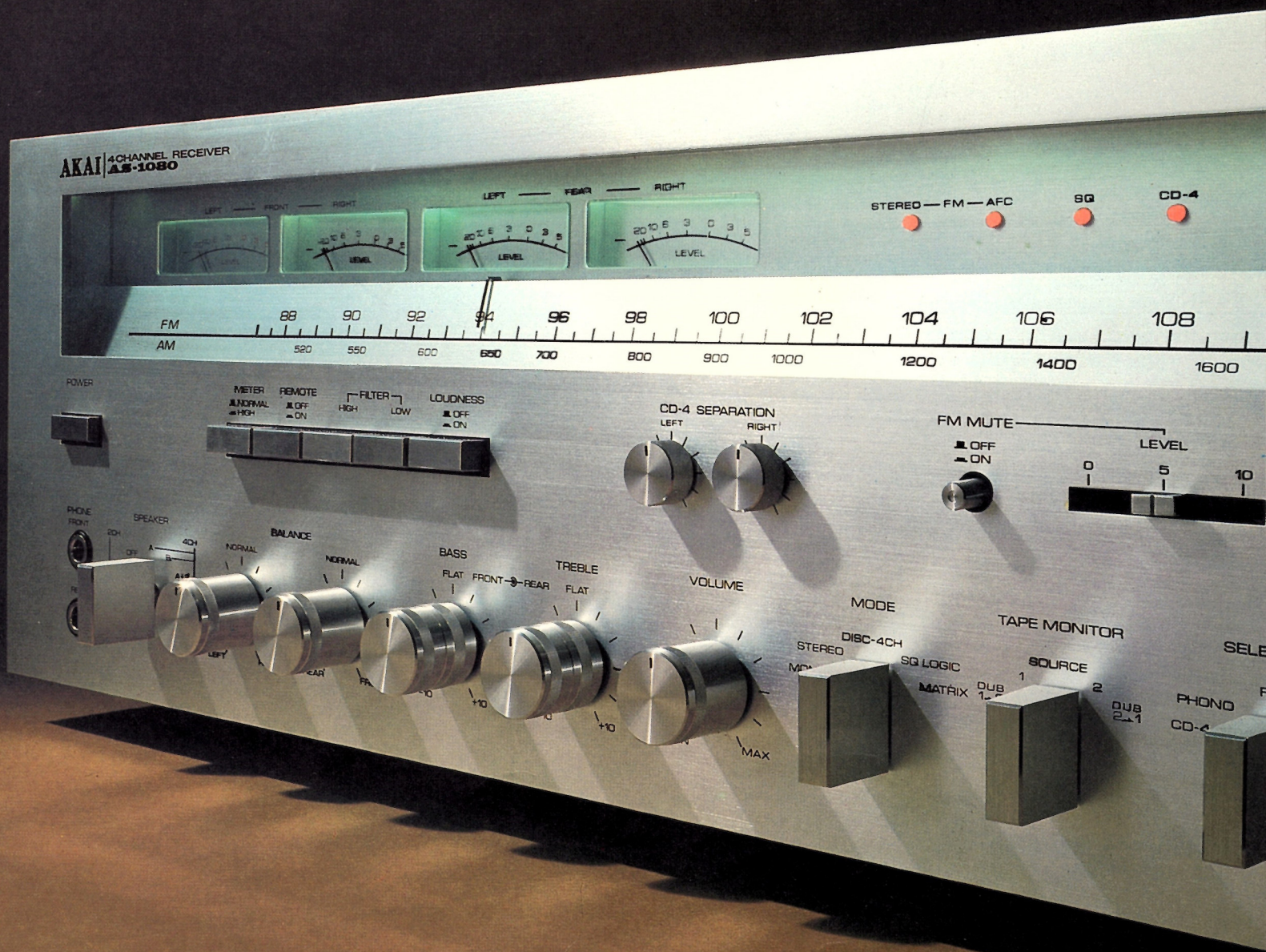


AKAI

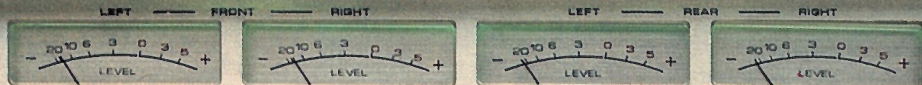
AS-1080

4-CHANNEL
STEREO
RECEIVER

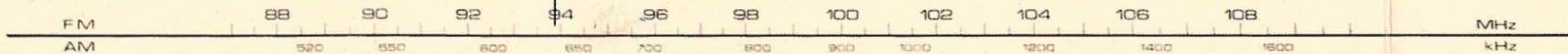
Efficient performance and design. This new 4/2-channel compatible receiver incorporates all the latest engineering techniques and offers performance quality to match anything on the market today. Yet the cost of the AS-1080 is far below what you would expect to pay for such quality. Robust 3 mm thick aluminium front panel. Easy-to-operate precise controls. Designed for efficient operation of present and future audio capability.



