

Technics®

97/98





Aiming For The Highest Fidelity

A composer creates music with notes and periods of silence. Performers then add their personal interpretation to the piece. To let you hear every note and rest, and every nuance of musical expression, Technics developed Silence Technology. The result is a hi-fi listening experience that shows you just how serious about sound we are.

Silence Technology





Super Linearity and Super Sound Quality—MOS Class AA

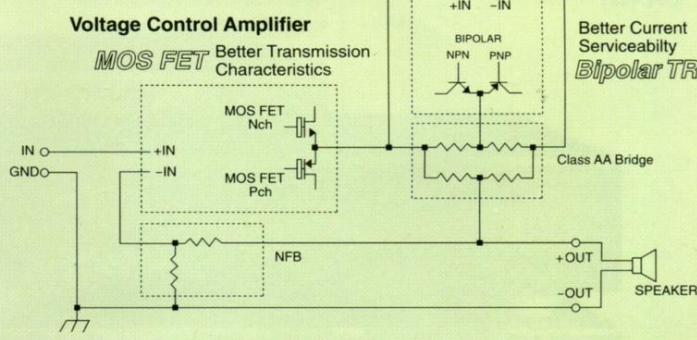
The best device for use in an amplifier's output stage is the MOS-FET (metal oxide semiconductor field effect transistor). In contrast to the common bipolar transistor which is a current amplification device, the MOS-FET uses input voltage to amplify output current, much like a vacuum tube. This gives the MOS-FET outstanding transfer characteristics particularly in terms of linearity, as confirmed by its audibly superior sound quality. Technics MOS Class AA takes maximum advantage of MOS-FET linearity in its class A voltage control amp, while using bipolar transistors for the current drive amp, since the MOS-FET is not the optimum for such large current applications. The two amp circuits are linked by a Special Class AA Bridge Connection, creating a new kind of power amp stage. This epoch making MOS Class AA Circuit reaches its full potential by employing newly developed Technics original MOS-FET devices. This virtually ideal amp offers outstanding sound quality that is superior to that of conventional high-priced Class A amps, and is endowed with powerful speaker drive capability, all at a remarkably reasonable price.

Advanced Virtual Battery Operation Eliminates Power Supply Noise and Achieves Low Impedance

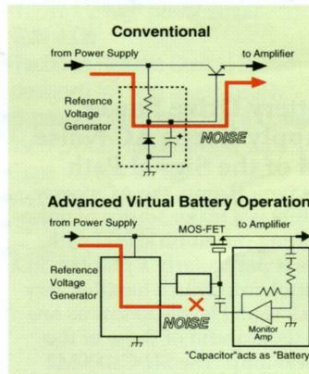
A-V.B.O.

Technics developed Virtual Battery Operation to effectively reduce noise from the power supply circuit. By taking advantage of MOS-FET characteristics this new concept provides performance rivaling that of a battery, the ideal audio power supply, thereby assuring exceptional sound quality. Conventional power supply noise passes through the reference voltage generator circuit, and bipolar transistor, manifesting itself in the output. Virtual Battery Operation uses the reference voltage generator circuit to charge a capacitor which serves as a battery. The capacitor voltage is applied to the MOS-FET gate, preventing noise contamination.

MOS class AA



This eliminates power supply influence, supplying battery quality power for rich, deep bass, and clear middles and highs. By adding a monitor and control amp to this Advanced Version, voltage is stabilized regardless of current fluctuations. This achieves low impedance operation, thereby helping assure low-range solidity, mid-high-range clarity, and sharp imaging.



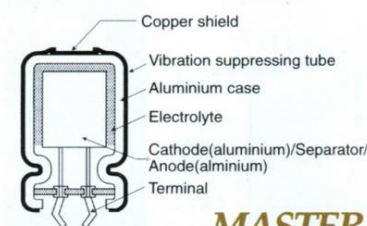
High Performance MASTER Series Electrolytic Capacitor

The capacitor is another device with a definite influence on sound quality. It helps filter the rectified power supply current to provide a smooth DC current for audio signal amplification. As the capacitor handles large currents (the same number of amperes that drive the speakers) its performance is closely linked with sound quality. Capacitor vibration can easily spoil that quality. The MASTER Series capacitors feature an improved electrolyte and aluminium foil construction for maximum performance. The latest version of these aluminium electrolytic capacitors feature an important development

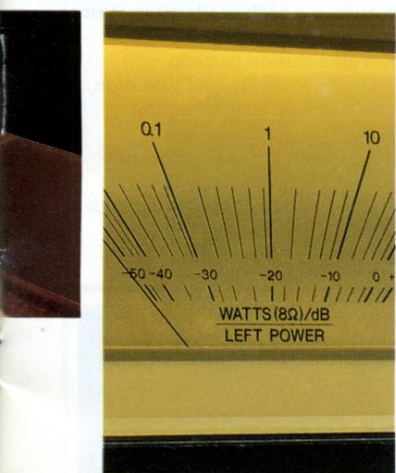
in their internal construction. Capacitors of this type employ separators between the aluminium foil cathode and anode. These separators provide structural strength and they keep the electrolyte in uniform contact with the aluminium foil. After a thorough review of possible separator materials, we selected Japanese "Take" (ta-keh) bamboo. The new separator is made of Take pulp, taking advantage of Take's strong fibres.



This contributes to outstanding vibration damping characteristics and improved conductivity in the latest MASTER Series electrolytic capacitors. The result is more dynamic, lifelike sound that brings out the delicate nuances of musical expression. Selection of each of the materials used in this capacitor required persistent and repeated listening tests. It was only when the combination of materials was exactly right that we decided that this was truly the optimum capacitor for audio applications.



MASTER
Series



Amplifiers

SE-A1000M2

Stereo Power Amplifier

MOS class **AA** **MASTER**
Series

- Super linearity and super sound quality – MOS Class AA circuit
- MASTER Series "Take" capacitor for high quality sound
- Technics Hybrid Diecast Panel suppresses vibrations
- 120W x 2 high power output (DIN 4Ω)

- Level control on rear panel for gain fine tuning for bi-amp use (Separate terminals without level control are also provided for cases where level control is not needed.)
- Large needle-type power meters with light on/off switch
- A and/or B speaker selector
- Headphone jack

SU-C1000M2

Stereo Control Amplifier

Battery Drive POWER SUPPLY
R-Core Transformer
MASTER Series

- Battery Drive Power Supply keeps AC noise out of the signal path
- R-Core transformer eliminates magnetic flux leakage
- MASTER Series "Take" capacitor for high quality sound
- Hi-Fi volume control with high quality sound
- Technics Hybrid Diecast Panel suppresses vibrations

- Special outputs for Bi-amp connection
- Technics Remote Control System designed for high sound quality
- MM/MC phono selector
- 6-position input selectors (CD, tape 1, tape 2/DCC, tuner, phono, aux)
- Tape monitor switch
- Tone controls with tone defeat switch
- Balance control
- Muting switch



Special Outputs for Bi-amp Connection

The SU-C1000M2/A900DM2/A800DM2 each have additional outputs so you can drive a speaker's high range and low range independently via two power amps*. This kind of bi-amp connection can help achieve greater realism and richness in stereo reproduction, with clear, undistorted treble and powerful bass.

*Ideal for use with matching power amp SE-A1000M2.

Battery Drive Power Supply Keeps AC Noise out of the Signal Path

In a typical amp, the AC power supply is a major source of noise entering the audio signal path. This is particularly a problem in a control amp which handles very small signal levels as low as one ten-thousandth of those of the power amp. The SU-C1000M2 control amp solves this problem by employing a battery drive power supply. This completely separates the AC power supply from the audio signal path, minimizing switching

noise and noise pickup between components. This assures more faithful reproduction of delicate signals such as hall reverberation – so you can hear every detail of a solo piano or violin. And even in the AC mode, the R-core transformer minimizes leakage flux, assuring power supply stability with remarkably low noise.

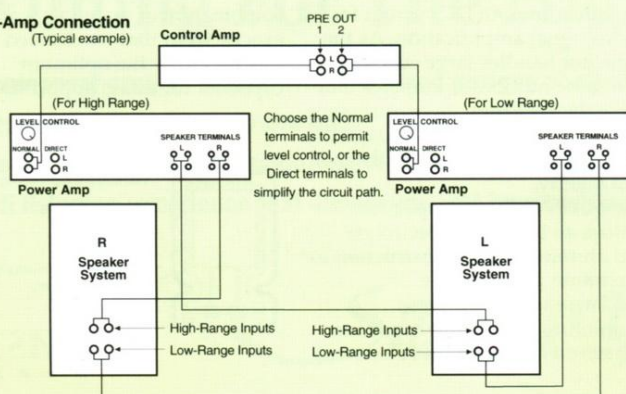
A special NiCd battery pack provides about 30 hours of continuous operation, more than enough for typical use. Battery recharging begins automatically whenever power is switched off. In case long continuous use does exhaust the battery, the amp switches

automatically to conventional rectified AC operation accompanied by simultaneous battery recharging. After about ten hours, when full recharging is complete battery drive then resumes.

Hi-Fi Volume Control

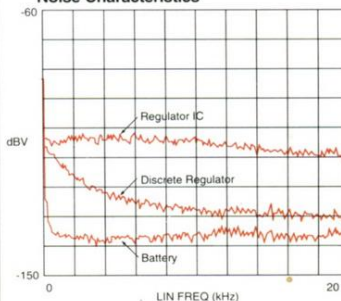
The volume control attenuator has a major effect on sound quality. In the SU-C1000M2, it comprises a high grade attenuator with gold-plated wipe brush, ultra-fine carbon particle resistance element, and vibration damping materials including zinc/ PBT (polybutylene terephthalate) case. The result is precision volume control capability while maintaining high fidelity.

Bi-Amp Connection (Typical example)



Battery Drive
POWER SUPPLY

Noise Characteristics



SU-A900DM2

Stereo Power Amplifier/Control Amplifier

MOS class **AA**

A-V.B.O.

MASTER
Series

- Separate amplifier configuration
- Super linearity and super sound quality – MOS Class AA circuit
- Advanced Virtual Battery Operation eliminates power supply noise and achieves low impedance for preamplifier section
- MASTER Series "Take" capacitor for high quality sound
- Technics Hybrid Diecast Panel suppresses vibrations
- Special outputs for Bi-amp connection
- 120W x 2 high power output (DIN 4 Ω)
- Large needle-type power meters
- Technics Remote Control System designed for high sound quality
- 6-position input selectors (CD, tape 1, tape 2/DCC, tuner, phono, aux)
- Tape monitor switch
- A and/or B speaker selector
- Tone controls with tone defeat switch
- Balance control



SU-A800DM2

Stereo Power Amplifier/Control Amplifier

MOS class **AA**

A-V.B.O.

MASTER
Series

- Separate amplifier configuration
- Super linearity and super sound quality – MOS Class AA circuit
- Advanced Virtual Battery Operation eliminates power supply noise and achieves low impedance for preamplifier section
- MASTER Series "Take" capacitor for high quality sound
- Technics Hybrid Diecast Panel suppresses vibrations
- Special outputs for Bi-amp connection
- 100W x 2 high power output (DIN 4 Ω)
- Technics Remote Control System designed for high sound quality
- 6-position input selectors (CD, tape 1, tape 2/DCC, tuner, phono, aux)
- Tape monitor switch
- A and/or B speaker selector
- Tone controls with tone defeat switch
- Balance control



Technics Remote Control System Designed for High Sound Quality

Technics amplifiers (except SU-A600MK3/V300) feature the remote control system. Besides controlling the amp's own power on/off, input selector and volume control, the remote commander operates major functions including power on/off of selected Technics tuners, CD players/changers, DCC decks and cassette decks. This makes these amps the ideal remote control center for your audio system. To assure outstanding sound quality in addition to convenience, these amps' volume control is motor driven.



