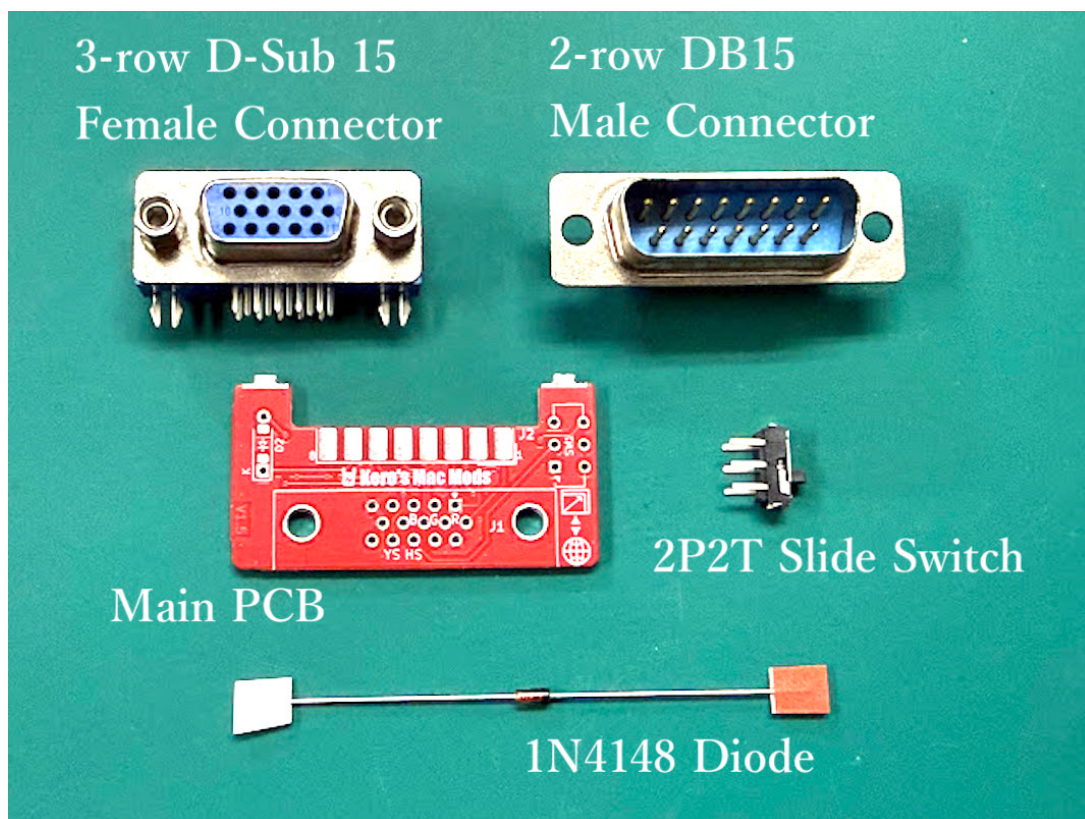


# MACVGA-LITE

## Assembly Instructions

### Before You Begin

Please make sure your kit includes all of the following parts:



- Main PCB
- 2-row DB15 male connector
- 3-row D-Sub 15 female connector
- 1N4148 diode
- 2P2T slide switch

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### Tools Required

You will need the following tools:

