Microphones

How they work...

Microphone Architecture

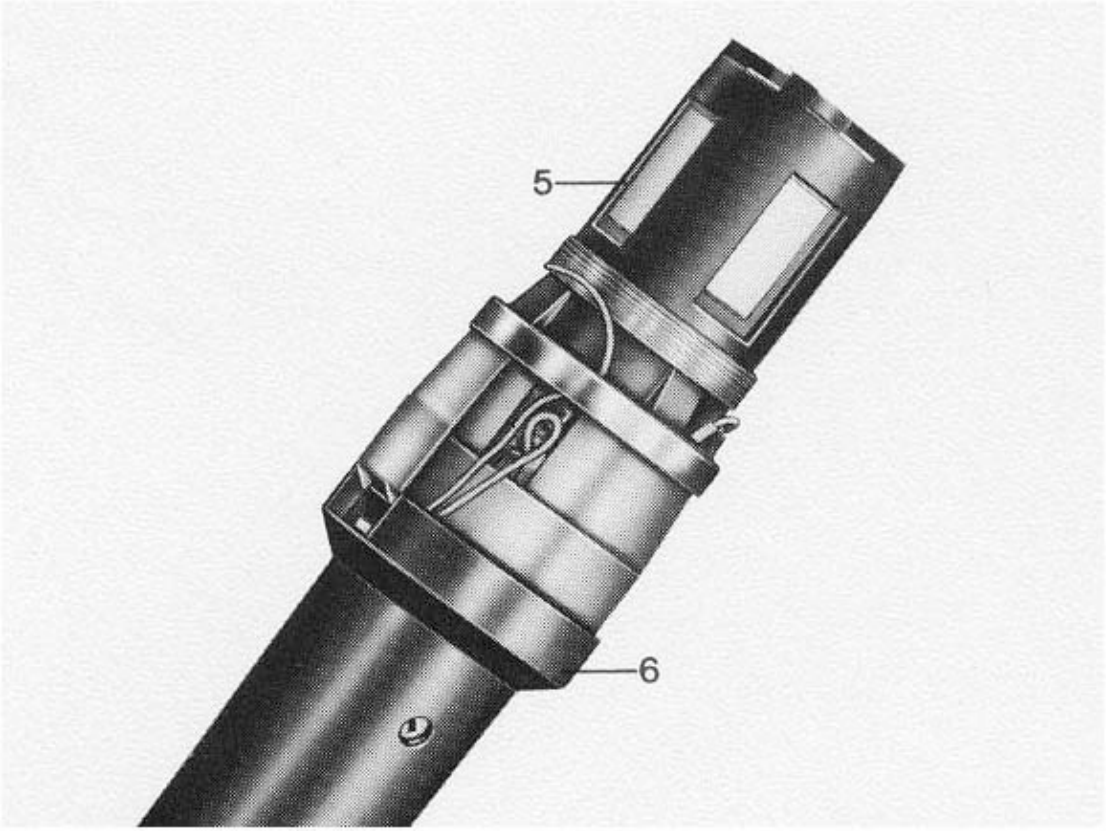
- Diaphragm
- Transducer
- Casing

Microphone Diaphragm

