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**PANASONIC<sup>®</sup>**

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**HI-FI**

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**COMPONENTS**

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*© beim Hersteller  
Archiv Michael Otto*



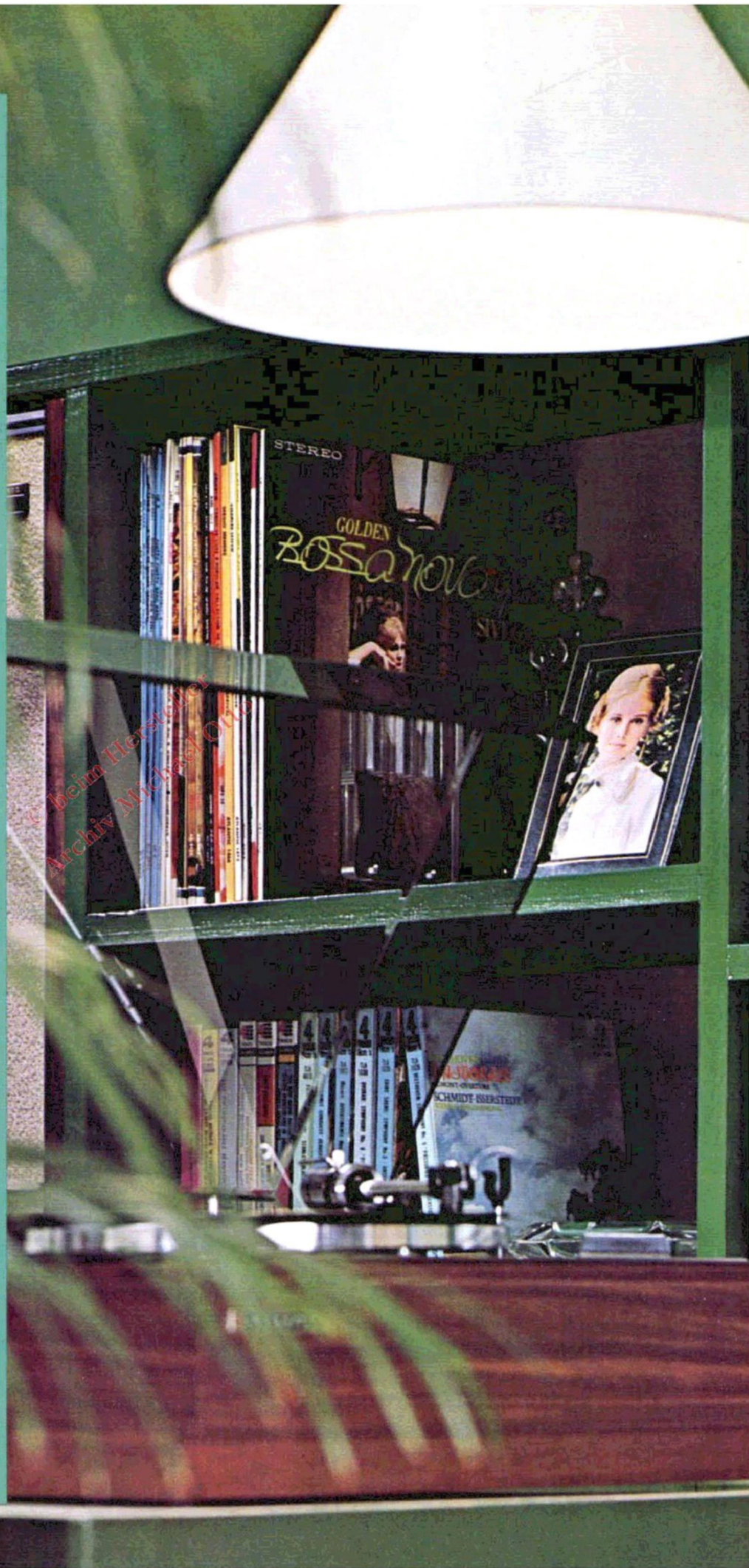


### PANASONIC—HIGH QUALITY, HIGH PERFORMANCE

Panasonic is a respected name in electronics, a name you can trust with confidence.

Panasonic backs its products with the research of over 2,500 laboratory scientists and the expert knowledge of 40,000 technicians in over 80 up-to-date factories. Panasonic sells 4,500 products in 120 countries, and manufactures every vital component from tiny transistors to big color picture tubes.

Panasonic Hi-Fidelity Systems are quality produced in a vast manufacturing complex. The world's finest Hi-Fidelity units are engineered to exacting specifications in three separate factories. They undergo exhaustive testing from inspection of individual components to special humidity, temperature, and vibration tests. Continuous operation tests, life tests, final inspection, and packing and shipment tests assure unsurpassed Panasonic performance and durability. Continuous inspection throughout the engineering, manufacturing, and assembly processes guarantees uniform quality. It is this relentless dedication to excellence that has made "Panasonic" the fastest growing name in the Hi-Fidelity field.





PANASONIC  
*Substrate Reverse*

SOLID STATE DUAL CAPSTAN

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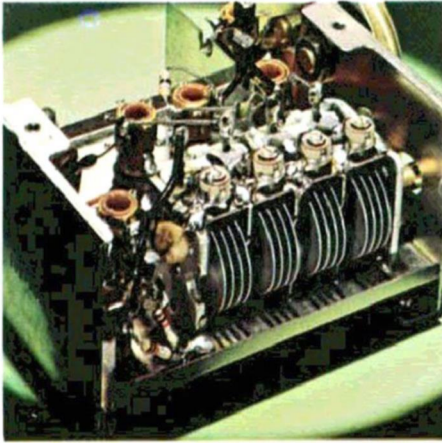
REVERSE

STOP

# High Fidelity Stereo Receivers

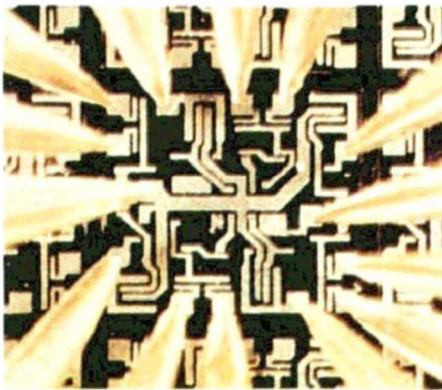
## Quality Features For Quality Performance

