PA2 TEST SPEC

Serial No: 140211 onwards

TEST SPECIFICATION:

Issue 2: 30th April 1996.

Tolerance on inputs +/-0.3dB, outputs +/-1dB, unless stated otherwise.

1. MAINS VOLTAGE: **Set to 240V.**

2. GROUND CONTINUITY: **Limit 0.01 ohms.**

2.1 Measure the resistance between the ground pin of the IEC inlet to the chassis ground screw.

3. VISUAL INSPECTION:

Inspect the unit, paying particular attention to the following items:

3.1 - the orientation of power supply diodes and capacitors,

3.2 - the orientation of Ics,

3.3 - all mains wiring,

3.4 - the quality of external paint and silk screening,

3.5 - check all knobs and switches operate freely and are uniformly spaced from the panel,

3.6 - all XLR connectors are locked,

3.7 - LED alignment with front panel.

Tests 4 and 5 should be performed on each channel:

4. PHANTOM POWER: **+24V +/-1V.**

DI Box: 48V On, measure on pins 2 and 3 of Mic input socket with 6K8 termination jig. Turn off 48V.

5. INPUTS:

5.1 MIC INPUT: **Output 0dBu.**

DI Box: Mic Input, Gain Max, Line level output.
A2: 1KHz, Sine, -60dBu, 22-22K Filter, Meter.

5.2 OUTPUT LEVEL: **-30dBu.**

DI Box: Output level to Mic.

Return output level to Line after test.

5.3 DISTORTION: **Limit 0.05%.**

A2: Level -20dBu.
DI Box: Adjust gain for 0dBu output.

5.4 FREQUENCY RESPONSE: **Limit -1dB, 20Hz-40KHz.**

A2: 22-22K Filter off, Sweep.

5.5 MIC INPUT NOISE: **Limit -67dBu (EIN = -127dBu).**

DI Box: Disconnect input and replace with 150R termination, Gain Max.

5.6 KEYBOARD INPUT: **Output -12dBu.**

DI Box: Instrument, Keyboard.
A2: Level -20dBu.

5.7 GUITAR INPUT: **Output +8dBu.**

DI Box: Guitar.

5.8 PEAK LED:

A2: Level -10dBu.
DI Box: Adjust Gain and check LED begins to glow @ 0 +/-2dBu output, incresasing to maximum intensity @ +10 +/-3dBu output.

5.9 THROUGH SOCKET:

Check -10dBu unbalanced on the through socket.

6. PHASE.

6.1 PHASE: **Limit 0 +/-2deg.**

DI Box: Adjust channel B Gain for -10dBu output.
A2: Phase (needs OUT B to CH B cable).

6.2 PHASE REVERSE: **Limit -180 +/-2deg.**

DI Box: Phase Reverse.

7. SOAK TEST.

8. AUDIO/QA TEST.