- Picks up sound vibration from the air

Microphone Transducer

- Converts vibration of diaphragm into an electronic signal



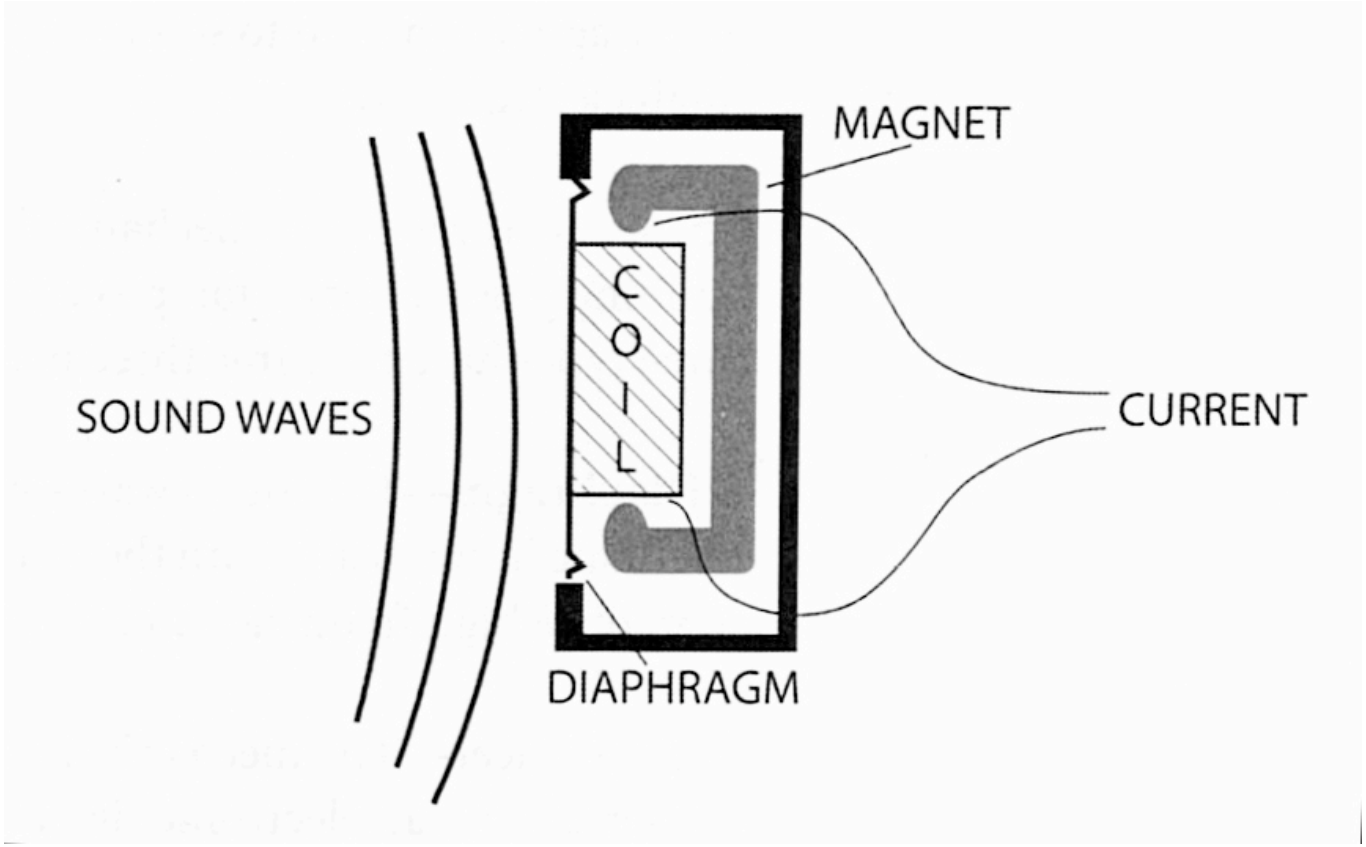
Microphone Casing

