

DENON

DENON ELECTRONICS (U S A), LLC.

Specifications and Setup Procedure for Non-DENON Microphone Use for AVR-3805 Auto Setup and Room EQ Function

Required Microphone Specifications for DENON Auto-Setup and Room EQ

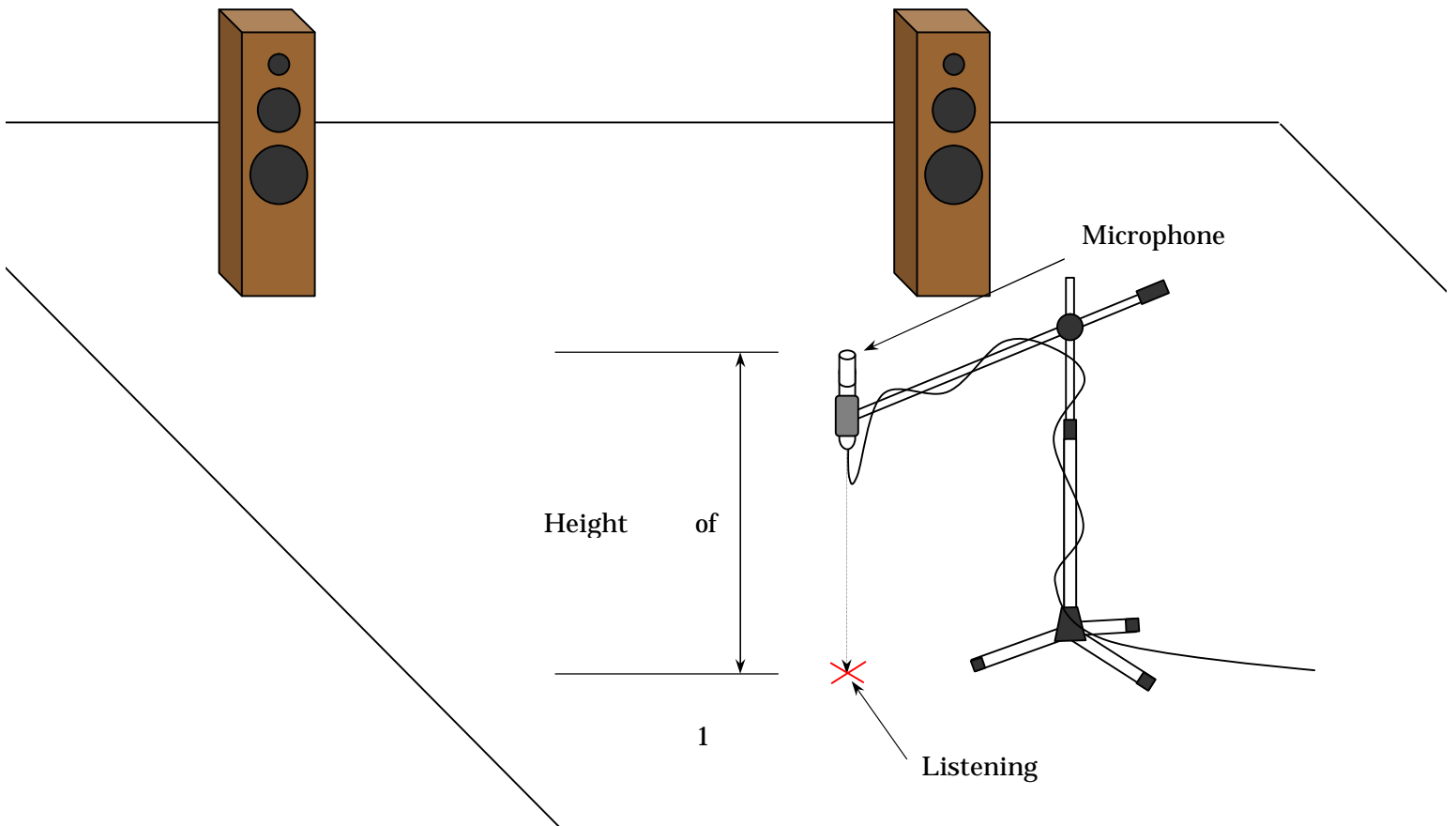
- Element : Electric Condenser Microphone
- Polar Pattern : Omni-directional
- Sensitivity : -40 dBV (0dB = 1V/1Pa)
- Frequency Response : 20-20kHz Flat Response (Ex: BEHRINGER ECM-8000)

