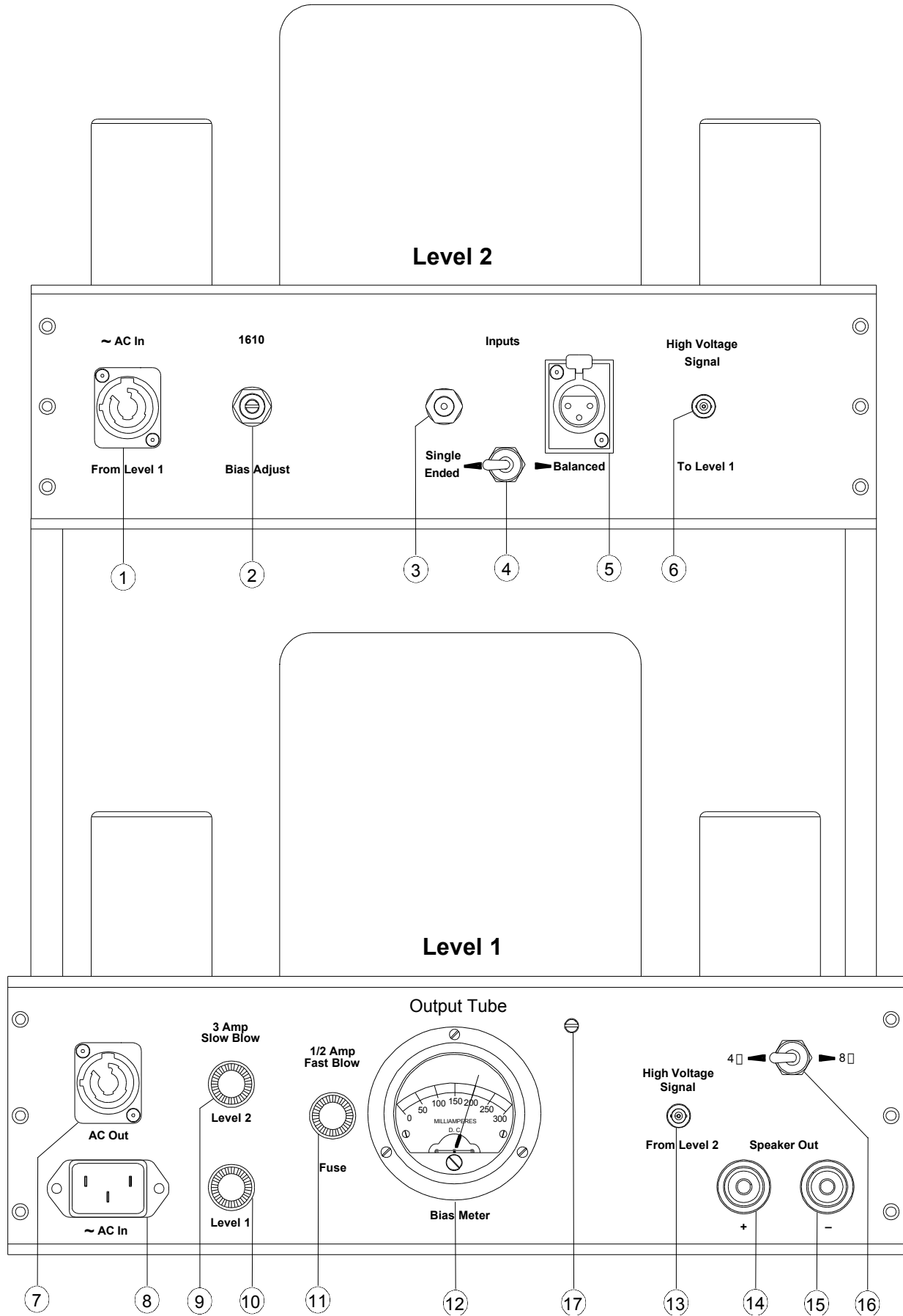


# Rear panel features

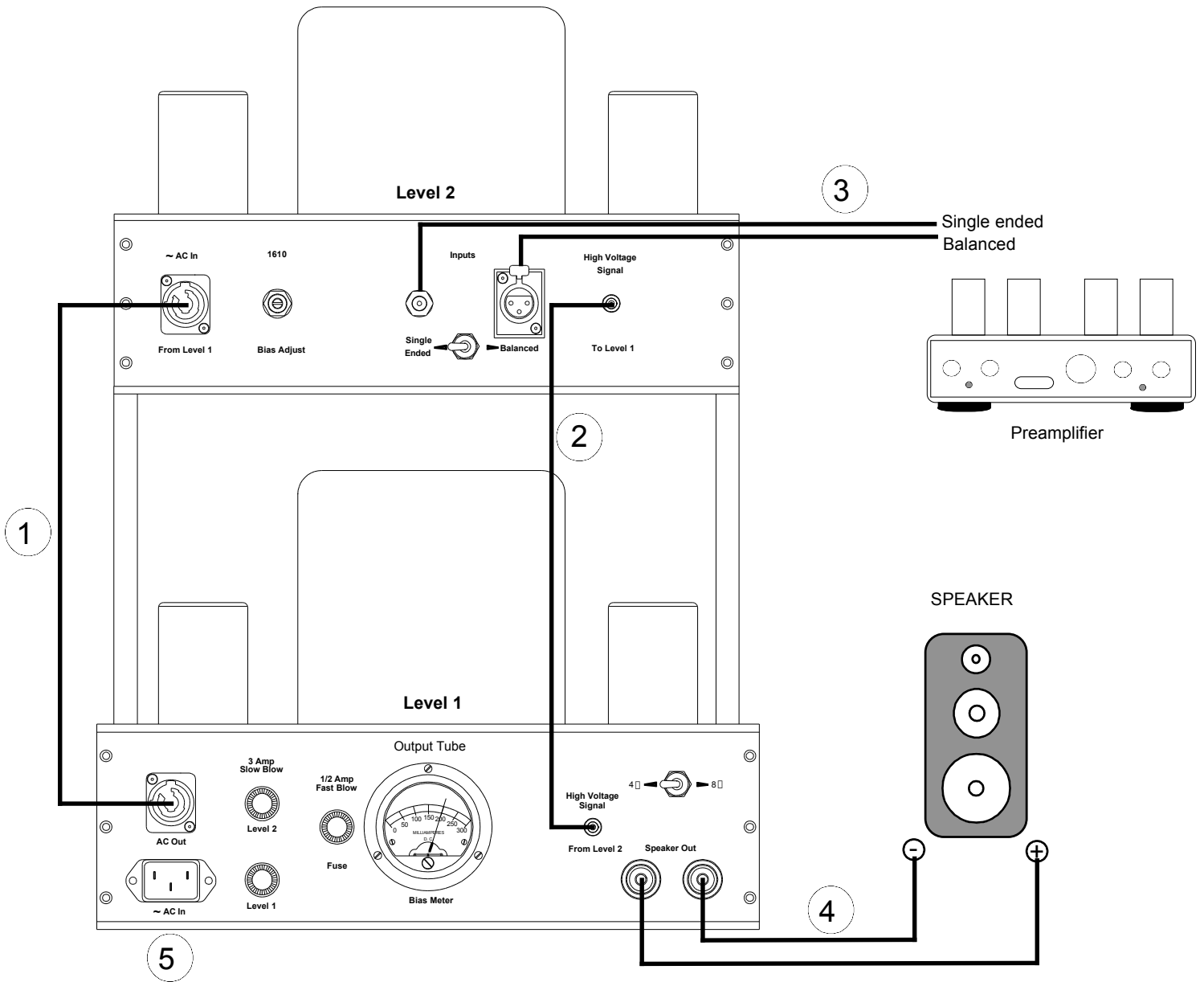


## Rear panel features

1. Powercon AC input for level 2 power.
2. 1610 tube bias adjustment control.
3. Single ended input RCA connector.
4. Single ended - Balanced toggle selector switch.
5. Balanced input XLR connector.
6. High voltage signal output to level 1.
7. Powercon AC output for level 2 power.
8. Main AC input for 1610 amplifier.
9. Level 2 AC fuse (slow blow); 3 amp @ 117 VAC, 1.5 amp @ 220/234 VAC.
10. Level 1 AC fuse (slow blow); 3 amp @ 117 VAC, 1.5 amp @ 220/234 VAC.
11. 1610 tube fuse (fast blow); 1/2 amp.
12. 1610 tube bias adjustment meter; set to 200mA.
13. High voltage signal input from level 2.
14. Positive speaker terminal.
15. Negative speaker terminal.
16. Speaker impedance toggle selector switch.
17. Adjustment potentiometer for eye tube intensity. Dimmer settings will prolong tube life.

## Initial Setup instructions

\*\*\* Make sure all front panel switches are in the OFF position before setting up amplifier \*\*\*

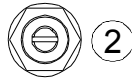


1. Insert either end of the Powercon Powerkord into level 1. Line up the keys, push in connector, turn until it locks into place. Insert other end into level 2.
2. Insert either end of the BNC connector into level 1. Line up the keys, push in the connector, and turn outer ring until it locks. Insert other end into level 2.
3. Connect either single-ended or balanced input to preamplifier. Set switch properly.
4. Connect speaker out to speaker. Select proper speaker impedance.
5. Connect main AC in to wall with power cord.

