

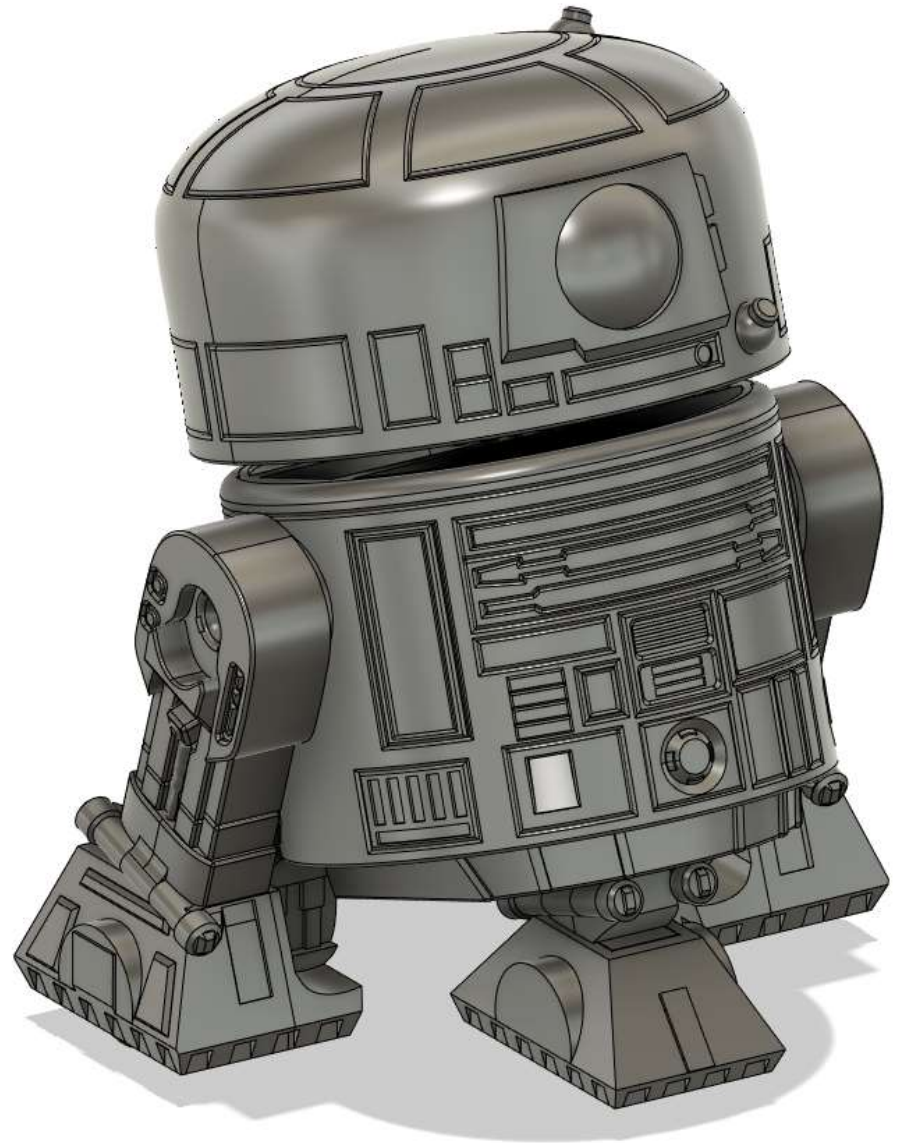
MrBaddeley
BB-R2 (Baby R2) assembly
(Draft)

<https://www.patreon.com/mrbaddeley>

for other parts and instructions

BB-R2 (Baby R2) features

- Works with any 6 channel standard RC controller
- Full control, 360 degree turning
- Large battery compartments
- Rotating dome
- Simple assembly
- No soldering



Printing guidelines

All parts are oriented for printing!! No support needed

Generally all parts should be printed with a .2 layer height as maximum.

On outer facing parts it may be easier to print some on .1 (or use variable settings on the slicer to add higher resolution on gradual slopes etc for easy finishing.)