Required Microphone Amplifier Specification for DENON Auto-Setup Room EQ

- Gain : 29 dB
- Frequency Response : 10-30kHz Full Flat

Microphone Placement

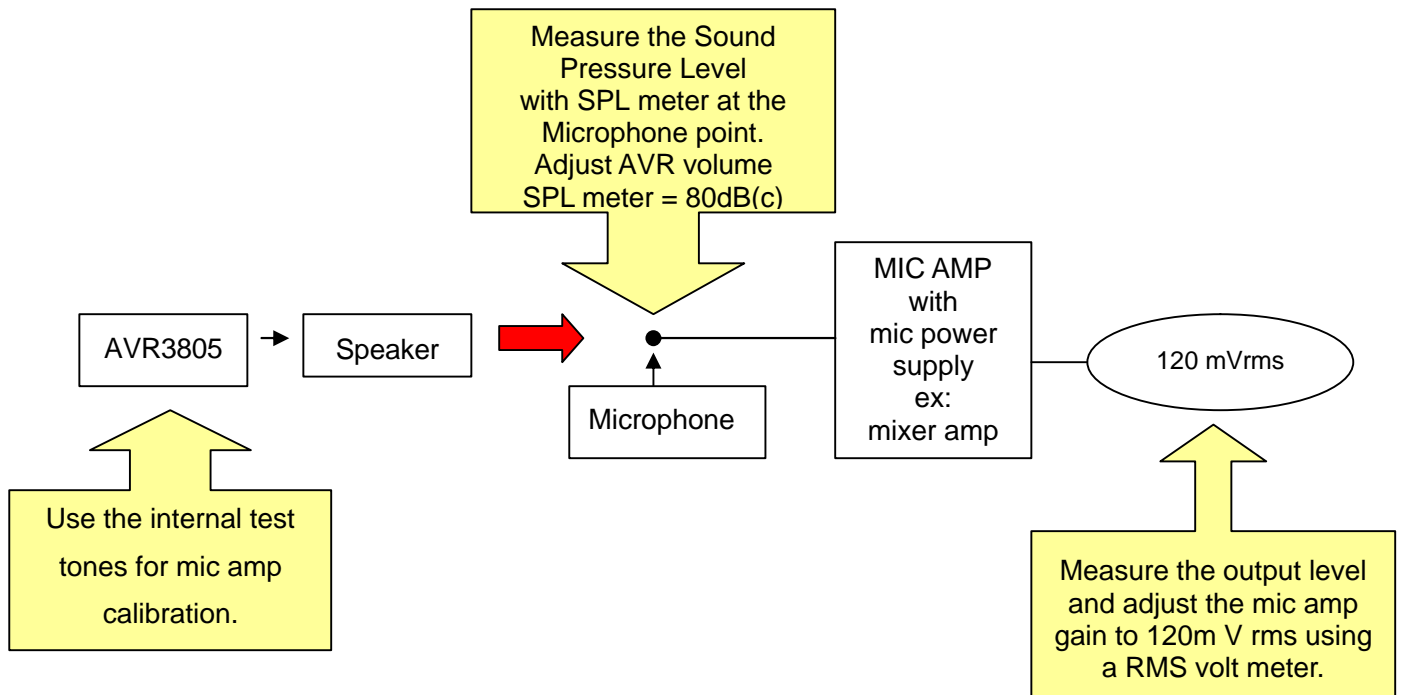
- Set the microphone using a microphone stand, or other method, at the prime listening point
- Point the top of the microphone toward the ceiling
- Adjust the height so that the top of microphone to matches the height of your ear when sitting



Microphone Amplifier Gain Setting using Sound Level Meter and RMS Volt Meter

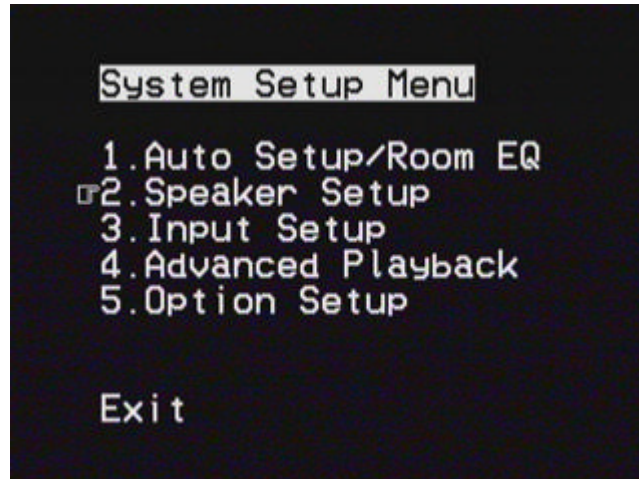
First you will need to adjust the “microphone amplifier gain”.