SU-A700MK3

Stereo Integrated Amplifier

MOS class **AA**

R-Core THCB

MASTER Series

- Super linearity and super sound quality – MOS Class AA Circuit
- MASTER Series "Take" capacitor for high quality sound
- R-Core Transformer – effective protection against magnetic flux leakage
- THCB (Technics Hybrid Construction Base) for excellent vibration damping

- 80W x 2 high power output (DIN 4Ω)
- Technics Remote Control System designed for high sound quality
- High quality volume control for high-fidelity reproduction
- 6-position input selectors (CD, tape 1, tape 2, tuner, phono, aux)
- A and/or B speaker selector
- Tone controls with tone defeat switch



SU-A600MK3

Stereo Integrated Amplifier

MOS class **AA**

R-Core THCB

MASTER Series

- Super linearity and super sound quality – MOS Class AA Circuit
- MASTER Series "Take" capacitor for high quality sound
- R-Core Transformer – effective protection against magnetic flux leakage
- THCB (Technics Hybrid Construction Base) for excellent vibration damping

- 60W x 2 high power output (DIN 4Ω)
- High quality volume control for high-fidelity reproduction
- 6-position input selectors (CD, tape 1, tape 2, tuner, phono, aux)
- A and/or B speaker selector
- Tone controls with tone defeat switch



SU-V620

Stereo Integrated Amplifier

new class **A**

- New Class A circuitry for clear, undistorted sound
- 100W x 2 high output power (DIN 4Ω)
- Technics Remote Control System designed for high sound quality
- 6-position input selectors (CD, tape 1, tape 2/DCC, tuner, phono, aux)
- Quiet phono EQ circuitry
- A and/or B speaker selection
- Bass/treble tone controls
- Large insulating feet
- Balance control
- Headphone jack



SU-V500

Stereo Integrated Amplifier

new class **A**

- New Class A circuitry for clear, undistorted sound
- 50W x 2 output power (DIN 4Ω)
- New Technics Remote Control System designed for high sound quality

- 6-position input selectors (CD, tape 1, tape 2/DCC, tuner, phono, aux)
- Quiet phono EQ circuitry
- A and/or B speaker selection
- Loudness switch
- Bass/treble tone controls
- Large insulating feet
- Balance control
- Headphone jack



SU-V300

Stereo Integrated Amplifier

new class **A**

- New Class A circuitry for clear, undistorted sound
- 40W x 2 output power (DIN 4Ω)
- 6-position input selectors (CD, tape 1, tape 2/DCC, tuner, phono, aux)

- Quiet phono EQ circuitry
- A and/or B speaker selection
- Loudness switch
- Bass/treble tone controls
- Large insulating feet
- Balance control
- Headphone jack



Technics received high acclaim in European Hi-Fi Magazines

SE-A1000/SU-C1000 Power Amplifier/Control Amplifier



HiFi Test (Jan. 1996)
Germany

SL-PG580A Compact Disc Player



WHAT HI-FI?
(Awards 1996)
U.K.

RS-AZ7 Amorphous-Z 3-Head Cassette Deck



HI-FI CHOICE
(Oct. 1996)
U.K.

SB-M500 3-Way, 4-Speaker Dual Dynamic Drive Speaker System

Oberklasse 999



Audio
(May 1996)
Germany

SA-TX50 Home THX Control Receiver



la nouvelle REVUE DU SON
(Oct. 1996) France

SA-EX300 Home Theater Receiver



WHAT VIDEO & TV
(Oct. 1996)
U.K.

Products received European Audio Awards

SL-PS770A Compact Disc Player



European
CD Player
(1995~1996)

SH-AV500 Processor for Home Theater Use



European
Home Theater Decoder
(1996~1997)

Tuners

ST-GT650

Stereo Synthesizer Tuner



- Radio Data System (RDS) ready
- Computer controlled auto IF bandwidth selector
- Easy-to-operate rotary encoded tuning knob
- AM/FM 39-channel random access preset memory

- Class AA output amp circuitry for signal transfer accuracy
- DC Linear Switching MPX reduces distortion and expands dynamic range.

- Multi-function FL display
- Independent RDS display
- Signal strength digital indicator
- Auto-scan tuning and auto memory

- Connecting to a selected Technics remote control amp enables preset memory selection by remote control.



ST-GT550

Stereo Synthesizer Tuner



- Radio Data System (RDS) ready
- Computer controlled auto IF bandwidth selector
- Easy-to-operate rotary encoded tuning knob
- AM/FM 39-channel random access preset memory

- Class AA output amp circuitry for signal transfer accuracy
- DC Linear Switching MPX reduces distortion and expands dynamic range.
- Multi-function FL display
- Signal strength digital indicator
- Auto-scan tuning and auto memory
- Connecting to a selected Technics remote control amp enables preset memory selection by remote control.

ST-GT350

Stereo Synthesizer Tuner

- Easy-to-operate rotary encode tuning knob
- AM/FM 30-channel random access preset memory
- Multi-function FL display
- Signal strength digital indicator
- Auto-scan tuning and auto memory
- FM auto/mono mode switch

- Connecting to a selected Technics remote control amp enables preset memory selection and power on/off switching by remote control.
- Large cabinet feet



Sound Processor/Graphic Equalizers

SH-GE50

Stereo Graphic Equalizer

- 7-band, ± 12 dB equalization for each channel
- Center frequencies at 63Hz, 160Hz, 400Hz, 1kHz, 2.5kHz, 6.3kHz and 16kHz
- Smooth slide controls with LED indicators
- LED signal level indicators for L/R channels

- Tape recording/playback with equalization for car stereo or headphone use
- Low distortion electronic band pass filter



SH-GE90

Digital Sound Processor

D.S.P.

- High quality sound processor with DSP (Digital Signal Processing)
- Digital parametric equalizer lets you boost or attenuate response at any three of 24 center frequencies.
- Six preset sound settings (Heavy, Clear, Soft, Vocal, Headphone Stereo, Car stereo)

- Six preset sound field settings (Hall, Live, Disco, Church, Stadium, Theater)
- Karaoke/Voice Mute button with handy key control and reverb/echo effects
- Two microphone inputs with level control
- 3-mode spectrum analyzer curve display
- Sophisticated functions are easy to operate with handy jog dial.

SH-GE70

Electronic Stereo Graphic Equalizer with Spectrum Analyzer

- The SH-GE70 lets you boost or attenuate up to 12dB (in steps of 2dB) in seven bands across the audio spectrum.
- Electronic up/down keys make setting easy – simply watch the FL display as you key in the desired curve.

- 12-preset EQ curve memory includes 6-factory presets.
- Dual spectrum analyzers/EQ curve displays for L/R channels.



Cassette Decks

RS-AZ7

Amorphous-Z 3-Head Cassette Deck



HX PRO **DOLBY B-C NR**

THCB V.B.O. MASTER Series

- Amorphous-Z Head significantly improves playback performance
- Play Direct function preserves signal purity for natural playback sound quality
- High grade construction using selected parts – Virtual Battery Operation, MASTER Series Capacitors, and THCB (Technics Hybrid Construction Base)
- ATC (Auto Tape Calibration) for optimum performance from each tape

- Advanced tape transport mechanism – Hi-Speed FF/REW and Power Loading with Auto Lift-up Eject
- Linear Magne-Field Class AA record EQ/amp
- THDP (Technics Hybrid Diecast Panel)
- Dolby[®]1 HX Pro & Dolby B/C NR systems
- LED key indicators and cassette door illuminator
- Hi-speed TPS (Tape Program Search)
- Linear electronic counter with memory stop
- Auto tape/source monitor select
- MPX filter on/off
- Wireless remote control capability with selected Technics amplifiers and receivers

*1 "Dolby", the double-D symbol **DD**, and "HX Pro" are trademarks of Dolby Laboratories Licensing Corporation.



RS-AZ6

Amorphous-Z 3-Head Cassette Deck



HX PRO **DOLBY B-C NR**

THCB

- Amorphous-Z Head significantly improves playback performance
- ATC (Auto Tape Calibration) for optimum performance from each tape
- Advanced tape transport mechanism – Hi-Speed FF/REW and Power Loading
- Linear Magne-Field Class AA record EQ/amp
- Anti-vibration THCB (Technical Hybrid Construction Base)
- Dolby HX Pro & Dolby B/C NR systems
- Hi-speed TPS (Tape Program Search)
- Linear electronic counter with memory stop
- Auto tape/source monitor select
- MPX filter on/off
- Wireless remote control capability with selected Technics amplifiers and receivers



RS-BX501

Auto-Reverse 2-Motor Cassette Deck

HX PRO **DOLBY B-C NR**

AUTO REVERSE

- ATC (Auto Tape Calibration) for bias, EQ and rec-level
- Auto-reverse 2-motor tape transport
- Hi-speed FF/REW (approx. 50 seconds with C-60 tape)
- Direct operation with power loading

- Dolby HX Pro & Dolby B-C NR systems
- Wireless remote control capability with selected Technics amplifiers and receivers
- MPX filter on/off switch
- Linear electronic counter with memory stop
- 2-color FL peak-hold meters
- Auto tape selector and auto rec-mute
- Master rec level and independent balance controls
- Headphone output level control



RS-TR575

Double Auto-Reverse Cassette Deck

ADVANCED AR1 MECHANISM **HX PRO** **DOLBY B-C NR**

AUTO REVERSE

- Features two auto-reverse decks: DECK 2 rec/play, DECK 1 rec/play
- Parallel recording and series recording
- 24-hour series playback (two C-90 tapes)
- ATC (Auto Tape Calibration) for bias, EQ and rec-level (DECK 2)

- Advanced AR1 mechanism: HI-SPEED FF/REW (approx. 50 seconds with C-60 tape)
- Direct operation with power loading
- Dolby HX Pro
- Dolby B-C NR
- 2-motor full-logic control
- Dual linear electronic tape counters
- Wireless remote control capability with selected Technics amplifiers and receivers
- High-speed editing with synchro start/stop
- 2-color FL peak-hold meters
- TPS (tape program sensor)



RS-TR474

Double Auto-Reverse Cassette Deck

ADVANCED AR1 MECHANISM **HX PRO** **DOLBY B-C NR**

AUTO REVERSE

- Features two auto-reverse decks: DECK 2 rec/play, DECK 1 play only
- ATC (Auto Tape Calibration) for bias, EQ and rec-level (DECK 2)

- Advanced AR1 mechanism: HI-SPEED FF/REW (approx. 50 seconds with C-60 tape)
- Direct operation with power loading
- 24-hour series playback (two C-90 tapes)
- Dolby HX Pro
- Dolby B-C NR
- 2-motor full-logic control
- Dual linear electronic tape counters
- Wireless remote control capability with selected Technics amplifiers and receivers
- High-speed editing with synchro start/stop
- 2-color FL peak-hold meters



RS-TR373

Double Auto-Reverse Cassette Deck

DOLBY B-C NR **AUTO REVERSE**

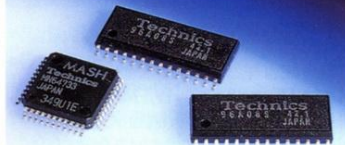
- Features two auto-reverse decks: DECK 2 rec/play, DECK 1 play only
- Direct operation with power loading
- 24-hour series playback (two C-90 tapes)
- Dolby B-C NR
- 2-motor full-logic control
- Dual FL electronic tape counters
- Wireless remote control capability with selected Technics amplifiers and receivers
- High-speed editing with synchro start/stop
- 2-color FL peak-hold meters



CD Players

MASH
multi-stage noise shaping

class A
DAC

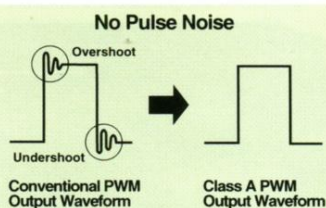


Ultra-Fidelity Brought to You by the S-Advanced MASH Class A DAC System

The SL-PS770D's remarkable fidelity comes from its newly developed breakthrough D/A converter system called the S-Advanced MASH² Class A DAC. Technics developed this technology to overcome the problem of CD reproduction being tainted by distortion stemming from power supply fluctuations. This D/A converter system is made up of the S-Advanced MASH – Technics' most advanced MASH, attaining a theoretical dynamic range of 145dB and incorporating 4th order noise shaping and digital de-

emphasis circuitry – together with our newly developed Class A PWM output stage. Instead of using the usual C-MOS transistor construction, Class A PWM employs the bipolar process which reduces overshoot and undershoot in the PWM waveform by curbing current conduction at the transition point. Virtually ideal PWM output is the result, for satisfyingly solid bass tones, unsullied by the usual distortion originating in power supply fluctuations.

To avoid pickup of digital noise, three separate chips are used: one LSI for the S-Advanced MASH, and two IC's for Class A PWM output (left and right). This also minimizes crosstalk between the stereo channels, further contributing to purity of



music reproduction. Listen, and confirm the phenomenal difference for yourself.

*2 Technics developed the world's first MASH type DAC. MASH technology was invented by NTT (LSI Labs). MASH is a trademark of NTT.

Virtual Battery Operation Reduces Noise from the Power Supply Circuit **V.B.O.**

Technics developed virtual battery operation to effectively reduce noise from the power supply and digital circuits.

