

MrBaddeley
K1-TT assembly
(Draft)

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

for other parts and instructions

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K1-TT features

- Fast track based droid
- Suitable for most surfaces
- “KITT” moving light
- Rotating dome
- Large battery compartment
- Easy assembly



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).

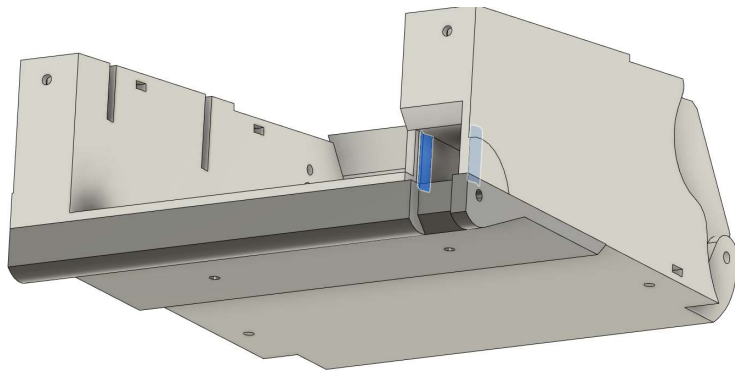
**Note Infill has effect on compress strength, but wall thickness has the largest effect on strength. As infill increases above 70% the parts become more likely to fracture as there's less room to expand. Typically I print 15-20% infill, 25% max for high stress. **

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.

The main frame...



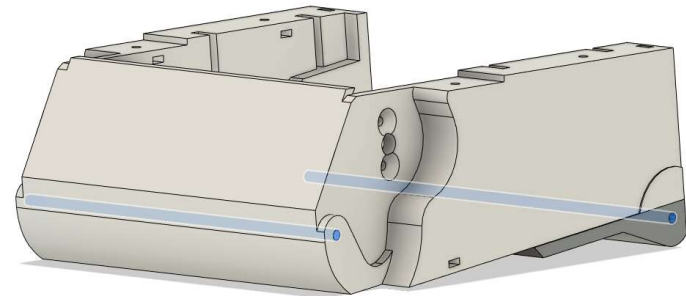
First we'll build the main frame. We start with soldering some power cables to the main switch as this fits into the main frame. The switch is a Rocker power switch (XW-601BB1), You need to solder a power cable (I used standard 13 amp main cable, but you can get various types). First take two lengths of the positive (red or brown) cable, this is the power cable. This is soldered on either of the sides of the switch. I would strongly recommend using a meter to determine the switch pair of connectors. Solder the cables in and use heat shrink insulation or insulation tape to cover any of the solder / cables. Leave plenty of cable to connect to the batteries.

The switch slots into the slot at the rear, threading the cable through the hole at the back into the main chassis.

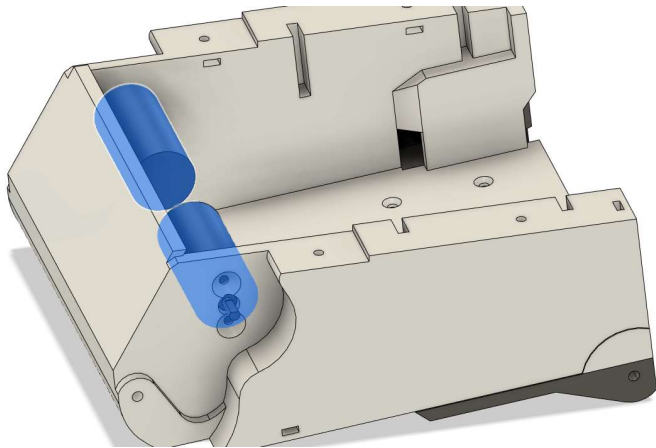
Next, take the RearAxleFrame and using four M3x10mm countersunk bolts and four M3 square nuts, bolt the rearframeaxle to the main chassis and tighten up very firmly. (nuts are facing the ground under the base).

Take two M4 threaded rods (250mm long), these are the main axles. Using a drill (it's the easiest way to fit these), tighten the chuck so it just holds the threaded rod and screw it into the front and rear axle holes, it should go completely through the model and out the other side, ensure you have roughly the same amount of axle either side.