- Connect all the speakers and the video monitor (for the on-screen display) with the AVR-3805
- Connect the microphone with the microphone amplifier
- Turn on the AVR-3805 and the “microphone amplifier”
- Turn on the “Phantom Supply” on the microphone amplifier

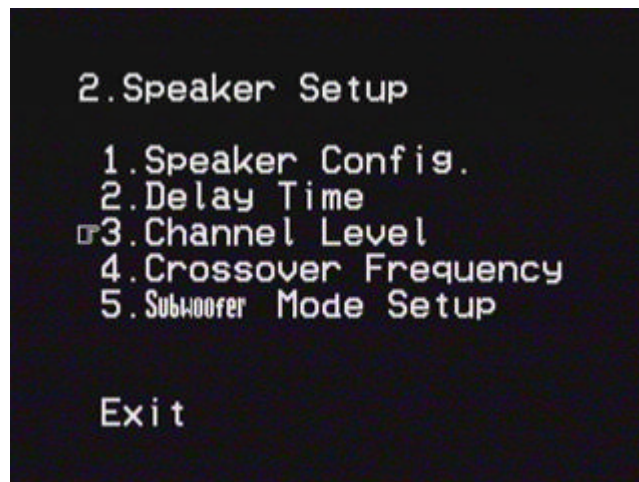


Push the “SYSTEM SETUP” button on AVR-3805

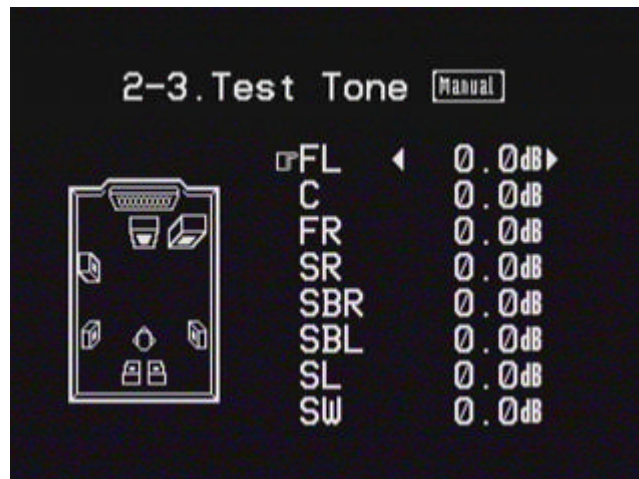
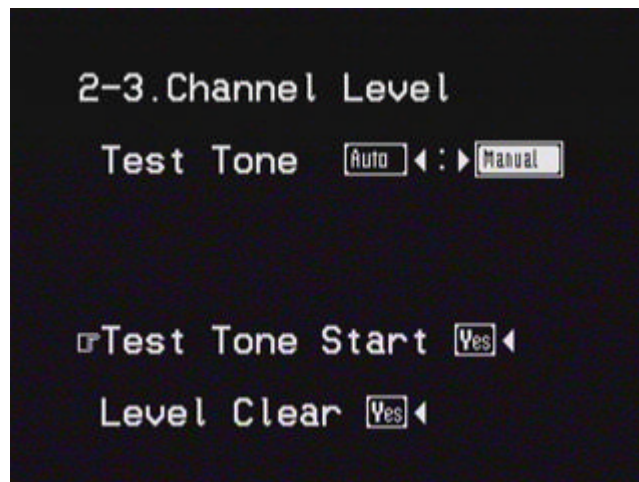
- Select “2. Speaker Setup”



- Select “3. Channel Level”



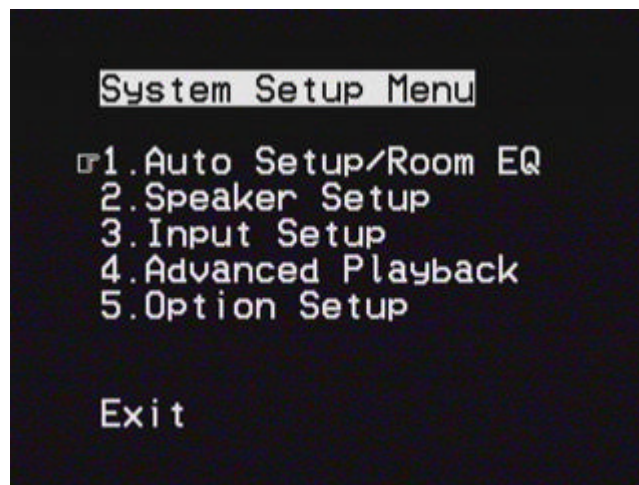
- Set the Parameter “Test Tone” to ‘Manual’ and “Test Tone Start” to ‘Yes’



