

Rito Feedo Mk 15000

Assembly Guide

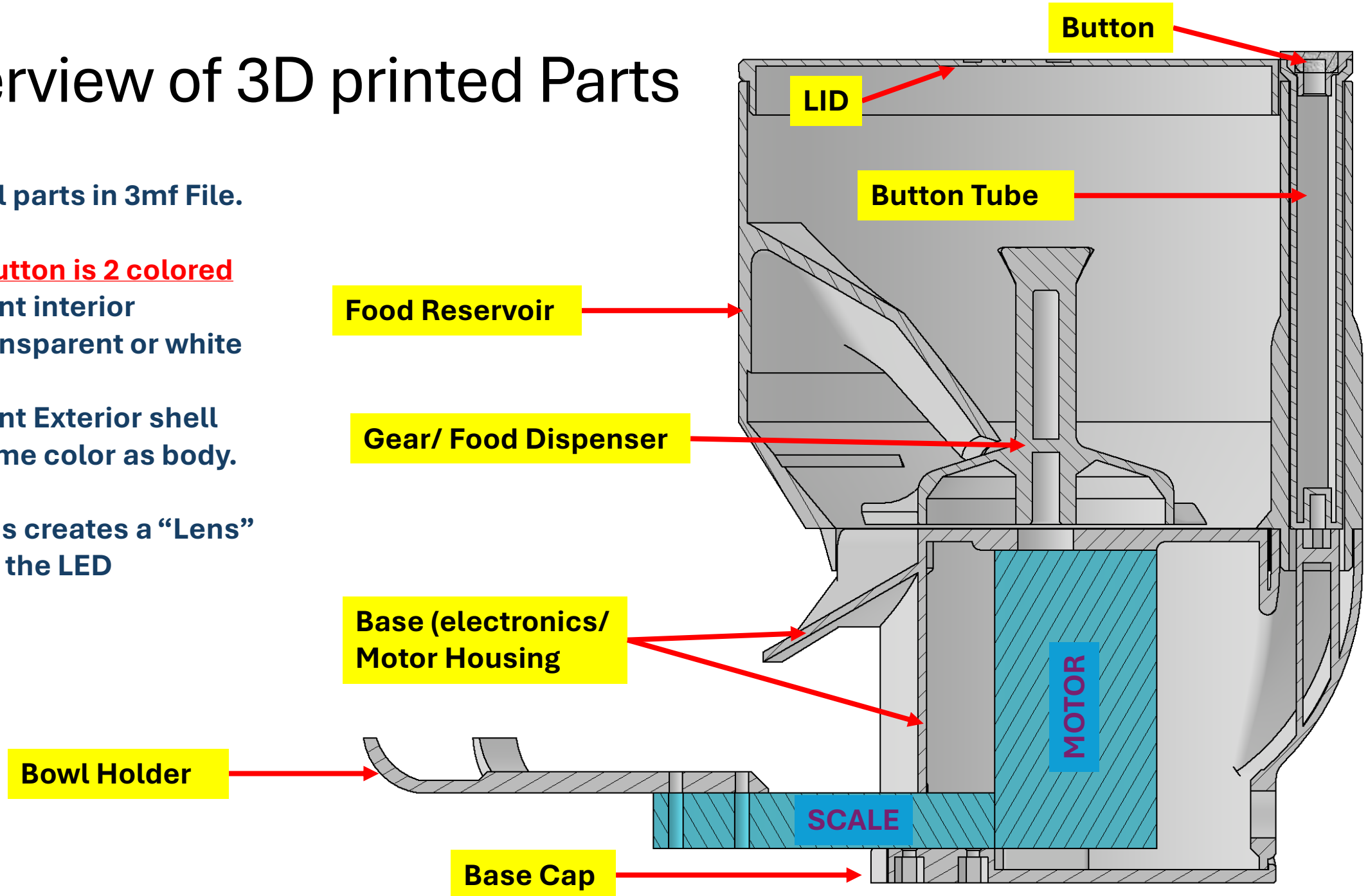
OPEN-SOURCE Automatic Pet Feeder

3d-printable
Wifi Enable
Easy to Build



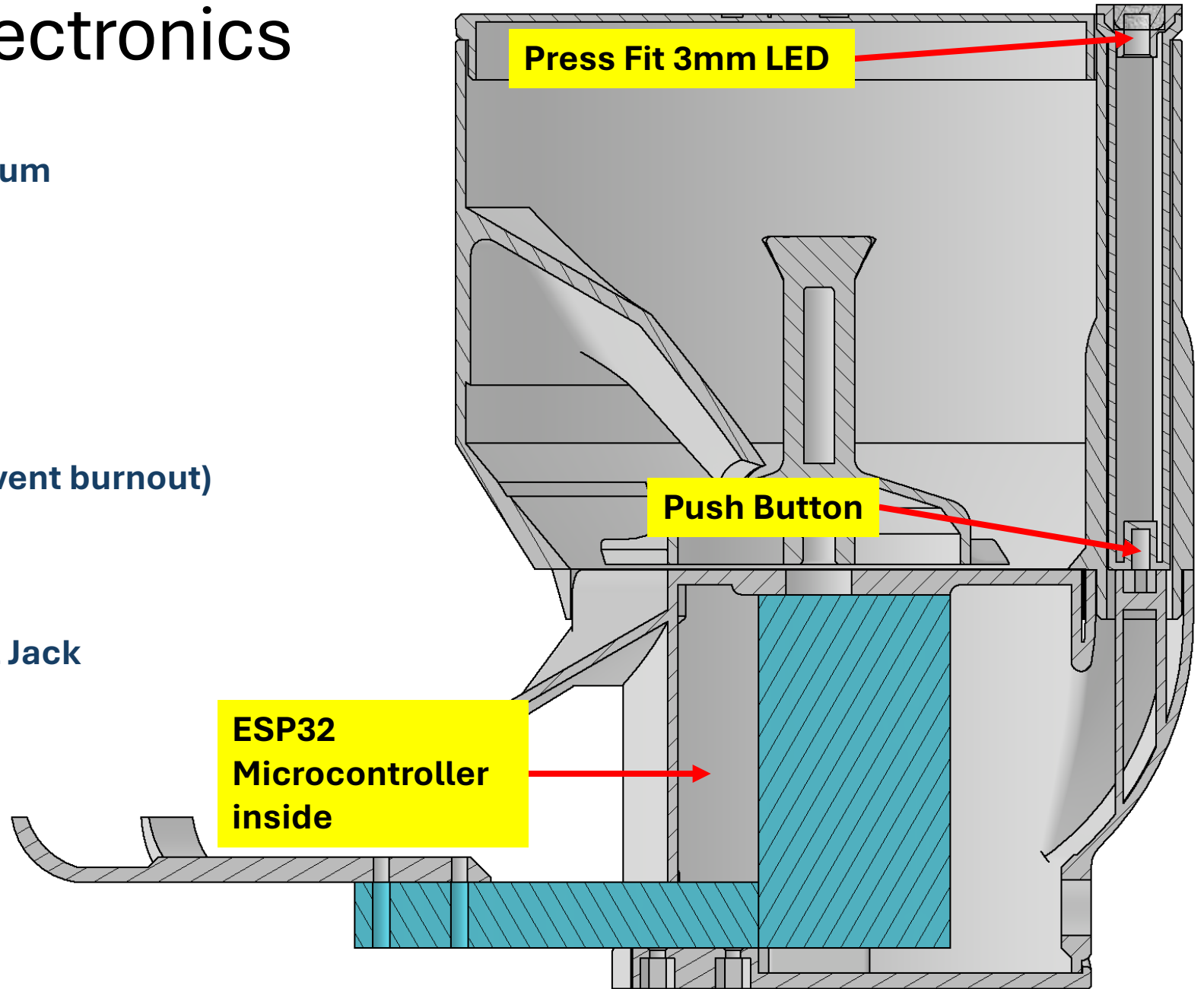
1. Overview of 3D printed Parts

- Print all parts in 3mf File.
- **Note Button is 2 colored**
 - Print interior transparent or white
 - Print Exterior shell same color as body.
- This creates a “Lens” for the LED



2(a). Overview of Electronics

- Tried to keep electronics to minimum
- Here is what you need
 - ESP32
 - Load Cell
 - 6x6x10mm Push Button
 - 5mm LED
 - ~400 OHM Resistor
 - (In series with LED to prevent burnout)
 - Transistor
 - FQP30N06
 - High Torque Motor
 - 9v Power Supply – Male Barrel Jack
 - Female Barrel Jack adaptor