### Field Effect Transistors (FET's)



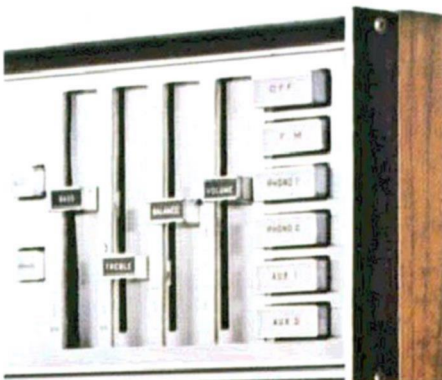
FM tuners utilize FET's for unrivaled sensitivity. Two RF stages, a four-section tuning capacitor and six tuned circuits provide exceptional selectivity making possible the reception of weak and distant stations and freedom from unwanted interference.

### Integrated Circuits (IC's)



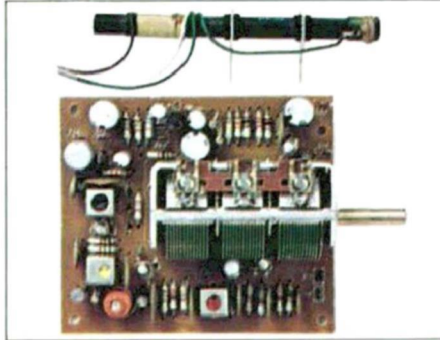
These microscopic electronic circuits provide unexcelled performance and exceptional reliability to a degree impossible through the use of individual electronic parts. These complete circuits, consisting of several transistors, diodes, resistors and capacitors, are contained on a microscopic piece of solid state material no larger than a single transistor.

### Full Range Baxandall Tone Controls



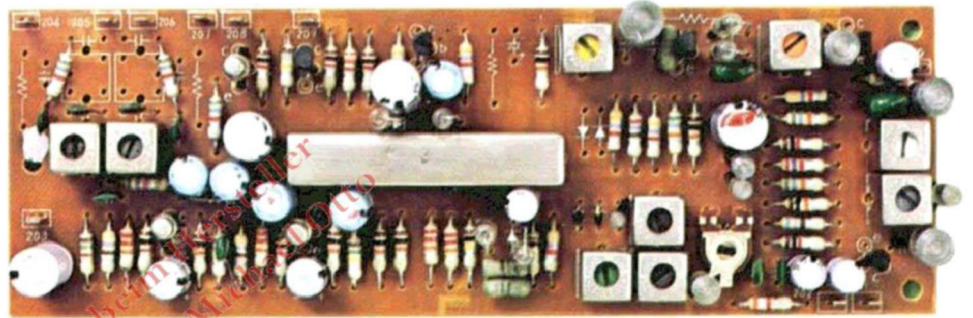
These wide range controls provide for precise adjustment of the tonal qualities of the sound. A full complement of audio switches allow you to shape the music to satisfy your musical tastes.

### Broad Band AM Tuner



The AM tuner circuits incorporate ceramic filters to insure drift-free reception and unequalled performance. A separate AM RF circuit and a three-section tuning capacitor provide the highest sensitivity and selectivity for listening to the weakest of stations. A built-in ferrite antenna provides static-free reception.

### Ceramic Multiplex Filter



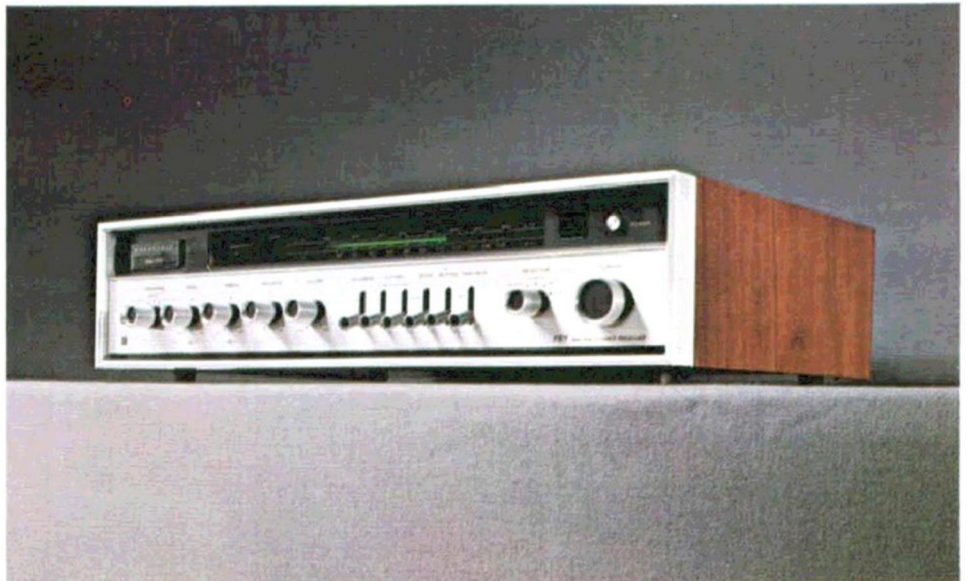
This exclusive Ceramic Multiplex Filter eliminates false triggering of the Stereo indicator lamp caused by noise or spurious signals and guarantees foolproof stereo reception even of weak FM stereo stations.

### Regulated Power Supply



To achieve the ultimate in stereo sound even during peak periods of the music, Panasonic receivers incorporate a regulated power supply to maintain the power to all circuits at the same level regardless of changes in the musical content. The result is flawless sound, unmatched in power and clarity.

### Elegant, Functional Design



The elegant sculptured control panel of the Panasonic receivers features a handsome satin-silver finish with contrasting black trim and walnut wood cabinet. Behind the black-out window is the exclusive Panasonic LuminaBand tuning. Among the many tuning conveniences are an auto-

matic Stereo indicator lamp and a calibrated field strength tuning meter. A full complement of tone controls and switches provides for complete ease of operation. Complete facilities for connection of a multitude of speakers and accessories are provided on the rear panel.