AKAI 4 CHANNEL RECEIVER
AS-1080



STEREO — FM — AFC SQ CD-4



POWER



METER REMOTE FILTER LOUDNESS

▲ NORMAL ▲ OFF HIGH LOW ▲ OFF

▲ HIGH ▲ ON

CD-4 SEPARATION

LEFT RIGHT

FM MUTE

▲ OFF ▲ ON

LEVEL 0 5 10

PHONE FRONT

REAR

SPEAKER

2CH OFF A B

4CH A+B

POWER DOUBLER

BALANCE

NORMAL

LEFT RIGHT

BALANCE

NORMAL

REAR FRONT

BASS

FLAT FRONT — REAR

-10 +10

TREBLE

FLAT

-10 +10

VOLUME

MIN MAX

MODE

STEREO DISC-4CH SQ LOGIC

MONO MATRIX

TAPE MONITOR

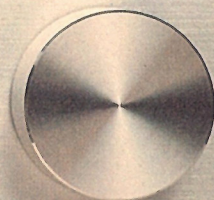
SOURCE 1 2

DUB 1-2 DUB 2-1

SELECTOR

PHONO FM AM

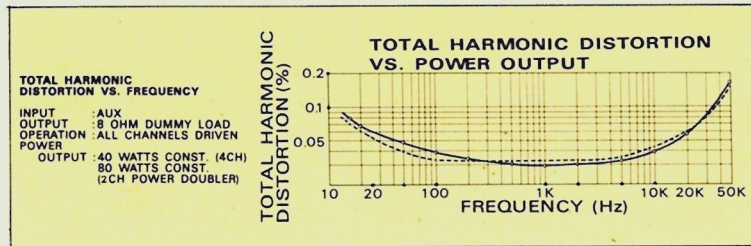
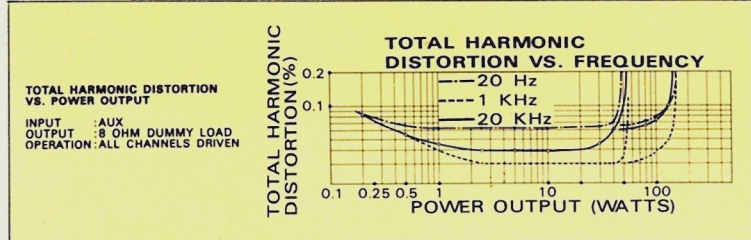
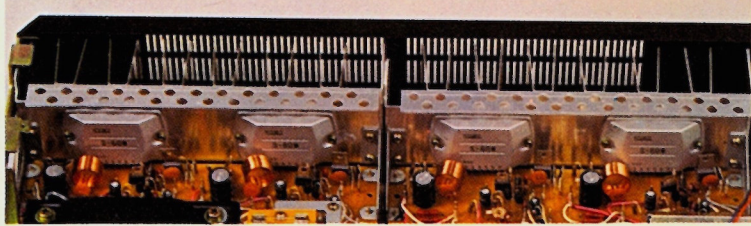
CD-4 AUX



HIGH POWER AMP WITH LESS THAN 0.2%

ALL-STAGE DIRECT COUPLED OCL PURE COMPLEMENTARY POWER AMPLIFIER

40 watts per channel continuous power output (80 watts per channel at 2-CH Power Doubler), minimum RMS at 8 ohms load impedance with no more than 0.2% distortion! These outstanding specifications are the result of employing an all-stage direct-coupled OCL pure complementary 4 Power IC circuit in the all important power section.

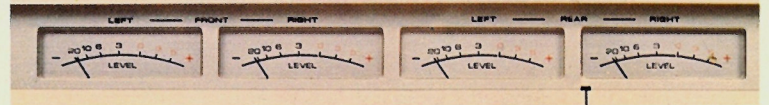


POWER TRANSISTOR PROTECTION CIRCUIT

A protection circuit is activated in case of a short caused by a wrong speaker connection or when input is excessive to protect the power transistors. Further, this circuit cancels the irritating speaker shock noise when the power switch is turned on or off.