Recommend 3 or 4 (1.2 / 1.6mm thick walls) outer layers generally, up to 6 / 7 for high stress parts, gears, pins etc. (2.4 – 2.8mm).

**Note Infill has effect on compress strength, but wall thickness has the largest effect on strength. As infill increases above 70% the parts become more likely to fracture as there's less room to expand. Typically I print 15-20% infill, 25% max for high stress. **

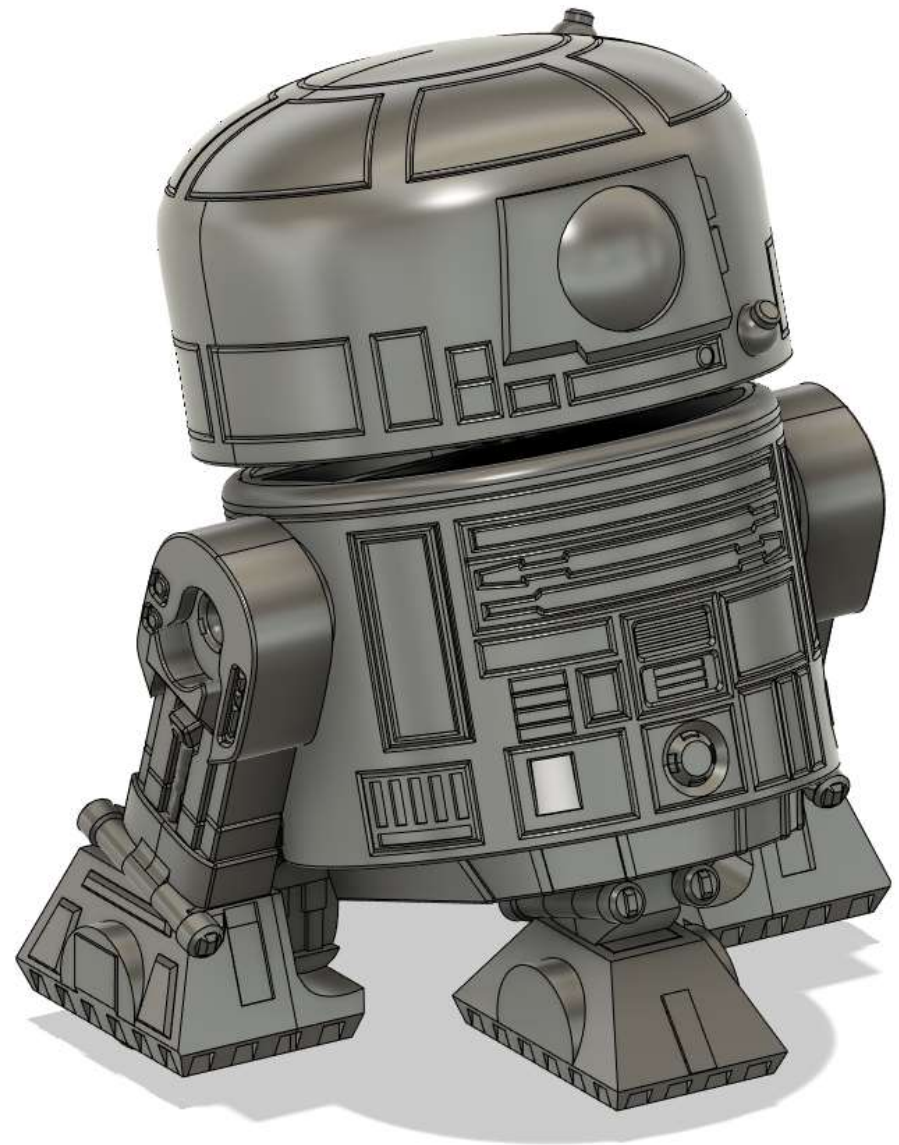
All parts orientated for printing, (note I can occasionally upload a part and forget to orient it, if it looks crazy, ping me a note).