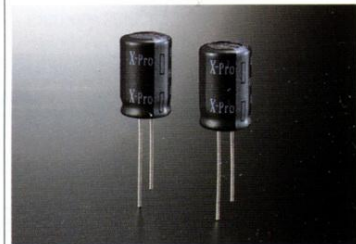
This new concept provides performance rivaling that of a battery, the ideal audio power supply, thereby assuring exceptional sound quality.

High-Fidelity Audio Parts

To achieve superior sound quality in the SL-PS770D/PS670D, Technics has employed a variety of technical approaches. First, and already proven in Technics A-series amps, the "Take" (tah-keh) electrolytic capacitors employ Japanese bamboo pulp as the separator between the aluminium foil cathode and anode. This takes advantage of the strong fibre's ability

to absorb vibrations and extend electrolyte conductivity. The result is more detailed treble and solid bass.

Second, OS capacitors are also employed, featuring New Organic Semiconductive Electrolyte for outstanding low impedance in the high range. Highly effective for digital noise elimination, these capacitors contribute to the lifelike ambience and spacious sound-stage reproduction capability of the SL-PS770D/PS670D. A third major technical feature is the operational amplifier selected for its high slew rate, low distortion, and low noise characteristics, giving extra refinement to music.



SL-PS770D

Compact Disc Player

class A MASH multi-stage noise shaping **THCB**
V.B.O. **DIGITAL SERVO** **Digital Optical Link**

- S-Advanced MASH Class A DAC System for ultra-fidelity sound reproduction
- Virtual Battery Operation reduces noise from the power supply circuit
- "Take" capacitors and OS capacitors for high quality sound
- High slew rate, low distortion and low noise operational amp
- Anti-vibration Technics Hybrid Construction Base

- Digital Servo System helps improve playability
- Technics Hybrid Diecast Panel
- Optical digital output terminal
- Convenient CD editing function: Edit Guide, Time Fade, Peak Level Search
- Illuminated play (green) and pause (amber) keys

- Center disc tray design and centrally located optical deck mechanism for balanced weight distribution
- Auto Cue pauses playback at the very beginning of the first sound on any selected track.
- Remote control with 10-key direct access

- 10-key direct access on main unit
- 20-selection random access programming
- Multi-function FL display with music matrix
- Headphone jack with volume control



SL-PS670D

Compact Disc Player

MASH multi-stage noise shaping **THCB** **Digital Optical Link**
DIGITAL SERVO

- High-Grade MASH 1-Bit DAC further reduces distortion
- "Take" capacitors and OS capacitors for high quality sound
- Low distortion and low noise operational amp
- Anti-vibration Technics Hybrid Construction Base
- Digital Servo System helps improve playability

- Technics Hybrid Diecast Panel
- Optical digital output terminal
- Convenient CD editing function: Edit Guide, Time Fade, Peak Level Search
- Center disc tray design and centrally located optical deck mechanism for balanced weight distribution

- Auto Cue pauses playback at the very beginning of the first sound on any selected track.
- Remote control with 10-key direct access
- 10-key direct access on main unit
- 20-selection random access programming

- Multi-function FL display with music matrix
- Headphone jack with volume control



SL-PG580A

Compact Disc Player



- Super One-Chip LSI featuring MASH 1-bit DAC and advanced Digital Servo System for high quality sound
- Anti-vibration Technics Hybrid Construction Base
- Center disc tray design and centrally located optical deck mechanism for balanced weight distribution

- Convenient CD editing function: Edit Guide, Time Fade, Peak Level Search
- Remote control unit with 10-key direct access
- 10-key direct access on main unit
- 20-selection random access programming
- Multi-function FL display
- Random Play and Auto Cue



SL-PG480A

Compact Disc Player



- Super One-Chip LSI featuring MASH 1-bit DAC and advanced Digital Servo System for high quality sound
- Center disc tray design and centrally located optical deck mechanism for balanced weight distribution

- Peak Level Search for level setting convenience
- Remote control unit with 10-key direct access
- 20-selection random access programming
- Multi-function FL display
- Random Play and Auto Cue

SL-PG380A

Compact Disc Player



- Super One-Chip LSI featuring MASH 1-bit DAC and advanced Digital Servo System for high quality sound
- Center disc tray design and centrally located optical deck mechanism for balanced weight distribution

- Peak Level Search for level setting convenience
- 20-selection random access programming
- Multi-function FL display
- Random Play and Auto Cue
- Remote control capability when used with selected Technics amplifiers/receivers



5-CD Changers

SL-PD887

Rotary Compact Disc Changer



- Front-loading, 5-disc rotary design lets you change any four discs while a fifth plays on.
- Quick Disc Rotation System
- Easy-to-read Disc Location Display
- ID Scan lets you preview the most recognizable section of each track.
- Full random play, one-disc random play, and spiral play

- Delete programming, even in random mode
- 32-step random access programming
- Program memory
- All control buttons including the 10 number keys are neatly arranged above the disc tray.
- Repeat capability for a single track, an entire disc, all five discs, or programmed songs
- Convenient Edit Guide function
- MASH 1-bit DAC system and advanced digital servo system
- Wireless remote control with 10-key direct access and power on/off button
- Dual directional platter and optical disc detection system
- Super quiet loading mechanism



SL-PD687

Rotary Compact Disc Changer



- Front-loading, 5-disc rotary design lets you change any four discs while a fifth plays on.
- Quick Disc Rotation System
- Easy-to-read Disc Location Display
- Full random play, one-disc random play, and spiral play
- Delete programming, even in random mode

- 32-step random access programming
- Program memory
- All control buttons including the 10 number keys are neatly arranged above the disc tray.
- Repeat capability for a single track, an entire disc, all five discs, or programmed songs
- MASH 1-bit DAC system and advanced digital servo system
- Wireless remote control capability
- Dual directional platter and optical disc detection system
- Super quiet loading mechanism



110+1 CD Changer

110+1 Disc Convenience With Technics SL-MC410 New CD Changer

If you're a music lover who listens to music every day, Technics has some great news for you – the multi-disc SL-MC410 CD changer. It lets you load up to 110+1 of your favorite discs, so there's no more searching through piles of CDs to find what you want to hear. Plus, it's the same size as a standard component, so it will easily fit into your existing audio system.

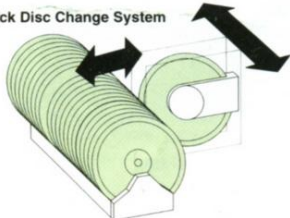
TEXT Search and TEXT Edit

The SL-MC410 is CD TEXT capable. This function records text data such as album, track and artist names in a CD's TOC (Table Of Contents) area. CDs with CD TEXT are planned for the future. The SL-MC410 is ready to handle this function, providing scrolling readouts of text data. Using the units' TEXT Search function lets you search alphabetically for artist names, album names, and track names, even when a CD is playing. This is a real convenience when accessing discs in the 110+1 CD Changer. TEXT Edit comes in handy with conventional CDs that don't have CD TEXT. This function lets you manually input disc text data into the changer's memory, using the alphabet or symbols. Input data can then be displayed like CD TEXT, enabling easy access to desired discs using TEXT Search.

Quick Disc Change Mechanism

The SL-MC410 is packed with advanced technological innovations, like the Quick

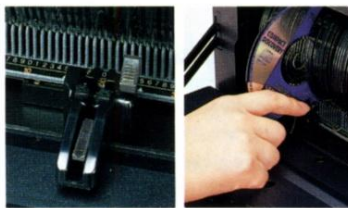
Quick Disc Change System



Disc Change System. This mechanism was specially designed by Technics for fast, smooth disc changes. The transport mechanism moves horizontally, taking one disc at a time from the disc storage rack. The disc is then lifted from below by a quick and efficient transport mechanism. This helps to assure that pauses between discs are minimal. In fact, there's even a front window panel that allows you to see the loaded discs.

Front Loading Mechanism Makes It Easy to Play One Disc, Change the Others

The SL-MC410 boasts a front-loading design that makes disc loading and ejection fast and simple. So, even if one disc is playing, you can still open the front panel and load or remove CDs as you wish. In order to eject a disc, you just simply slide the loader carriage over to the desired disc number and then press to easily lift out the CD – it's that easy! And the music never stops.



Slide the loader carriage.

Press to lift out the CD.

Special Slot for Quick Single Play

If you want to audition a disc that you've just purchased, but you don't want to take out any of the 110 discs you've already loaded, the SL-MC410 has a special



110+1
CD CHANGER



single-play slot to the left of the disc storage rack. Simply put your new CD in the slot and then press Single Play button. If you like, you can even include tracks from your single disc in programmed play with the other 110 discs.

Group Play Features Lets You Organize Your Discs

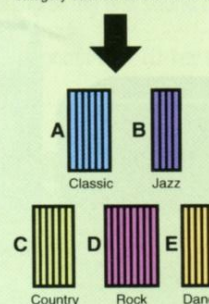
For extra convenience, the SL-MC410 has a stored memory that lets you assign any of the loaded discs into as many as five different play groups. This allows you to organize discs by musical genre, by artist

name or even by the favorite CDs of different family members – it's up to you. If you like, you can use any of the fourteen preset group names (including Classic, Country, Dance and Jazz) to identify your disc categories on the display. Once the groups are stored, you're ready to select features like Continuous Play, Random Play and other play options with discs from any of the five groups. And since disc location has nothing to do with keeping the discs in a group, if you change CDs you don't have to worry about loading the discs in a certain order.

Group Play



Each of the 110 (or 60) CDs can be assigned to any one of five groups by category such as artist or musical genre.



Supplied File Book to Organize CD Liner Notes

Since the Technics 110+1 CD changer allows you to store CD jewel cases out of sight until needed, the SL-MC410 comes complete with a file book for keeping the jacket notes of all CDs that are currently loaded. This helps to remind you which discs are loaded and their corresponding disc tray number.



SL-MC410

110+1 CD Changer

110+1 MASH
CD CHANGER multi-stage noise shaping

CD TEXT

- 110-disc plus one CD Changer System
- CD TEXT Search function and scrolling text display for easy disc/track access
- TEXT Edit function for manual text data input for conventional CDs
- Quick disc change mechanism with optical disc sensor

- Front loading mechanism makes it easy to play one disc, change the others.
- Easy disc replacement system using the loader carriage
- Quick single play function
- Group play function with fourteen preset musical genre names
- Supplied with a notebook for filing CD booklets

- Direct program and ID scan
- Program play, random play and repeat play
- MASH 1-bit DAC and digital servo system
- 10-key on the front panel
- Wireless remote control



Hi-Fi Speaker Systems



SB-M1000

4-Way 7-Speaker Dual Dynamic Drive Speaker System

- Technics D.D.D. (Dual Dynamic Drive) System achieves ultra-low bass reproduction that extends to 25Hz (-16dB). Mounted in the upper and lower portions of the SB-M1000 cabinet are two pairs each of 14cm drivers and 18cm passive radiators, forming two D.D.D. systems.
- Super Graphite dome tweeter achieves high frequency extension up to 80kHz (-16dB).
- An 8cm composite mica cone mid-high unit and a 14cm cone mid-low unit with Dynamic Linear Suspension
- Strong, high quality wood grain cabinet with polyurethane multi-layer coating
- Large gold plated terminals make possible bi-wiring connection and accept extra-thick cable.

- Protruding grille pins avoid cavity resonances and unwanted sound radiation.
- Floor-standing cabinet design
- Magnetically shielded design for AV system use.
- Detachable grille



SB-M300

3-Way, 4-Speaker Dual Dynamic Drive Speaker System

- Technics D.D.D. (Dual Dynamic Drive) System achieves astounding bass response. It minimizes cabinet resonances and its two 18cm passive radiators have the combined effective sound wave radiation area of a 25cm woofer.
- Pure mica dome tweeter achieves high frequency extension up to 45kHz.
- 14cm composite mica midrange for clear vocals
- High quality, high rigidity internally separated cabinet construction using MDF (medium density fibreboard)
- Large gold plated terminals accept 4mm plugs or extra-thick cable.

