

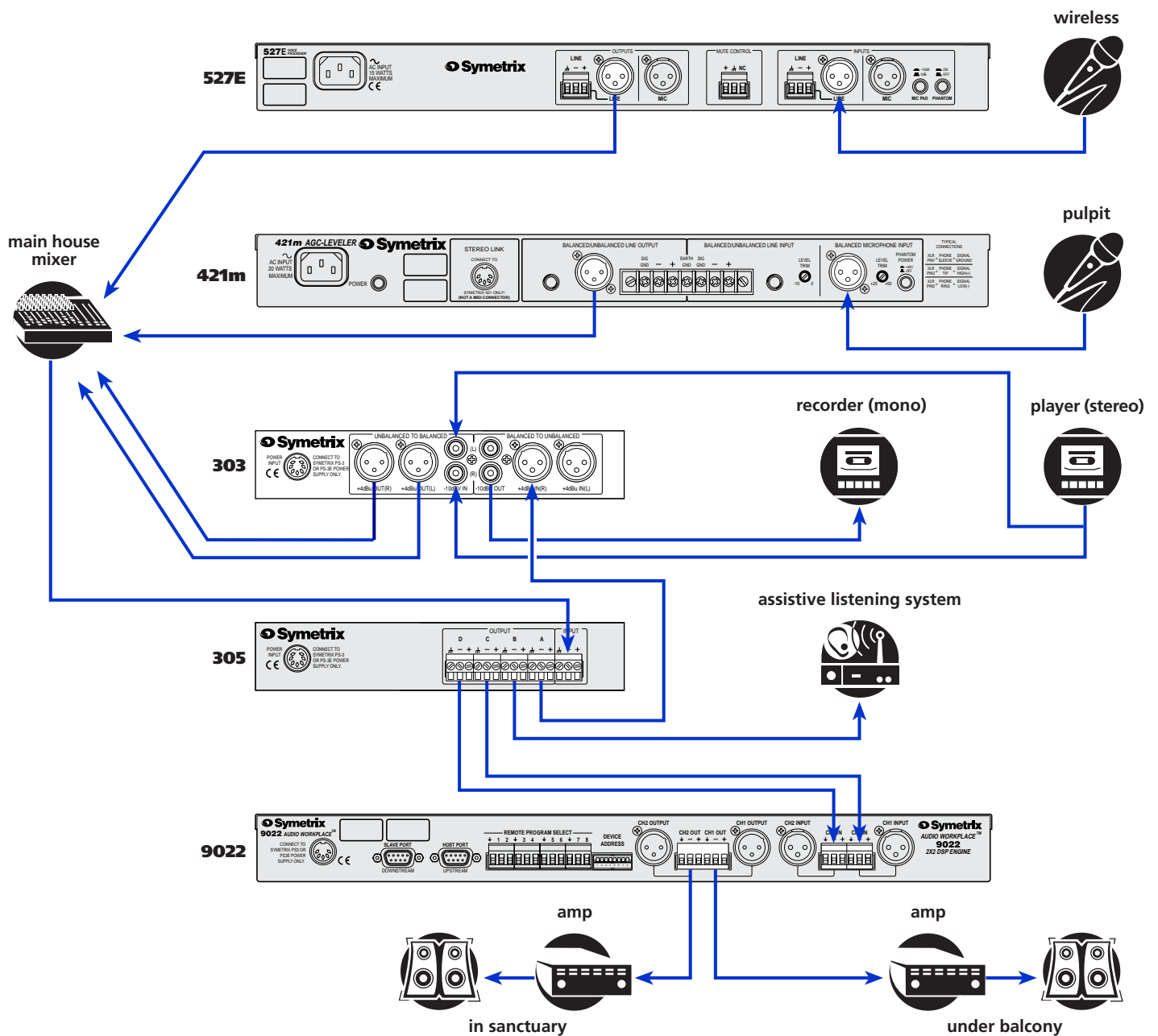


# ENGINEERED SOUND application notes

## House of Worship

### VOCAL REINFORCEMENT INSTALLATION

- Wireless mic of worship leader.
- Pulpit mic used by a variety of people.
- Tape playback (stereo) during the service and tape recording (mono).
- An assistive listening system for the hearing impaired.
- Separate audio processing for the main sanctuary and for under balcony fill.

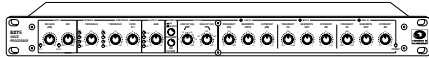


**Symetrix Product**

**Function in Installation**

**Features**

**527E Voice Processor**



Controls the most important mic in the system, the wireless lapel mic of the worship leader. This mic must always sound good.

Provides a higher quality mic preamp than is available in most mixing consoles used in the system.

Has the necessary parametric EQ for shaping the voice response.

Offers dynamics control for giving the mic an "upfront" sound while simultaneously reducing mouth sounds created by close miking.

Provides all of the above functions in a single unit, eliminating cabling errors, mis-matched impedances, and other hazards of patching multiple processors together.

**421m AGC/Leveler**



Controls the mic that will be used by a variety of people, from the loud talker to the shy reader.

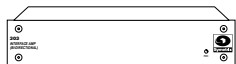
Keeps the output at a consistent level regardless of who is using the mic.

Downward expander gracefully turns off input when it is not in use. This eliminates paper shuffling and other background noise.

Peak limiter for peace of mind protection.

Speech curve filters optimize voice

**303 Interface Amplifier**



Provides bidirectional level matching (-10/+4) and balancing/unbalancing for proper interface of the consumer quality tape decks and the sound system.

Improves both the playback and recording quality of the machines because both the tape decks and the mixer receive the proper signal levels for their respective inputs. This lessens the chance of increased distortion or noise build-up.

**305 Distribution Amplifier**



*Symetrix 303 and 305 can occupy the same rack space with Symetrix RM-3 rack shelf.*

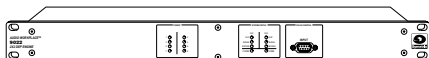
Provides the required outputs for the main sound reinforcement system.

Provides separate outputs for sanctuary and under balcony system.

Provides an output for the assistive listening system for the hearing impaired.

Provides a mono recording input feed for making tapes of the services for members unable to attend.

**9022 2x2 DSP Engine**



Provides the necessary signal processing functions for both the main sanctuary speakers and the under-balcony system.

Each channel has programmable EQ (tamper-proof graphic or parametric EQ) plus hi-pass filter and lo-pass filter for shaping the system response to the room environment.

Each channel has dynamics control for increased impact and speaker protection.

Provides the under-balcony speaker delay.