On holes & certain areas where I used to use support, I now use a .4mm layer and bridging, so some holes will need cutting out with a craft knife or file, literally take seconds.

I would strongly recommend a dry fit of all the parts and reading the full assembly before you start gluing.

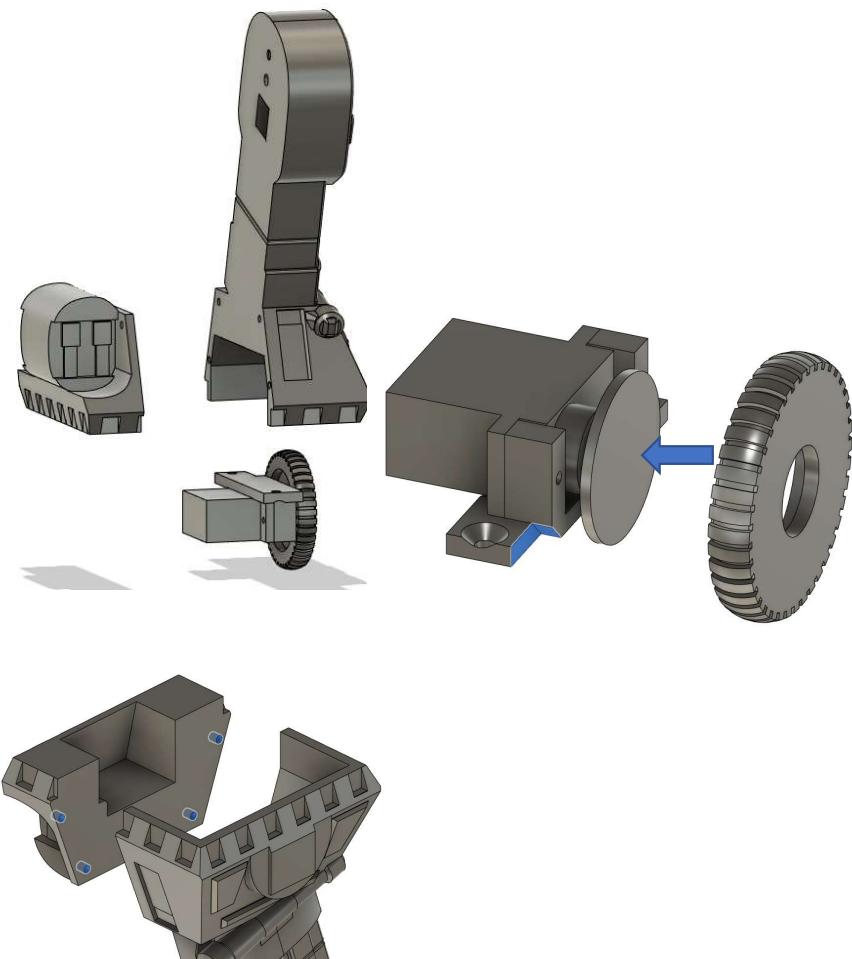
Hardware & electronics

M3x5mm countersunk screw (x4)
FS90R servo (x3)
683ZZ (3x7x3) bearing
MR625-ZZ (16x5x5) bearing
M3x20mm countersunk bolt
M3x10mm set screw
683ZZ (3x7x3) bearing (x3)
M3x10mm countersunk bolt (x4)
M3x10mm set screw (x2)
M3x20mm countersunk bolt (x3)
M3x8mm countersunk bolts (x3)
M3x20mm countersunk bolt (x1)
RC transmitter / receiver
4.8v battery
connecting cable.





Assembling the legs



The leg assembly is really simple.

First take the wheel and using two part adhesive, glue the FS90R round servo horn into the centre of the wheel with the servo connection facing out.

Next, take LEGC and the FS90R servo, using the two screws provided, screw the servo into LEGC as shown, note the orientation of the servo and the LEGC (the cut out shown in blue).

Then, using the servo screw provided, secure the wheel to the servo. This is your drive system.

