

TANDBERG

3080

RECEIVER Design Philosophy

It has been our aim to build a receiver matching the performance of three separates.

The result is a unit setting new standards in both audible performance and ease of operation.

A major feature of the 3080A is full remote control without the usual degradation of audio performance.



Tuner section

The tuner section features a 16 preset FM tuner with digital control and readout.

The unique Tandberg technology — rated state of the art for a decade — ensures high performance

under all conditions. The IF selectivity is determined by a computer designed filter giving the necessary bandwidth to permit undistorted reception.

The digital readout is in 50 kHz steps (100 kHz in USA). Up-/down search is by manual or automatic operation.

Pre-amp. section

All components used in the 3080A are selected for maximum accuracy and best audio performance. The phono pre-amp. has separate MM and MC inputs, automatically switched.

Separate program-select and record-select switches allows maximum user flexibility, recording one source and listening to another source.

A generous number of inputs and outputs allows even video-in and separate pre-out for multi-amplifier systems.

Amplifier section

A major feature of the amplifier section is a well dimensioned high current power supply.

The high current design — hardly found in any other receiver — guarantees

superior performance under all signal conditions.

High current capability

Years of experience with MOSFET and BI-POLAR technology is incorporated in the design of

the TPR 3080A. This bi-polar design is hardly matched by any other amplifier.

With 20.000 uF capacitors, the 3080A offers a peak current of 30 A.

Thermic Servo Loop

The Tandberg Thermic Servo Loop controls the output DC voltage, in a unique way, by means of temperature sensing to achieve 0 Volt — with

absolutely no interference to the audio signal.

This replaces the usual lowpass filter and negative

feedback loop which inject control signals into the audio path and degrade the sound quality.

Fully remote controlled

The Tandberg infrared remote control RC 3000 (not included) can control most of the 3080A functions.

16 FM presets can be selected as well as manual/ auto up-down tuning. All sources and rec. out can be selected remotely.

The functions also include volume, tone defeat and muting. The remote control will also operate other Tandberg products, such as the 3015A Compact Disc Player.

Technical Data

Tandberg Programmable
Receiver TPR 3080A

Power requirements:	110 – 115 V/220 – 230 V/240 V $\pm 10\%$, 50/60 Hz
Power consumption:	60 – 500 W
Dimensions:	Width 435 mm Height 137 mm Depth 354 mm Weight 12 kg

AMPLIFIER

Technical Data according to
IHF-A-202, 1978

Continuous Average Power Output:	(8 ohm, 20 – 20.000 Hz, THD < 0.09%) 2 x 80 W (4 ohm, 20 – 20.000 Hz, THD < 0.09%) 2 x 100 W
Dynamic headroom:	0.35 dB
Frequency response:	5 – 100.000 Hz $\pm 0/-3$ dB 20 – 20.000 Hz ± 0.5 dB
Linear inputs	
Phono MC and MM inputs	
Sensitivity:	
Phono MC	70 μ V
Phono MM	500 μ V
FM, Tape 1, Tape 2, Video, AUX, CD	75 mV
A-weighted Signal-to-noise ratio:	
Phono MC	68 dB
Phono MM	72 dB
FM, Tape 1, Tape 2, CD	85 dB
Maximum input signal:	
Phono MC	5.0 mV
Phono MM	70 mV
FM, Tape 1, Tape 2, CD, Video, DAT, AUX	3.5 V
Input impedance:	
Phono MC	150 ohm
Phono MM	47 kohm
FM, Tape 1, Tape 2, CD, Video, DAT, AUX	10 kohm

FM TUNER

Technical Data according to
IHF-T-200, 1975
IEEE Std. 185, 1975

Tuning range:	87.5 – 108 MHz
Usable sensitivity:	Mono 1.2 μ V/75 ohm Stereo 2 μ V/75 ohm
50 dB quieting sensitivity:	20.0 μ V/75 ohm Stereo 75 dB Mono 75 dB
Signal-to-noise ratio:	10 μ V/75 ohm Stereo 6 dB Mono 8 dB
Muting threshold:	
Muting hysteresis:	
Stereo hysteresis:	
Frequency response (30 Hz to 15 kHz):	Mono + 0.5 dB – 1 dB Stereo + 0.5 dB – 1 dB
Distortion at 50 dB quieting:	Mono 0.1 % Stereo 0.2 %
Distortion at 65 dBf (0.5 mV/75 ohm at 1 kHz):	Mono 0.09 % Stereo 0.2 %
Distortion at 65 dBf (30 Hz to 15 kHz):	Stereo 0.3 %
Intermodulation distortion:	Mono 0.2 % Stereo 0.2 %
Capture ratio, selectively measured:	0.9 dB
Adjacent channel selectivity ± 200 kHz:	14 dB
Alternate channel selectivity ± 400 kHz:	> 100 dB
Spurious response ratio:	> 70 dB
Image response ratio, balanced:	> 85 dB
RF intermodulation:	> 70 dB
AM suppression ratio:	> 70 dB
Stereo separation (60 Hz to 10 kHz, selectively measured):	> 45 dB
Subcarrier product ratio:	60 dB
19 kHz suppression:	70 dB
38 kHz suppression:	60 dB

Specifications are subject to change without notice.

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