- Soldering iron
  - Solder
  - Flux
  - Tweezers
  - Wire cutters (nippers)
  - Rubber bands or a clip (e.g., clothespin) for holding parts in place
  - IPA (Isopropyl Alcohol) for cleaning
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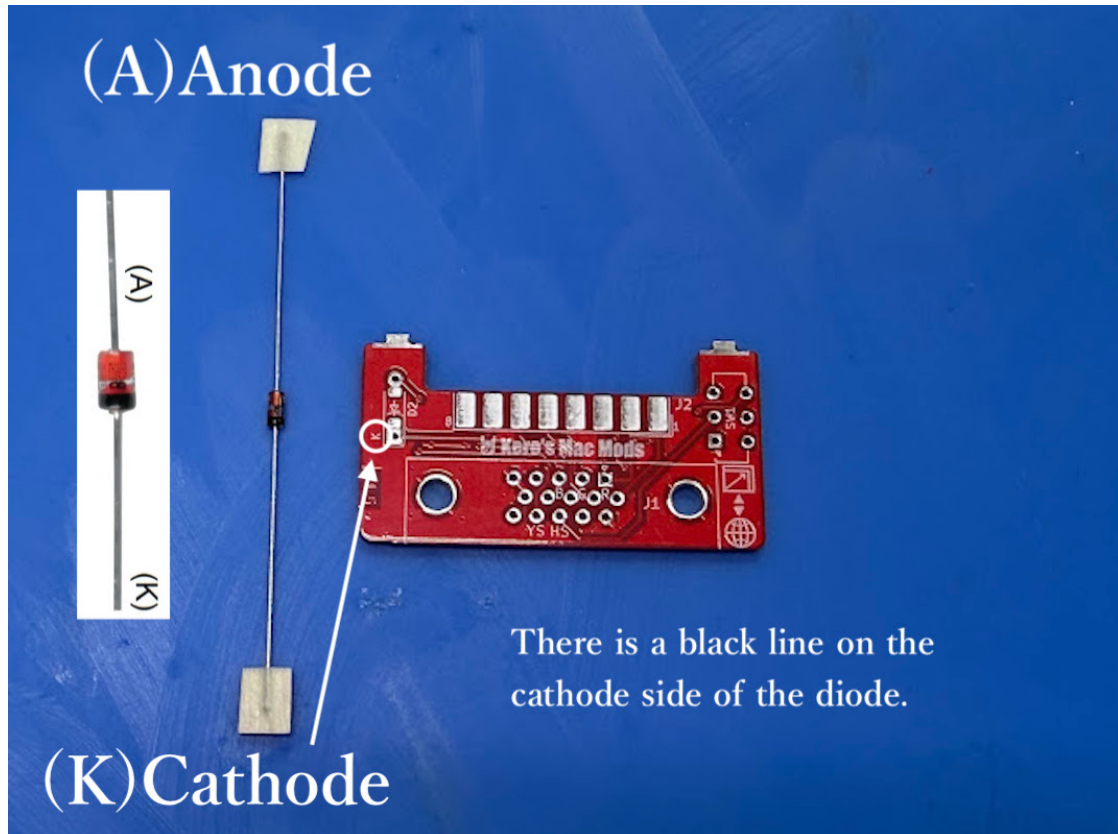
## Disclaimer

- This product is provided as a DIY kit. Assembly is at your own risk.
  - We are not responsible for any injuries that may occur during assembly or use.
  - We do not guarantee against damage to third-party equipment used in combination with this product.
  - Keep all parts away from small children to prevent accidental ingestion or injury.
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## Assembly Procedure

First, make sure you have all the parts and tools you need before you begin slowly.