Hardware: Power Switch (XW-601BB1), Power cable, M4 threaded rod (250mm)(x2), M3x10mm Countersunk bolt (x4), M3 square nuts (x4)



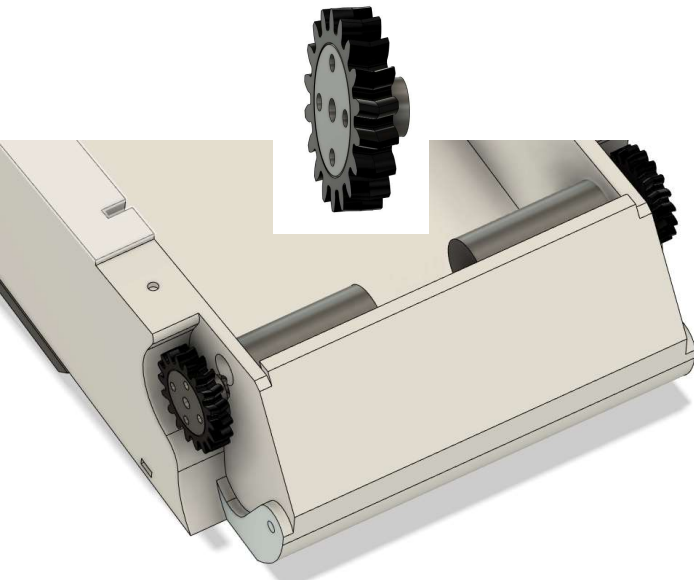
The main frame...



Next, fit the motors, take two Pololu HP 20.4:1 25mm motors. These should bolt into the frame with two M3x6mm countersunk bolts per motor. Tighten them firmly, you can add a tiny drop of rubber based glue to the plastic frame to save vibrations loosening them or Loctite on the bolts (be careful with locktite to not get it on the plastic, it can weaken the plastic).

****Note, you'll need to solder the motor cables on ideally before you bolt them in. Again leave plenty of cable for wiring up later.**

Next, we'll start making the wheels. Print the two tracks, this can be printed in flex. I did two tests with ninjaflex (85a) which is very flexible and Cheetah (95a) which is much firmer. I preferred the Cheetah as it was less likely for the tracks to come off in extreme surfaces, gravel etc. It does pull a little on the axles, so the outer frames keep everything level. I printed these on 4 outer walls (1.6mm thick), 5 upper and lower (1mm walls) and 15% infill on a .2 layer height.

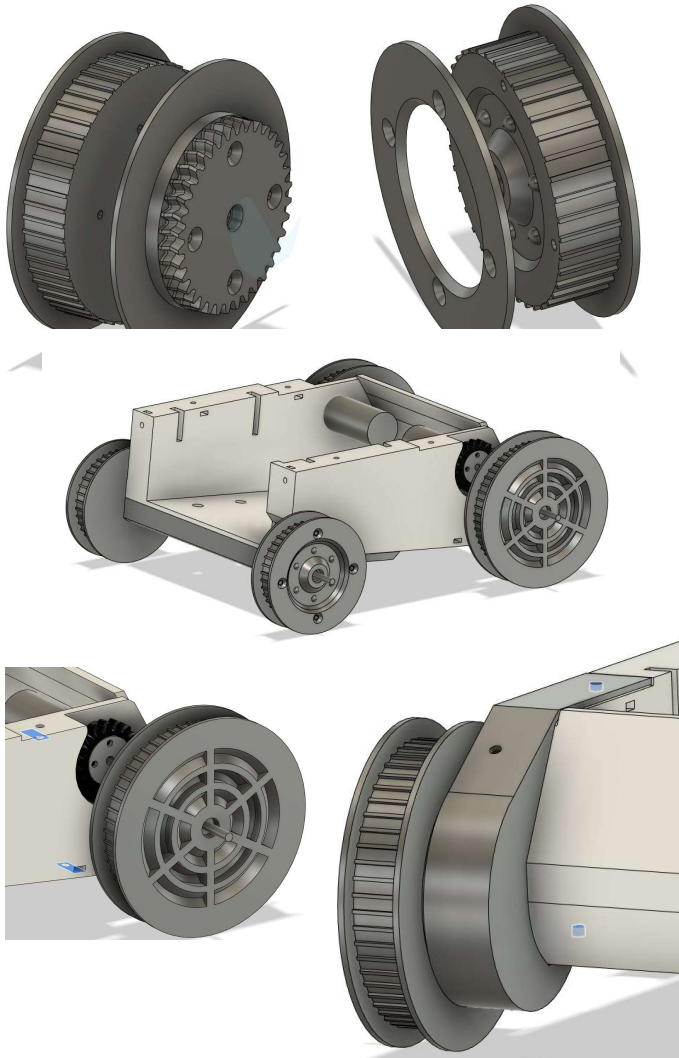


Next, take the two printed drive gears, these fit into two FlangeCoupling 4mm H12D10 and are bolted on with four M3x10 countersunk bolts and four M3 nuts per gear.