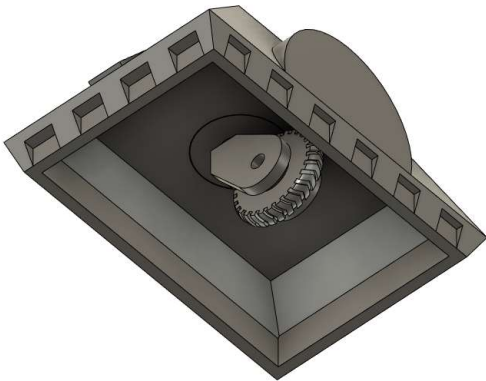
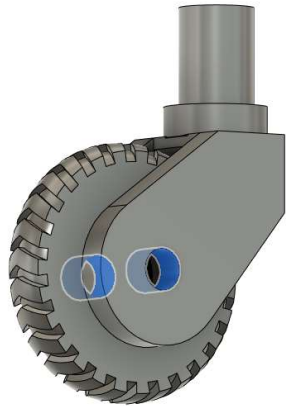
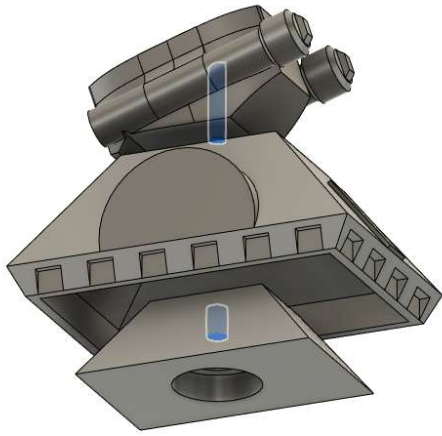
Then, take the battery box and the main leg, using four small 1.75mm filament pegs, use two part adhesive to glue the battery box to the main leg with the filaments in the alignment holes.

Finally, take the drive assembly, feed the servo cable through the leg and out the shoulder, and take two M3x5mm countersunk screws and screw the drive system into the leg, running the cable in the slight recess so it doesn't interfere with the wheel.

Repeat for the other side leg.

Hardware: M3x5mm countersunk screw (x4), FS90R servo (x2)

Assembling the centre leg



Take the three part of the centre foot.

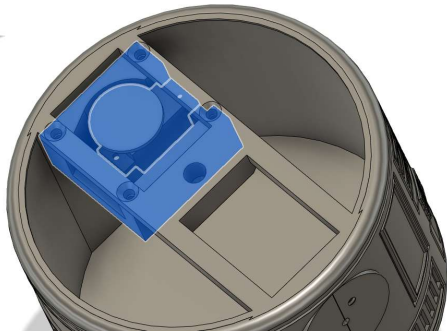
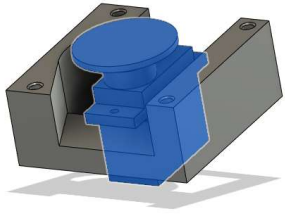
Take a M3x20mm countersunk bolt and bolt through the lower bracket, through the shell and into the ankle. The M3x20 bolt will self tap into the plastic. Tighten to complete the assembly.

Next take Wheel and push into it a 683ZZ bearing, then taking a M3x10mm set (or grub) screw for the axle, self tap this through the caster to create the caster assembly.

Then take a MR625-ZZ (16x5x5) bearing. The caster fits into this and then the whole assembly, caster and bearing, slots into the centre foot to complete the assembly.

Hardware: 683ZZ (3x7x3) bearing, MR625-ZZ (16x5x5) bearing, M3x20mm countersunk bolt, M3x10mm set screw.

Assembling the Body



First, using the two screws which came with the servo, screw the FS90R servo into the FS90RFrame.

Next, take the assembly and push it inside the body.

Align it as shown, and take four M3x10mm countersunk bolts and self tap them into the four holes to secure the servo into the body.