## 1. Install the Diode (D2)

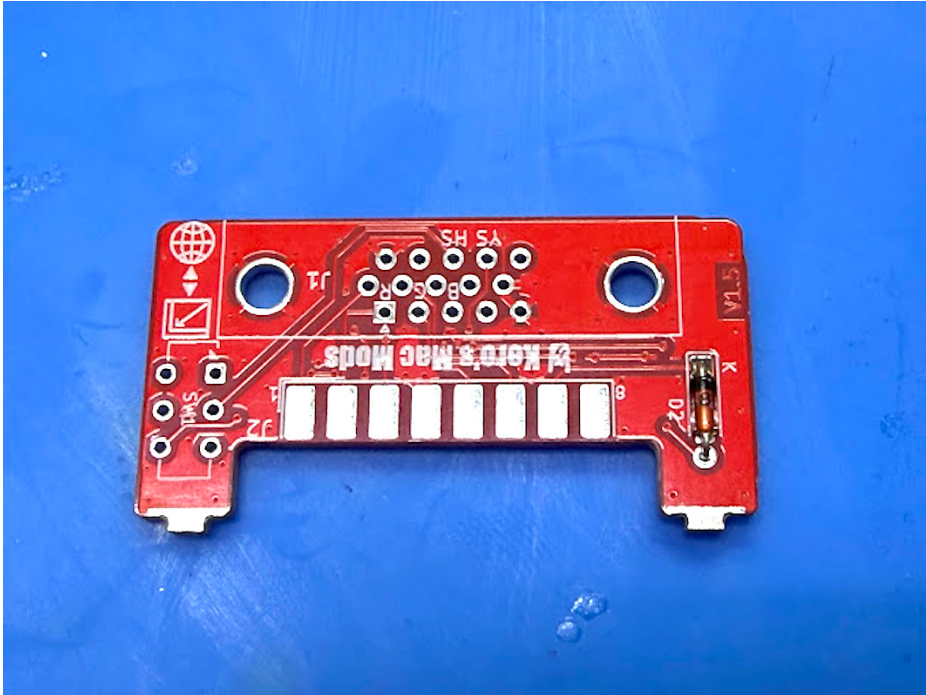
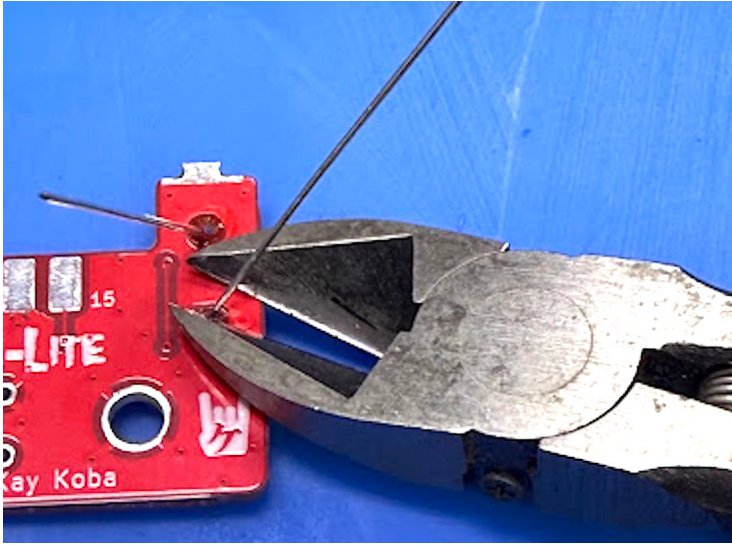


Install the 1N4148 diode at position **D2**. \*The PCB is designed to accommodate SMD diode, but the kit includes TH diode.