## Level 2

---

1610



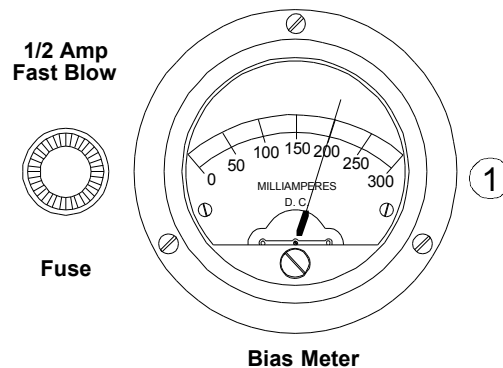
Bias Adjust

---

## Level 1

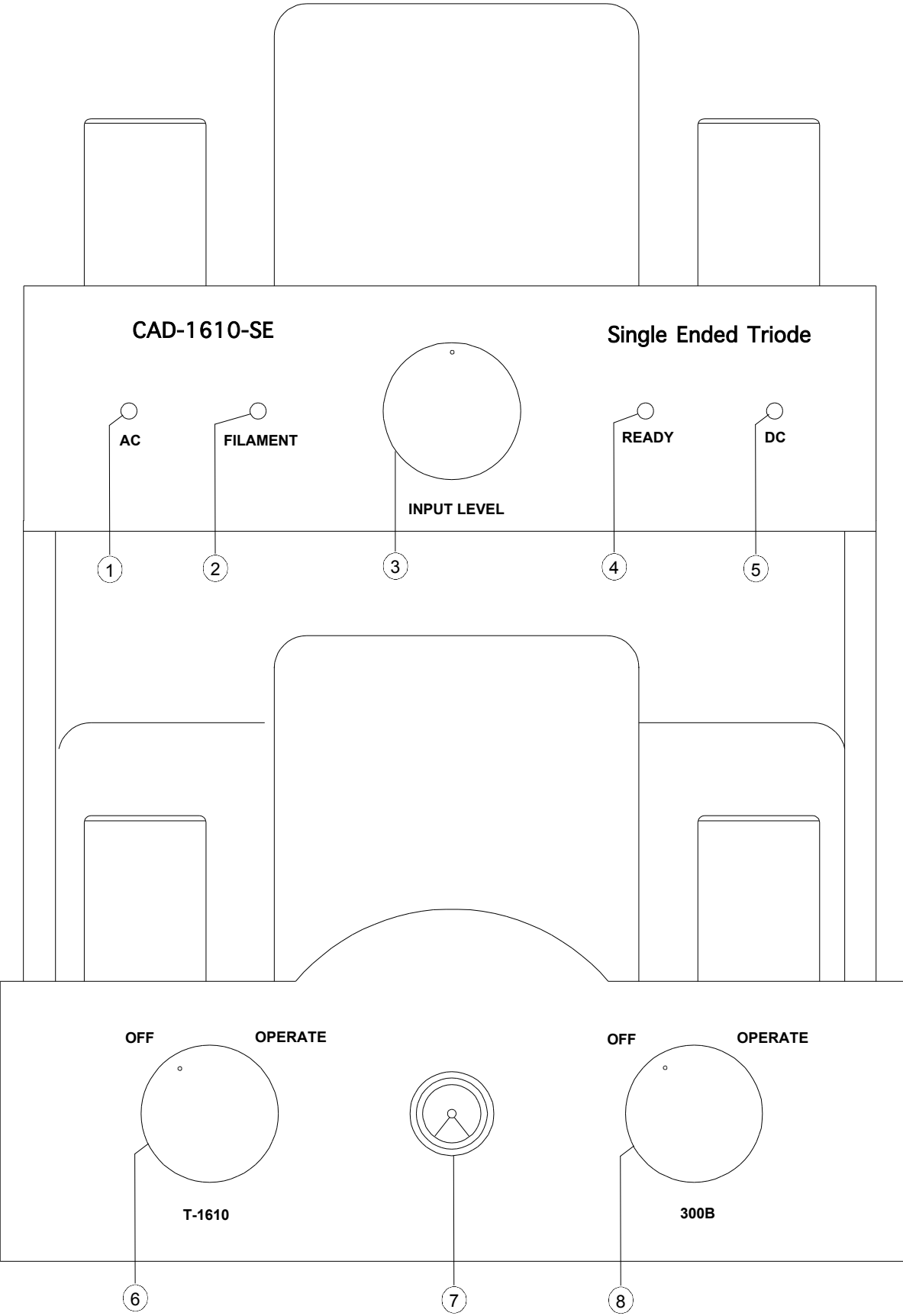
---

Output Tube



- 
1. After amplifier is turned on, check bias meter for reading of 200mA.
  2. Adjust bias potentiometer with screwdriver until meter reads 200mA. Readjust after amplifier has warmed up for 10 minutes.
- Failure to properly adjust 1610 bias can result in damage to the 1610 tube and the amplifier.
  - Bias should be checked periodically (every 6 months) and adjusted if needed.
  - Bias should be readjusted when installing replacement 1610 tubes.

