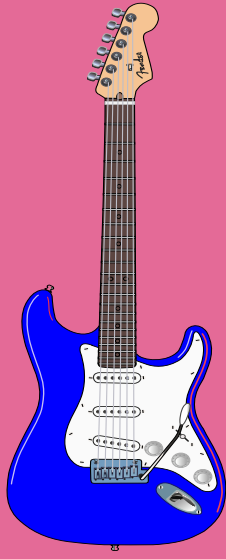


GUITAR AMPLIFICATION SYSTEM

HOW IT CAME TO BE

- In 1936, Jazz Guitarist Charlie Christian put a pickup on his acoustic guitar and hooked it up to a 10 watt speaker.
- This spread widely among jazz musicians.
- In 1949, Leo Fender created the first 50 watt guitar amp.
- In the 60s, guitarists started pushing amps to their limits to create distortion.

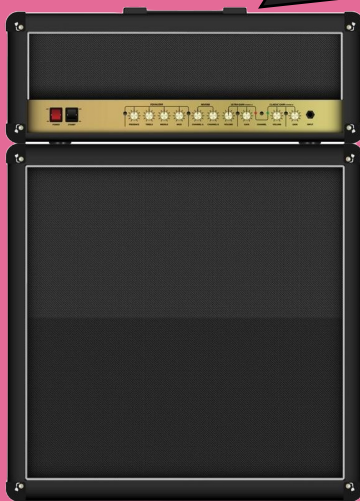


HOW PICKUPS WORK

- Guitar pickups are made with electromagnets attached to coils.
- When a guitar's metal string vibrates past the pickup, it creates an electric current.
- It is then connected to a wire that sends the current to the amplifier.

HOW AMPLIFIERS WORK

- Preamp controls the gain, volume, treble, bass, and other things.
- The power amp receives the signal from the pre amp and makes it larger and louder.
- The speaker turns the signal into audible sound so we can hear it.



IMPACTS AND INNOVATIONS

At this point, we hear electric guitars in basically every type of music from rock, to rap, to jazz, pop, gospel, you name it. Acoustic guitars are fun to play and have a nice sound, but electric guitars are louder so they can be heard better in a performance. They also have sounds and settings that you can't get from an acoustic guitar. After creating the guitar amplification system, they were then able to make the electric bass, electric drums, electric violin, some people have even hooked saxophones up to amplifiers.