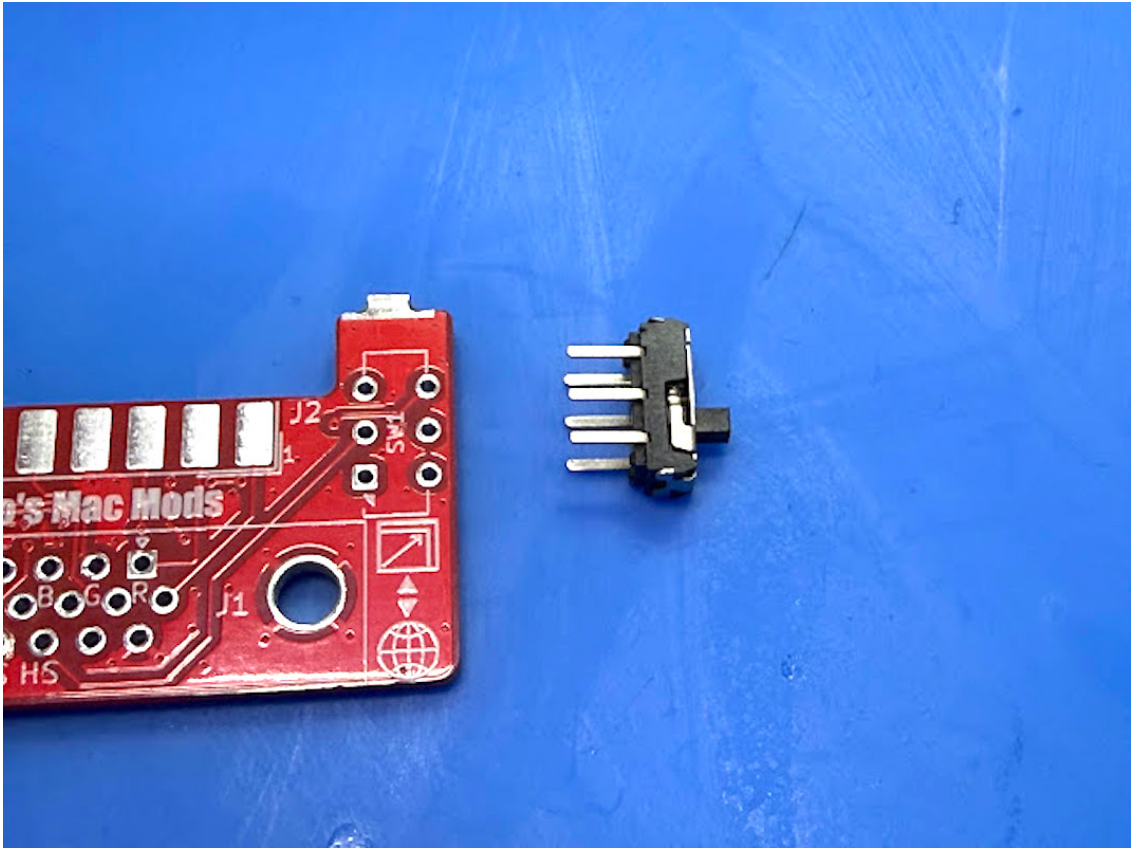
- The side marked with “**K**” indicates the **cathode**. Be sure to observe correct polarity.
- After soldering, trim the excess leads with wire cutters.

### Note:

If the diode is installed in reverse, the mode will change from **21” MultiScan Mode** to **16” MultiScan Mode**.

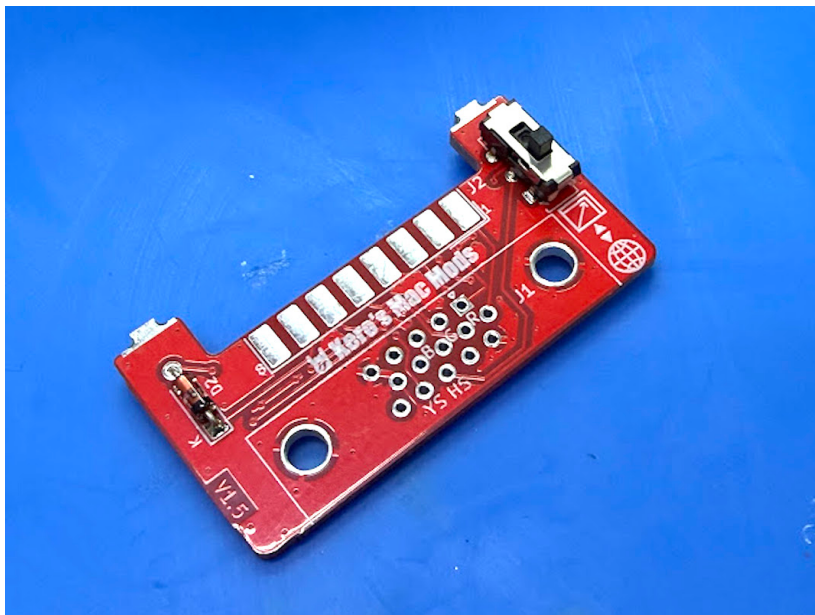
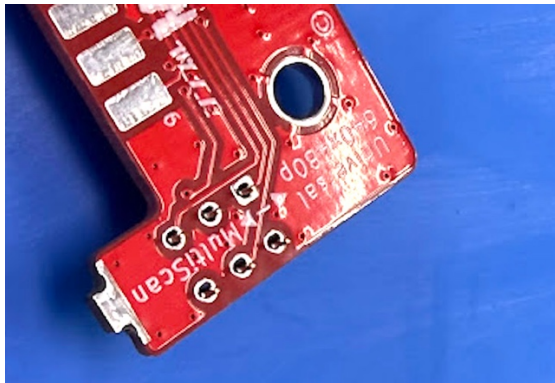