Front panel features

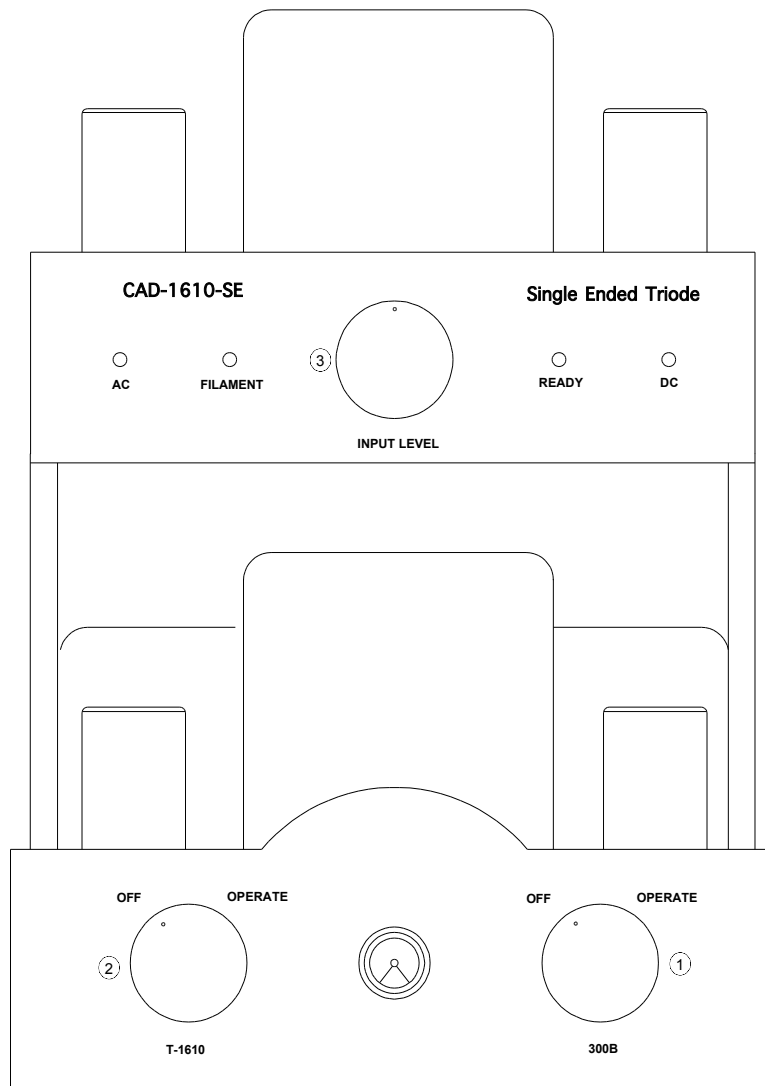


## Front panel features

1. AC LED; Shows that the AC voltage is on for level 2.
2. FILAMENT LED; Shows that the filament voltage is on for level 2.
3. INPUT LEVEL attenuator
4. READY LED; Shows that the 6BL7 is supplying bias voltage to the T-1610.
5. DC LED; Shows that the 300B has high voltage.
6. T-1610 power switch; turns on AC power to level 1.
7. Eye tube indicator shows that AC voltage is on for level 1, also indicates amplifier output power.
8. 300B power switch; turns on AC power to level 2.

## Amplifier turn on Procedures

\*\*\* Failure to follow these instructions can result in loud popping from speakers \*\*\*  
\*\*\* Make sure tubes are properly installed prior to turning on amplifier \*\*\*