**SA-40**  
**70-WATT FM/AM STEREO RECEIVER**

The Panasonic SA-40 offers the features and FM/AM performance previously available only in units costing considerably more. The FM tuner features Field Effect Transistors for sensitive, drift-free reception of FM and FM stereo programs. Four sensitive FM IF stages allow you to seek out the weakest of FM stations. The AM tuner circuit provides broad band response for highest sensitivity and stability. The built-in ferrite antenna employs a revolutionary coil design to assure freedom from static—under all conditions. The exclusive Panasonic wide range Linear Sliding Controls provide for precise adjustment of the music to suit the listening environment. Positive action Loudness,

High Filter Mono/Stereo and Tape Monitor rocker switches provide complete control of the musical output. The multiple-position Selector switch and Speakers switch permit a wide choice of program sources and speaker outputs. Facilities are provided on the rear panel of the SA-40 for connection of two pairs of speakers, a record player, two tape recorders, and an auxiliary program source, such as a shortwave tuner. Special Preamp Output and Main Amplifier input jacks allow you to add an accessory echo reverberation or tremolo sound effect amplifier to enhance the stereo effect.



*Facilities provided on the rear panel for connection of speakers and numerous Components.*

## PANASONIC High Fidelity Receivers



### SA-50

#### 75-WATT FM STEREO RECEIVER

This sensational Panasonic SA-50 sets the standard in FM stereo receiver design. The tuner circuits utilize three Field Effect Transistors to eliminate all possibility of overloading caused by a strong nearby station. Two separate RF input circuits and six tuned circuits provide unrivaled sensitivity and selectivity. Four dual tuned IF stages incorporate built-in limiters for the finest in FM reception.

The Panasonic exclusive Ceramic Multiplex Filter traps unwanted noise and signals to provide foolproof automatic mono to stereo FM switching and eliminate false triggering of the Stereo indicator lamp.

### SA-60

#### 75-WATT FM/AM STEREO RECEIVER

The Panasonic SA-60 offers superb stereo FM and AM reception. The FM tuner utilizes three Field Effect Transistors and six tuned circuits for sensitive FM reception. Four dual tuned FM IF circuits provide clear reception, free of distortion and noise. The unique AM tuner circuits incorporate Ceramic Filters to insure broad band response and drift-free operation. A separate AM RF circuit and a three-section tuning capacitor provide the highest sensitivity and selectivity for tuning in the weakest of stations. A built-in ferrite antenna employs a revolutionary coil design to deliver static-free

Dual Bass and Treble controls allow you to adjust the musical content of each channel separately. Loudness, Mono/Stereo and Tape Monitor lever switches provide complete control of the sound output. The multiple-position program Selector switch and Speakers switch permit the widest choice of program sources and speaker outputs. The rear panel of the SA-50 includes facilities for connection of up to five speakers to provide magnificent stereo sound throughout the home. A multitude of accessories can be interconnected with this superb receiver to form a complete home music center.

listening. A full complement of tone controls and switches provides for complete ease of operation. The professional lever switches insure absolutely reliable electrical operation. Facilities are provided on the rear for connection of a host of speakers and accessories. Jacks are provided for connecting a record player, a tape recorder, including the new 8-track cartridge or a cassette player, and an auxiliary program source, such as shortwaver tuner. Three AC outlets, two of which are controlled by the SA-60 pushbutton Power switch, provide the ultimate in ease of wiring.



SA-60

SA-70

## SA-70

### 115-WATT FM/AM STEREO RECEIVER

Deluxe in every detail, the Panasonic SA-70 offers the highest performance and most wanted features. The FM tuner incorporates three Field Effect Transistors to prevent overloading caused by strong local stations. A two-stage RF circuit, a four-section tuning capacitor and six tuned circuits allow for perfect reception of the weakest FM stations. Four Integrated Circuits in the IF stages provide extreme selectivity to eliminate annoying interference and maintain the music at the same level without fading. Unique Ceramic Filter in the AM tuner circuit locks in the station to provide drift-free

reception once considered impossible. The Panasonic exclusive Ceramic Multiplex Filter prevents false triggering of the Stereo indicator lamp caused by noise or spurious signals. A Muting switch cancels between-station noise for quiet tuning throughout the FM band. The full complement of tone controls shape the sound to suit your requirement. A Low Filter and a High Filter switch allows you to remove annoying record rumble and high frequency hiss without affecting the overall natural sound of the music.

*Facilities provided on the rear panel to form a complete home music center.*



**PANASONIC** *High Fidelity Receivers*





## SA-4000

### 200-WATT PROFESSIONAL FM STEREO RECEIVER

The Panasonic SA-4000 is designed for the high fidelity enthusiast who demands the ultimate in stereo equipment. Here is a truly professional-quality component which includes every recent development in transistor and microcircuit design. This is the first solid-state high fidelity receiver to feature fully Automatic Motor Tuning. In addition, precision, slow-motion Manual Motor Tuning allows you to tune in the weakest of stations. An accessory Remote Control Tuning Unit, included with the receiver, makes it possible to tune from across the room perfectly each time. The SA-4000 receiver also features electronic Memory Master Tuning for presetting up to five stations so you can select your favorite stations at the push of a finger.

This new Panasonic SA-4000 stereo receiver incorporates numerous exclusive circuits that were developed especially for this professional component by the research laboratories of Panasonic. The unique FM tuner includes 4 Field Effect Transistors, 2 RF stages, a four-section tuning capacitor, and 6 tuned circuits. This insures the highest sensitivity and selectivity for receiving weak or distant stations. Six Integrated Circuits and three Ceramic Filters provide greatly improved FM performance. And, an exclusive Ceramic Discriminator supplies ultra wide band frequency response. Ceramic Filters are also used in the multiplex to eliminate false triggering of the Stereo indicator lamp caused by noise or spurious signals.

Precision wide range Linear Sliding Controls provide smooth and instant adjustment of the tonal qualities of the music. Computer-type push-buttons insure absolutely reliable electrical performance for instant selection of any program source, either FM, PHONO 1, PHONO 2, AUX 1 or AUX 2. Behind the black-out dial glass is the exclusive Panasonic LuminaBand tuning, an automatic Stereo indicator lamp and a calibrated field strength tuning meter. Computer logic circuits guarantee perfect operation of the automatic motor tuning.