## 2. Install the Slide Switch (SW1)



Solder the 2P2T slide switch to position **SW1**.

- The physical design may vary slightly depending on orientation, but **there is no polarity**.



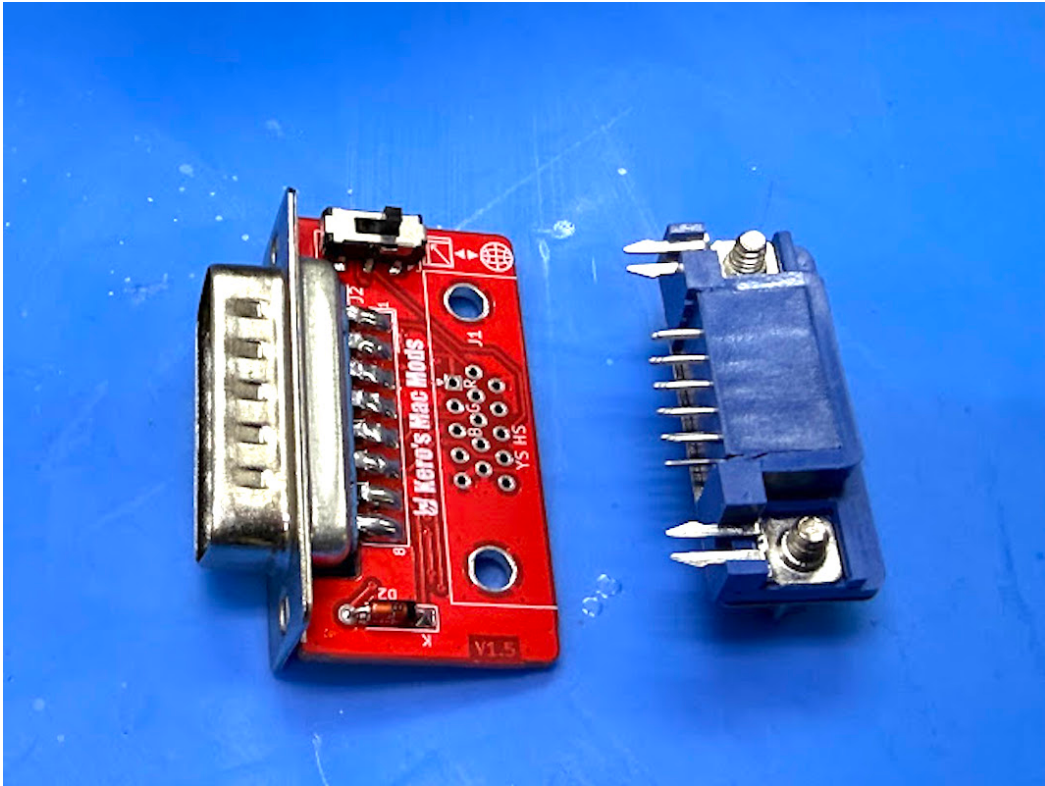
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- Soldering the connector's metal shield tabs is **optional**. It works perfectly fine without this task.