Next, take three 683ZZ bearing (3x7x3) and push them, on top of each other, into the hole in the centre of the top dome surface. This is the main bearing for the dome and the 3 bearings give a long hole for the shaft.

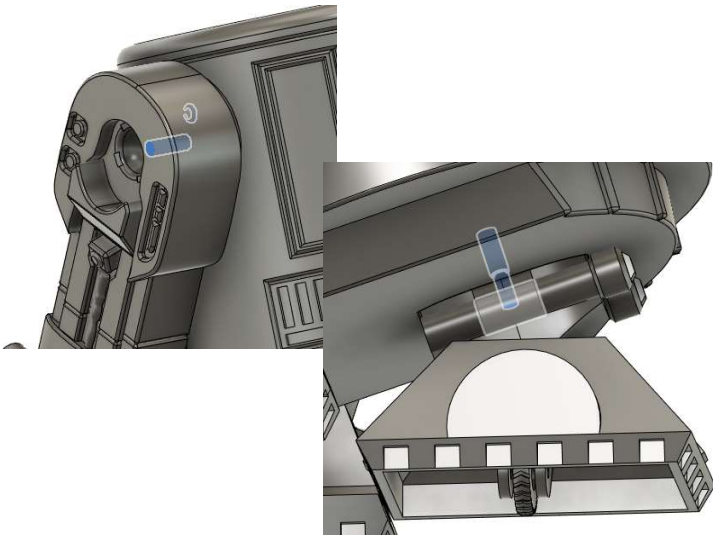
Next, take the ServoGear and glue the round servo horn into it this using two part epoxy with the servo connector facing out.

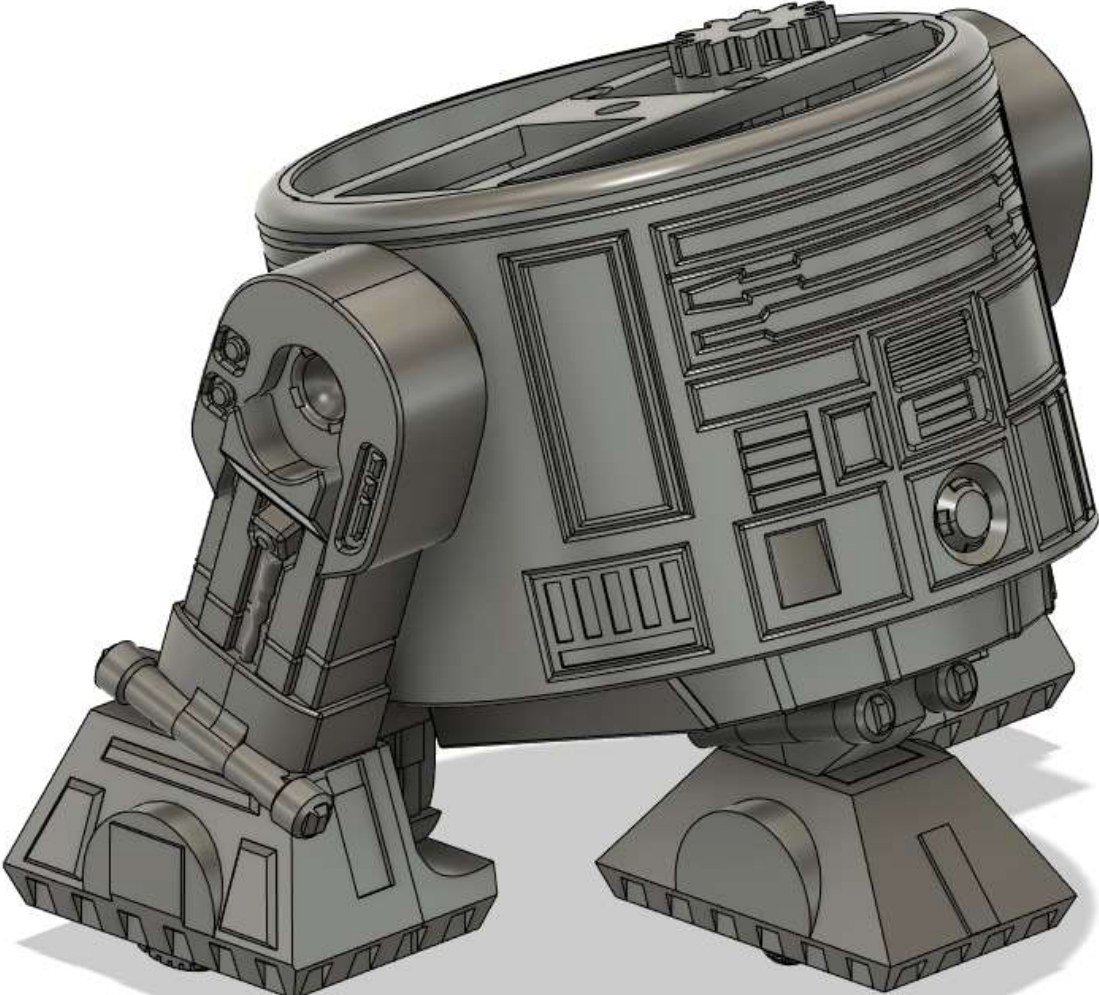
When the glue has set, use the servo screw to attach the dome drive gear to the body.

