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Waifu Shoes Documentation and Instructions:

Note to customer/user:

Installing the Waifu shoes requires some confidence with hand tools.
Here is a kit with all the parts, but really, it's overpriced and if you don't have the confidence to order everything on your own, you probably don't have the skill to install it even with the kit: https://spinningrobotpussy.com/shoes/

Purpose:

The problem: Consider a standing doll. It has bolts going downwards to support her weight. However, you still have to be careful to not mess up her toes A) when you're putting on her shoes and B) she slides forward in her shoes, either because the front got bumped, or she's wearing high-heels. Also, when you're adjusting her foot to point it downwards or sideways, you do so by pushing downwards on her toes and the top of her foot. It takes quite a bit of force, and you risk damaging the top of her foot.
The solution: A "rigid inner shoe" that bolts onto a doll's foot, and wraps around and protects the toes. It can be used as a shoe by itself, or it can slide into an actual shoe. If you press down on the top of (the part of the shoe that covers) her toes, the force is transferred through the shoe, into the bolts, meaning there is no risk of damaging the TPE on top of her foot.

Parts:

Component	Qty	Purchase Link
Waifu Shoes	2pcs, one left, and one right (mirrored), in translucent filament	https://drive.google.com/file/d/1vh5SBeDQo7Vtyj2TV2eSU0qdeP6KDWD5/view?usp=sharing
M6 10mm standoffs, Male-Female with 8mm Male thread	6pcs	https://www.amazon.com/gp/product/B08F21R93R/
M6 nut	6pcs	https://www.amazon.com/Stainless-Screws-Assortment-Storage-520/dp/B07KW2N9RD/
M6x8 button-head bolt	6pcs	
M6 neoprene washer	6pcs	https://www.amazon.com/gp/product/B08DCWH45D/

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M6 fender washers (optional, for if you mess up and drill the holes too big) + superglue/duct tape	Up to 6pcs	https://www.amazon.com/Floyutin-M6x25mm-Stainless-Fender-Hardware/dp/B09V7S42FR/

Instructions:

1) Prep
    a) Remove existing bolts if any.
    b) If you have a TPE doll, oil the doll. This process will involve a lot of manipulation, so we want to make sure the TPE is as subtle as possible.
2) Install the standoffs
    a) 
    b) If the standoffs are not long enough, you can double up the standoffs, or add a nut. Usually the heel is longer.
    c)  

   d) If the threads (on the foot) are damaged, you can put a nut on the back-end, and clamp down. Note that pulling the TPE/silicone in this way risks damaging it, so do not do this unless the threads are actually damaged. Also you can't do this if you put the nut on the front-end.
   e) 
3) Mark where the bolt holes are on the shoe
   a) You can use a flashlight to get a better view through the translucent shoes.
   b)  
4) Drill the holes.
   a) If you don't have a drill, you can improvise a drill by twisting a knife or a pair of pointy scissors bushcraft-style **(If it's a folding knife, make sure it locks. Unless you want to lose a finger)**
   b) 
   c) Yea, it would be way easier if I pre-drilled these, or used slots, but the hole locations seem to be different on different dolls.
   d) If you drill the holes too big, use a fender washer. You will need one on the inside and outside. The one on the inside will need superglue or tape to hold it in place.
5) Install neoprene washers (just push them through)

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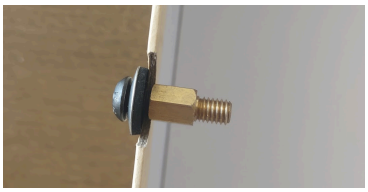
a) 

6) Install shoes.
   a) **Make sure her toes are positioned correctly when you put her feet in.** If they are wrong, and the shoes are on for a while, then you will have a bad discovery when you take the shoes off.
   b) You can use a flashlight to get a better view through the translucent shoes.
7) Install bolts.
   a) For TPE dolls only: Lubricated toes make it easier to get them in the right position.
   b)  Cardboard represents the plastics of the shoe
   c)

Do NOT tighten the bolts down all the way. The neoprene washers should allow a little bit of compliance, in case the holes are not straight. In this image, the heel bolt is straight, but the front bolts are tilted down slightly. Observe how the neoprene washers allow the bolt to push evenly on the plastic despite this. If you tighten the bolts down all the way, the neoprene washers can't do their job. They should be compressed partially (but not all the way); everything should be secure.	

   d)