INDIGO 2021 COMPRESSOR TEST SPEC

TEST SPECIFICATION: TL Audio

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Issue 1: 29th January 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	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 fu	illy tightened.
4.	SWITCH ON, and check for a	any sign of component stress or over-heating.

4.1 OFFSET SETUP: -50mV +/- 5mV.

Compressor: Threshold, Ratio and Gain Make-Up anti-clockwise, Fast Attack and Release.

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Adjust Offset trims RV1 and RV3 on PC136 whilst measuring at test points A and B respectively.

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Perform tests 5.1 to 8.5 for both channels:

5. INPUTS:

5.1	LINE INPUT:	Output OdBu.
	Compressor:	XLR Input, Gain 0dB, XLR O/P, Compressor Out, Threshold +20, Gain Make Up (GMU) 0dB.
	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.

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

Return A2 level to 0dBu.

5.3 COMPRESSOR IN: Output 0dBu.

Adjust RV2 (channel A) and RV7 (channel B).

5.4 HUM AND NOISE: Limit -80dBu.

A2: Mute Output.

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

A2: -20dBu.

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

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

Compressor: Hi Gain.

5.7 UNBALANCED INPUT AND OUTPUT: Output -20dBu.

Compressor: Input to unbalanced jack, output from unbalanced jack.

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6. **DISTORTION:**

Limit 0.02%

A2: 22-22K Filter out, THD

Compressor: Input and output via XLR. Comp out.

7. THRESHOLD ADJUSTMENT.

A2: Level, output -20dBu.

Compressor: With Threshold and Ratio fully anti-clockwise, check output -20dBu. Set Threshold and Ratio fully clockwise, increase A2 output to +4dBu, and adjust Threshold trim for -7.0dBu output (RV5 and RV6 on PC136 for A and B respectively).

8. METERS:

8.1 AUDIO LEVEL: +4dBu = 0VU.

Compresor: Threshold +20dB, check output +4dBu.

Adjust Meter REF (RV4) to just illuminate 0dB LED.

8.2 GAIN REDUCTION: -6dB.

Compressor: Threshold -20dB, adjust Ratio for -2dBu output. Meter Gain Redn. Adjust RV8 to just illuminate -6dB LED.

8.3 GAIN MAKE-UP: +24dBu.

Compressor: Threshold +20dB, GMU maximum.

Return GMU to minimum after test.

9. SOAK TEST.

With top and bottom covers fitted.

10. DYNAMIC TEST.

Check operation of the compressor controls with the tone-burst generator, in mono and stereo mode.

11. QA CHECK.