Next, take the two legs, feeding the servo cable through the hole into the body, use a M3x10mm set screw and push them into the top holes on the legs for alignment. Finally secure the legs to the body with a M3x20mm countersunk bolt.

The final thing it to attach the centre leg, this simply pushes into the body and can be secured with a single M3x20mm bolt which bolts from inside the body and self taps into the ankle (or you can glue it).

Hardware: FS90R servo, 683ZZ (3x7x3) bearing (x3), M3x10mm countersunk bolt (x4), M3x10mm set screw (x2), M3x20mm countersunk bolt (x3).





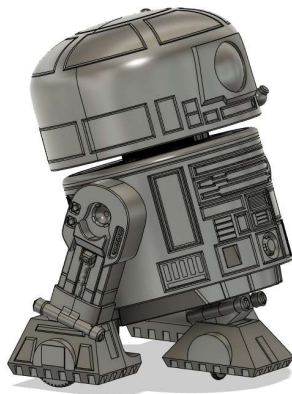
Assembling the Dome



Take the dome ring and screw a M3x20mm countersunk bolt through the centre so it protrudes gear side.

Next, take the dome, and using three M3x8mm countersunk bolts, screw the domering into the dome, again the bolts should self tap into the dome.

This completes the dome assembly, you can put the M3 shaft through the centre body bearings to attach the dome.



Hardware: M3x8mm countersunk bolts (x3), M3x20mm countersunk bolt (x1).

Electronics



You can power the Baby R2 with a 4.8v battery similar to the one shown.

You also need a RC setup, I personally use the Flysky FS-i6 which can support 6 or 10 channel receivers.

Basically, you connect the two leg servos to channels 1 and 2, and the dome servo to channel 4.

Then, set the rc to tank drive in the set up (see the documentation), there's the mixing setting on the following page.

Finally, connect your power to the RC receiver and you're good to go.

**A note of caution on power, the connector shown, will not connect directly to the receiver, you can get cables from amazon or RC shops which convert. It's critical that the 5v goes to the center pin on the receiver. I have seen some batteries where the cables have been apparently reversed. 5v is generally red, ground is generally black, but check with a meter if possible.

The red cable goes to the centre pin and ground is typically the farthest from the label on the receiver, but check your documentation.

Then, you're good to go....

Hardware: RC transmitter / receiver, 4.8v battery, connecting cable.

For mixing, it's normally Channel 1 (drive) as the master and Channel 2 (steer) as the slave, pos mix +100. neg mix +100 combined with a second mix, where Ch2 is the master and Ch1 the slave with -100 for both pos and neg (as shown in the pics, this is for the FlySky i6-x transmitter).





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