- Protruding grille pins avoid cavity resonances and unwanted sound radiation.
- Magnetically shielded design for AV system use.
- Detachable grille



Also available in black



SB-M10000

4-Way 8-Speaker Dual Dynamic Drive Speaker System

- Technics D.D.D. (Dual Dynamic Drive) System achieves ultra-low bass reproduction that extends to 20Hz. Mounted in the upper and lower portions of the SB-M10000 cabinet are two pairs each of 22cm drivers and 27cm passive radiators, forming two D.D.D. systems.
- Super Graphite dome tweeter achieves high frequency extension up to 100kHz.
- Technics Super Linear Motor achieves wide, symmetrical flux distribution to reduce harmonic distortion.
- A 6cm pure mica dome mid-high unit and two 18cm composite mica mid-low units

- Peakless Diaphragm suppresses diaphragm deformations caused by high-range resonances, thereby minimizing peaks and distortion.
- Push-pull surround design minimizes distortion
- Strong, high quality wood grain cabinet
- Strictly selected audio-purpose parts
- Gold-plated machined brass terminals accept fat cords and 4mm plugs. Multi-amping is possible using the separate terminals for lower woofer section, upper woofer section, mid-low section and mid-high section (shorting cords, supplied).



SB-M500

3-Way, 4-Speaker Dual Dynamic Drive Speaker System

- Technics D.D.D. (Dual Dynamic Drive) System achieves astounding bass response. It minimizes cabinet resonances and its two 18cm passive radiators have the combined effective sound wave radiation area of a 25cm woofer.
- Pure mica dome tweeter achieves high frequency extension up to 45kHz.
- 14cm mica cone midrange for clear vocals
- High quality, high rigidity internally separated cabinet construction using MDF (medium density fibreboard)
- 50mm thick separate baffles employed for midrange and tweeter
- Large gold plated terminals accept 4mm plugs or extra-thick cable.

- Protruding grille pins avoid cavity resonances and unwanted sound radiation.
- Floor-standing cabinet design
- Magnetically shielded design for AV system use.
- Detachable grille



SB-M20

2-Way Bass-Reflex Speaker System

- Technics Super Linear Motor achieves wide, symmetrical flux distribution to reduce harmonic distortion.
- Pure mica 2.5cm dome tweeter for smooth, clear treble
- 14cm composite mica woofer extends the range of pistonic motion.
- High quality, high rigidity painted-finished cabinet using MDF (medium density fibreboard)
- Large terminals accept 4mm plugs or extra-thick cable.

- Aero-Stream port design suppresses wind noise and turbulence in rear bass reflex vent.
- Magnetically shielded design for AV system use
- Detachable grille





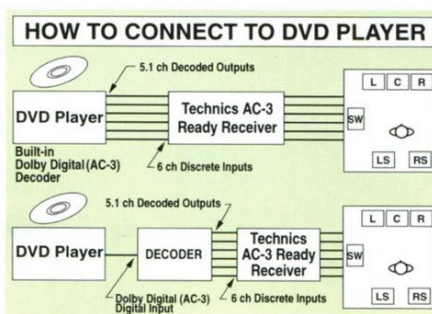
Aiming For The Ultimate In Home Theater Entertainment

Home theater entertainment brings together images and hi-fi sound for a new and exciting A/V experience. Technics goes a step further, developing original technologies and products to recreate the thrill and realism of cinema sound in your home. Which is what you'd expect from professionals who are serious about sound.

Dolby Digital (AC-3) or
Other Discrete Multi-
Channel Ready



The latest developments in movie theater sound are the Dolby Stereo Digital and DTS (Digital Theater Systems) digital discrete multi-channel surround systems. A home version of Dolby Stereo Digital is now available, with new digital coding named 5.1 channel Dolby Digital*3 (AC-3). Not only does Dolby Digital deliver crisp digital sound, it provides five independent full-bandwidth channels for front left, front right, center, surround left and





TV picture simulated.

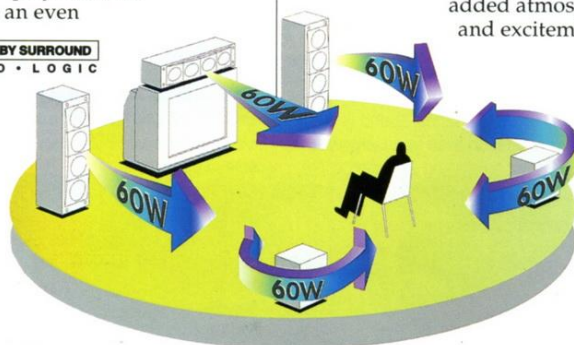
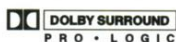
surround right, plus an LFE (Low Frequency Effect) subwoofer channel (total 5.1 channels). Since these channels are discrete, you get complete channel separation with great realism and convincing ambience. The use of Dolby Digital (AC-3) for the main audio tracks of DVD, the latest AV media, to reproduce powerful movie atmosphere and sound is becoming more widespread. The Technics SA-TX50/TX30/AX710 are ready for discrete multi-channel surround reproduction. A full six inputs (front left/right/center, surround left/right, and subwoofer) are provided to accept the analog signals from a Dolby Digital decoder or DVD player with 6 ch output. Amplification is provided for the five full-bandwidth signals to drive five speakers, while the subwoofer signal passes through the master volume control before output to a terminal for powered subwoofer connection.

The Technics "Times 5" Concept For Powerful Dolby Pro Logic And Dolby Digital Entertainment



The SA-AX710 applies the "Times 5" concept to deliver 60W each to the front left/right and center speakers, and to both surround speakers. During Dolby Pro Logic^{*3} playback, this means an even

more powerful surround effect and extra ambience. When enjoying DVD Dolby Digital 5.1CH playback, the "Times 5" concept also provides 60W to each speaker, but in this case the surround speakers are stereo. This lets you hear just how incredibly realistic DVD sound is. If you want the awesome power of movie theater sound, hook up a subwoofer to accurately reproduce low frequencies. You'll be amazed at the added atmosphere and excitement



this gives dynamic scenes such as explosions and car chases. A subwoofer is also a must for LFE (Low Frequency Effect) channel reproduction.

Reliability, High Quality, And High Power With Class H⁺ Amp Circuitry

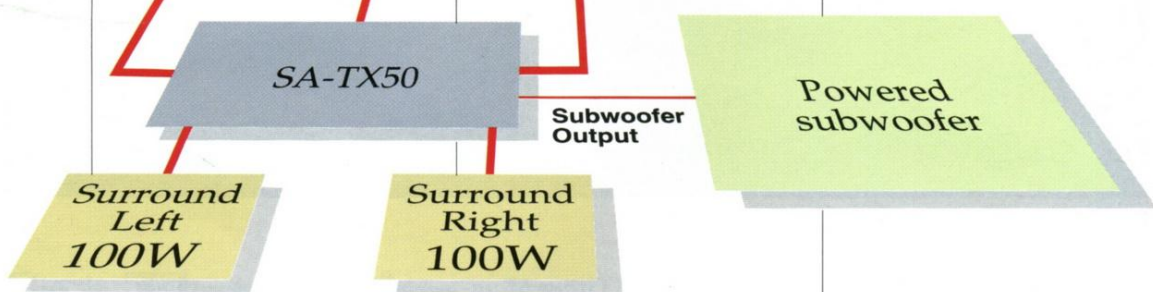
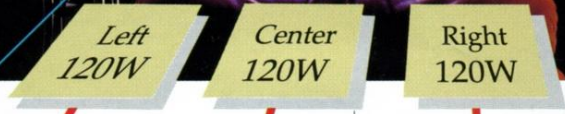
class H⁺

Our Class H⁺ amp circuitry is ideal for home theater amps. It's very efficient, so you don't have to worry about damage due to excess heat. And it's got plenty of output power to spare to help guard against "clipping" distortion, which can occur when a momentary signal peak requires more power than an amp can deliver. It's the perfect high-power amp for home theater use!

^{*3} "Dolby Digital" and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.



Home THX Receiver



TV picture simulated.



Home THX Cinema Mode with DSP (SA-TX50)

With the SA-TX50 Home THX[®]4 Control Receiver you can use the Home THX Cinema[®]4 Mode to enjoy more realistic film sound than is possible with Dolby Pro Logic decoding alone. The surround sound decoding of film soundtrack is realized through Dolby Pro Logic surround circuitry, which extracts the spatial effects of Dolby Stereo from video tapes and discs. The goal is to take the Dolby Surround output and reproduce the soundtrack in immaculate condition. As movie soundtracks are designed for playback in large theaters, not in living rooms, additional processing is required in order to allow the most accurate translation from the theater to the home environment. DSP (Digital Signal Processing) is used to attain high quality in Dolby Pro Logic decoding and three kinds of Home THX processing. The first type of processing for Home THX is re-equalization. Because the tonal characteristics of large theater

auditorium and home living rooms differ, movie soundtracks produced for large theaters sound unbalanced when played in small rooms. The SA-TX50 uses re-equalization processing to correct these tonal errors. Secondly, de-correlation processing enhances the envelopment effect of the surround channel through the use of DSP. By de-correlating the monaural surround output into two channels, the SA-TX50 assures a naturally diffuse surround sound. The third type of processing is timbre matching, which ensures that the timbre of front and surround channel sound is well-matched. The result is an intensely realistic sound field, for a listening experience like you've never heard before in your home!

* 4 THX, Home THX and Home THX Cinema are registered trademarks of Lucasfilm Ltd.

5CH Cinema Mode with DSP (SA-TX30)

The SA-TX30 lets you select this advanced 5CH Cinema Mode for more dynamic Dolby Pro Logic playback of film soundtracks. In this mode, the front left, right and center sound channels stay the same as in conventional Dolby Pro Logic reproduction. But the surround channel is converted from mono to stereo, with special DSP digital signal processing to create more spacious movement effects and a greater feeling of envelopment.

All the Information You Need with Easy-To-Read On Screen

Many TV sets and VCRs provide useful on-screen indications. Now Technics SA-TX50/TX30 offer the same convenience. For operation with the help of a wide range of easy-to-understand alphanumeric and graphic instructions, just connect the receiver to your television set. The On Screen HELP function will help reveal any problems and



suggest solutions. Key settings are displayed for functions such as amplifier operation. Test signal information is displayed when adjusting the level balance for each speaker. And because everything is displayed on a large TV screen, it's clear and easy to read and more detailed, which means smooth, sure, easy operation every time.

SA-TX50

Home THX Control Receiver

- Home THX Cinema/Dolby Pro Logic Surround/Dolby 3-Stereo/SFC/Stereo/Mono modes, center channel mode (wideband/normal/phantom), delay time (15 ~ 30 msec.) in Home THX Cinema or Dolby Pro Logic Surround mode, individual level controls (for front L/C/R, surround L/R, subwoofer), and test mode.
- Home THX Cinema or Dolby Pro Logic mode: equal high power output of 120W (1kHz, 6 Ω , 1.0% clip threshold) per Left/Center/Right channels plus 100W per Surround L/R channels
- Powerful stereo mode: 125W per channel (20Hz~20kHz, 6 Ω , 0.05% THD)
- 6 ch discrete inputs ready for Dolby Digital (AC-3) or other discrete multi-channel reproduction with optional decoder
- Class H⁺ amplifier circuitry
- On Screen HELP function
- On Screen Display
- DSP-equipped Sound Field Control (10 modes: HALL/CLUB/LIVE/THEATER/CHURCH/STADIUM/SIMULATED/SSI-1/SSI-2/SSI-3)
- 5 video and 3 audio inputs
- Front VCR input (VCR3)
- The VCR1 and VDP inputs also come with S-Video jacks
- AV remote control
- Large needle-type power meters
- Light ON/OFF switch for power meter panel (on remote control)
- Easy-to-operate Digitally Encoded Tuning
- Quartz synthesized digital tuning system
- 30-station AM/FM random access presets with convenient 10-key direct access
- Direct 10-key tuning



Rear Panel

- Remote controllable motorized volume control with center 0dB (▼REFERENCE) indication referenced to the standard volume level used for movie dubbing stage monitoring.
- Multi-function, alphanumeric display
- Bass and treble tone controls (except Home THX Cinema mode)
- A and/or B speaker selectors
- Decoder outputs (L/C/R/SL/SR and SW output) and Power Amp inputs (L/C/R/SL/SR) (RCA phono jack)

Home THX Licensed Product

Home THX Cinema/Dolby Pro Logic Mode:

Total
560W
(120W x 3 + 100W x 2)



