Microphone & Speaker Placement to Avoid Feedback

Feedback is caused when a microphone picks up the sound from a speaker and that sound is fed back through the speakers in a loop. Feedback is most likely to occur when a microphone is in front of the loudspeaker. You can reduce the likelihood of feedback by placing the speakers ahead, toward the audience, of the microphone.
Microphone & Speaker Placement to Avoid Feedback

1 - Sound travels from speaker to microphone

2 - Sound is fed back to speakers from microphone

3 - Sound loops continuously causing feedback
Microphone & Speaker Placement to Avoid Feedback

1 - Sound travels from speaker to audience

2 – When mic is behind speaker it cannot pick up sound – No Feedback!

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