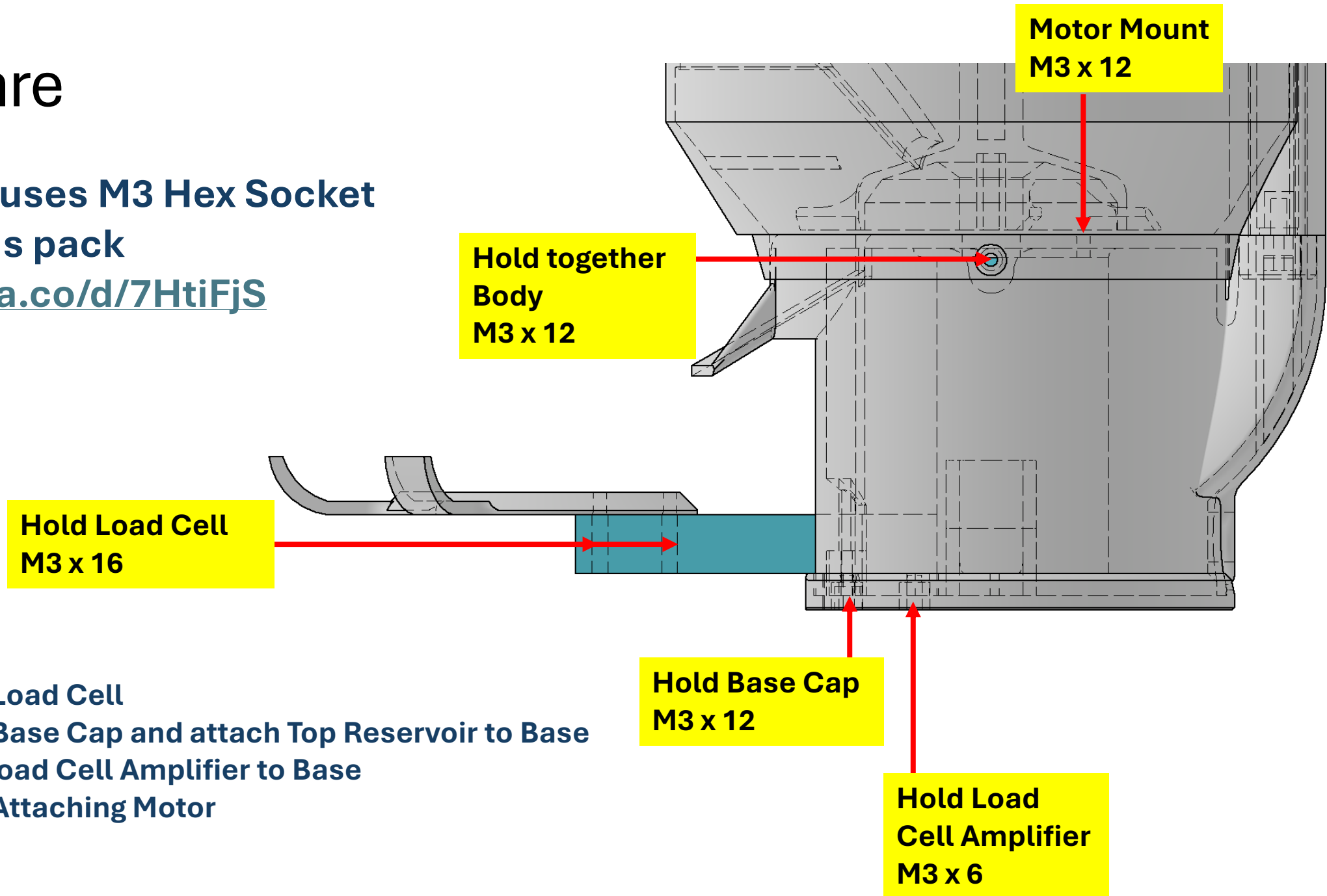


2(b). Where to get Electronics

- **ESP32**
 - https://www.amazon.com/gp/product/B0B18JQF16/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1
- **Load Cell & Amplifier**
 - <https://a.co/d/9zBQCtL>
- **6x6x10mm Push Button**
 - https://www.amazon.com/gp/product/B085SWHFMK/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1
- **5mm LED & ~400 OHM Resistor**
 - https://www.amazon.com/gp/product/B077X95F7C/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1
 - Pack comes with Resistor place in series with LED to prevent burnout.
- **Transistor (FQP30N06)**
 - https://www.amazon.com/gp/product/B08B8WRQP1/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1
- **High Torque Motor**
 - https://www.amazon.com/gp/product/B071XCWM2J/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&th=1
- **9v Power Supply – Male Barrel Jack**
 - https://www.amazon.com/gp/product/B0DD33CKG4/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1
- **Female Barrel Jack adaptor**
 - <https://a.co/d/h4yClyS>