SA-TX30

Home Theater Receiver

- 5CH Cinema/Dolby Pro Logic Surround/Dolby 3-Stereo/SFC/Stereo/Mono modes, center channel mode (wideband/normal/phantom), delay time (15 ~ 30 msec.) in 5CH Cinema or Dolby Pro Logic Surround mode, individual level controls (for front L/C/R, surround L/R, subwoofer), and test mode.
- 5CH Cinema or Dolby Pro Logic mode: equal high power output of 70W (1kHz, 6 Ω , 1.0% clip threshold) per Left/Center/Right/Surround Left/Surround Right channels
- Powerful stereo mode: 70W per channel (1kHz, 6 Ω , 1.0% THD)
- 6 ch discrete inputs ready for Dolby Digital (AC-3) or other discrete multi-channel reproduction with optional decoder
- Class H⁺ amplifier circuitry
- On Screen HELP function
- On Screen Display
- DSP-equipped Sound Field Control (7 modes: HALL/CLUB/LIVE/THEATER/CHURCH/STADIUM/SIMULATED)
- 5 video and 3 audio inputs
- Front VCR input (VCR3)
- The VCR1 and VDP inputs also come with S-Video jacks
- AV remote control
- Large needle-type power meters
- Light ON/OFF switch for power meter panel (on remote control)
- Subwoofer output (RCA phono jack)
- Easy-to-operate Digitally Encoded Tuning
- Quartz synthesized digital tuning system
- 30-station AM/FM random access presets with convenient 10-key direct access
- Direct 10-key tuning

- Remote controllable motorized volume control with center 0dB (▼REFERENCE) indication referenced to the standard volume level used for movie dubbing stage monitoring.
- Multi-function, alphanumeric display
- Bass and treble tone controls
- A and/or B speaker selectors
- Headphone jack

5CH Cinema/Dolby Pro Logic Mode:

Total
350W
(70W x 5)



Receivers

SA-AX710

Home Theater Receiver



- Dolby Pro Logic Surround: center channel mode (normal/wideband/phantom), surround on/off, delay time (15 ~ 30 msec.), surround level, center level, and test mode

- Dolby 3 Stereo
- Powerful stereo mode: 100W per channel (1kHz, 4Ω, 1.0% THD)
- Home Theater Mode: equal high power output of 60W (1kHz, 4Ω for Front L/R and 8Ω for Center/ Surround, 1.0% THD) per Left/Center/ Right/ Surround Left/ Surround Right channels
- 6-ch discrete inputs ready for Dolby Digital (AC-3) or other discrete multi-channel reproduction with optional decoder
- Class H+ amplifier circuitry

- User-friendly HELP function with LED key
- AV Remote Control
- 3 video and 4 audio input selectors
- Subwoofer output for extended bass reproduction
- Radio Data System (RDS) ready (PS/PTY/EON)
- Quartz synthesized digital tuning system
- Direct 10-key tuning (by remote control)

- Motor-driven, remote-controllable volume
- Multi-function alphanumeric FL display
- Sleep timer function
- Bass and treble tone controls
- A and/or B speaker selectors
- Balance control
- Muting switch
- Loudness control

Total 300W (60W x 5)
Home Theater Mode



SH-AC300

Digital Surround Processor



- For the supreme realism of Dolby Digital Surround Sound, this component decodes the Dolby Digital (AC-3) input signal from the DVD player, producing 5.1-channel analog signals to send to the 6-channel discrete inputs of a receiver such as the Technics SA-TX50/TX30/AX710.

- Equipped with CINEMA Re-Equalizer*5 Circuit, a major circuit of home THX audio systems. This adjusts the large theater-oriented sound of feature films to give you tonal balance suitable for the typical room size of a home theater.
- Dual digital inputs (optical/coaxial)

- Speaker selector lets you match output to your speaker configuration and the presence or absence of a subwoofer.
- Dynamic range compression on/off switch lets you keep the full range of sound audible when listening at low volume, for more natural results during night-time entertainment.

- Center/surround channel delay time control.
- Test tone, muting, and dimmer functions
- Wireless remote control

*5 CINEMA Re-Equalizer is a registered trademark of Lucasfilm Ltd.



SA-EX510

Home Theater Receiver



- Dolby Pro Logic Surround: center channel mode (normal/wideband/phantom), surround on/off, surround level, center level, and test mode
- Dolby 3 Stereo
- Powerful stereo mode: 100W per channel (1kHz, 4Ω, 1.0% THD)
- Home Theater Mode: 60W (1kHz, 4Ω for Front L/R and 8Ω for Center/ Surround, 1.0% THD) per Left/Center/Right/ Surround channels
- Class H+ amplifier circuitry

- User-friendly HELP function with LED key
- AV remote control
- 2 video and 4 audio input selectors
- Subwoofer output for extended bass reproduction

- Radio Data System (RDS) ready (PS/PTY/EON)
- Quartz synthesized digital tuning system
- Direct 10-key tuning (by remote control)
- Motor-driven, remote-controllable volume

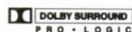
- Multi-function alphanumeric FL display
- Sleep timer function
- Bass and treble tone controls
- A and/or B speaker selectors
- Balance control
- Muting switch

Total 240W (60W x 4)
Home Theater Mode



SA-EX310

Home Theater Receiver



- Dolby Pro Logic Surround: center channel mode (normal/wideband/phantom), surround on/off, surround level, center level and test mode
- Dolby 3 Stereo
- Powerful stereo mode: 60W per channel (1kHz, 4Ω, 1.0% THD)
- Home Theater Mode: 50W (1kHz, 4Ω for Front L/R and 8Ω for Center/Surround, 1.0% THD) per Left/Center/Right/Surround channels

- AV remote control
- 2 video and 4 audio input selectors
- Subwoofer output for extended bass reproduction
- Radio Data System (RDS) ready (PS/PTY/EON)
- Quartz synthesized digital tuning system
- Direct 10-key tuning (by remote control)

- Motor-driven, remote-controllable volume
- Multi-function alphanumeric FL display
- Bass and treble tone controls
- Balance control
- Muting switch

Total 200W (50W x 4)
Home Theater Mode



SA-EX100

AV Stereo Receiver



- 100W x 2 output power (1kHz, 4Ω, 1.0% THD)
- Class H+ amplifier circuitry
- AV remote control with power on/off switch (can be used with selected Technics CD players/CD changers/double cassette decks)
- 5 audio inputs
- Motor-driven, remote-controllable volume

- Radio Data System (RDS) ready (PS/PTY/EON)
- Quartz digital tuning with 30-ch random presets
- Direct 10-key tuning (by remote control only)

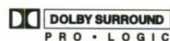
- Multi-function alphanumeric FL display
- Sleep timer function (by remote control only)
- Bass and treble tone controls

100W x 2



SH-AV500

Processor for Home Theater Use



- Dolby Pro Logic Surround Sound Dolby Surround controls: center channel mode (normal/wideband/phantom), surround on/off, surround level, center level and test mode
- Dolby 3 Stereo
- Built-in 40W (DIN 8Ω) center channel amp and 40W (DIN 8Ω) surround channel amp
- Theater Effect enhances Dolby Pro Logic Surround effect

- Sound Field Control for surround sound even with music sources and game software (3 modes: Game, Hall, Simulated Surround)
- 4 video and 2 audio inputs for multiple home theater component handling

- Front video input
- Simple connection to audio/video system
- Wireless remote control with Dolby Pro Logic control
- Alphanumeric FL display



Home THX Speakers

SB-TF50

Home THX Front Speaker System

This front speaker pair is optimized for Home THX Audio System use. It comes supplied with special stands to assure stability. The stands are designed for a perfect fit on top of the SB-TW50 subwoofers, thereby creating an integrated appearance. This kind of installation also raises the front speakers to match typical viewing height of the TV screen. In the SB-TF50, the tweeter is centered between two upper and two lower midrange and woofer units, creating a vertically aligned 3-way, 5-speaker configuration. This provides smooth control over vertical directivity with wide frequency response. It reduces reflections from the floor and ceiling, to assure sharp imaging and clarity, while permitting some latitude in vertical listening position with minimized variation in sound quality. Furthermore, the vertical array maintains uniform directivity characteristics over a broad horizontal arc so that a group can

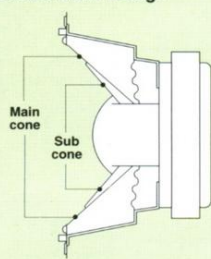
enjoy this outstanding sound quality during movie viewing.

Each enclosure has two 14cm cone woofers, two 8cm cone midrange units, and one 2.5cm soft dome tweeter.

The midrange features a new double-cone design which integrates an inner subcone with an outer main cone. The subcone handles the upper portion of the midrange while the main cone handles the lower portion, thereby contributing to flat frequency response and coherency while avoiding cone breakup. The soft dome tweeter's high internal loss, compared to metallic

diaphragms such as aluminum or titanium, effectively suppresses annoying resonance peaks. Naturally, these speakers are magnetically shielded to permit placement next to a TV set while helping to avoid picture interference.

Double Cone Design



SB-TC50

Home THX Center Speaker System

In a Home THX Audio System, the center speaker is meant to use the same speaker units as the front left and right speakers. However, a vertical design is not practical for typical placement above or below the TV screen. Therefore, the SB-TC50 employs the same speaker units and enclosure size as the SB-TF50, but with the woofers to the sides of the midrange drivers and tweeter. The SB-TC50 can be placed in a rack above or below the TV itself. Its

enclosure design permits angled placement to point directly at the listeners' ear level.

Use of the same speaker units as the front speaker assures a very close match for better imaging uniformity. Needless to say, the SB-TC50 employs magnetic shielding.

SB-TW50

Home THX Powered Subwoofer System

Whether it's the sound of a dinosaur footstep, a bomb explosion or a jet engine, the dynamic deep-bass power of a subwoofer can make all the difference in movie realism. The SB-TW50 is a 2-piece set of subwoofers, each with its own built-in 100W power amp. They are also designed to serve as pedestals for the front left and right speakers, raising them up to the same level as the TV screen.

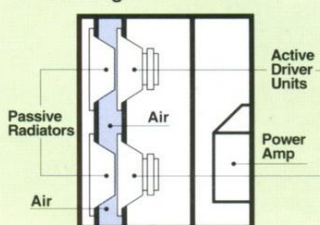
Despite their compact dimensions, powerful bass response extends down to 25Hz, thanks to the sealed Kelton type design. This uses two 25cm passive radiators on the exterior, driven by two 20cm active units on

the interior. Driving the passive radiators via the sealed air pocket helps emphasize bass without distortion.

Magnetic shielding permits location close to the TV screen. Since the subwoofer frequencies are not directional, the two subwoofers can be placed together or apart; location is not critical. Each subwoofer's front panel has an operation switch and

indicator LED. Power turns off automatically if no signal is detected for a particular length of time. Power comes back on automatically when a signal is again applied. A normal/inverted polarity switch is on the rear panel.

Kelton design



Home THX
Licensed Product



Home THX
Licensed Product



Home THX
Licensed Product



Home THX Speakers

SB-TS50

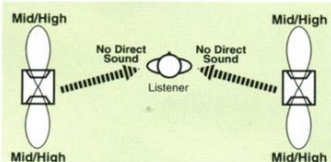
Home THX Surround Speaker System

Essential to Home THX reproduction is surround sound that envelops the listener in a natural way.

The SB-TS50 is a high performance surround speaker that easily meets the demands of THX cinema sound. This 2-way 3-speaker design uses a 14cm cone woofer on the cabinet front, while the two sides of the cabinet each have one 8cm cone full-range unit, at opposite upper and lower locations.

The two full-range units are driven in opposite phase in a dipole arrangement to produce midrange and high range tones in a figure-8

pattern which is heard mostly as indirect reflections. (Since woofer signals are not very directional, they do not upset this diffuse pattern.) These sound waves spread out to immerse you in an indirect sound field for a highly natural surround effect. The tiered positioning of the two full-range units helps maintain consistency at different listening positions.