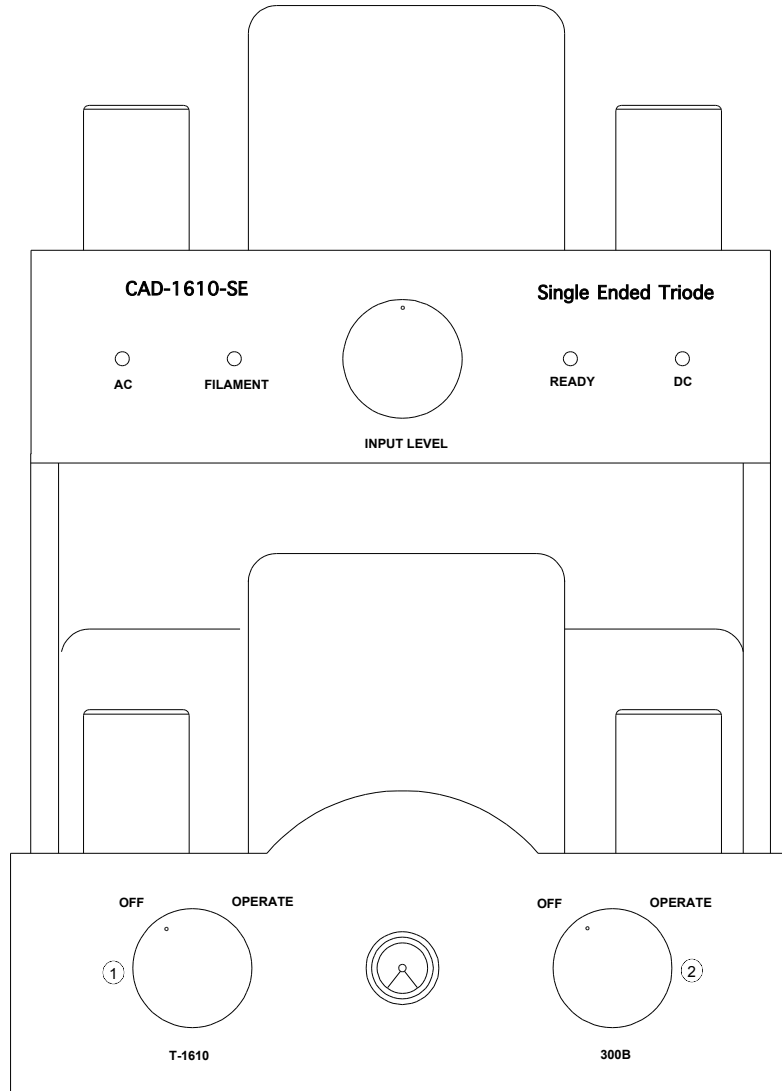


1. Turn 300B switch to the OPERATE position.
    - AC and FILAMENT LEDs will light.
    - READY and DC LEDs will light.
  2. After READY and DC LEDs are lit (15 - 30 seconds when cool), Turn T-1610 switch to the OPERATE position.
    - Eye tube indicator will light.
  3. Adjust volume to desired level. If using a pre-amplifier, volume control should be adjusted fully
- fully

## Amplifier turn off Procedures

\*\*\* Failure to follow these instructions can result in loud popping from speakers \*\*\*

\*\*\* Always make sure amplifier is off before making any changes to rear panel \*\*\*