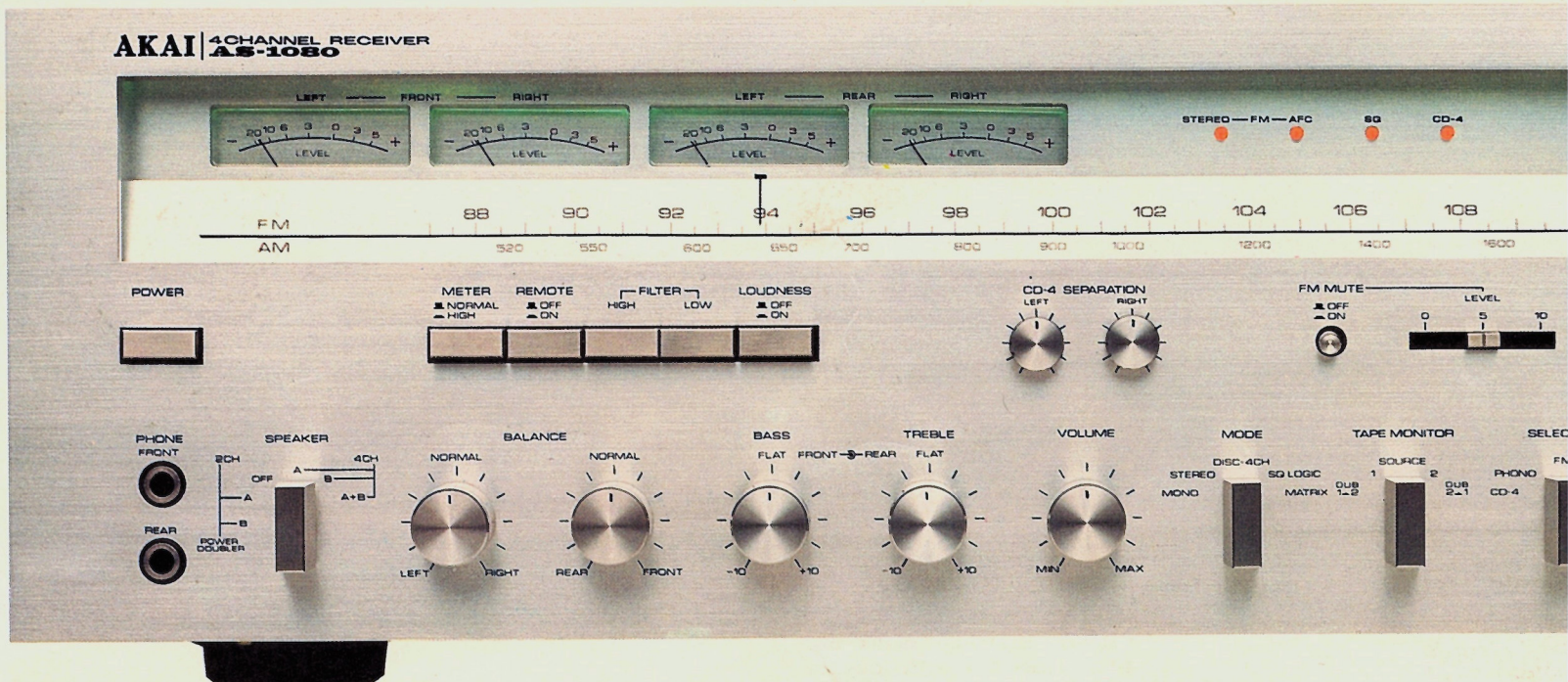
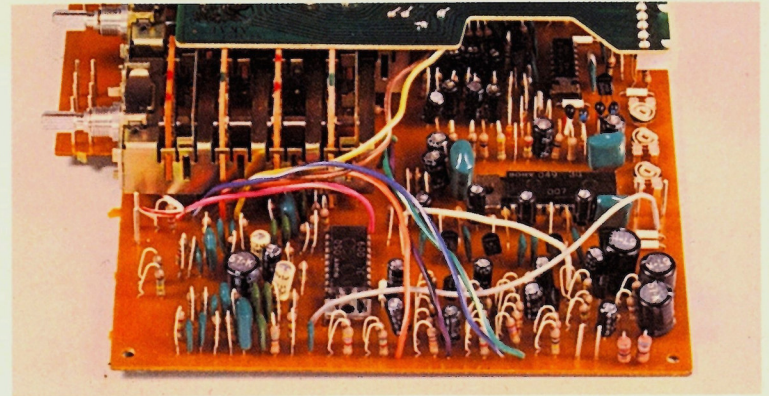
VARIED 4-CHANNEL OPERATION

This 4-channel 2-channel compatible unit, in addition to regular and discrete stereo, also features SQ Full Logic and Matrix 4-channel stereo as well as CD-4 capability.



