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THE ELECTRIC GUITAR

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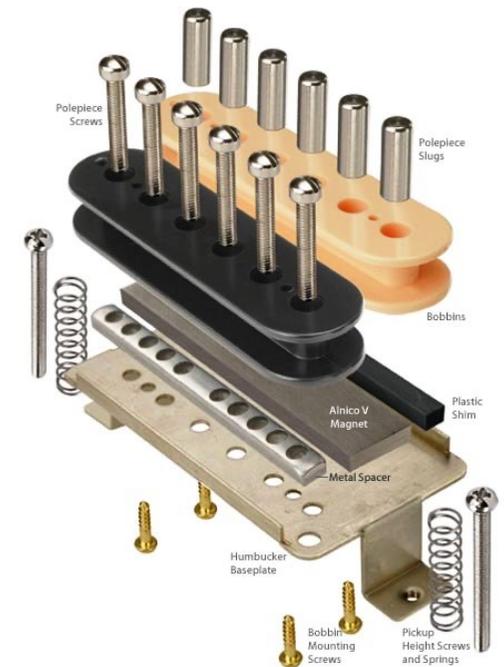
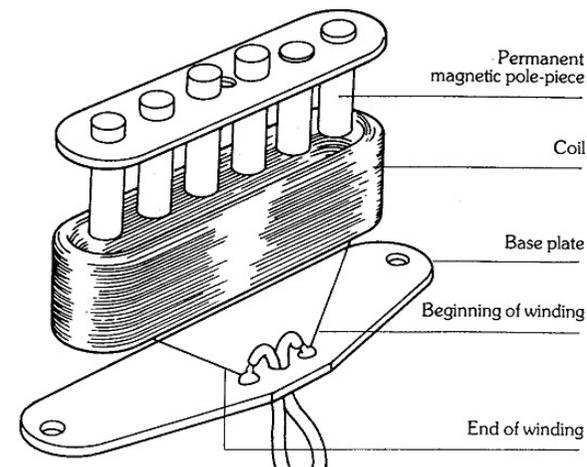
Construction and Development

- The electric guitar began development in the 1930s
 - Early guitarists would attach **pickups** to **arch top** guitars so that they could be heard in the context of a big band
- In the early 1950s, Fender released the Telecaster and Stratocaster guitars
- This invention was one of the driving forces behind many genres of music



Pickups

- Similarly to a microphone, a guitar pickup is a **transducer**
- The two main types of pickup are **single-coil** and **humbucker**
- Single-coil pickups produce a brighter tone but are susceptible to **interference and hum**
- Humbucker pickups are **less susceptible** to interference and hum



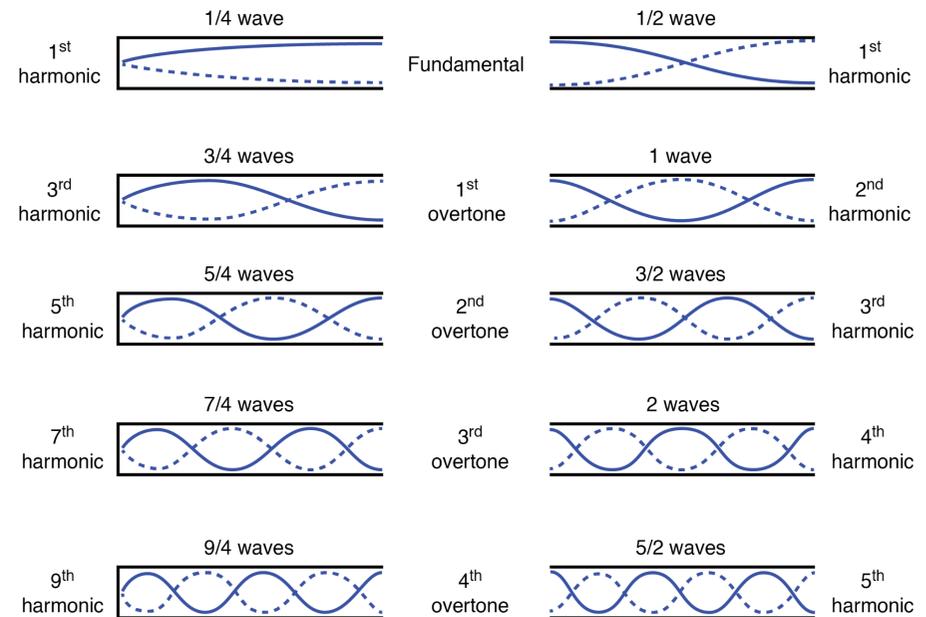
The Tremolo Arm

- The tremolo arm lets the player slightly change the pitch of the strings
- Locking nut and Floyd Rose tremolo systems were introduced to help reduce the tuning problems associated with using the tremolo arm



Guitar Harmonics

- Harmonics occur naturally when an oscillation occurs on a string or tube
- Higher harmonics can be isolated to change the timbre of the note





Guitar Pedals