A full complement of audio and tuner controls are hidden behind the bottom door panel for complete ease of operation. Four Speaker pushbuttons allow the listener to select either PHONES, MAIN, REMOTE or MAIN plus REMOTE output to provide magnificent stereo sound throughout the home. A trio of FM mode pushbuttons select either Mono operation, Auto operation which automatically selects Mono or Stereo for all stations, or Stereo only operation in which only stereo broadcasts are heard. A High-Blend switch blends an exact measure of the high frequency tones of the left and right audio channels to eliminate annoying background noise and hiss. A Muting switch suppresses between-station noise. Five audio mode push-buttons select either MONO, STEREO, REVERSE, LEFT CHANNEL or RIGHT CHANNEL for full control of the sound output.

Professional input level controls provide for exact adjustment of the phonograph and auxiliary input for lowest distortion. A Bass Turnover switch selects the low frequency turnover at either 250 or 500 Hz. The Treble Turnover switch selects the high frequency turnover at either 2 or 4 kHz. A Tone Control switch allows for adjustment of the SA-4000 audio response or cuts all the tone controls out of the circuit for flat frequency response. A Loudness switch and Tape Monitor switch complete the full range of below-panel controls.

In appearance, performance and reliability, the Panasonic SA-4000 is destined to become the ultimate in receiver design and will set the standard for high fidelity receivers for years to come.



Remote Control Unit is available for precision FM remote tuning ease of the SA-4000.

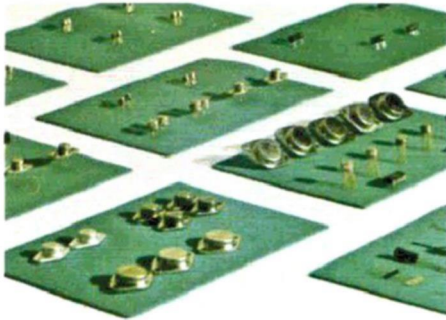
Facilities on the rear panel make the SA-4000 a magnificent home entertainment center.



# High Fidelity Stereo Music Centers

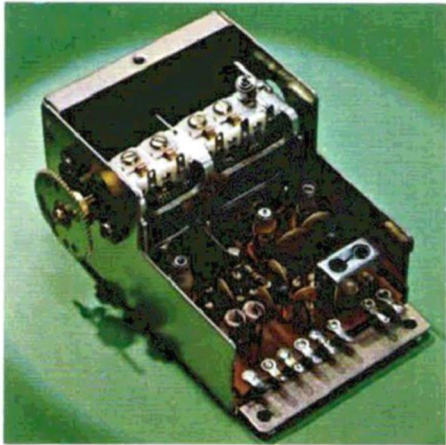
## Quality Features For Quality Performance

### Solid State Engineering



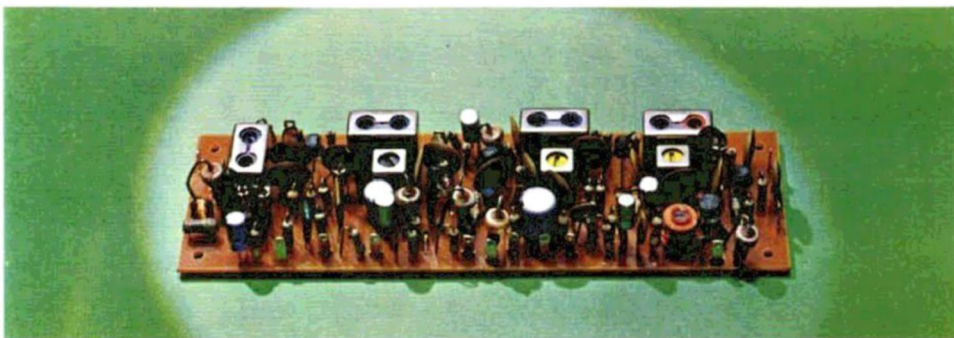
The use of more costly silicon transistors throughout the Panasonic stereo music centers insures the highest performance and reliability. The use of MOS FET's assures the highest performance from the tuner. Specially designed low-noise transistors are incorporated in critical tuner and audio circuits for the ultimate in solid state operation.

### FET FM Tuner



The Field Effect Transistor in the tuner provides superb sensitivity and selectivity to provide fine, clear FM and FM stereo reception. An RF stage and 13 tuned circuits make possible the reception of the weakest of signals without objectionable interference.

### Wide Band AM Tuner



Five tuned circuits and a two-section tuning capacitor provide superb sensitivity and unequalled selectivity for the reception of weak or distant stations. An Automatic Gain Control circuit mini-

### Full Range Linear Controls



The exclusive Panasonic full range Linear Sliding Controls provide for continuous adjustment of the tonal qualities of the music. These precise controls are calibrated to allow you to shape the music to your listening environment and balance the speaker placement and room acoustics.

### Automatic Turntable



The precision four-speed automatic turntable offers a host of features to insure optimum performance and long record wear. This unit provides low gram tracking pressure, built-in anti-skating compensation and, on some units, a Cueing Lever to raise or lower the tone arm at any portion of the record play. A magnetic-type cartridge with an ultra-compliance diamond stylus affords perfect playback of all records.

### Compact Design and Styling



The dramatic angled front control panel of the Panasonic stereo music centers features a beautiful satin-silver finish with contrasting black trim and black-out dial window. The handsome walnut cabinet is finished on all four sides so the unit may be placed in any location. A molded dust cover, included with the unit, protects the precision automatic turntable and cartridge. A full range of controls and switches insure ease of operation. Complete facilities for the connection of speakers and numerous accessories are provided on the rear of the Panasonic stereo music centers.

### Acoustic Suspension Loudspeakers



Two-way Acoustic Suspension loudspeakers insure extreme clarity and precise transient response for high quality sound reproduction. Each bass frequency woofer features a massive magnet, an extremely compliant suspension and a long throw voice coil. The tweeters utilize a low mass cone for distortion-free high frequency response and extremely wide dispersion.

mizes fading of the signal and assures a consistent volume of music. The built-in ferrite antenna brings in all stations with clarity.



