O Rapid Electronics	04-0630	Pack of 100
HC-SR04 1 £ 2.1200 £ 2.1200 Bay 400795830076 HC-SR04 servo adapter 1 £ 0.9900 £ 0.9900 eBay 141741597378 3D printable 10mm M2 screw 2 £ 0.0118 £ 1.1800 Rapid Electronics 33-2210 Pack of 100, Can be used to mount Arduino properly	Obstacle sensor		£ 7.380	0		This is including many spares.
HC-SR04 servo adapter 1 f 0.9900 f 0.9900 eBay 141741597378 3D printable 10mm M2 screw 2 f 0.0118 f 1.1800 Rapid Electronics 33-2210 Pack of 100, Can be used to mount Arduino properly	Servo	1 £ 2.040	0 £ 2.040	0 eBay	380661514413	
10mm M2 screw 2 £ 0.0118 £ 1.1800 Rapid Electronics 33-2210 Pack of 100, Can be used to mount Arduino properly	HC-SR04	1 £ 2.120	0 £ 2.120	0 eBay	400795830076	
	HC-SR04 servo adapter	1 £ 0.990	0.990	0 eBay	141741597378	3 3D printable
m2 nut 2 £ 0.0105 £ 1.0500 Rapid Electronics 33-1725 <i>Pack of 100</i>	10mm M2 screw	2 £ 0.013	8 £ 1.180	O Rapid Electronics	33-2210	Pack of 100, Can be used to mount Arduino properly
	m2 nut	2 £ 0.010	5 £ 1.050	0 Rapid Electronics	33-1725	Pack of 100