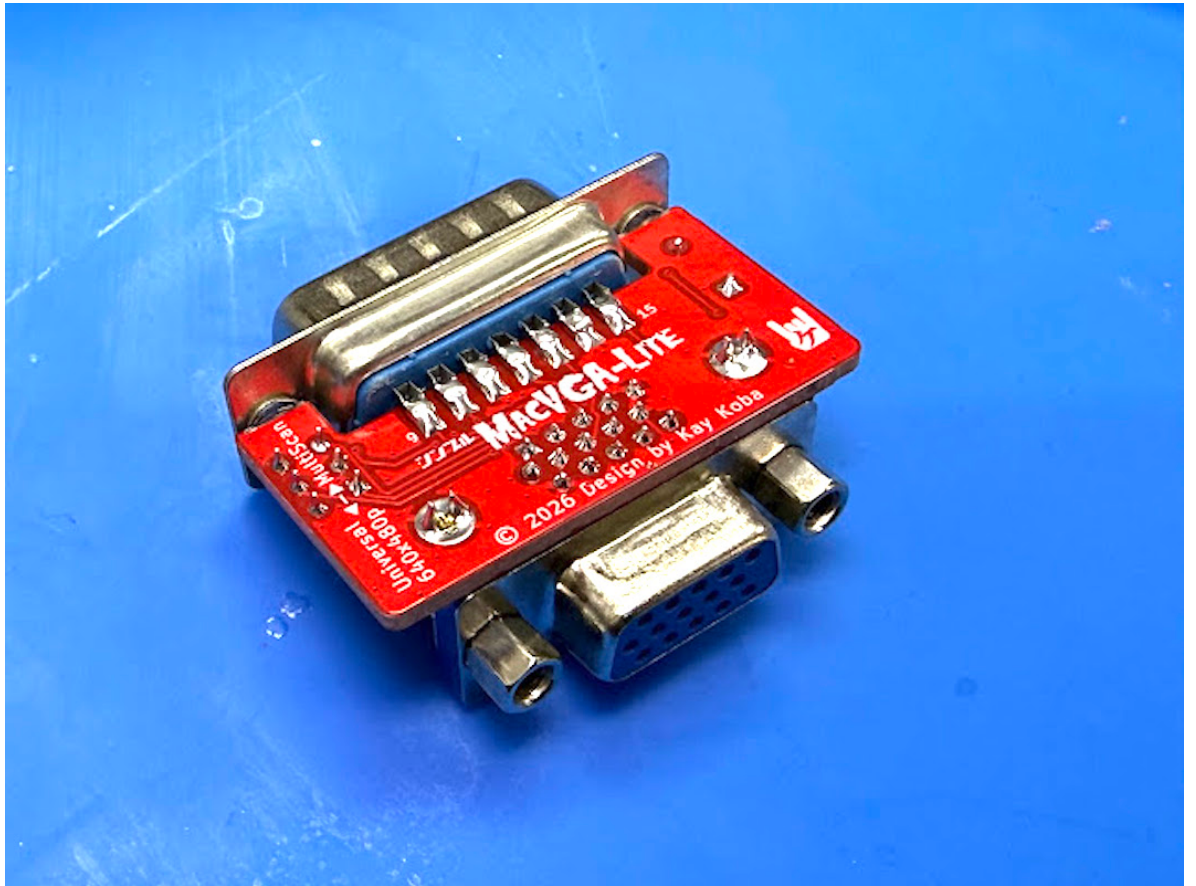
#### 4. Install the 3-row D-Sub 15 Female Connector