## SC-555

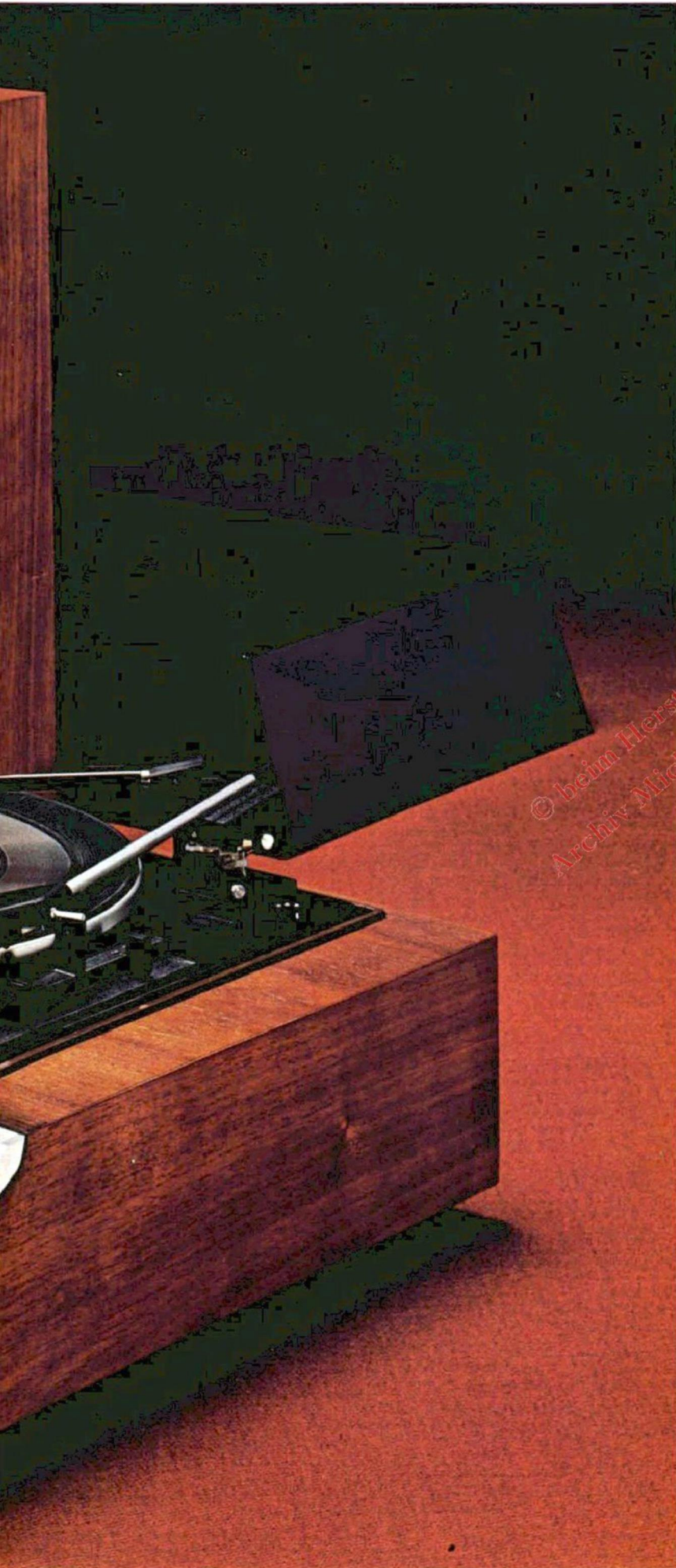
### 60-WATT STEREO MUSIC CENTER

The Panasonic SC-555 stereo music center is an exciting new concept in the design and styling of high fidelity components for home entertainment. The FM tuner features Field Effect Transistors for greater sensitivity and improved rejection of unwanted signals. Four sensitive FM IF stages allow you to tune in the weakest of FM signals. The multiplex circuits provide completely automatic Mono/Stereo switching and a Stereo indicator lamp signals the presence of an FM stereo broadcast. The AM tuner circuits provide the highest sensitivity and selectivity. A built-in ferrite antenna employs a unique coil design to deliver static-free AM listening. The exclusive Panasonic wide range Linear Sliding Controls provide for precise adjustment of the sound to suit the listening environment and personal tastes. The rear panel of the SC-555 includes facilities

for connecting a tape recorder and an auxiliary program source, such as a shortwave tuner or one of the new 8-track cartridge or cassette players. The compact speaker systems incorporate an acoustically matched 6½-inch woofer with an inverted half-roll surround for bass response down to 39 Hertz. A 2½-inch wide dispersion tweeter utilizes a wide dispersion cone for ultra-smooth response. The precision automatic turntable plays 7, 10 or 12 inch records with settings for 16⅔, 33⅓, 45 and 78 rpm speeds. Low gram stylus pressure and built-in anti-skating compensation assure reliable operation. The exclusive Panasonic Magnistate cartridge includes a turn-over stylus with diamond needle for perfect sound reproduction and low record wear.

**PANASONIC** *High Fidelity Stereo Music Centers*





## SC-666

### 80-WATT STEREO MUSIC CENTER

One of the most exciting advances in high-fidelity home entertainment units from Panasonic—a complete Stereo Music Center of professional standards. The FM tuner features a Field Effect Transistor for clear, sharp reception of more stations, both weak and strong. Four FM IF stages and a unique design ratio detector provide true broad band frequency response. The multiplex circuit uses six tuned circuits for absolutely reliable automatic Mono/Stereo switching for stereo reception of all FM stereo stations. A calibrated field strength tuning meter and an automatic Stereo indicator lamp make perfect center-of-channel tuning a simple operation. The sensitive AM tuner incorporates an RF stage for optimum selectivity. A full complement of audio controls attest to the capability of the SC-666. The exclusive Panasonic full range linear sliding controls provide smooth and instant adjustment of the tonal qualities of the music. Positive action Mono/Stereo and Tape Monitor rocker switches allow for exacting control of the Stereo Music Center operation. The Main and Remote Speakers switches, in conjunction with the Phones jack, provide complete flexibility of control for the speaker output. A multiple-position Selector switch permits the widest choice of program sources and computer-type indicator lamps insure foolproof operation. Facilities are provided on the rear panel of the SC-666 for connection of two pairs of speakers, a record player, a tape recorder and an auxiliary program source, such as the new 8-track cartridge or cassette tape players. The compact speaker systems incorporate an 8-inch woofer with an inverted half-roll surround for fundamental bass response down to 37 Hertz. A 2-inch wide dispersion tweeter utilizes a low-mass cone for smooth response out to 19,000 Hz without distortion. A low-loss crossover network controls frequency separation. The precision automatic turntable features a Cue control to interrupt record play at any time by simply moving a lever. This precision unit plays 7, 10 or 12 inch records with settings for  $16\frac{2}{3}$ ,  $33\frac{1}{3}$ , 45 and 78 rpm speeds. Stylus pressure and anti-skating adjustments assure reliable operation. The Pickering V15 MICRO-MAGNETIC cartridge includes an ultracompliant stylus with diamond needle for perfect sound reproduction and long life.

