

# For MOSQUE P.A. System

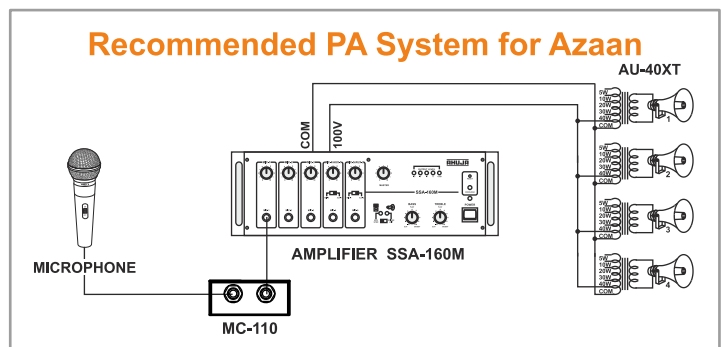
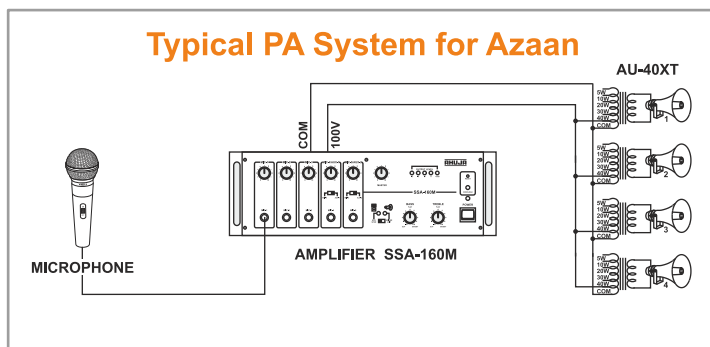


**Reduces possibility of damage to driver units / speakers by ensuring clean undistorted signal input to amplifier from microphone.**

- Operates on AC Mains Adaptor provided or on 9V battery.
- Easy operation through one ON/OFF switch.
- Automatic bypass of MC-110 in case of power supply failure.
- Low Battery indication.
- Suitable for use with best quality mics due to wide frequency response and low distortion.
- Compact Size (160x35x75mm) and Light Weight (370gms)

## Application of Microphone Compressor MC-110 for Mosque P.A. System

The PA system in a mosque for azaan typically comprises of horn speakers (combination of Ahuja reflex horn **WFB** and driver unit **AU-40XT**) mounted outdoor typically on minarets with an amplifier and a microphone dedicated for azaan.



During the call to the faithful for prayer or azaan, the sound level of speech of a muezzin or muadhhdhin varies to a very great extent and generally goes to very high sound level. Microphone input of amplifiers cannot handle this extra ordinary large variation of sound or such high sound level signals.

This high sound level of azaan overloads the microphone input stage thereby clipping and distorting the sound at input stage of the amplifier itself. This distortion not only affects the quality of sound, making it sound harsh, but **also results in damage to driver units / speakers** since during the clipped, distorted portion of speech, the movement of voice coil becomes erratic and jerky leading to snapping of voice coil wire.

The distorted sound being fed to driver units / speakers is one of the causes of failure of diaphragms / speakers. The other causes for failure of driver units / speakers could be ingress of water inside the driver units, incorrect connections, overloading etc.

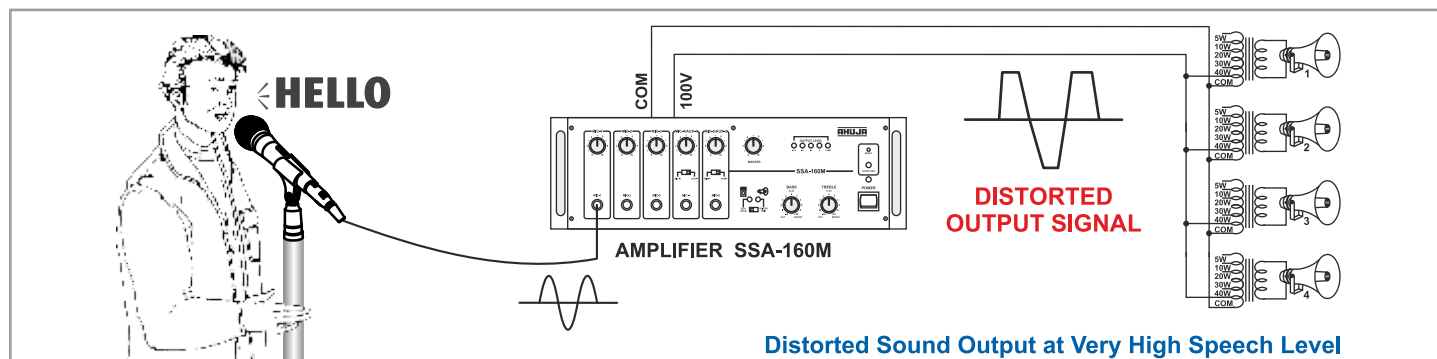
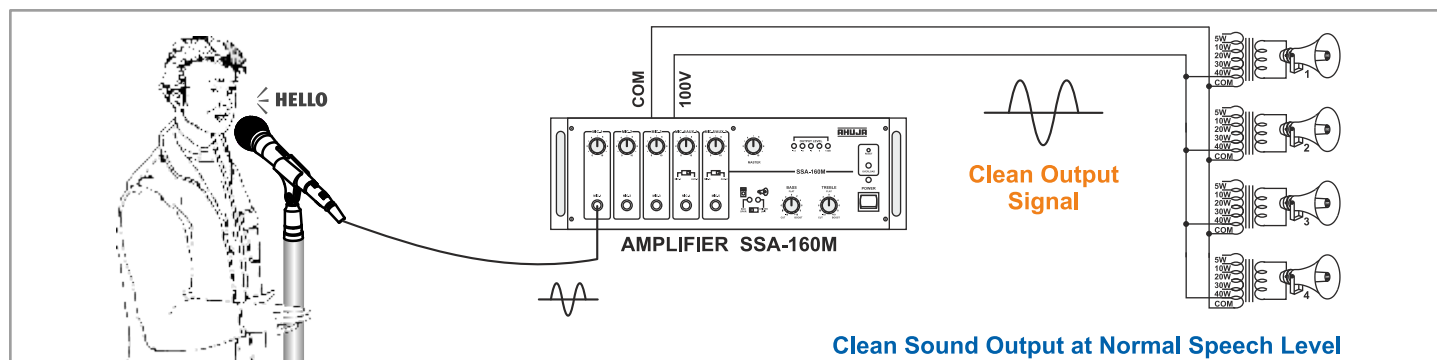
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## WITHOUT Microphone Compressor MC-110



To take care of above problem of distorted sound, there is need for a device that will control the dynamic range of speech sound signal so that it remains within permissible range of microphone input of amplifiers thereby avoiding distortion of input sound signal.

Ahuja **Mic Compressor MC-110** has been specially designed to let the sound input signal from microphone pass as it is to the amplifier however when it encounters a very high level sound input signal such as during azaan, it compresses the dynamic range so that sound signal level remains within permissible limits of the microphone inputs of amplifier and does not get distorted.

## WITH Microphone Compressor MC-110

In the sound system of mosque for azaan the **Mic Compressor MC-110** can be inserted between the microphone and mic input of the amplifier as shown in the diagram below.

Very high level sound signal from microphone during azaan will be compressed to the acceptable level of mic input stage of amplifier thus avoiding any distortion and providing clean signal which will be amplified and fed to horn speakers.

This clean and undistorted signal will cause less stress to voice coil of driver unit and thus reduce the risk of failure.

