

TANDBERG

TR 2055

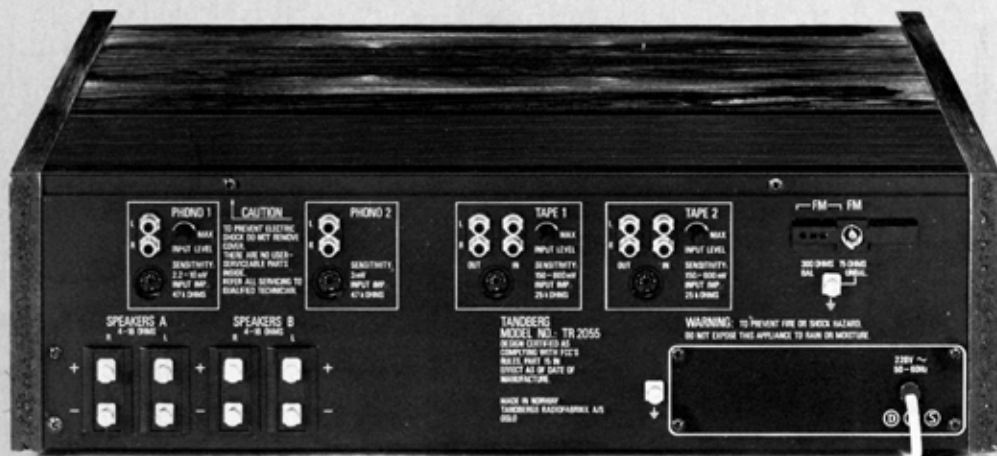
In the past it has been a normal rule for top quality FM tuner/stereo amplifier equipment to consist of separate units for the tuner, preamplifier, and power amplifier. And the rule has been justified, because no manufacturer has managed to construct these units on the same chassis and retain the same performance as comparable separate units.

The challenge for Tandberg was to break this rule. The result was the new TR 2000 series. The first product in the series was the TR 2075 which even today is rated amongst the best receivers in the world by American and European Hi-Fi journals. The tests carried out by these journals prove that the performance of the TR 2075 is equal to or better than comparable separate units!

The TR 2055 has the same FM tuner as the TR 2075 and is equipped with an amplifier that delivers more than 2 x 55 watts into 8 ohms over the whole frequency range from 20 Hz to 20 000 Hz with less than 0.15% total distortion!

Visit your Hi-Fi dealer and listen to the TR 2055. Compare it with any other product on the market — including products costing much more! Specifications can be described, but not sound reproduction. Let your ears be the deciding factor when you choose.





THE FM TUNER

- An outstanding FM stereo tuner with MOSFET transistors, 4-pole ceramic filters, and integrated circuits (IC's)
- Signal/noise ratio 75 dB in stereo and 78 dB in mono (IHF)!
- Automatic switchover to FM stereo
- Electronic tuning. Heavy flywheel making station-finding precise and easy
- Muting between stations
- Large tuning meter and signal strength meter for accurate tuning
- Equipped with 25 μ s deemphasis for receiving Dolbyized*) FM programmes

THE AUDIO SECTION

- Output power 2 x 55 watts in 8 ohms with less than 0.15% distortion over the whole frequency range from 20 Hz to 20 000 Hz
- Inputs for 2 record players and 2 tape recorders
- Adjustable sensitivity for one record player input and for both tape inputs
- Both tape recorder inputs have SOURCE/TAPE MONITOR facilities
- Copying facilities for 2 connected tape recorders
- Frequency/loudness compensated volume control
- 2 filters (LOW and HIGH)
- 2 front jack sockets for headphones
- Click-free programme selection

*) The names Dolby and Dolbyized are registered trademarks of Dolby Laboratories Inc., USA.

Wood veneers

The TR 2055 is delivered in cabinets made from high grade compressed wood products faced with selected wood veneer.

General

Dimension: width 20 1/2" (51 cm), height 6 1/2" (15.3 cm), and depth 14" (35.3 cm) + 1" (2.4 cm) for knobs. Weight: 28 3/4 lb (13 kg).

Technical data

AUDIO SECTION

***Power output:** Average continuous sinewave power is 55 watts minimum RMS per channel, both channels driven into 8 ohm load, from 20 Hz to 20 kHz with no more than 0.15% total harmonic distortion from 1/4 watt to 55 watts as specified herein.

Output power, continuous sine wave, both channels driven simultaneously, with 4 ohm load, at 1 kHz: greater than 2 x 75 watts with less than 0.1% distortion.

Load impedance: from 4 to 16 ohms.

***Total harmonic distortion:** maximum 0.15% at any power from 1/4 watt up to rated power in 8 ohm load.

Intermodulation, according to DIN 45500 and IHF: less than 0.15%.

Damping factor at 1 kHz: 40 with 4 ohms, 80 with 8 ohms load.

Frequency response

For the complete amplifier, with linear inputs: 7 to 80 000 Hz (-1.5 dB).

Tone controls

Bass control: \pm 15 dB at 50 Hz.

Freque./loudness comp. at 50 Hz: + 10 dB (max.).