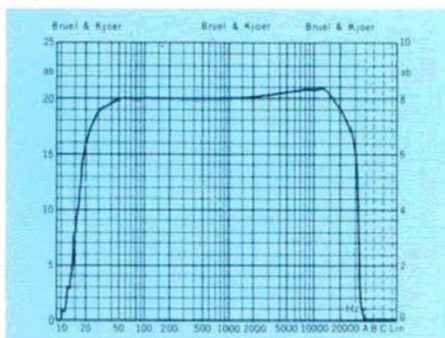
Front panel is designed for attractive functionality.

Precision-engineered automatic turntable.



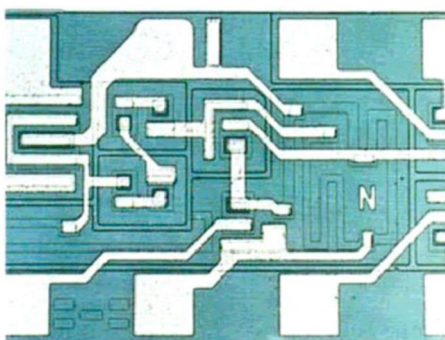
## Quality Features For Quality Performance

### Wide Frequency Range and Minimum Noise



Frequency responses are unusually wide, encompassing the lowest lows and the highest highs, much wider than the audible range of the human ear. Because of the quality control and precision engineering employed in manufacturing Panasonic tape heads, we are able to achieve an extremely high bias frequency, preventing annoying "beat" frequencies on all of our models. And to assure total noise-free operation, certain models incorporate an exclusive Panasonic noise suppression circuit to do away with tape "hiss", without affecting the wide frequency response.

### Solid-State and Integrated Circuitry



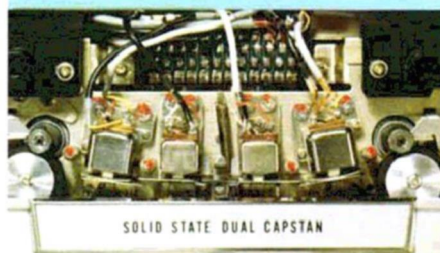
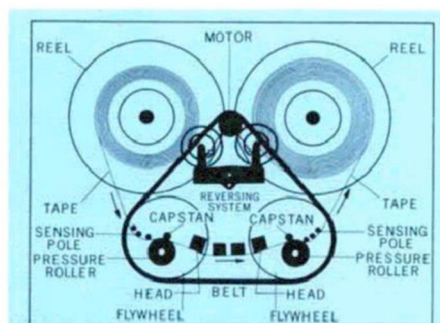
Each and every Panasonic tape deck is engineered with Solid State devices. All of these miniature devices are tested repeatedly for quality. This gives Panasonic recording equipment extra flexibility within smaller units. Some models have integrated circuits, bringing the latest marvel of modern electronics out of computers and space equipment right into your stereo listening area. These complete, tiny circuits allow Panasonic to manufacture high quality, compact tape recorders with long lasting durability.

### Automatic Reverse



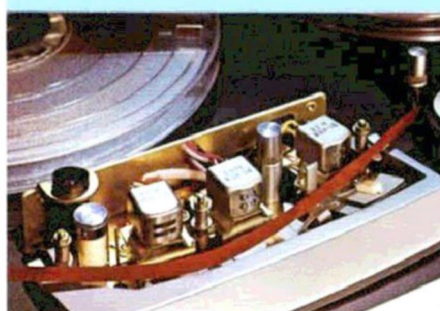
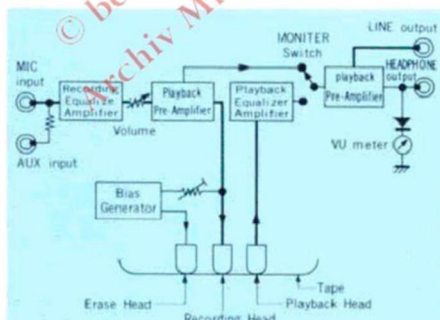
Panasonic Automatic Reverse Recording, utilizing sensing tape, allows the tape to make one continuous round trip forward and reverse. At the end of the complete cycle it shuts itself off automatically to prevent double recording. During playback the number of round trips is unlimited.

### Quality Mechanical Features



The Panasonic exclusive Synchronous Dual Capstan Drive reduces "wow" to an inaudible level. The Synchronous motors assure absolutely constant tape speed regardless of the load, thereby avoiding any speed changes near the ends of the tape. When the tape runs out, the Automatic Shut-Off system prevents damage to tape and equipment.