- Houses microphone components and helps control directional response

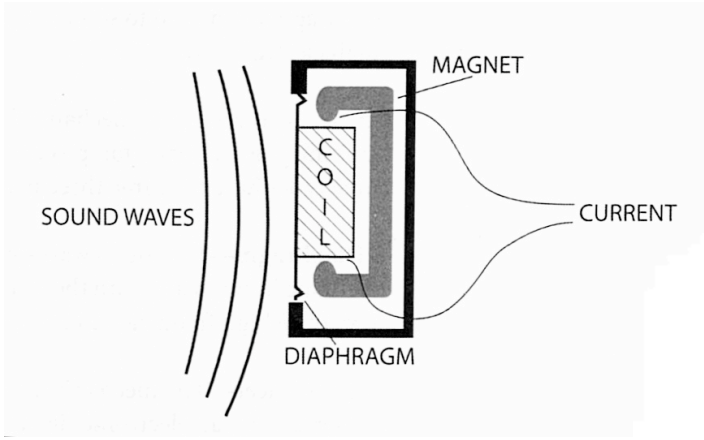
Microphone Types

- Dynamic
- Ribbon
- Condenser

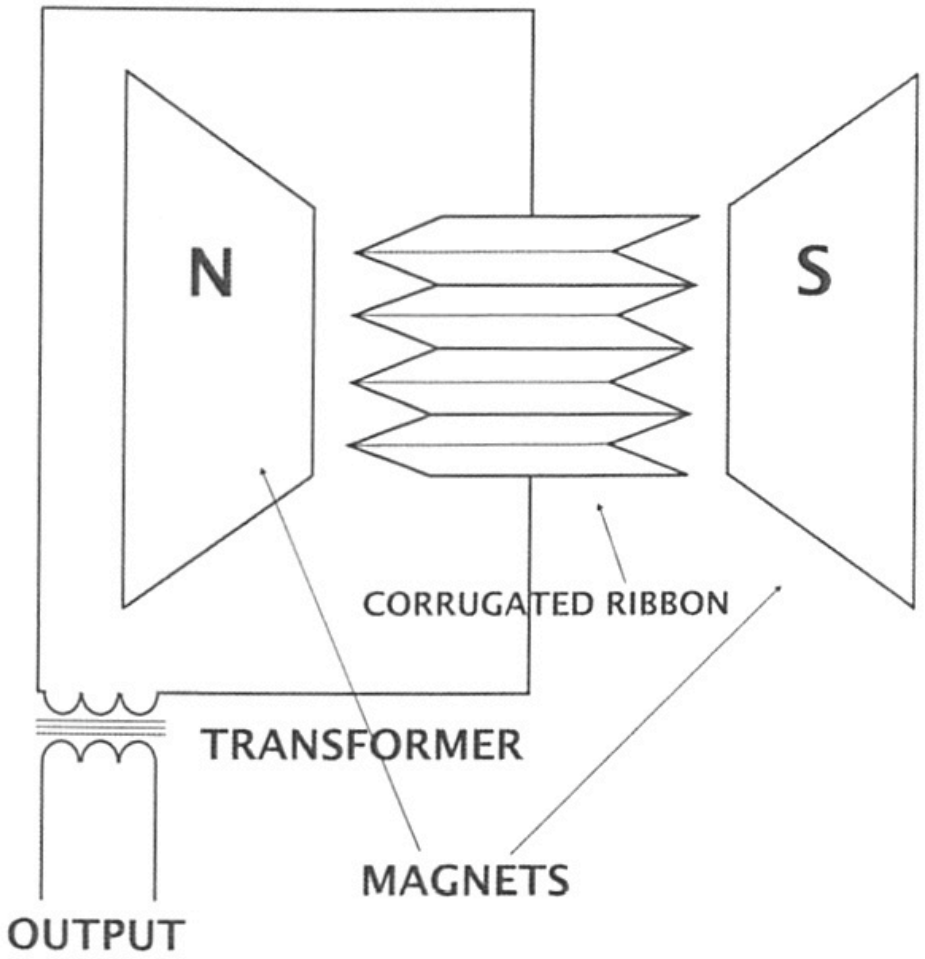
Dynamic Microphone

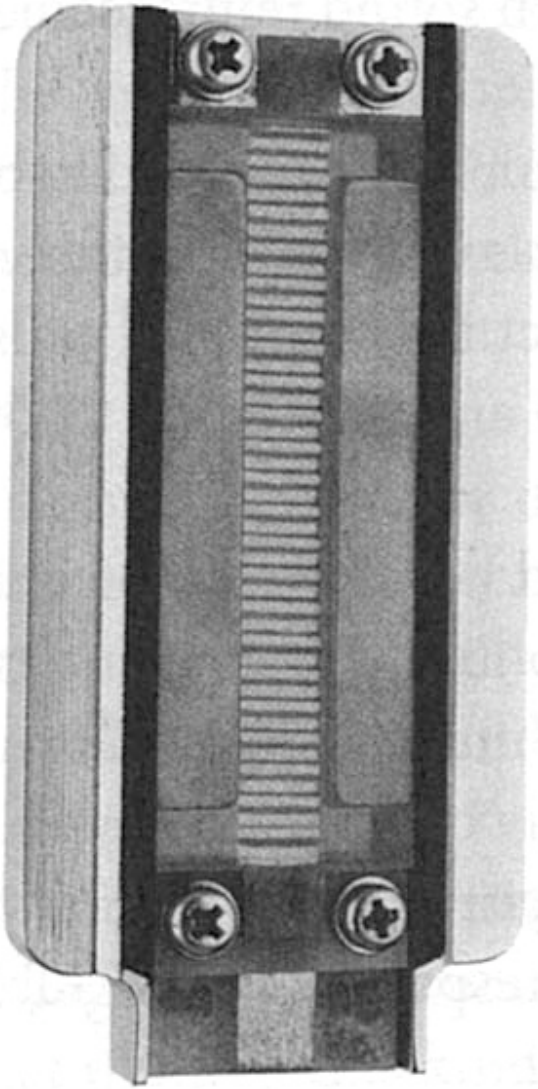


Dynamic Microphone

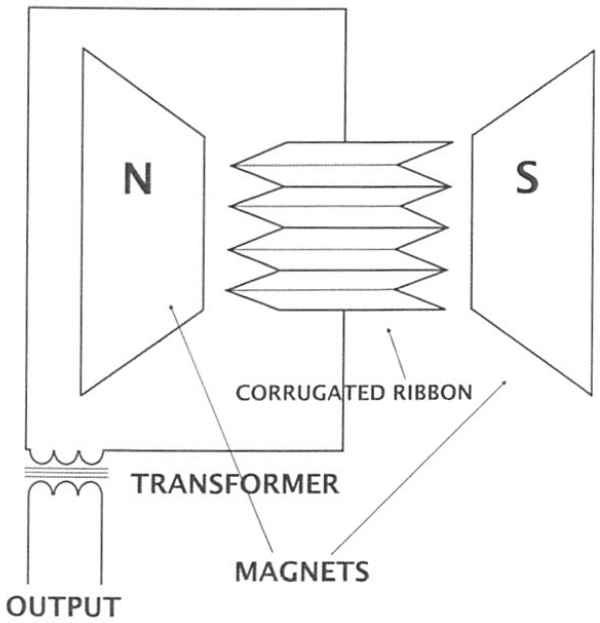


Ribbon Microphone