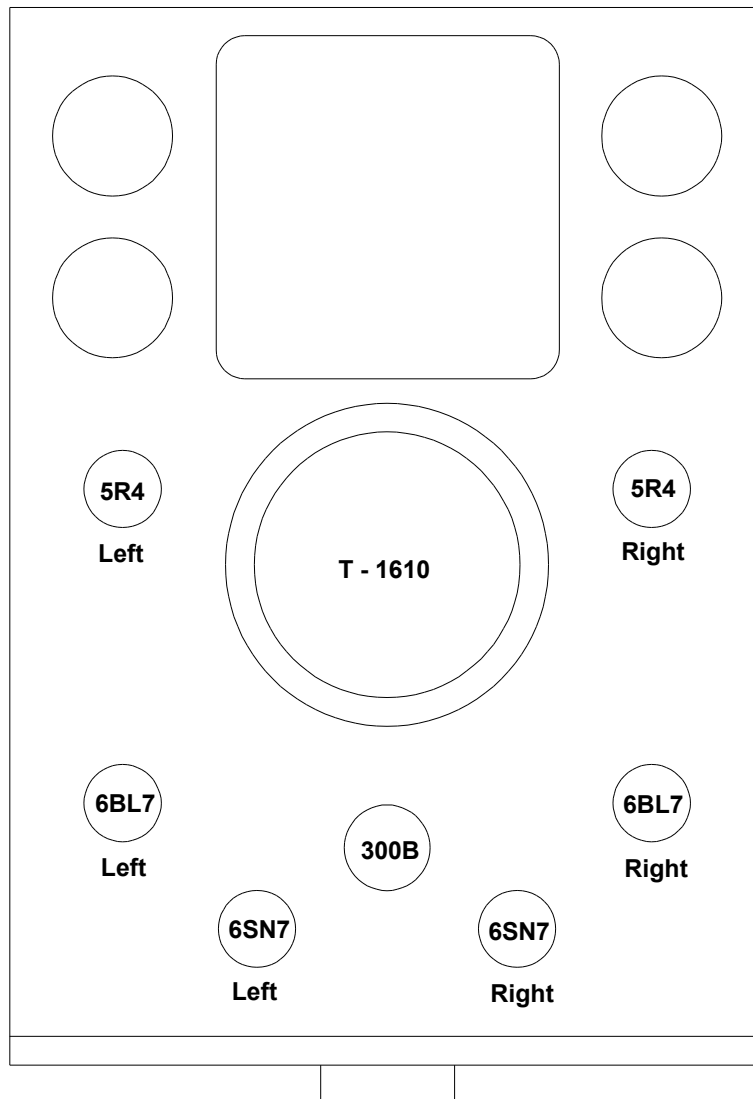


1. Turn T-1610 switch to the OFF position.
2. After 15 to 30 seconds, Turn 300B switch to the OFF position.



## Level 2 Tube Placement

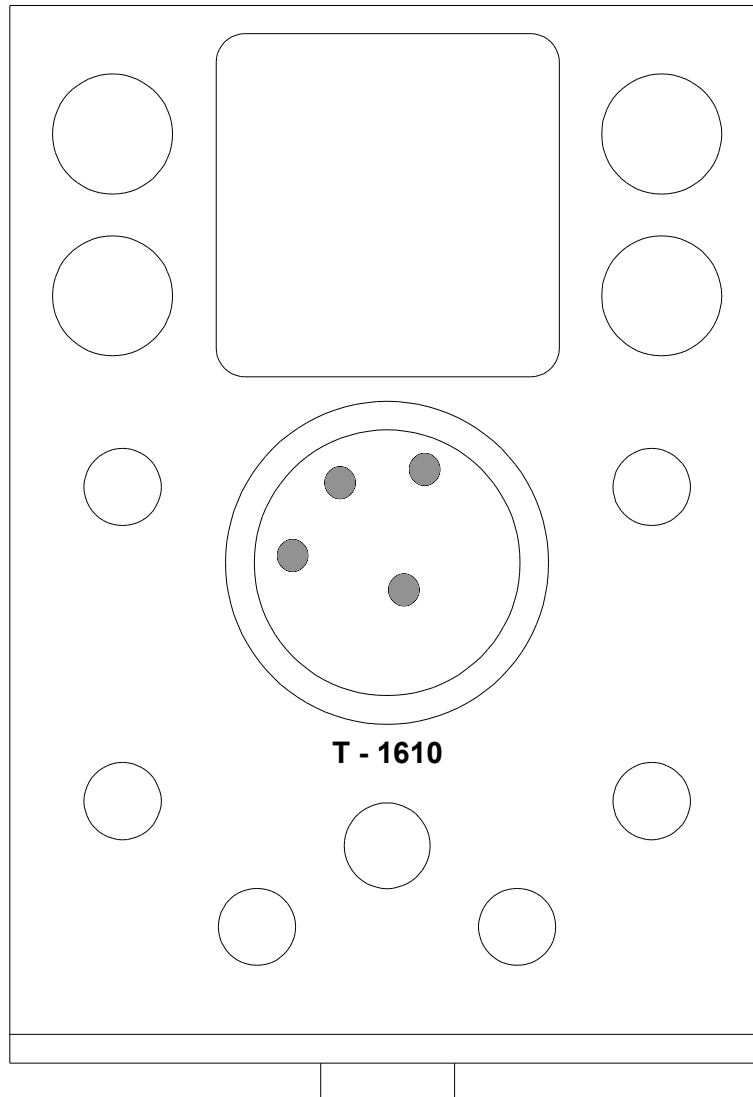
\*\*\* Make sure amplifier is off before installing tubes \*\*\*



- Insert tubes as shown being careful to align tubes key-ways properly
- The 300B driver tube should be inserted into the socket with the LARGE pins oriented towards the front of the amplifier.
- Failure to properly insert the tubes properly can result in poor sound quality and damage to the tubes and the amplifier.