SQ Full Logic Decoder Circuit

The SQ Full Logic decoder of this model is a superior Front/Back Logic wave matching circuit employing a 6-pole phase shifter for excellent front and rear channel separation. 3 advanced large scale Sony ICs. SQ Indicator Lamp.



TOTAL HARMONIC DISTORTION !



Matrix Decoder Circuit

Facilitates playback of matrix encoded phonograph records.

CD-4 Demodulator Circuit and Separation Adjusters

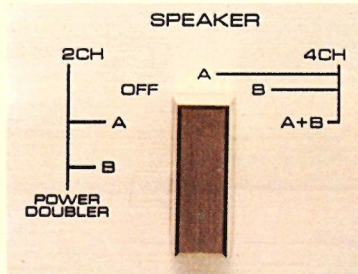
A built-in CD-4 demodulator circuit and CD-4 Separation Adjusters facilitate easy playback of CD-4 records. Front panel CD-4 Indicator Lamp. CD-4 test record included in standard accessories.

TWO COMPLETE 4-CHANNEL TAPE DECK CONNECTIONS FOR VARIED RECORDING AND DUBBING TECHNIQUES

Multiple Source Selector, Tape Monitor, and Mode Switch positions and two complete tape systems for a plethora of 2-channel or 4-channel recording and dubbing techniques. Use Tape 1 and Tape 2 systems separately or simultaneously. Easy dubbing to and from Tape 1 and Tape 2 Systems.

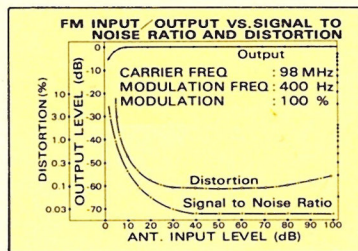
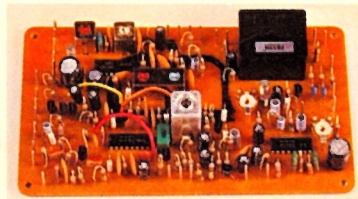
TWO CHANNEL POWER DOUBLER

Setting the Speaker Switch to 2-CH POWER DOUBLER switches the amplifiers to BTL for all available power in 2-channel mode. Further, transition is smooth with no irritating speaker noise.



UP-TO-DATE HIGH EFFICIENCY IC CIRCUITRY IN FM IF SECTION

This totally new up-to-date element is comprised of a 6 stage limiter circuit, a detection circuit, and several auxiliary circuits and does the work of 213 separate parts using parts available to date. Namely, it would require 100 transistors, 84 resistors, 25 diodes and 4 condensers to accomplish the same thing. Further, because the detection circuit employs "quadrature" detection, excellent linearity and low distortion is attained over an exceptionally wide frequency range.

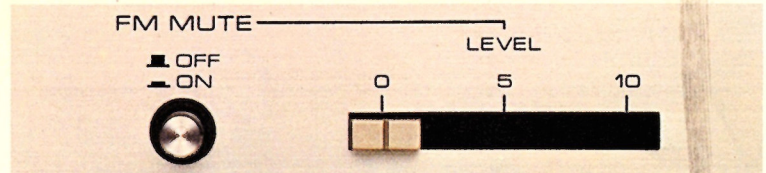
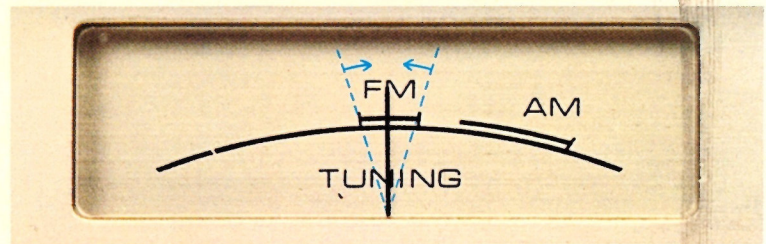


PLL MPX SECTION FOR GOOD SEPARATION AND LOW DISTORTION

This model features the new PLL (Phase-Lock-Loop) circuit which locks the 19 KHz FM pilot signal phase to the phase of the 38 KHz switching signal for complete stability. Separation better than 40 dB. Less than 0.4% total harmonic distortion.

