

Bill of Materials: Goliath.fzz

Assembly List

Label	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Unit Price	Qty	Total Price	Properties
J1			Piezo Speaker	€	8,00	1 €	8,00
KY-1			Relay Module	€	6,28	1 €	6,28 pins 6; package THT; variant variant 3; chip label ?; editable pin labels false; layout Two Rows; pin spacing 100mil
LED1-8			Orange (620nm) LED	€	0,03	8 €	0,24 leg yes; package 5 mm [THT]; color Orange (620nm); current 0.030
M1-2			DC Motor	€	9,73	2 €	19,46 inductance 5u; voltage (max)12V; resistace 1.5; voltage (min) 3V
M3			Water pump	€	12,38	1 €	12,38 inductance 5u; voltage (max) 12V; resistace 1.5; voltage (min) 3V
P1-3			Ultrasound Sensor	€	5,25	3 €	15,75 SRF-04 40Khz 5VDC
Ctrl			Arduino Uno (Rev3) - ICSP	€	29,00	1 €	29,00 type Arduino UNO (Rev3) - ICSP
Q1			TRANSISTOR_NPN	€	0,04	1 €	0,04 package to-92; variant to92
Q2			LTR-301	€	0,04	1 €	0,04 package ltr-301; features side-revceiving
R1			1kΩ Resistor	€	0,03	1 €	0,03 power 0.25; package THT; tolerance ±5%; bands 4; resistance 1kΩ; pin spacing 400 mil
R2			Trimmer Potentiometer	€	0,10	1 €	0,10 knob status 50%; power 0.5W; track Linear; package THT; maximum resistance 100kΩ; size Trimmer - 12mm; type Trimmer Potentiometer
S1			H-Bridge with L298N	€	18,00	1 €	18,00 switching circuit SPST; default state Normally Open; variant variant 1
U1-3			LIPO-1000mAh	€	13,39	3 €	40,17 internal resistance 0.1Ω; package lipo-1000; voltage 3.7V; variant 1000mAh
U4-5			9V	€	7,00	2 €	14,00 internal resistance 0.1Ω; package lipo-1000; voltage 3.7V; variant 1000mAh
			Caterpillar Tracks	€	15,00	1 €	15,00 Chassi
			MDF	€	5,00	1 €	5,00 Main Body
						€	183,49