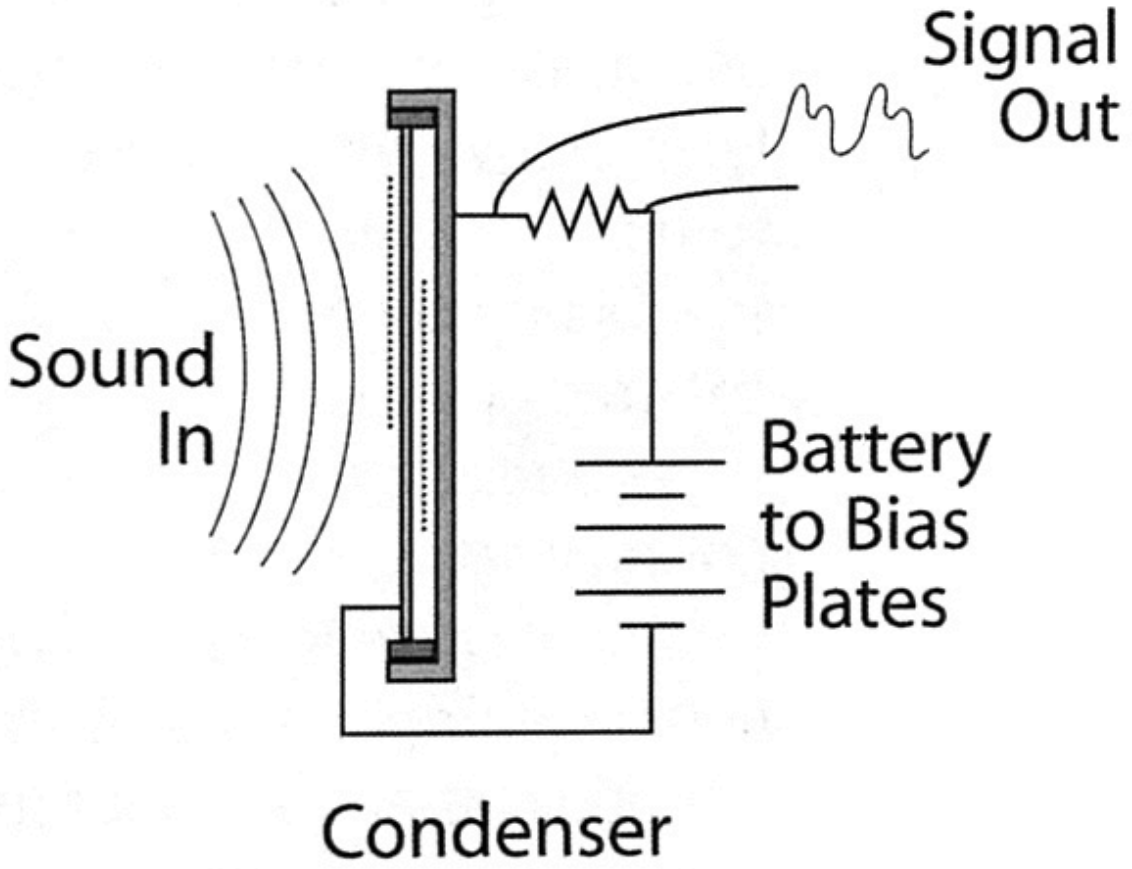




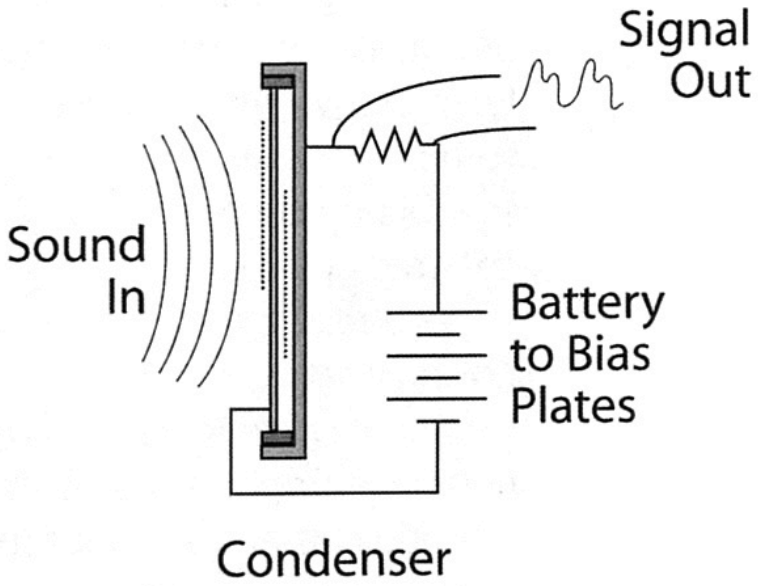
Ribbon Microphone



Condenser Microphone



Condenser Microphone



Microphone Pickup Patterns