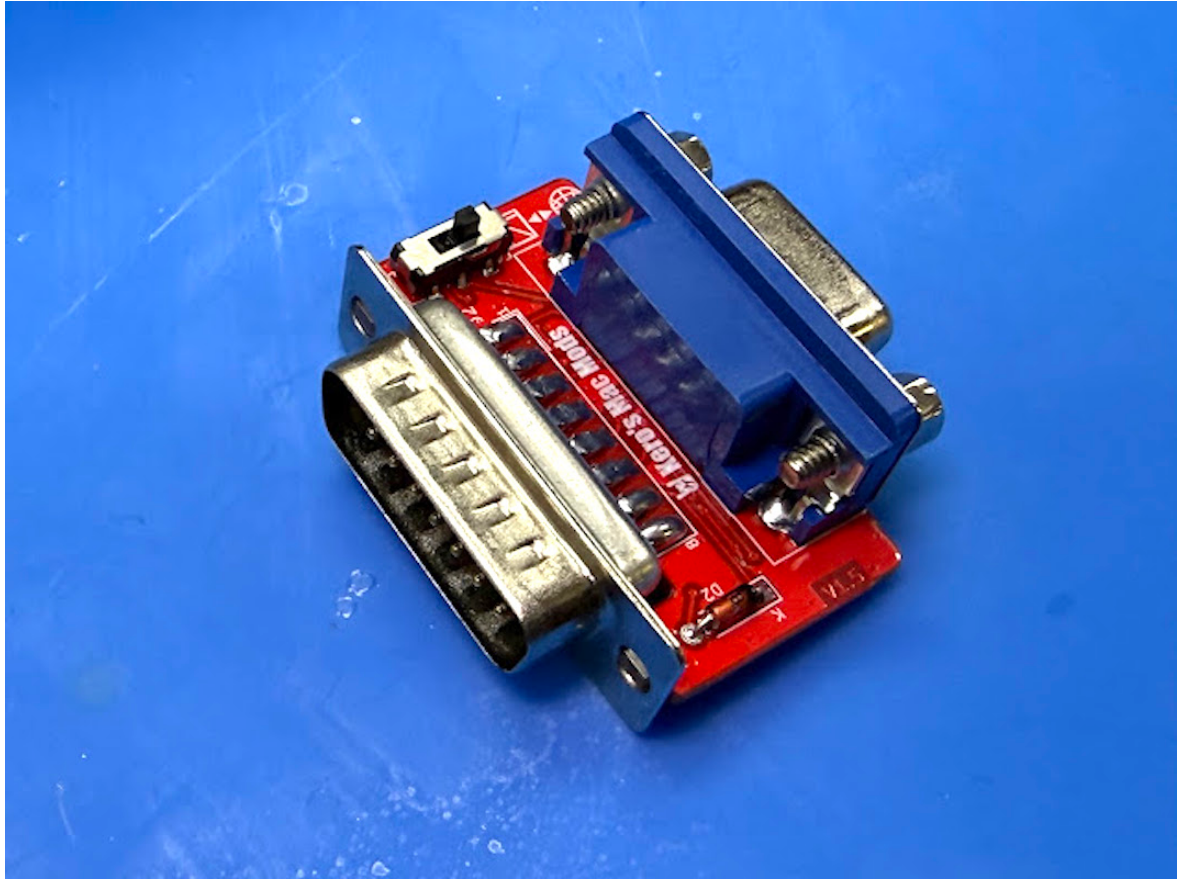


Finally, install the 3-row D-Sub 15 female connector.

- The pins are closely spaced, so **use flux** during soldering.

- Be careful to avoid **solder bridges** and **cold joints**.

