

TEST SPECIFICATION:

Issue 1: 7th February 1995.

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.
A2: 1KHz, Sine, -60dBu, 22-22K Filter, Meter.

5.2 DISTORTION: Limit 0.05%.

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

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

A2: 22-22K Filter off, Sweep.

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

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

5.5 KEYBOARD INPUT: Output -12dBu.

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

5.6 GUITAR INPUT: Output +8dBu.

DI Box: Guitar.

5.7 PEAK LED:

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

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.