- Omni
- Figure 8
- Cardioid
- Hypercardioid

Omni Pickup Pattern

- 360° Pickup Field

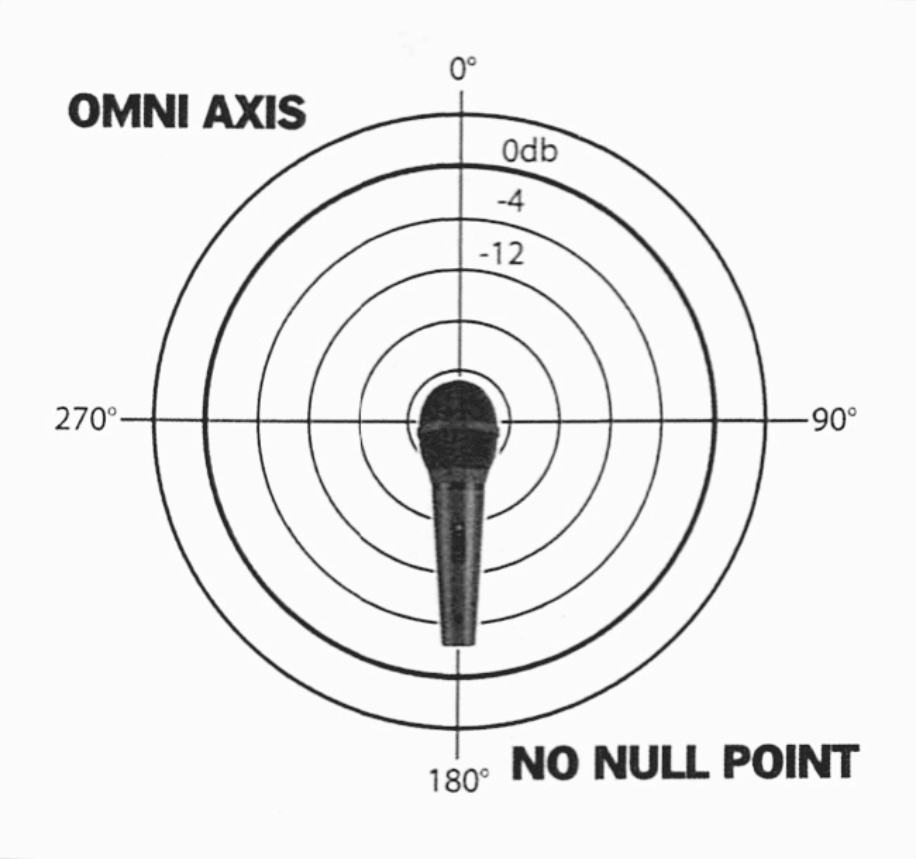
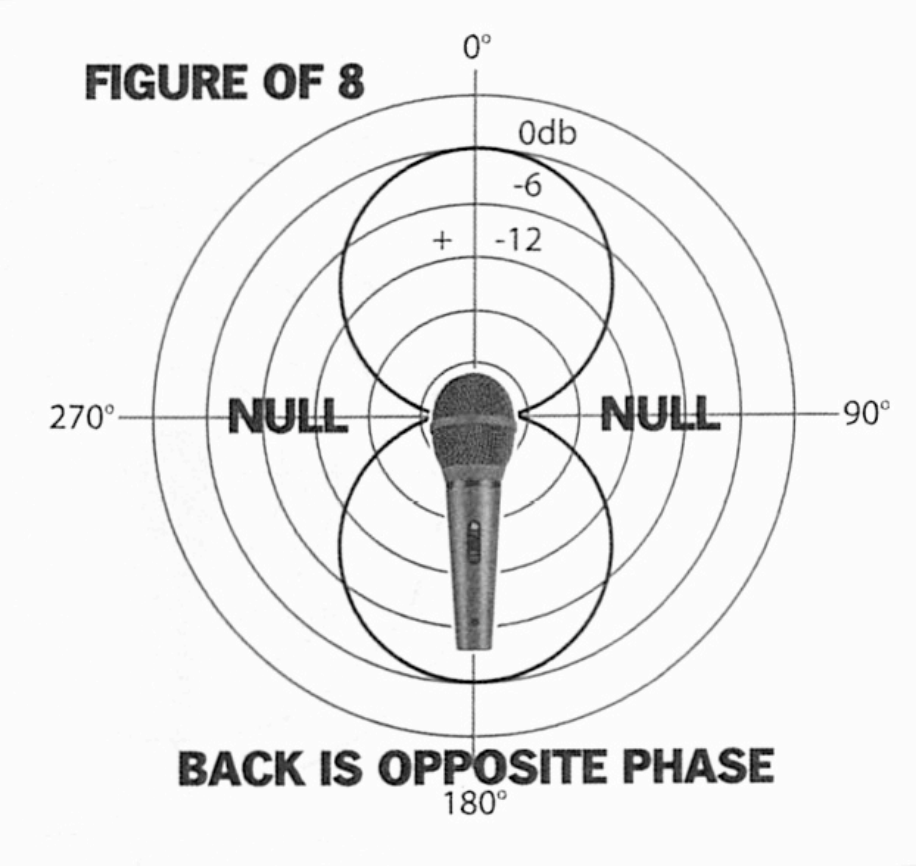


