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TEST SPECIFICATION: TL Audio

Issue 1: 11th March 1996.

Tolerance on inputs +/-0.3dB, outputs +/-1dB, unless stated otherwise. Tests must be performed in sequence, with controls changed only as indicated.

1.	MAINS VOLTAGE:	Set to 230V.
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:
3.1	- the orientation of power supply diodes and capacitors,	
3.2	- the orientation of ICs,	
3.3	- all mains wiring,	
3.4	- check the solder side of the PCB for unsoldered joints and solder splashes,	
3.5	- the quality of external paint and silk screening,	
3.6	- check all knobs and switches operate freely and are uniformly spaced from the panel,	
3.7	- all XLR connectors are locked,	
3.8	- LED alignment with front panel,	
3.9	- check all screws are fully tightened.	
4.	SWITCH ON, and check for a	ny sign of component stress or over-heating.

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4.1 LED CHECK:

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Check the POWER and both EQ IN LEDs illuminate.

Perform tests 5.1 to 5.12 for both channels:

5. INPUTS:

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5.1 LINE INPUT: Output 0dBu.

Equaliser:XLR Input, Gain 0dB, XLR O/P, EQ out, Dual 2 Band mode.A2:IKHz, Sine, 0dBu, 22-22k Filter, Meter.

Adjust RV3 (Ch A) /RV4 (Ch B) on PC133 for 0dBu output.

Adjust RV1 and RV4 on PC133 for A and B balance respectively.

5.2 INPUT GAIN:

A2: -20dBu.

Equaliser: Check input gain variation +/-20dB.

Return A2 level to 0dBu.

5.3 EQUALISER IN: Output 0dBu.

Adjust RV1 (channel A) and RV2 (channel B) on PC137.

5.4 HUM AND NOISE: Limit -80dBu.

A2: Mute Output.

Equaliser: Cut/Boost controls centered.

5.5 AUX INPUT, LO GAIN: Output -14dBu.

A2: -20dBu

Equaliser: Input to Aux Jack, Gain 0dB, Lo Gain.

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5.6 AUX INPUT, HI GAIN: Output +3dBu.

Equaliser: Hi Gain.

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5.7 UNBALANCED INPUT AND OUTPUT: Output -20dBu. Equaliser: Input to unbalanced jack, output from unbalanced jack.

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5.8 PEAK LED:

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A2: 0dBu

Equaliser: Input and output via XLR.

Adjust the input gain, checkung that the PEAK LED begins to glow @ +6dBu output, and is fully illuminated @ +16dBu output.

5.9 FREQUENCY RESPONSE: 10Hz-40KHz +0, -1dB.

A2: 22Hz-22KHz filter off, Sweep.

5.10 EQ RESPONE:

A2: ALT waveform.

For each band, check flat at each switched frequency, and boost/cut response.

Return all boost/cut controls to centre.

5.12. DISTORTION: Limit 0.2%

A2: 22-22K Filter out, THD.

6. SOAK TEST.

With top and bottom covers fitted.

7. QA CHECK.