Treble control: \pm 15 dB at 10 000 Hz.

Freque./loudness comp. at 10 000 Hz: 5 dB (max.).

Filters

LOW: - 3 dB at 70 Hz, - 12 dB per octave.

HIGH: - 3 dB at 8 000 Hz, - 12 dB per octave.

Channel separation at 1 kHz: TAPE 60 dB (min.),

PHONO: 60 dB (min.).

Signal/noise ratio (IHF) reference max. output power with 8 ohm load, short circuited input, measured linearly, level controls at -6 dB:

TAPE 1: 82 dB min. (TAPE 2: 80 dB min.) with 300 mV input signal.

PHONO 1: 70 dB min. with 4.4 mV input signal.

PHONO 1: 78 dB min. with 10 mV input signal.

PHONO 2: 68 dB min. with 3 mV input signal.

Residual hum and noise with 8 ohm load, volume control at minimum, no filter used: less than 0.7 mV RMS.

Signal/noise ratio (DIN 45500), reference 50 mW with 4 ohm load, level controls at -6 dB:

* Measured according to FTC rules.

TAPE 1 and 2: 62 dB min. with 300 mV input signal.

PHONO 1: 60 dB min. with 4.4 mV input signal.

PHONO 1: 62 dB min. with 10 mV input signal.

PHONO 2: 58 dB min. with 3 mV input signal.

Sensitivity at max. output power with 8 ohm load:

TAPE 1 and 2: adjustable from 150 to 600 mV, input impedance between 25 and 33 kohms.

PHONO 1: adjustable from 2.2 to 10 mV, input impedance 47 kohms.

PHONO 2: 3 mV, input impedance 47 kohms.

Maximum input signals with 0.2% distortion at 1 kHz, level controls at minimum:

TAPE 1 and 2: 8 V. PHONO 1: 250 mV. PHONO 2: 80 mV.

Output signal to tape recorders, unloaded:

1 V on the phono sockets (output impedance 1 kohm);

250 mV on the DIN sockets (output impedance 47 kohms).

Output signal from TAPE CONTOUR OUT: 25 V max., output impedance 150 ohms, unloaded.

FM SECTION

Specification according to IHF-T-200, 1975

(IEEE std. 185, 1975).

Tuning range: 87.5 to 108 MHz.

Usable sensitivity: Mono: 1.7 μ V/300 ohms (9.8 dBf).

50 dB quieting sensitivity: Mono: 3 μ V/300 ohms (14.8 dBf). Stereo: 40 μ V/300 ohms (37.3 dBf).

Signal-to-noise ratio at 65 dBf (1 mV/300 ohms):

Mono: 78 dB. Stereo: 75 dB.

Muting threshold: Mono 6 μ V/300 ohms (20.8 dBf). Muting hysteresis, 6 dB.

Stereo threshold: 15 μ V/300 ohms (28.8 dBf). Stereo hysteresis, 8 dB.

Frequency response, 30 Hz to 15 kHz:

Mono: + 1, - 2 dB. Stereo: + 1, - 2 dB.

Distortion at 50 dB quieting: Mono: 0.3%. Stereo: 0.3%.

Distortion at 65 dBf (1 mV/300 ohms at 1 kHz):

Mono: 0.2%. Stereo: 0.3%.

Distortion at 65 dBf (30 Hz to 15 kHz): Mono: 0.4%. Stereo: 0.5%.

Intermodulation distortion: Mono: 0.2%. Stereo: 0.2%.

Capture ratio: selectively measured 0.9 dB.

Adjacent channel selectivity: 10 dB at \pm 200 kHz.

Alternate channel selectivity: 80 dB at \pm 400 kHz.

Spurious response ratio: Greater than 95 dB.

Image response ratio: Greater than 70 dB.

IF response ratio: balanced. Greater than 75 dB.

RF intermodulation: Greater than 70 dB.

AM suppression ratio: Greater than 70 dB.

Stereo separation: (60 Hz to 10 kHz selectively measured). Greater than 40 dB.

Subcarrier product ratio: 60 dB.

19 kHz suppression: 70 dB.

38 kHz suppression: 60 dB.

Dynamic range of signal meter: 0.5 μ V to 200 mV/300 ohms.

Specification according to DIN 45301 and DIN 45500

Sensitivity mono, DIN 45301: 1.6 μ V/300 ohms

at 26 dB signal/noise ratio, RMS, dev. \pm 22.5 kHz.

Sensitivity stereo, DIN 45500: 40 μ V/300 ohms

at 46 dB signal/noise ratio, RMS, dev. \pm 40 kHz.

Signal/noise ratio

Weighted, DIN 45500, quasi-peak, dev. \pm 40 kHz:

Mono: 66 dB. Stereo: 62 dB.

Unweighted, DIN 45500, RMS, dev. \pm 40 kHz:

Mono: 68 dB. Stereo: 65 dB.

Selectivity: carrier down. 80 dB at \pm 300 kHz.

Total harmonic distortion: dev. \pm 40 kHz. Mono:

0.15%. Stereo: 0.15%.