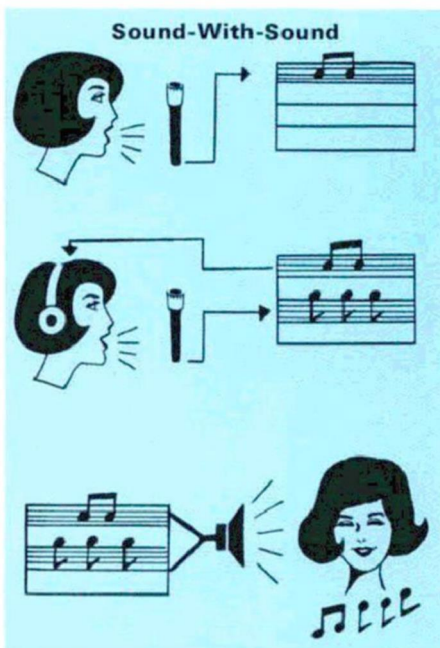
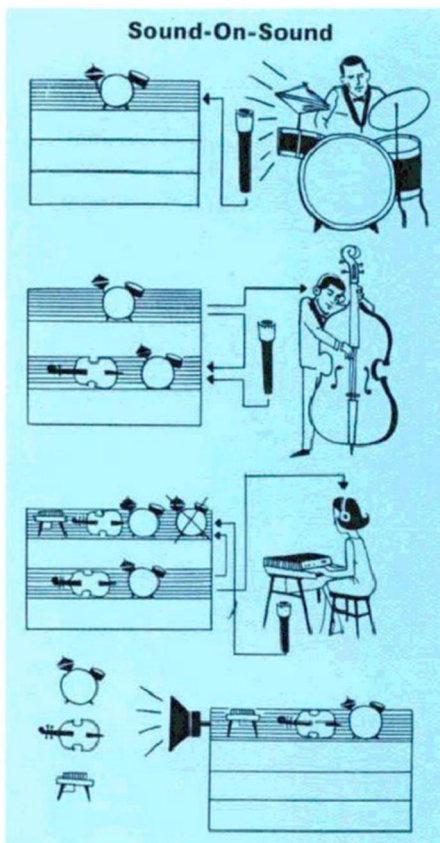
### Tape Monitoring



The tape monitor enables you to check what is being recorded on the tape by hearing the sound, as recorded, directly from the playback head. As a result recording errors are eliminated. Another feature, Panasonic's Echo Effect Recording, is one of the most interesting ideas in years. First the recorded sound goes from the recording head to the playback head and then back to the recording head, recording on the recording head each time. Thus giving you the unique "Echo" effect.

### Sound-On-Sound and Sound-With-Sound

Simply explained, Sound-on-Sound permits the recordist to record himself playing the guitar, or singing, or anything else, once, twice or as many times as desired. He literally becomes a duet, trio, chorus, or one-man-band. While Sound-with Sound permits the recordist to listen to track 1 while he records on track 3. Then play back the two simultaneously for comparison. Great for party fun. Ideal for voice, instrument and language study.

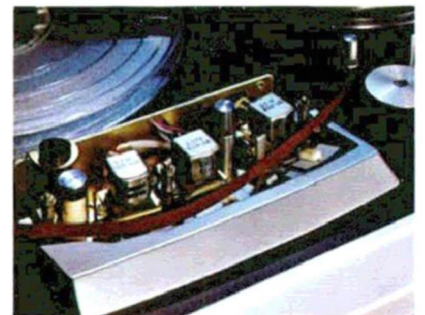




**RS-768US "The Templeton"**

**PROFESSIONAL HI-FI 4-TRACK STEREO TAPE DECK WITH PRECISION 3-HEAD SYSTEM**

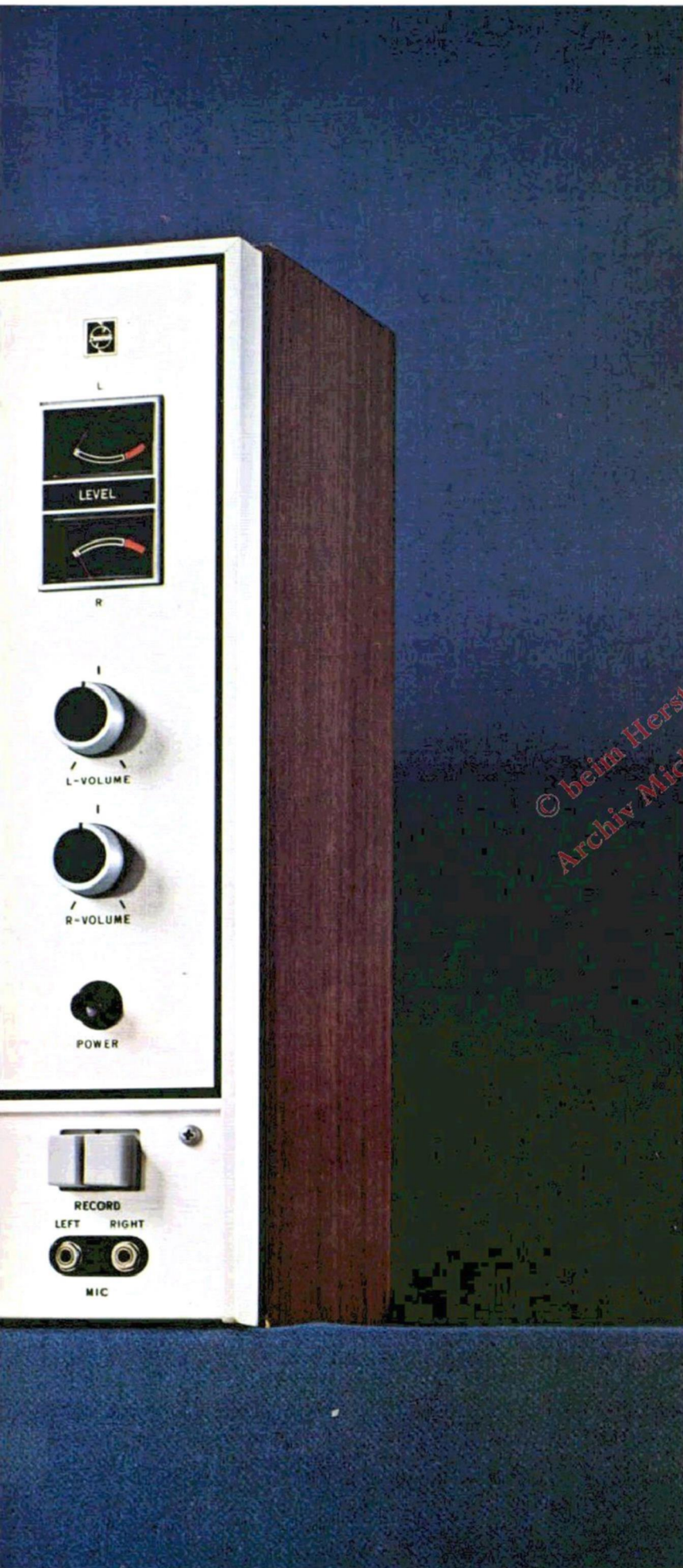
*The Templeton* is beautifully designed in Walnut grain and Midnight Black with a luxury-style silver control panel. With performance to please the most discriminating professional, this unique deck offers advantages exclusive to 3-head systems... individual perfection of Record, Playback and Erase; a far higher frequency response at all three speeds; and Tape and Source Monitoring for perfect results. Precision operation by a combination of pushbuttons and simple levers which assure immediate response to your taping requirements. Synchronous motor provides exacting speed accuracy for distortion-free taping results. Noise suppressor switch automatically cuts out mechanical noise without affecting frequency response. Sound-on-Sound with separate volume control, and Sound-with-Sound. These two features are great for sing-a-longs, party fun and voice or language study. Excellent for speech therapy. VU meters give immediate indication of recording level on either channel, for precise recording performance. 4-position digital tape counter. Pause Control for immediate source editing. Fast Forward and Rewind. Operates both vertically and horizontally. Automatic Shutoff system shuts the deck off at the end of the tape. Solar Bronze dust cover. Solid State engineered and advanced Integrated Circuitry for long-term reliable performance.