Home Theater Speakers

SB-FW200

Satellite/Subwoofer Speaker System

SB-F200 Satellite Speaker System

- Dual 6.5cm mica composite cone full range units
- Adjustable vertical dispersion characteristics and free-layout convenience
- Compact BMC (Bulk Moulding Compound) cabinet with high strength and mass characteristics
- Magnetically shielded to permit use as AV speakers positioned close to a TV set or video monitor



SB-F200

- Tripod stands and substands supplied
- Input power handling: 70W (DIN)
- Impedance: 6Ω

SB-W200 Subwoofer System

- Helmholtz resonator design with aerostream ports for achieving a deep, rich bass sound
- Vibration-resistant compact cabinet
- Non-directional sound allows freedom of placement
- Magnetically shielded for AV system use
- High input power handling
- Impedance: 6Ω



SB-W200

SB-FW11

3-Way Bass-Reflex Speaker System

- 14cm cone type Aluminium Radiant Diaphragm woofer and 6cm cone type midrange
- 3-D Space Sound tweeter
- Dynamic Linear Suspension for dynamic bass without distortion
- Input power handling: 80W (DIN)
- Impedance: 6Ω



SB-CSS200

Center Channel/Surround Speaker System

SB-C200 Center Channel Speaker System

- Employs two 6.5cm mica composite cone full range units
- Horizontal dispersion characteristics of the two speaker units can be adjusted in the rounded BMC cabinet design
- Speaker stand supplied
- Magnetically shielded construction
- Input power handling: 70W (DIN)
- Impedance: 6Ω



SB-S200 Surround Speaker System

- 8cm cone type speaker unit per enclosure
- Figure-eight dipole dispersion pattern for outstanding surround sound performance
- Wall-mountable design (given sufficient structural strength of walls)
- Input power handling: 35W (DIN)
- Impedance: 4Ω



SB-CSS11

Center Channel/Surround Speaker System

SB-PC11 Center Channel Speaker System

- 10cm cone type full range unit
- Input power handling: 50W (DIN)
- Impedance: 8Ω



SB-PS11 Dipole Surround Speaker System

- 8cm cone type full range unit
- Input power handling: 25W (DIN)
- Impedance: 4Ω



Home THX
Licensed Product



The SB-FW11/SB-CSS11 are designed for optimum matching with SA-EX310 receiver.



ACTIVE Technics

Technics

Technics

Technics

Performances photographed at DMC World Championships held in Rimini, Italy, June 1995

Although Technics is well known worldwide for its pure hi-fi and home theater entertainment products, there's another side to the Technics brand. That's the "Active Technics" that you'll find on the dance club scene. Long recognized by the world's DJs as the best club-use turntable, the famous SL-1200 series is without a rival. Now the new SH-DJ1200 has been chosen as the Official Mixer of the DMC World DJ Championships. Now you too can discover the unparalleled "Active Technics" performance, functionality and design preferred by these sound professionals.



SL-1200LTD

Quartz Synthesizer Direct Drive Turntable



- Special limited edition of 10,000
- Black lacquer cabinet finish and 24 carat gold plated platter and tonearm
- Total quartz locked continuous pitch adjustment up to $\pm 8\%$
- Pitch control reset button
- Precision molded aluminum diecast cabinet and heavy rubber base material absorb unwanted vibrations.
- Unwavering quartz DD accuracy, wow & flutter 0.01% WRMS, rumble -78dB (DIN B)
- Very high torque (1.5kg $\cdot$ cm) for quick start-ups
- Highly sensitive low-mass tonearm with gimbal suspension
- Helicoid tonearm height adjustment

SL-1200MK2 SL-1210MK2

Quartz Synthesizer Direct Drive Turntable



SL-1200MK2

- Total quartz locked continuous pitch adjustment up to $\pm 8\%$.
- Precision molded aluminum diecast cabinet and heavy rubber base material absorb unwanted vibrations.
- Unwavering quartz DD accuracy: wow & flutter 0.01% WRMS, rumble -78dB (DIN B).
- Very high torque (1.5kg $\cdot$ cm) for quick start-ups.
- Highly sensitive low-mass tonearm with gimbal suspension.
- Helicoid tonearm height adjustment.



SL-1210MK2

SH-DJ1200

The Official World DJ Championship Mixer



- Durable, highly reliable faders with long service life
- Sensitive and ergonomic fader design
- Equipped with a spare channel fader and cross fader inside the back panel
- Dust-resistant construction
- Easy-to-see, easy-to-use 3-column level meter for professional DJ use
- Flat surface panel design with no unnecessary protruding parts
- Tone control (-24dB/+12dB) and TRIM controls
- Monitoring controls and booth monitor output

SL-BD22

Belt Drive Semi-Automatic Turntable

- Highly sensitive low-mass straight tonearm with gimbal suspension
- Anti-vibration TNRC base and large insulator feet
- FG servo DC servo motor for accurate platter rotation
- TAP plug-in connector MM cartridge (EPC-P24S)



SL-BD20

Belt-Drive Semi-Automatic Turntable

- Highly sensitive low-mass straight tonearm with gimbal suspension
- Anti-vibration TNRC base and large insulator feet
- DC servo motor for accurate platter rotation
- TAP plug-in connector MM cartridge (EPC-P24S)



TAP is the standard mark for the "P-Mount" plug-in connector system. Products carrying this mark are interchangeable and compatible with each other.

Glossary of Technical Terms

Amplifier

R-Core Transformer--Effective Protection Against Magnetic Flux Leakage

R-Core Transformer

Conventional amps normally use an EI or Toroidal transformer. The square cross-section of both types of core prevents even coil winding. This concentrates flux in parts of the coil, reducing efficiency and leading to flux leakage.

Technics engineers addressed this problem with the R-Core Transformer. As the name implies, this has its coil wound on an R-shaped core of iron, an



arrangement that is extremely efficient, and also effective in reducing flux leakage. The result is a quiet audio performance with minimized harshness at the high-end.

Technics Hybrid Diecast Panel Suppresses Vibrations While Offering a Sophisticated Appearance

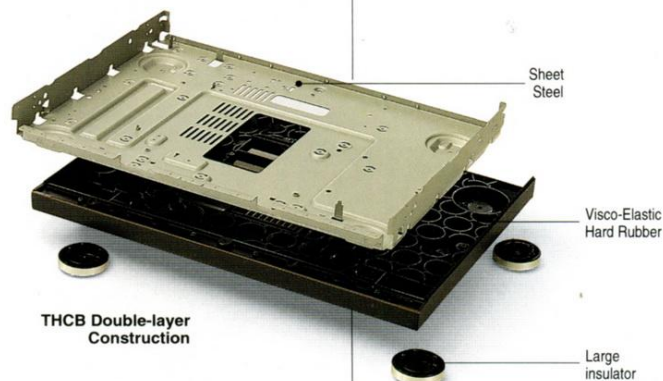
The front panel of new A-series amps also serves as a base for mounting various parts. This front panel helps to protect parts from internal and external vibrations to maintain high sound quality. Technics Hybrid Diecast Panel boasts better vibration damping properties than regular aluminum panels, and incorporates a new highly rigid, high-precision material. The result is a finish with the look and feel of true quality.

THCB (Technics Hybrid Construction Base) Vibration-Damping Construction Supports Circuit Components

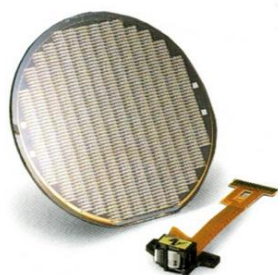
THCB

The pre-amp section, which handles small signals, is susceptible to both internal and external vibrations. These vibrations can adversely affect sound more than most people imagine. As a solution to this problem,

Technics developed a special vibration-damping base called the THCB. Its unique shock-suppressing capability is achieved by combining two materials with contrasting properties: visco-elastic hard rubber – proven over years of use in Technics turntables – and sheet steel.



Cassette Deck

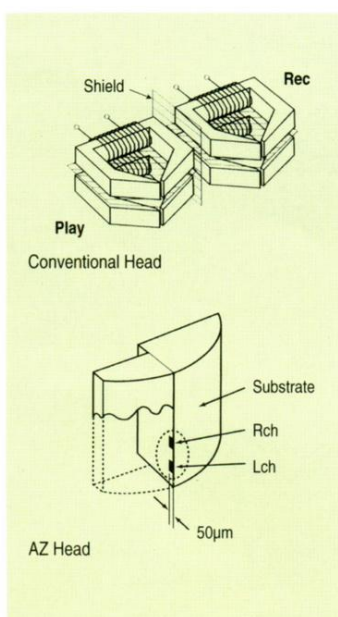
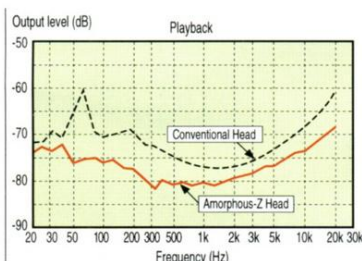


Amorphous-Z 3-Head System

Using an MR (magneto-resistive) element, the RS-AZ7/AZ6 feature the newly developed Amorphous-Z Head, an advanced playback head made possible with thin-film technology. Completely different from the usual coil-type playback head, the Amorphous-Z Head offers several valuable advantages, including better sound from old tapes.

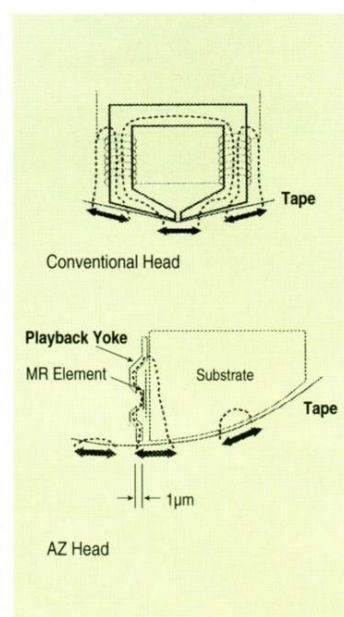
•Reduced Playback Noise

Amorphous-Z Heads respond directly to magnetism, while conventional heads respond to changes in magnetism. Therefore, Amorphous-Z Heads can deliver low bass signals without the help of equalization. This helps attain a high signal-to-noise ratio. Furthermore, Amorphous-Z Heads do not use coils, so they resist picking up external noise.



•Flat and Wide Frequency Response

Amorphous-Z Heads have virtually flat frequency response that extends from the ultra-low bass region to the ultra-high treble. High-precision thin-film technology and an amorphous alloy yoke make possible an ultra-narrow 0.5µm head gap width.



•Minimized Contour Effect

Because the Amorphous-Z Heads contacts only a small portion of the tape, it avoids the contour effect – undulating low-range frequency response caused by magnetic signal pickup from the yoke outside of the head gap.

ATC (Auto Tape Calibration)

Technics ATC helps assure the flat frequency response required for true high fidelity recording/playback results – despite the varying high-range characteristics of actual cassette tapes on the market. Using a microcomputer, ATC fine tunes the bias and equalizer circuits to obtain flat response, and then adjusts the recording level or sensitivity for accurate Dolby NR results. This advanced system is based on 64-step high-resolution calibration for all three parameters, with separate readings taken in the low range (400Hz), midrange (3kHz),*1 and high range (10kHz).*2

*1 Metal tape: 5kHz

*2 Metal tape: 14kHz

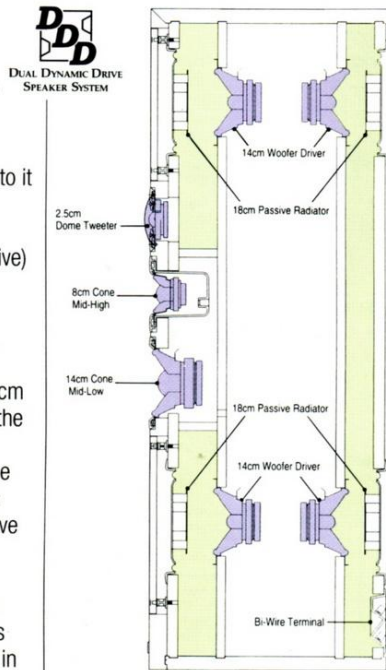
Speaker System

Technics D.D.D. System Delivers Powerful Yet Distortion-Free Bass

The front baffle of the SB-M1000/M500/M300 may give the appearance of a 3-way or 2-way system, but there is actually more to it than just the visible tweeter and midrange(s). Concealed inside is Technics D.D.D. (Dual Dynamic Drive) system for enhanced bass reproduction.

As shown in the cutaway diagram, D.D.D. uses two 18cm square passive radiators driven by two 14cm drivers mounted back to back. (In the SB-M1000 there are two sets of these four units, one upper and one lower.) The rear passive radiator is fully exposed, while the front passive radiator is behind the front baffle. The D.D.D. system has two major benefits. First, it prevents spurious cabinet vibrations. The two woofers are driven in phase but they thrust in opposite directions, so their excitations of the cabinet structure are mutually canceled. This keeps the bass frequencies free of distortion, and also helps preserve soundstage imaging.

The second benefit is increased bass power. The two 18cm square passive radiators combine to approximate the



effective sound wave radiation area of a 25cm diameter woofer diaphragm. Computer simulation aided design also helps extend powerful low-range response to 40Hz. (Since the SB-M1000 has the effective equivalent of 36cm woofer, its low range response extends down to 25Hz (-16dB).)