Fit the drive gears onto the drive motors using the set screws (grub screws) provided with the flange. Use a tiny amount of locktite to secure them, again being very careful it doesn't get onto the plastic.

Hardware: Pololu HP 20.4:1 25mm motor (x2) Flange Coupling 4x12x10 (x2), M3x10mm countersunk bolt (x8), M3 nut (x8), M3x6mm countersunk bolt (x4)

The wheels...



The front and rear wheels are assembled the same. The outer rim bolts onto the main wheel. On the larger wheel you use four M3x20 countersunk bolts, on the smaller wheel use four M3x10mm countersunk bolts. These just self tap into the plastic, tighten up firmly.

In each wheel insert two bearings 684ZZ (4x9x4) for the axles. You'll need to use a small round file to open the holes as I use bridging across the hole to remove supports.

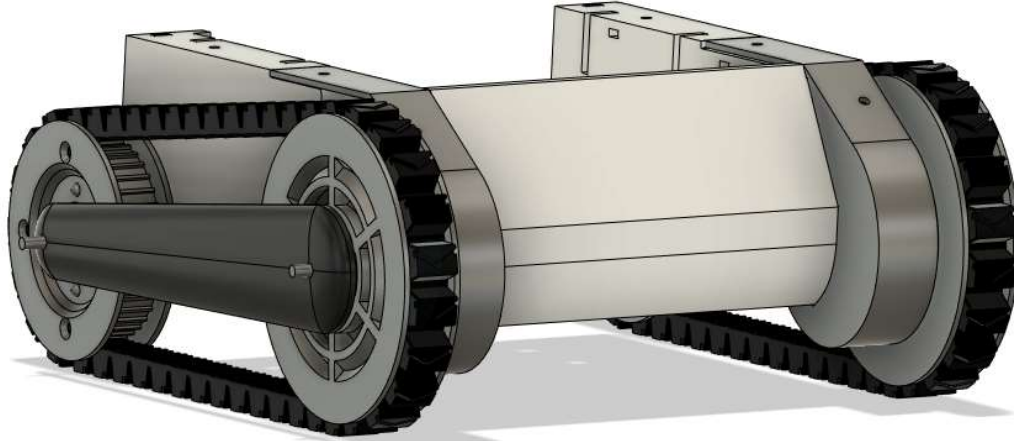
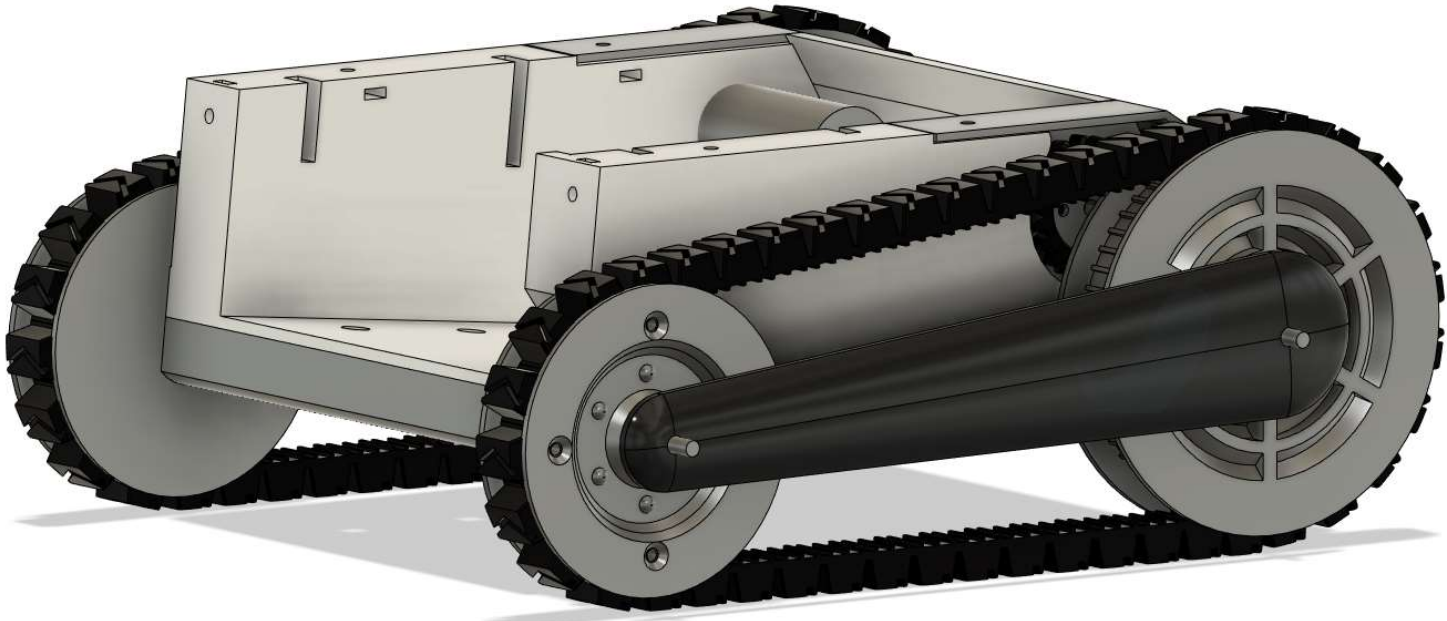
This is your wheels completed once you've fitted the bearings. You can fit the front and rear wheels using 1 or 2 M4 washers as spacers before sliding the wheels on. You can check the mesh with the front drive gear also, and you may have to adjust the drive gear position on the motor shaft.