AUTOMATIC FM CENTER TUNING AND WIDE RANGE VARIABLE FM MUTING

Perfect center tuning is always attained! With AFC (automatic frequency control), it is not necessary to tune to exact FM center frequency. Simply bring the needle within the FM center scale of the meter and perfect center tuning is automatically established within about 3 seconds. Drift-free reception regardless of fluctuation in power supply voltage or temperature. An FM Muting Switch and Slide Type Level Adjuster enables the operator to effectively cut noise originating prior to antenna input and to widely vary the muting level according to wave strength ($3\mu\text{V}$ to $300\mu\text{V}$).



LARGE BALANCED FLYWHEEL TUNING

Large balanced flywheel tuning and superior FM and AM circuitry provides smooth and easy "power steering" tuning and top FM and AM reception.

LOUDNESS CIRCUIT FOR BALANCED SOUND AT LOW VOLUME

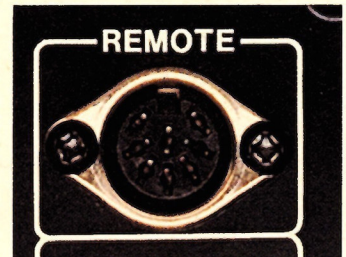
Boosts bass and treble response for balanced sound at low volume.

HIGH AND LOW FILTER SWITCHES

Eliminates high and low frequency disturbances for clearer playback.

4-CHANNEL REMOTE CONTROL BALANCE

A rear panel Remote Control Jack accommodates AKAI optional accessory Remote Control Unit RC-4CH for remote control of front/rear and left/right speaker balance and volume.



FM 4-CH OUTPUT TERMINAL

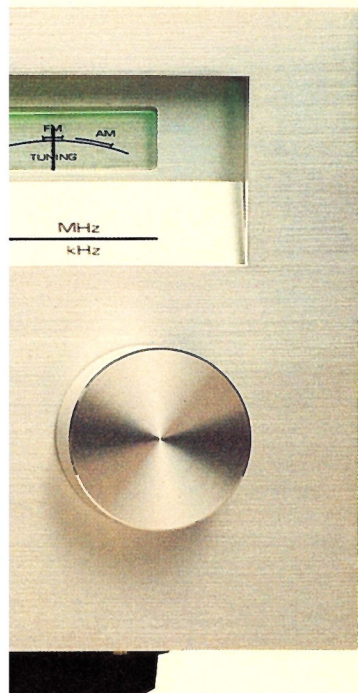
Equipped with rear panel FM 4-channel output terminal for connection of an adapter for future FM 4-CH broadcast reception.

TWO FULL SPEAKER SYSTEMS FEATURE EASY PUSH-BUTTON CONNECTION

300Ω AND 75Ω ANTENNA TERMINALS WITH DISTANCE/LOCAL SWITCH PLUS AM BAR ANTENNA

SEPARATE FRONT AND REAR CHANNEL BASS AND TREBLE CONTROLS FOR PERFECT TONE CONTROL

FRONT AND REAR CHANNEL HEADPHONE JACKS



CONNECTIONS

4-CH REMOTE CONTROL JACK

For connection of 4-CH Remote Control Unit **RC-4CH**. By utilizing this unit, 4-CH front/rear and left/right speaker balance and volume can be remote controlled.

FM SENSITIVITY SWITCH

PHONO JACKS

Connect to outputs of magnetic cartridge type turn-table.

PHONO GROUND TERMINAL

For use in grounding the amplifier with a record player.

L/R FRONT

L/R REAR

AUX TERMINALS

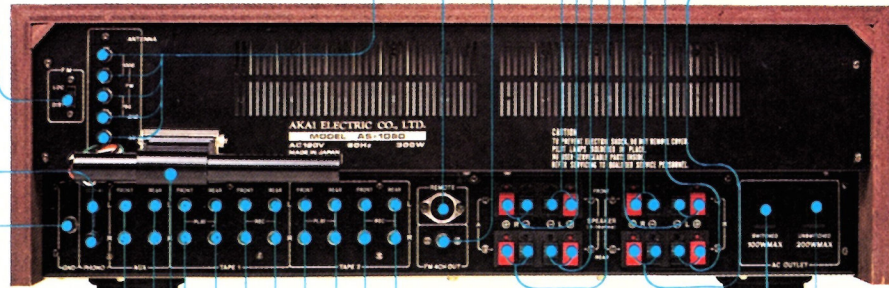
For connection of relatively high output components such as a crystal or ceramic type cartridge turntable or a tape deck or recorder.