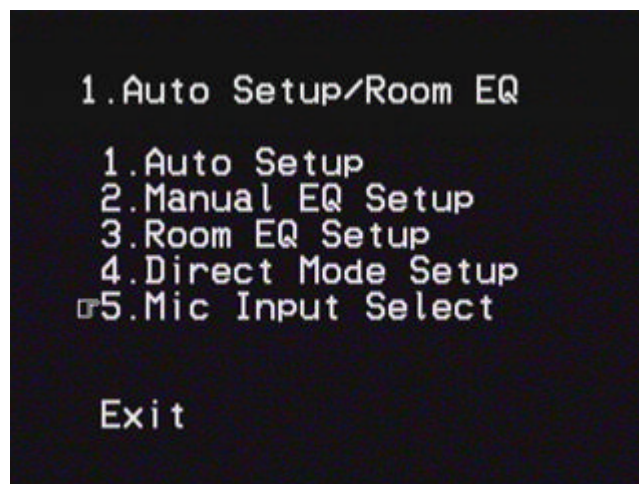
- Once the test tone for the Front Left (FL) speaker starts, check the Sound Pressure Level at the Listening Point with an SPL Meter. You do not have to check any of the other channels.
- Adjust the “Main Volume” so that the Sound Pressure Level measures 80 dB(C-weighted)
- Once the ‘Main Volume’ as been set , connect the output of microphone amplifier to the RMS Volt Meter
- Adjust the “microphone amplifier’s gain” as the RMS Volt Meter becomes about 120[mV RMS]
- Once set, exit out of ‘System Setup’ and turn off the AVR-3805

How to use 'Auto Setup and Room EQ' with an External Microphone Amplifier

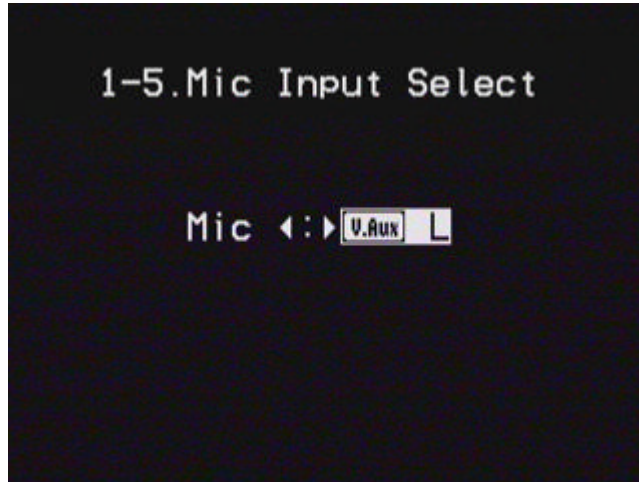
- Connect the output of the microphone amplifier to the AVR-3805's front panel 'V.AUX' Left channel audio input – located behind Trap Door
- Turn on the AVR-3805
- Push the "SYSTEM SETUP" button on the remote or front panel
- Select "1. Auto Setup/Room EQ"



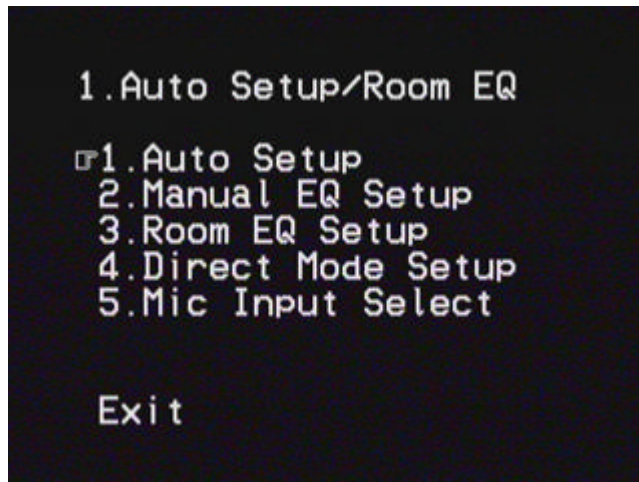
- Select "5. Mic Input Select"



- Change the setting to “V.AUX L”



- Press the “SYSTEM SETUP” button on the remote or front panel
- Select “1. Auto Setup”



- Start "Auto-Setup"



Once Auto Setup and Room EQ has completed, please continue with 'System Setup' as described in the Owner's Manual.