

Prototype 4 Parts List

Edit

New page

[Jump to bottom](#)

Lucas LucidVR edited this page on 25 Jan · 7 revisions

These are the parts you will need for prototype 4 with recommended links to buy (make sure you get the right ones)

Currently, these are US links, but I will hopefully have UK/EU options later on.

Keep in mind that prices for these parts change a lot, and some of these links are higher quantity, so if you want to reach the \$60/pair mark you may need to shop around.

1. b10k ohm Potentiometer (5x per hand)

- You will also need the nuts that are included with the potentiometers.
- Green or WL potentiometers are supported.
- WL (brass) potentiometers:
 - [Recommended Amazon Link](#)
 - [Recommended Aliexpress Link](#)
- Green Potentiometers (Smaller and more durable):
 - [Recommended Amazon Link](#)
 - [Recommended Aliexpress Link \(10K Ohm\)](#)

2. 9g servo motors for haptics(5x per hand)

- Make sure they are 180-degree range.
- MG90S servos are recommended for higher durability
 - [Recommended Amazon Link](#)
- SG90 servos can also be used as a cheaper alternative
 - [Recommended Amazon Link](#)
 - [Recommended Aliexpress Link](#)

3. ESP32 Dev Board or Arduino (1x per hand)

- Recommended Board Types:
- ESP-WROOM-32
 - [Recommended Amazon Link](#)

- [Recommended Aliexpress Link](#)
- ESP32-WROOM-32U (For external antenna)
 - [Recommended Amazon Link](#)
 - [Recommended Aliexpress Link](#)
- Arduino Nano (No bluetooth)
 - [Recommended Amazon Link](#)
 - [Recommended Aliexpress Link](#)
 - If not using BT, may need a long USB cable to connect your arduino to your computer if you don't have one
- 4. Cheap retractable badge reels (for the rotary springs, 5x per hand)
 - [Recommended Amazon Link](#)
- 5. Glove material of your choice.
 - Recommended: Nylon Inspection Gloves (more flexy), Cycling/Golf gloves (stronger, easier to put on)
- 6. Mounting material
 - Velcro strap for the rigid mount (could add elastic as well), or elastic only
- 7. Wiring/Connectors/Breadboards as needed.
 - I recommend crimping/using JST connectors, 5 pin JST-XH 2.54mm fit great on the potentiometers.
 - [A great first crimper set \(optional, sometimes \\$35\)](#)
 - If you're in a pinch you can probably get away with soldering straight to the potentiometers, or using pre-crimped dupont wires from arduino kits.
- 8. Highly Recommended: A Can of WD-40 to lubricate the potentiometers
 - This makes the pots feel 10x smoother.
 - WD-40 is flammable so spray at your own risk.
 - Potential alternatives: (UNTESTED) Deoxit, Triflow
- 9. A source of power for the servos
 - Ideally 5v 2+ amps
 - This can be anything from a phone charger brick, to a USB battery, or even 4x AA batteries.
 - If you are using bluetooth you may want to invest in a separate clean source of power for the ESP32 to prevent brownouts.
 - [A Personal Favorite Choice](#) (Pack of 2)

10. If using the rigid mount, a nice squishy sheet of foam

+ Add a custom footer

► Pages 18

Getting Started



Parts Lists:

- [Prototype 3](#)
- [Prototype 4](#)

Printing guides:

- [Prototype 3](#)
- [Prototype 4](#)

Wiring Diagrams:

- [Prototype 3](#)
- [Prototype 4](#)

Build Guides:

- [Prototype 3](#)
- [Prototype 4](#)

Firmware Guides:

- [Firmware V2 Customization](#)
- [Firmware Troubleshooting Guide](#)

Community Design List

Troubleshooting

Clone this wiki locally

<https://github.com/LucidVR/lucidgloves.wiki.git>