AM FERRITE BAR ANTENNA

FM 4-CH OUTPUT TERMINAL
For connection of adapter for future FM 4-CH broadcast.

A AND B SYSTEM SPEAKER TERMINALS
These push-button speaker terminals facilitate easy speaker connection.

FM AND AM ANTENNA TERMINALS



L/R REAR IN

L/R FRONT IN

L/R REAR OUT

L/R FRONT OUT

L/R REAR IN

L/R FRONT IN

L/R REAR OUT

L/R FRONT OUT

TAPE 2 4-CH TAPE DECK

TAPE 1 4-CH TAPE DECK

EXTRA AC OUTLETS
(CEE Models not equipped with this facility)

TECHNICAL DATA

AMPLIFIER SECTION

Continuous Power Output

4 channels driven 40 watts per channel, min. RMS, at 8 ohms load impedance from 20 Hz to 20,000 Hz, with no more than 0.2% total harmonic distortion.
(4 x 50 watts into 8 ohms at 1 KHz with no more than 0.2% total harmonic distortion)

2 channels driven

(Power Doubler ON) . . . 80 watts per channel, minimum RMS, at 8 ohms load impedance from 20 Hz to 20,000 Hz, with no more than 0.2% total harmonic distortion.
(2 x 100 watts into 8 ohms at 1 KHz with no more than 0.2% total harmonic distortion)

Power Bandwidth (IHF) . . 10 Hz to 60,000 Hz/8 ohms
(Distortion within 0.2%)

Input Sensitivity

Phono 3 mV/47 K ohms
(CD-4 1.5 mV/47 K ohms)
AUX 160 mV/47 K ohms
Tape 1 & 2 160 mV/47 K ohms

Signal-to-Noise Ratio (IHF)

Phono Better than 80 dB
AUX Better than 90 dB

Channel Separation (IHF)

Phono Better than 50 dB (at 1,000 Hz)

Equalizer RIAA ±1 dB (Phono)

Tone Control Bass ±10 dB at 100 Hz
Treble ±10 dB at 10 KHz

Loudness Control +9 dB at 100 Hz, +4 dB at 10 KHz
(Volume Control at -30 dB position)

Filter High -6 dB at 10 KHz
Low -10 dB at 50 Hz

FM TUNER SECTION

Frequency Range 88 MHz to 108 MHz

Sensitivity (IHF) 1.9 μ V

Capture Ratio (IHF) 1.0 dB

Selectivity (IHF) Better than 70 dB at 98 MHz

Signal-to-Noise Ratio Better than 70 dB

Image Rejection Better than 75 dB at 98 MHz

IF Rejection Better than 90 dB at 98 MHz

Spurious Rejection Better than 80 dB at 98 MHz

Harmonic Distortion Monaural Less than 0.2%

Stereo Less than 0.4%

FM Stereo Separation Better than 40 dB (1,000 Hz)

FM Muting Variable (3 μ V to 300 μ V) ON-OFF

Antenna Input

Impedance 300 ohms balanced, 75 ohms unbalanced

AM TUNER SECTION

Frequency Range 535 KHz to 1,605 KHz

Sensitivity (IHF) 200 μ V/m (Bar Antenna), 5 μ V (EXT. Antenna)

Image Rejection Better than 55 dB at 1,000 KHz

IF Rejection Better than 45 dB at 1,000 KHz

Selectivity (IHF) Better than 30 dB at 1,000 KHz

AM Distortion Less than 0.6%

Signal-to-Noise Ratio Better than 50 dB

Semi-Conductors 1 FET, 85 Transistors, 58 Diodes, 14 ICs

Power Requirement CSA, UL and LA Models: 120V, 60 Hz only.

CEE Models: 220V, 50 Hz only.

Other Models: 110V/220V/240V (Switchable).

Dimensions 520(W) x 182(H) x 409(D) mm

20.5(W) x 7.2(H) x 16.1(D) inches

Weight 19.0 Kg (41.8 lbs).

* For improvement purposes, specifications and design are subject to change without notice.

STANDARD ACCESSORIES

FM Di-pole Antenna	1
4-CH test record	1
Spare fuses	1 set
Operator's Manual	1

* Spare fuses not included with CEE, CSA, UL, and LA models.

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