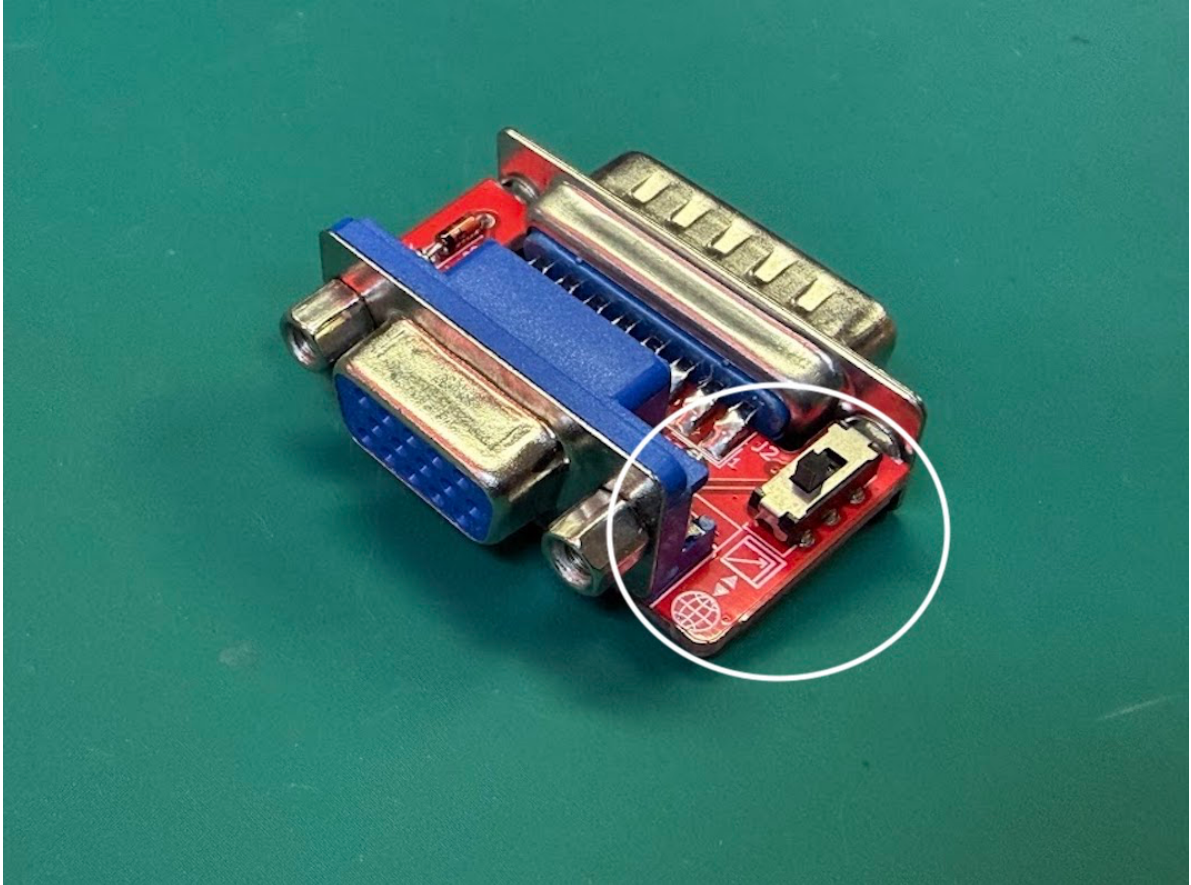




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# Usage Instructions

## Mode Switch



The mode switch selects the display mode:

- **VGA cable side (globe icon):**  
→ **Universal 640 × 480 Mode**
- **Mac side (display icon):**  
→ **MultiScan Mode**

**Important:**

- You will get video output in either mode.
- The mode must be set **before powering on the Macintosh.**

- **Do not switch modes while the system is powered on.**

\*Note: This adapter is designed primarily for **LCD displays**. While many CRT monitors may also work, compatibility can vary depending on the specific model.

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## Display Modes

- **Universal 640 × 480 Mode**  
Ensures display output on most older Macintosh models, such as the LC and LC II.
  - **MultiScan Mode**  
Based on Apple's official specifications, this mode corresponds to a **21" MultiScan display**, supporting resolutions from **640 × 480 up to 1152 × 870**.  
Compatible with later models, including Power Macintosh systems.
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