Super Graphite Dome Tweeter Expands the Frontiers of High Treble Reproduction

Extended high range response favors a diaphragm material that has high rigidity, low specific gravity, and high internal loss. Stiffness and light weight mean faster sound transmission, the critical factor in high frequency reproduction. This is why we chose super graphite, a material having 3/4 the rigidity of diamond and 2/3 its specific gravity.

Super graphite is a planar lattice of carbon atoms. At 18,800 m/sec, its sound transmission velocity is the highest in the world, surpassing diamond's 16,500 m/sec. Internal loss is on a par with mica, at 0.02. Together, these properties point to super graphite as the ideal material for tweeter diaphragms, but they also pose manufacturing obstacles for the requisite dome shape. Nevertheless, we succeeded in this task with the

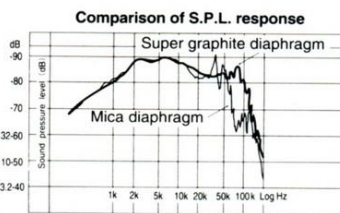
assistance of the Matsushita Research Institute. By applying pressure and varying thermal cycles of up to about 2,850°C to a polyimide film — a compound of carbon, oxygen and nitrogen — we formed a dome shape while building a graphite crystal lattice, resulting in a super graphite dome tweeter.

This achieves extended high range response up to 80kHz (-16dB) for the SB-M1000.

Super Linear Motor for Low Distortion in 14cm Composite Mica Woofer

The SB-M20's 14cm woofer features a Super Linear Motor. Using a short voice coil and plate shape optimized in terms of magnetic field diffraction, this new motor design achieves wide, symmetrical flux distribution to reduce harmonic distortion. A 90mm diameter main magnet and 70mm diameter canceling magnet contribute to outstanding power linearity for excellent low- and midrange definition.

The woofer diaphragm cone is a composite of pulp and natural mica having both a high elastic modulus and suitable internal loss, thereby extending the range of piston motion.



Receiver

Smart HELP Function Solves Problems Fast

Receivers are versatile, but can sometimes seem complicated. A simple oversight could mean no sound at all, and send you flipping through the operating manual. Not very convenient! That's why we've added the handy HELP function to our new receivers. If there's no sound, first check the scrolling display for a clear indication of what the problem might be. (For example, you might see TAPE MONITOR ON NOW.)

Next, press the HELP button, and the display indicates what you should do to remedy the problem. (In this case, SWITCH OFF TAPE MONITOR would be displayed.) This convenient function will help you with the most frequent causes of a silent receiver. If you're still unable to get sound, hold the HELP button down for at least two seconds. This resets all operation modes to those preset at the factory. If all is well with your receiver, you will hear the station preset in Ch.1. Don't



worry — this reset will not erase tuner memory presets you've already stored.

Radio Data System (RDS) Ready

For extra tuning convenience, Technics receivers let you take advantage of the Radio Data System (RDS) in areas where RDS broadcast services are received.

Tune into a station, and the receiver picks up the PS (Program Service Name) code to display the station name. If you want to listen to a particular kind of music or a certain type of program, press the PTY (Program Type) select key, and program categories are displayed in sequence. When you see a program category you want, press the Search key, and the tuner automatically searches for an appropriate program. Once you are tuned to a particular station, EON (Enhanced Other Networks) capability helps find cross-referenced programs of the same type.

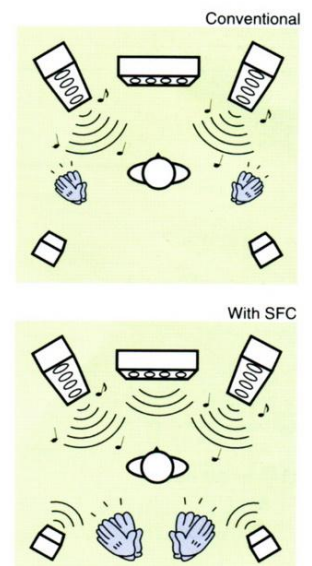
Note: Depending on the broadcast station, some services may be provided.



Sound Field Control (SFC) and Sound Stage Imaging (SSI) for Surround Sound Reproduction with Music Sources

Until now, when listening to a music source such as a CD or cassette tape on a home theater setup with front, center, and surround speakers, only the front speakers were utilized, leaving the other speakers idle. Now Technics' Sound Field Control function creates a surround sound field that uses the other speakers to provide concert hall and live performance atmosphere even with stereo sources. To suit your mood or your listening selection, you can choose between HALL, CLUB, LIVE, THEATER, CHURCH, STADIUM and SIMULATED SURROUND (for mono sources) settings.

In addition to this, the SA-TX50 has a Sound Stage Imaging (SSI) function that converts the surround channel to stereo for a more natural surround effect. And you get a choice of SSI modes. Mode 1 provides the natural ambience of a concert hall, ideal when listening to orchestral performances. Mode 2 offers a



stronger surround sound effect than Mode 1. Mode 3 adds a center channel for vocals positioned in the center, and a stronger surround effect for an exciting "live" atmosphere. This provides excellent definition and stability of vocalists and musicians in the center of the sound stage.

Technical Specifications

Integrated Amplifiers
(DIN 45 500)

	SU-A700MK3	SU-A600MK3	SU-V620	SU-V500
• Continuous power output (both ch. driven) DIN 20Hz~20kHz	80W x 2 (4Ω), 55W x 2 (8Ω) 45W x 2 (8Ω)	60W x 2 (4Ω), 45W x 2 (8Ω) 37W x 2 (8Ω)	100W x 2 (4Ω), 80W x 2 (8Ω) 70W x 2 (8Ω)	50W x 2 (4Ω), 38W x 2 (8Ω) 30W x 2 (8Ω)
• T.H.D. (rated power at 20Hz~20kHz)	0.01% (8Ω)	0.01% (8Ω)	0.1% (8Ω)	0.1% (8Ω)
• Frequency response Phono MM: RIAA standard curve CD, AUX, TUNER, TAPE 1, TAPE 2/DCC	±1dB (30Hz~15kHz) 3Hz~80kHz (+0dB, -3dB) +0dB, -0.3dB (20Hz~20kHz)	±1dB (30Hz~15kHz) 3Hz~80kHz (+0dB, -3dB) +0dB, -0.3dB (20Hz~20kHz)	±1dB (30Hz~15kHz) 3Hz~60kHz (+0dB, -3dB) +0dB, -0.3dB (20Hz~20kHz)	±1dB (30Hz~15kHz) 3Hz~80kHz (+0dB, -3dB) +0dB, -0.3dB (20Hz~20kHz)
• S/N ratio (rated power 4Ω) Phono MM CD, AUX, TUNER, TAPE 1, TAPE 2/DCC	76dB (78dB, IHF '66) 91dB (99dB, IHF '66)	76dB (78dB, IHF '66) 91dB (99dB, IHF '66)	76dB (77dB, IHF '66) 92dB (95dB, IHF '66)	76dB (77dB, IHF '66) 90dB (95dB, IHF '66)
• Input sensitivity/impedance Phono MM CD, AUX, TUNER, TAPE 1, TAPE 2/DCC	2.5mV/47kΩ 150mV/22kΩ	2.5mV/47kΩ 150mV/22kΩ	2.5mV/47kΩ 150mV/22kΩ	2.5mV/47kΩ 150mV/22kΩ
• Dimensions (W x H x D)	430 x 125 x 318mm	430 x 125 x 318mm	430 x 125 x 310mm	430 x 125 x 310mm
• Weight	6.7kg	6.1kg	6.8kg	6.0kg

Tuners
(DIN 45 500)

	ST-GT650	ST-GT550	ST-GT350
FM tuner section			
• Sensitivity (IHF, usable)	1.5μV	1.5μV	1.5μV
• T.H.D. Mono Stereo	0.05% 0.1%	0.15% 0.2%	0.2% 0.3%
• S/N ratio Mono	75dB	70dB	70dB (75dB, IHF)
• Frequency response	10Hz~15kHz (+0.5dB~-1.0dB)	10Hz~15kHz (+0.5dB~-1.0dB)	20Hz~15kHz (+0.5dB~-1.5dB)
• Selectivity Normal (±400kHz) Super narrow (±200kHz)	70dB 25dB	70dB 25dB	65dB —
• Stereo separation (1kHz)	45dB	45dB	40dB
AM tuner section			
• Sensitivity (S/N 20dB)	20μV, 600μV/m	20μV, 600μV/m	20μV, 600μV/m
• Selectivity (±9kHz)	40dB	40dB	40dB
• Dimensions (W x H x D)	430 x 91.5 x 307.7mm	430 x 91.5 x 307.7mm	430 x 69.3 x 301mm
• Weight	2.9kg	2.9kg	2.6kg

Graphic Equalizer

	SH-GE50	SH-GE90	SH-GE70
• T.H.D. (20Hz~20kHz)	0.007%	0.08%	0.005%
• S/N ratio (IHF A)	110dB	86dB	105dB
• Band level controls	+12dB~-12dB (2dB step)	+12dB~-12dB (2dB step)	+12dB~-12dB (2dB step)
• Number of bands	7/ch.	3/ch. (parametric eq.)	7/ch.
• Dimensions (W x H x D)	430 x 80.4 x 192.5mm	430 x 92 x 290mm	430 x 102 x 280mm
• Weight	1.8kg	3.0kg	2.9kg

Receivers
(DIN 45 500)

• Continuous power output (both ch. driven) DIN 20Hz~20kHz	Front Center Surround
• Power output in Dolby Pro Logic mode (DIN)	
• T.H.D. (half power at 1kHz, 8Ω)	
• Frequency response Phono: RIAA standard curve CD, TAPE, VDP, TV, VCR	
• S/N ratio (8Ω) Phono CD, TAPE, VDP, TV, VCR	
• FM sensitivity (IHF usable)	
• FM selectivity (±400kHz)	
• AM sensitivity (S/N 20dB)	
• AM selectivity (at 999kHz)	
• Dimensions (W x H x D)	
• Weight	

Cassette Decks

	RS-AZ7	RS-AZ6	RS-BX501	RS-TR575
• Wow and flutter	0.07% (WRMS)	0.07% (WRMS)	0.07% (WRMS)	0.07% (WRMS)
• Frequency response (DIN) Normal tape High position type Metal type	20Hz~18kHz 20Hz~19kHz 20Hz~24kHz	20Hz~18kHz 20Hz~19kHz 20Hz~24kHz	30Hz~16kHz 30Hz~16kHz 30Hz~17kHz	20Hz~16kHz 20Hz~16kHz 20Hz~17kHz
• S/N ratio Dolby C NR on Dolby B NR on	78dB (A-weighted) 71dB (A-weighted)	78dB (A-weighted) 71dB (A-weighted)	74dB (A-weighted) 66dB (A-weighted)	74dB (A-weighted) 66dB (A-weighted)
• Motors Capstan drive Reel drive	DC servo (x1) DC (x1)	DC servo (x1) DC (x1)	DC servo (x1) DC (x1)	2-speed DC servo (x2) DC (x2)
• Dimensions (W x H x D)	430 x 125 x 290mm	430 x 125 x 290mm	430 x 125 x 293mm	430 x 136 x 285mm
• Weight	4.2kg	3.9kg	3.8kg	4.4kg

CD Players

	SL-PS770D	SL-PS670D	SL-PG580A	SL-PG480A	SL-PG380A
• Program capability	20-selection	20-selection	20-selection	20-selection	20-selection
• Frequency response	2Hz~20kHz (±0.3dB)	2Hz~20kHz (±0.5dB)	2Hz~20kHz (±0.5dB)	2Hz~20kHz (±1dB)	2Hz~20kHz (±1dB)
• Dynamic range	100dB	98dB	96dB	92dB	92dB
• S/N	115dB	107dB	100dB	100dB	100dB
• T.H.D. (1kHz, 0dB)	0.0023%	0.0027%	0.004%	0.007%	0.007%
• Dimensions (W x H x D)	430 x 114 x 290mm	430 x 114 x 290mm	430 x 103 x 283mm	430 x 92 x 283mm	430 x 92 x 283mm
• Weight	4.0kg	4.0kg	3.5kg	3.1kg	3.1kg

SU-V300
40W x 2 (4Ω), 33W x 2 (8Ω) 27W x 2 (8Ω, 40Hz~20kHz)
0.1% (8Ω)
±1dB (30Hz~15kHz) 3Hz~80kHz (+0dB, -3dB) +0dB, -0.3dB (20Hz~20kHz)
76dB (76dB, IHF '66) 90dB (94dB, IHF '66)
2.5mV/47kΩ 150mV/22kΩ
430 x 125 x 310mm
5.4kg