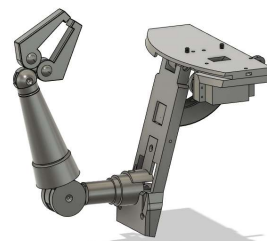
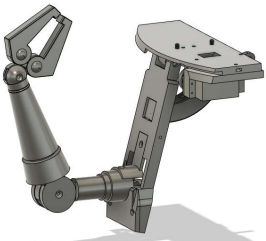
Then, slot two M4 square nuts into the main frame, hold in place with a little hot glue if they're loose. Then take the gear covers, using two M3x10mm countersunk bolts, fit the gear covers, you'll have to flex them a little to get them to fit. Fit both sides.

Once you're happy with the fit, fit 2 or 3 M4 washers on the outside of the wheels, then push the Wheelcover onto the side and using two M4 nylock nuts, tighten these so they hold the wheelcover in place (but not too tight to bind the wheel).

Finally, take the tracks and stretch them onto the wheels on both sides to complete the drive system.

Hardware: M3x20mm Countersunk bolts (x8), M3x10mm countersunk bolts (x12), 684ZZ (4x9x4) bearings (x8), M4 washers (20), M4 square nut (x4), M4 nyloc nut (x4).





Supported and tested by eric salottolo, BEUVIERE, Travis, jiff, John Durno, Dan Lowery, Geir Sire, Kory Tournear, Tomas, Jose Roberto Martinez, Michael Pollard, Michael Beranek, Alberto Moreno, Josh Gofu, Teresina Carper, Scott Davis, Nelson Rivera, Dan Walsh, Gary Dalrymple, Nick Tangaroa, Alyssa Januska, Nicholas Nonno, Leandro Massimo, Mike Lichtenwalner, Scott Millsap, Matthew McClinton, Tiger89, Zenofex Zenofex, matt Bird, Steve Lee, Andy Price, Xander, Christopher Colvin, Peter Weel-Moes, Orië Goudge, Lochlan McCoy, Denise Owen, Kurt McClain, Andrew, Joseph Domkus, Terrance mansworth, Joshua BAKER, Billy Stewart, Kerry Buchter, Felix Petterson, Matt Nichols, Shane Booth, Jordan, Stephen Bartlett, Ranny Gazoo, Jonathan Brinksman, Jon Minard , James Jones, benteux jean baptiste, Samuel7, Nathan Libby, TyroneRex, Mark Turner, Ruediger Weronetzki, Jennifer Carter, Bill, Mathias Kastrup, Eddie coleman, Brad Anderson, Kathy Allen, David Bowles, Jess Smith, Craig Clark, Adam Johnson, Adam Wolf, Martin , Johan Andersson, Jake Ezzo, Kevin Rutter, thomas christopher, Aaron Singleton, steve mead, Benji, Chris Sader, Katharina Janisch, Logan Staples, Ian Turner, Reece Whalen , Matt Van Der Steen, Bob Schwartz, Chris Rosenbaum, David Perez, Chad Jackson, Valerie Britton, Stephan Kempa, Jeff Duneheew, Sheldon Williams, Karl Wilkinson, ETSISKE, R R, Gregory Nachman, firefrog , John Ferguson, Colin Talbot, Brent Williams, Shaun Farmer, Richard Thursty, Dan O Pham, Shane, Morgen Vanesselstine, David Mullin, Craig Walker, Rodney Herbert, Alex Wolf, Cheng C, Kyle