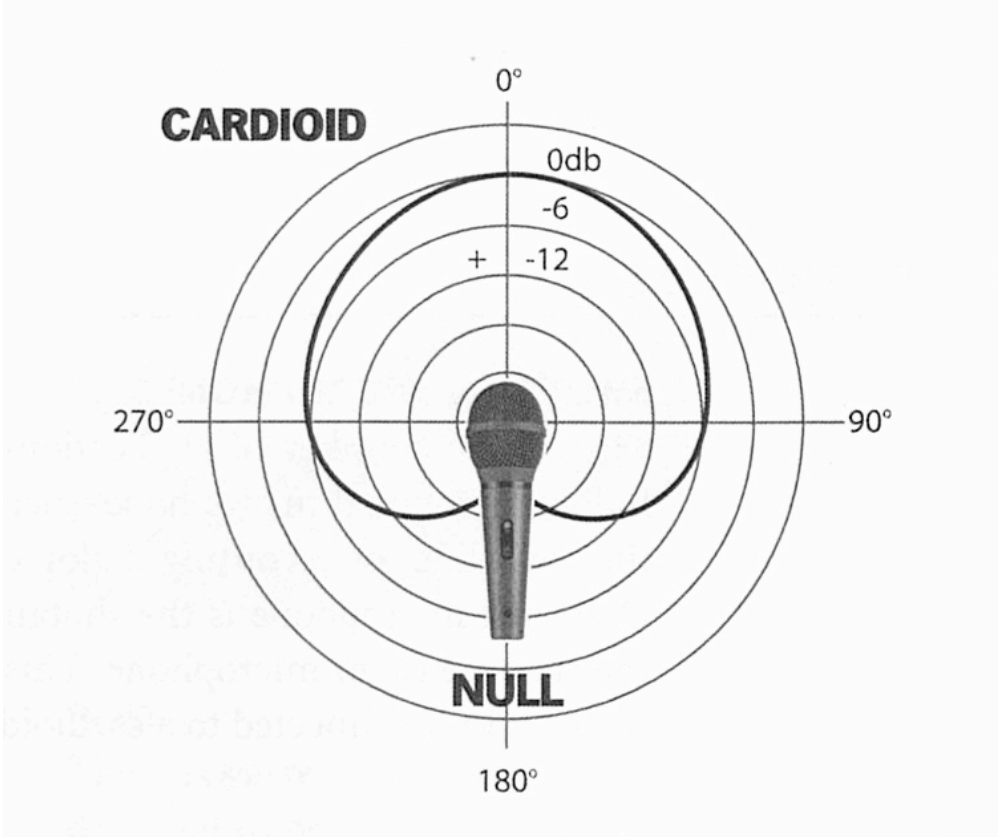
Figure 8 Pickup Pattern

- Opposing null points



Cardioid Pickup Pattern

- Broad frontal pattern



Hypercardioid Pattern

- Narrow frontal pattern