

3D Printed WALL-E

List of Parts

#	Name	Quantity	Supports	Notes
3D Printed Components				
<i>Body</i>				
1	body-bottom	1	No	
2	body-back	1	Yes	
3	body-front	1	Yes	
4	body-front-door	1	Yes	
5	body-front-pins-x2	2	No	
6	body-left	1	Yes	
7	body-right	1	Yes	
8	body-top	1	Yes	
9	body-neck-servo-holder	1	No	
<i>Arms</i>				
10	arm-servo-bracket-left	1	No	
11	arm-servo-bracket-right	1	No	
12	arm-hinge-inner-x2	2	Yes	
13	arm-hinge-outer-x2	2	Yes	
14	arm-hinge-axle-x2	2	No	
15	arm-barrel-x2	2	Yes	
16	arm-barrel-end-x2	2	No	
17	arm-piston-x2	2	Yes	
18	hand-bracket-x2	2	Yes	
19	hand-axle-x2	2	No	
20	hand-finger-left-x2	2	No	
21	hand-finger-right-x2	2	No	
22	hand-finger-middle-x2	2	Yes	
<i>Head</i>				
23	head-center	1	Yes	
24	head-axle	1	No	
25	eye-back-left	1	Yes	
26	eye-back-right	1	Yes	
27	eye-middle-left	1	Yes	
28	eye-middle-right	1	Yes	
29	eye-front-left	1	Yes	
30	eye-front-right	1	Yes	
31	eye-camera-replica	2	Yes	
32	eye-camera-mount	0	No	< Use this if you want to add your own camera
<i>Neck</i>				
33	neck-bottom-axle	1	No	
34	neck-bottom-left	1	Yes	
35	neck-bottom-linkage	1	No	
36	neck-bottom-right	1	Yes	
37	neck-middle-axle	1	No	
38	neck-top	1	Yes	
39	neck-round-bottom	1	No	

40	neck-round-top-left	1	Yes
41	neck-round-top-right	1	Yes
42	neck-wire-guide-left	1	No
43	neck-wire-guide-right	1	No
44	neck-top-linkage	1	No
Wheels			
45	wheel-back-x4	4	No
46	wheel-front-x4	4	No
47	wheel-top-x8	8	No
48	wheel-top-larger-x0	0	No
49	wheel-gear-driven-x2	2	No
50	wheel-gear-motor-x2	2	No
51	wheel-axle-notched-x6	6	No
52	wheel-axle-back-x2	2	No
53	wheel-axle-spacer-x8	8	No
54	wheel-frame-left	1	No
55	wheel-frame-right	1	No
56	wheel-frame-addon-x2	2	No
57	wheel-bracket-inner-left	1	Yes
58	wheel-bracket-inner-right	1	Yes
59	wheel-bracket-outer-left	1	Yes
60	wheel-bracket-outer-right	1	Yes
Tanks Treads			
61	tread-plate-x70	70	No
62	tread-pin-x140	140	No
Total		310	

< Use this instead of wheel-top if you need to increase the tension of the treads.

Hardware	
h1 linkage bar (paper clip)	2
h2 M3 Bolt - 10mm length	14
h3 M3 Bolt - 20mm length	12
h4 M3 Bolt - 6mm length	2
h5 M3 Nut	26

Electronics	
e1 Micro Servo Motor	7
e2 12v Geared DC Motor ø37mm	2
e3 Arduino Uno (or equivalent)	1
e4 Arduino Motor Shield	1
e5 12-bit PWM servo driver	1
e6 12v Battery Pack	1
e7 12V to 5V Buck Converter	1
e8 Raspberry Pi	1 Optional
e9 USB Camera	1
e10 Small Speaker	1