

# Technical Information for Benatar/Nicks Tribute – Sound Reinforcement

**Sound Requirements:** Front of House speakers must be at least a stereo 3 way system capable of delivering 120db SPL (clean!) at mixing position. Because of the dynamic low end from keyboard synthesizers and pedal bass, the system must be able to reproduce a solid 30hz note at the specified db level (yes, I know you're saying, "Watt's up!" but low end in the mix is critical for reproduction of the sound and vibe. Some of the keyboards synth patches may have fundamentals below 30hz.)

- Most instruments output stereo and typically require that (if the venue supports it).
- Mixing console must be professional quality, with a minimum 32 tracks, 6 aux, 6 subs, direct out stereo jack prefaders on all channels.
- House EQ: must be stereo 31 band graphic, tweaked for the room before soundcheck.
- Processing: 8 compressors (dbx) 2 reverbs (yamaha, lexicon) or onboard fat channel (re: Presonus).
- Monitor system: minimum 5 separate mixes, channels with eq on each channel, experienced monitor engineer if separate board from FOH.
- Assistants: venue must provide a competent assistant who knows the set up of the house system to help our engineer. In case of venue providing engineer he/she must be familiar with this music and the appropriate vintage vocal processing. Cost for our engineer will be an additional 1/8 of band performance fee. Venue provided engineer must be pro sound, no hobbyists.
- Stage: Minimum 24 X 16, 30 X 20 preferred, clear, clean and safe, with 8x8 risers for drummer, keys. Since the recreation of the classic rock sound requires a significant amount of backline (see input list), the larger the stage, the better for all of us.

## MIX NOTES

This tribute is an authentic, organic (no backing tracks), recreation of these artists in their prime! The monitor mix is somewhat unusual because the complex material requires cues by all the vocals and instruments, and so everyone has to hear everyone else. The following guidelines should be observed for optimal results, but again, latitude to the engineer is encouraged:

- **Monitor Mix** – Seven (7) individual monitor mixes are necessary for optimal performance.
  - **The lead vocalists (3) may** use an in-ear system and need own monitor mixes with vocals at 50% and instruments at 10%
  - **As different vocalists take lead** the others will provide BG vocals on nearly every song.
  - **All other band members** will need full instrument mix as well as vocals. Bass and Guitar may require less, since they perform at relatively loud stage levels (we are recreating 70's sound, remember; Ampeg bass and Fender twins?). All BG vocals will be a dry mix.
  - The rest of the band uses wedges/side-fills as per stage plot, capable of 115db SPL @ 1m.
  - Drummer will need a mix very similar to FOH (but dry), with one full range monitor and Sub.
- In the (hopefully) rare instance that monitors/house system are not available we will work with the venue.
- **Lead Vocals FOH:** We recommend a pitch/delay set as follows for our lead vocals, but will leave fine tuning to FOH engineer:
  - Pitch/Delay #1: 15 ms delay, -10 cents pitch.
  - Pitch/Delay #2: 30 ms delay, +10 cents pitch
  - If mixing stereo, pan the two pitch/delays left and right.
  - Please feel free to liberally apply standard long delay and appropriate reverb.
- **BG Vocals** – Please feel free to liberally apply standard long delay and appropriate reverb.

- **Bass and Guitar amplification** on-stage may be much hotter than many acts engineers typically mix; we recognize that makes for a difficult mix.
- **Overall Mix** – We respectfully request that you make sure that our vocals are heard above the instruments. We know we're loud. Like we said, it was the 70's. 😊

## SETUP AND SOUNDCHECK NOTES

Because of the amount and complexity of the gear required for this show, we require a minimum of three hours setup time and soundcheck, which the A1 tech will need to be available for. Additional time may be needed for projector setup, lasers and hazers, and other aspects of the lighting. We budget a MINIMUM of one hour for sound check, and hopefully more time will be available if the equipment setup goes smoothly.

## BACKLINE NOTES

If booked into venues that require flying in from our home location in South Florida, here are our backline requirements:

### Drums:

- **DW maple or equivalent**
  - Two ride toms, floor tom, prefer 13/14/16 with 22 bass drum
  - DW or equivalent hardware, single pedal, all cymbal stands to match below
- **Sabian AAXplosion or HHX Evolution**
  - 21" Ride, 16" and 18" Crashes, 18" China, 6", 8", 10" Splashes, 14" Hats
- **Roland SPD/SX**

### Bass:

- **GK or equivalent bi-amped head/combo with full parametric EQ**
- **2-10" high cab and 15-18" sub cab**
- **Direct Out**

### Keys:

- **Yamaha CP4 or equivalent**
- **Nord Stage Lead or equivalent**
- **Keyboard stands to accommodate (stacking acceptable)**

### Guitar:

- **Fender Deluxe Reverb**