3. Hardware

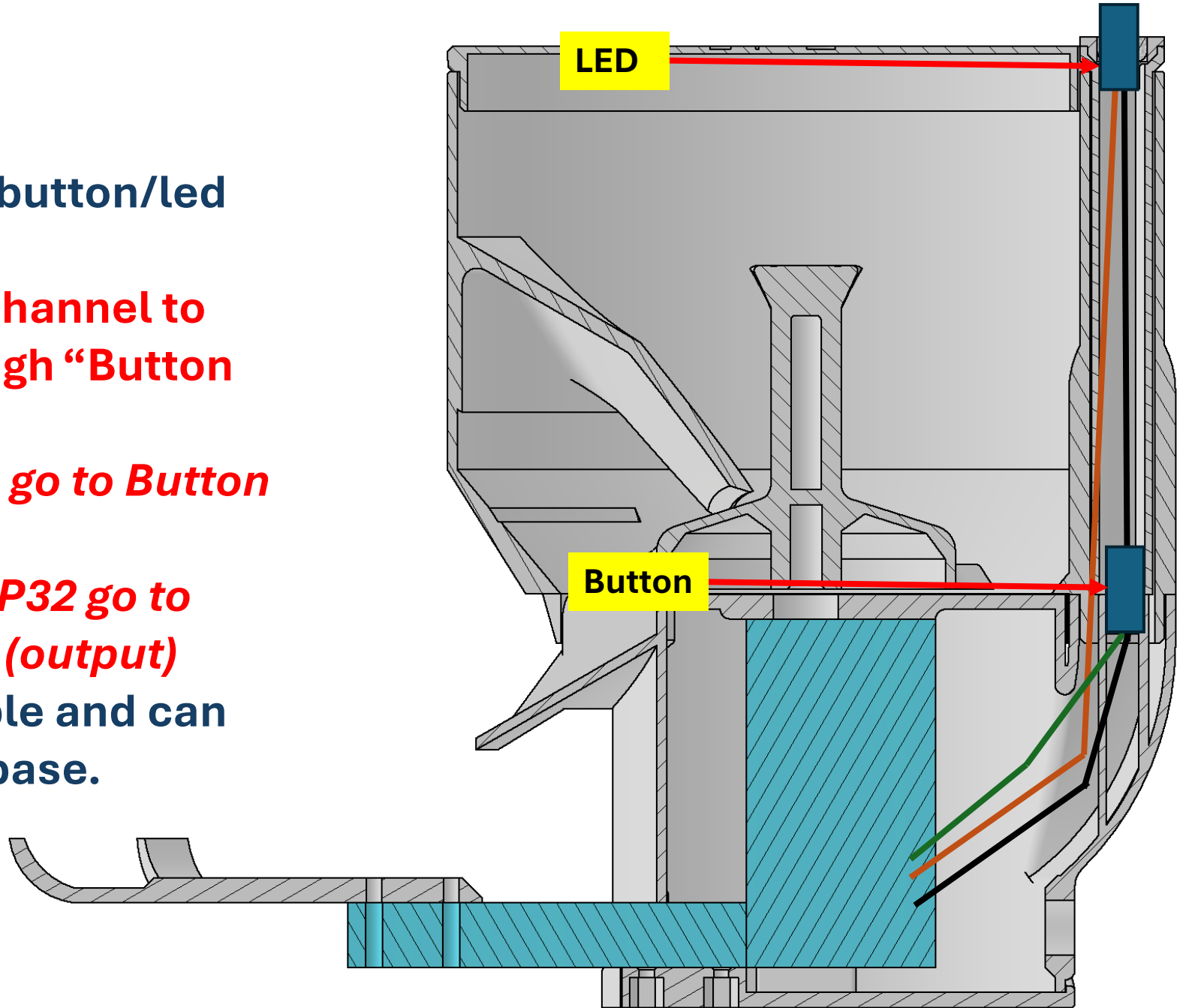
- Everything uses M3 Hex Socket
- I bought this pack
 - <https://a.co/d/7HtiFjS>



- 2 (M3 x 16) for Load Cell
- 4 (M3 x 12) for Base Cap and attach Top Reservoir to Base
- 2 (M3 x 6) for Load Cell Amplifier to Base
- 2 (M3 x 10) for Attaching Motor

4. Wiring of LED

- Challenge in Assembly is button/led wiring
 - There is passthrough channel to get power to LED through “Button Tube”
 - Need Single Ground to go to Button And LED
 - 2 Digital wires from ESP32 go to button (input) and LED (output)
 - All other wiring is simple and can just be crammed into base.



4. Circuit Diagram