CD Changers

	SL-MC410	SL-PD887	SL-PD687
• Program capability	32-selection	32-selection	32-selection
• Frequency response	2Hz~20kHz (±1dB)	2Hz~20kHz (±1dB)	2Hz~20kHz (±1dB)
• Dynamic range	92dB	92dB	92dB
• S/N	100dB	100dB	100dB
• T.H.D. (1kHz, 0dB)	—	0.007%	0.007%
• Dimensions (W x H x D)	430 x 170 x 387mm	430 x 125 x 370mm	430 x 125 x 370mm
• Weight	7.0kg	4.6kg	4.6kg

Hi-Fi Speaker Systems

	SB-M10000	SB-M1000	SB-M500	SB-M300	SB-M20
• Configuration	4-way, 8-speaker, Dual Dynamic Drive	4-way, 7-speaker, Dual Dynamic Drive	3-way, 4-speaker, Dual Dynamic Drive	3-way, 4-speaker, Dual Dynamic Drive	2-way, 2-speaker, bass-reflex
• Input impedance	4Ω	6Ω	6Ω	6Ω	6Ω
• Input power	600W (music) 300W (DIN)	200W (music) 100W (DIN)	160W (music) 80W (DIN)	120W (music) 60W (DIN)	100W (music) 50W (DIN)
• Output level	87dB/W (1m)	86dB/W (1m)	86dB/W (1m)	85dB/W (1m)	87dB/W (1m)
• Frequency range (-16dB)	20Hz~100kHz (-10dB)	25Hz~80kHz	35Hz~45kHz	40Hz~45kHz	55Hz~45kHz
• Dimensions (W x H x D)	486 x 1575 x 575mm (with grille)	284 x 1190 x 447mm (with grille)	220 x 790 x 365mm (with grille)	222 x 367 x 335mm (with grille)	202 x 324 x 234mm
• Weight	160kg	42kg	18.5kg	11.0kg	6.5kg

SA-TX50	SA-TX30	SA-AX710	SA-EX510	SA-EX310	SA-EX100
130W x 2 (6Ω) 125W x 2 (6Ω)	70W x 2 (6Ω) —	100W x 2 (4Ω) 65W x 2 (8Ω)	100W x 2 (4Ω) 65W x 2 (8Ω)	60W x 2 (4Ω) 40W x 2 (8Ω, 40Hz~20kHz)	100W x 2 (4Ω) 80W x 2 (8Ω, 40Hz~20kHz)
120W x 2* 120W* 100W x 2*	70W x 2* 70W* 70W x 2*	60W x 2 (4Ω) 60W (8Ω) 60W x 2 (8Ω)	60W x 2 (4Ω) 60W (8Ω) 60W (8Ω)	50W x 2 (4Ω) 50W (8Ω) 50W (8Ω)	— — —
0.03% (6Ω)	0.03%	0.03%	0.03%	0.07%	0.03%
20Hz~20kHz (±1dB)	20Hz~20kHz (±1dB)	±0.8dB (30Hz~15kHz) 10Hz~40kHz (±3dB)	±0.8dB (30Hz~15kHz) 10Hz~40kHz (±3dB)	±0.8dB (30Hz~15kHz) 10Hz~40kHz (±3dB)	±0.8dB (30Hz~15kHz) 10Hz~40kHz (±3dB)
70dB (IHF A)	70dB (IHF A)	70dB (80dB, IHF A) 75dB (85dB, IHF A)	70dB (80dB, IHF A) 75dB (85dB, IHF A)	70dB (80dB, IHF A) 75dB (85dB, IHF A)	70dB (80dB, IHF A) 75dB (85dB, IHF A)
1.5μV (75Ω, IHF '58)	1.5μV (75Ω, IHF '58)	1.5μV (75Ω, IHF '58)	1.5μV (75Ω, IHF '58)	1.5μV (75Ω, IHF '58)	1.5μV (75Ω, IHF '58)
65dB	65dB	65dB	65dB	65dB	65dB
20μV, 330μV/m	20μV, 330μV/m	20μV, 330μV/m	20μV, 330μV/m	20μV, 330μV/m	20μV, 330μV/m
55dB	55dB	55dB	55dB	55dB	55dB
430 x 170 x 375mm	430 x 170 x 375mm	430 x 158 x 312mm	430 x 158 x 312mm	430 x 136 x 309mm	430 x 136 x 309mm
12.0kg	10.7kg	9.6kg	8.8kg	7.3kg	7.0kg

* 1kHz, 6Ω, 1.0% clip threshold

RS-TR474	RS-TR373
0.1% (WRMS)	0.1% (WRMS)
20Hz~16kHz 20Hz~16kHz 20Hz~17kHz	20Hz~16kHz 20Hz~16kHz 20Hz~17kHz
74dB (A-weighted) 66dB (A-weighted)	74dB (A-weighted) 66dB (A-weighted)
2-speed DC servo (x2) DC (x2)	2-speed DC servo (x2) DC (x2)
430 x 136 x 285mm	430 x 136 x 285mm
4.4kg	4.4kg

Digital Surround Processor

	SH-AC300
• Output voltage/impedance	2V (at 0dB)/1kΩ
• Input impedance LINE COAXIAL	22kΩ 75Ω
• Frequency response Front L/R, Center, Surround L/R (Large)	±1dB (20Hz~20kHz)
• Delay time AC-3 Dolby Pro Logic	0~5mS 0~15mS 15~30mS
• Total harmonic distortion Front L/R	0.007% (1kHz, 0dB)
• Dynamic range	90dB
• S/N ratio	96dB (IHF A)
• Load impedance	More than 10kΩ
• Dimensions (W x H x D)	430 x 69.4 x 301.4mm
• Weight	2.6kg

Home THX Speaker Systems

	SB-TF50	SB-TC50	SB-TW50	SB-TS50
• Configuration	3-way, 5-speaker (Closed)	3-way, 5-speaker (Closed)	1-way, 2-speaker (Kelton)	2-way, 3-speaker (Closed)
• Speaker units Woofer Midrange Tweeter Passive radiator	14cm cone type x 2 8cm cone type x 2 2.5cm dome type x 1	14cm cone type x 2 8cm cone type x 2 2.5cm dome type x 1	20cm cone type x 2 25cm cone type x 2	14cm cone type x 1 8cm cone type x 2 (Mid/High)
• Input power	250W (music), 125W (DIN)	250W (music), 125W (DIN)		120W (music), 60W (DIN)
• Sound pressure level	86dB/W (1.0m)	86dB/W (1.0m)	83.5dB*3/100mV (1.0m)	83dB/W (1.0m)
• Impedance	6Ω	6Ω		6Ω
• Crossover frequencies	800Hz, 3.5kHz	600Hz, 4.5kHz		400Hz
• Frequency range	40Hz~25kHz (-16dB) 50Hz~22kHz (-10dB)	40Hz~25kHz (-16dB) 50Hz~22kHz (-10dB)	15Hz~400Hz (-16dB) 25Hz~330Hz (-10dB)	55Hz~20kHz (-16dB) 65Hz~20kHz (-10dB)
• Dimensions (W x H x D)	300 x 595 x 414mm*1	436 x 340 x 300mm*2	300 x 515 x 464mm*4	266 x 315 x 141mm*4
• Weight	12kg	10kg	21kg	4kg
Amplifier Section				
• Power output			100W (20Hz~1kHz, 4Ω, 0.03% THD)	
• Phase switching			Normal/Inverted	
• Input impedance			50kΩ	
• Power consumption			90W	
• Power supply			AC 220/230/240V, 50/60Hz	

*1 With speaker stand *2 With wedge-stand *3 One unit driven *4 Without rubber leg

Home Theater Speakers

	SB-F200	SB-W200	SB-C200	SB-S200	SB-FW11	SB-PC11	SB-PS11
• Configuration	1-way, 2-speaker, closed	1-way, 2-speaker, kelton-type	1-way, 2-speaker, closed	1-way, 1-speaker, dipole-type	3-way, 3-speaker, bass-reflex	1-way, 1-speaker, bass-reflex	1-way, 1-speaker, dipole-type
• Input impedance	6Ω	6Ω	6Ω	4Ω	6Ω	8Ω	4Ω
• Input power	140W (music) 70W (DIN)	140W (music) 70W (DIN)	140W (music) 70W (DIN)	70W (music) 35W (DIN)	160W (music) 80W (DIN)	100W (music) 50W (DIN)	50W (music) 25W (DIN)
• Output level	84dB/W (1m)	84dB/W (1m)	84dB/W (1m)	—	85dB/W (1m)	85dB/W (1m)	85dB/W (1m) ¹
• Frequency range (-16dB)	120Hz~22kHz	40Hz~300Hz	120Hz~22kHz	—	42Hz~22kHz	75Hz~18kHz	190Hz~20kHz
• Dimensions (W x H x D)	110 x 236 x 121mm	398 x 222 x 322mm	236 x 123 x 121mm	110 x 120 x 130mm	254 X 412 X 267mm	270 x 122 x 172mm	206 x 115 x 161mm
• Weight	1.5kg	8.3kg	1.6kg	0.8kg	5.1kg	1.6kg	1.0kg

Turntables

	SL-1200LTD	SL-1210MK2/1200MK2	SL-BD22/BD20
• Turntable type	Quartz direct drive	Quartz direct drive	Belt-drive
• Speed	33-1/3 and 45 rpm	33-1/3 and 45 rpm	33-1/3 and 45 rpm
• Wow and flutter	0.025% WRMS, ±0.035% peak	0.025% WRMS, ±0.035% peak	0.045% WRMS, ±0.06% peak
• Rumble	-78dB DIN B	-78dB DIN B	-70dB DIN B
• Tonearm type	Universal S-shaped tonearm	Universal S-shaped tonearm	Plug-in connector straight tonearm
• Cartridge type	—	—	Plug-in connector MM cartridge (EPC-P24S)
• Cartridge frequency response	—	—	10Hz~30kHz
• Replacement stylus	—	—	EPS-24CS
• Dimensions (W x H x D)	453 x 162 x 360mm	453 x 162 x 360mm	430 x 93 x 375mm
• Weight	12.5kg	11.0kg	3.6kg

AV Processor For Home Theater Use (DIN 45 000)

	SH-AV500
• Power output at the Dolby Pro Logic operation DIN 1kHz (T.H.D. 1%)	40W (8Ω) 40W (8Ω)*
• Load impedance	Center Surround 8~16Ω 4~16Ω
• Input sensitivity/impedance	VCR 1, TV, VIDEO CD/VP, GAME/VCR 2, AUX/CD 150mV/22kΩ
• S/N (Pre out)	VCR 1, TV, VIDEO CD/VP, GAME/VCR 2, AUX/CD 75dB (90dB, IHF '66)
• Frequency response (Pre out)	VCR 1, TV, VIDEO CD/VP, GAME/VCR 2, AUX/CD 10Hz~40kHz (±3dB)
• Output voltage	VCR 1 OUT SUBWOOFER OUT PRE OUT 150mV 300mV 8V
• Dimensions (W x H x D)	430 x 136 x 352mm
• Weight	6.8kg

* Surround speakers' total impedance

Professional DJ Mixer

	SH-DJ1200
• Input sensitivity/impedance PHONO LINE AUX/EFFECTOR MIC	1.5~15mV/47kΩ 100~1000mV/more than 10kΩ 150mV/47kΩ 0.7mV/1kΩ
• Output level/impedance LINE MONITOR HEADPHONES REC	1V/600Ω 2V/2kΩ 1.5V/100Ω (Load 100Ω) 1V/2kΩ
• Maximum output level (Load 10 kΩ except headphones)	LINE MONITOR HEADPHONES REC 8V 8V (Headphones open) 1.5V (Load 100Ω) 8V
• Load impedance LINE MONITOR HEADPHONES REC	more than 600Ω more than 10kΩ more than 47kΩ more than 10kΩ
• Residual hum and noise	less than 0.2mV
• Frequency response PHONO LINE AUX/EFFECTOR MIC	30Hz~15kHz (RIAA ±1dB) 10Hz~70kHz (-3dB) 10Hz~100kHz (-3dB) 100Hz~15kHz (-3dB)
• Tone controls Low High	12dB/oct +12dB, -24dB (63Hz) +12dB, -24dB (10kHz)
• Dimensions (W x H x D)	260 x 102 x 305mm
• Weight	3.4kg



Technics
Matsushita Electric