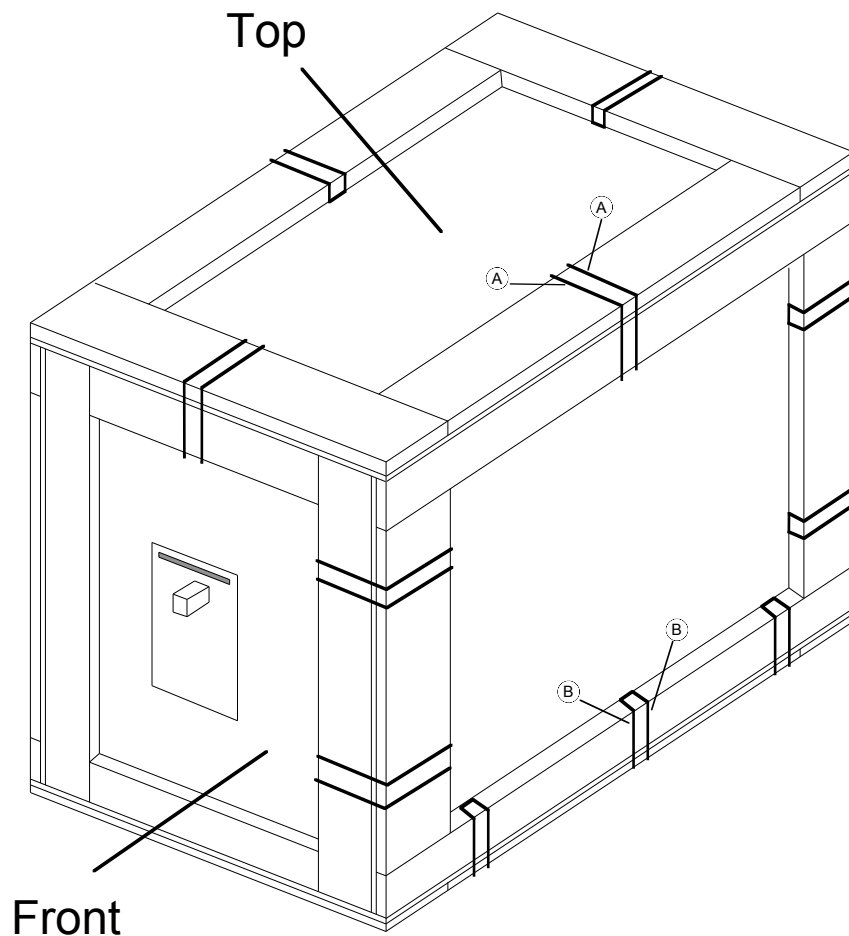
## Level 1 Tube Placement

\*\*\* Make sure amplifier is off before installing tubes \*\*\*



- Hold T-1610 tube firmly in both hands above the top of the amplifier
- Rotate the tube so that the pins are aligned with the holes on the tube socket
- Slowly lower the tube through the hole in level 2
- When the tube emerges from the bottom of level 2, while keeping a firm grasp on the tube with one hand, move the other hand in between the amplifier levels and grab hold of the tube.
- Continue lowering the tube gently until it makes contact with the socket on level 1.
- By touch, guide the pins of the tube into the holes on the tube socket.
- Firmly and Carefully press the tube down into the socket.

## 1610 crate unpacking



1. Remove top of crate.
  - Insert two flat blade screwdrivers or similar prying object under both sides of Klimp connectors (points A).
  - Pry up and then pull back.
  - Remove all four connectors holding on the top of the crate.
  - Lift off crate top.
2. Remove front of crate.
  - Insert two flat blade screwdrivers or similar prying object under both sides of Klimp connectors (points B).
  - Pry up and then pull back.
  - Remove all seven connectors holding on the front of the crate.
  - pull away crate front.
3. Using two people, carefully slide 1610 out from the front of the crate.
  - To re-pack, reverse the steps. When re-attaching Klimp connectors, place the end that was pried (points A and B) on the lip of the crate and press the other end down. This may require significant force.