Larson, Jay Randall, Tim Horvat, Frank Licht, James Loughry, Keven Bennett, Mike Olmstead, Derek Thompson, Alex Lasher, Josh Jones, Steve, Guy Sawie, Keiji Hagiwara, Lilfooker , Jaime E Nuffo, David Bailey, Jeff Miklush, Bob Salter, Jason Crowton, Clint Slaughter, Julien Lestienne, Jimmie Thomas, Victor Nava, Charles Hul, Dr David Edey, Daniela Flores, Luis ortiz, Rhys Theodore, Juris Vecvanags, Ross Johnson, Jonathan DAVID, Ian Hawkins, Chris M, Nate Motich, Michael Binkley, Martin Walton, Christopher Wallace, M.A. Ldlvs, Bob Magnuson, John Butler, Rostant Antoine, Elizabeth Baker, Clive's Hobbies, Gerald Valentine, Dellinger Technologies, Darren Bischoff, Stacey Reddick, Michael Marrero, Lys Akerman-Frank, Colin Roberts, Tyler Silcox, Gregory French, Noah Golly, The Little Suburban Homestead, Eran Sabat, Isak Törnblad, Mitchell Manning, Cory Fugate, Scott Donohoo, andrew gillum, Zsombor Fedor, Mark Julian Borg, Roger Thomas, Andy Griggs, Christoph Kretschmer, D, Justin , DuncanB, Proforen , Timothy Gibbons, Eric Weber, Dave Darko, Ian D Fijalkovich, Kyle Burns, HDC , MICHAEL KOENIG, Brian Tunks, Scott O'Neal, Sven Blom, Andrew Konopacki, Richard Turnbull, Jerid , Dennis See, Cory Kerr, David Hugh Clements, Ariel, Pascal van den Broek, Carl Hunermond, Tim Troutman, Anthony DeGirolamo, Greg Newell, Fred DeBardo, David Kok, PhoenixForged , Steve O'Shea, Robert Schuetter, Francis Behen, Adam Ashley, Larry K., Peter King, Aaron Thompson, Arthur Hallen, Kralk , Rocinante , Rob Cromwell, erick parra, Jerry Summers, Kevin McQuarters, Paul Muir, Jason Guyer, philipp tudge, James E Lorimor, Adam Duvall, Ryan Lovell, Iain Stott, Corbin Campbell, Robert Weekley, Tony Retano, Greg Roan, William Thompson, Jan, Jon , Vernon Gilmore, Darren , Steven Margis, Nils Pa, John van Beurden, 3d Planet Ukraine, Walter Strain, Kalandir, Dj , Yann, Brannon Breau, Håvard Jørgensen, branden price, Heath Price, Toby Sabol, Shyam Lutz, Alexander Ingham, Adam Perkins, Robert Lee, Christopher Edwards, Donald Grissom, Mark Cox, mortag93 _ Jason Ament, Nathan Duncan, Gerald Hansen, Angel Marin Merino, Tim Scott, Mikey Bouchereau, Rusty, Roger Demers, Oliver Eckel, Tom Van Eynde, chronos1981 , Jeremy Wilkerson, ewaca, Gary B Garland, lister smeg, Eli Patton, David Nicolas, Moon jung hun, Noah Lewkowicz, Allen Mahurin, Anthony Wilson, Michael Wilke, Rick Hernandez, Chris - 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