3-head System

**PANASONIC** *High Fidelity Stereo Tape Decks*

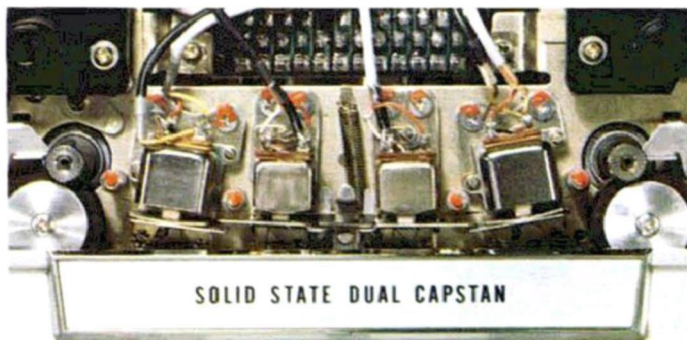




## RS-796US "The Symposium"

**BEAUTIFULLY DESIGNED DUAL CAPSTAN 4-TRACK STEREO TAPE DECK WITH CONTINUOUS AUTOMATIC REVERSE**

*The Symposium* is the perfect piece of recording equipment to complete the finest of stereo systems for both the professional and the discriminating amateur. Designed with beautiful walnut wood grain cabinetry and distinctive silver control panel. This outstanding 4-track stereo recorder, with continuous automatic reverse, records and plays in both directions without exchanging reels. It can best be compared to a long-playing album that turns itself over when it reaches the end of one side. Featuring Synchronous Dual Capstan Drive for absolute minimum "wow" and "flutter". Precision operation is made easy and convenient by a combination of pushbuttons and simple levers which assure true professional quality. Sound-on-Sound and Sound-with-Sound permit a world of taping enjoyment. Simply explained, Sound-on-Sound lets you record voice on track 1, then lay in the musical background on track 3. Now you can play back both tracks and enjoy the combined results. Sound-with-Sound permits you to listen to track 1 while you record on track 3. Then play both back simultaneously for comparison. These two features are great for sing-a-longs, party fun and voice or language study. Excellent for speech therapy. With two precision VU meters you see immediate indication of recording level on either channel, allows for perfect recording performance. The 4-position digital tape counter indicates numerical location of any particular selection or part of tape. Allows for instant reference, indexing or taping. And convenient Pause Control lets you stop the tape for immediate source editing. The automatic Shut-off system shuts the deck off at the end of the tape, preventing damage to tape and equipment. You can play and record on *the Symposium* vertically or horizontally, allowing for easy integration into any professional Hi-Fi system. The Solar Bronze dust cover permits dust-free storage while the deck is not in use. And it's Solid State engineered for long-term, reliable performance.



Dual Capstan

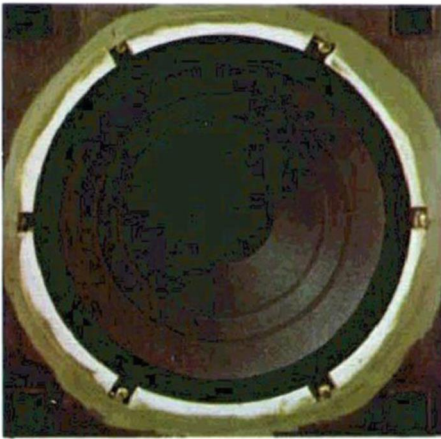


Automatic Reverse

PLAY

## Quality Features For Quality Performance

### Acoustic Suspension Woofers



The acoustic suspension woofer incorporates the Panasonic "wet method" exclusive ceramic magnet with almost twice the field of conventional magnets. The extremely compliant surround and specially treated cone provide fundamental bass response below 30 Hertz without doubling or distortion. A precision mounted multilayer voice coil allows for wide excursions of cone to provide excellent transient response.

### Precision Step Controls



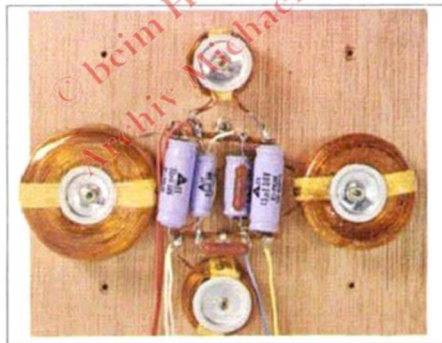
Individual Step Controls provide for precise 3 dB level changes in the mid range and treble sound reproduction of the Panasonic speaker systems. These controls adapt the speaker system to any listening area without affecting the overall frequency range of the speakers.

### Ultra Compliant Midranges



The Midrange Speakers utilize a half-roll surround to insure flawless reproduction of the entire midrange frequency spectrum. A unique suspension system provides exceptional compliancy for the cone for extreme clarity and overall smoothness of reproduction. Each midrange driver is sealed in its own airtight enclosure to avoid any acoustical interference with the woofer and tweeters.

### Low Loss Crossover Networks

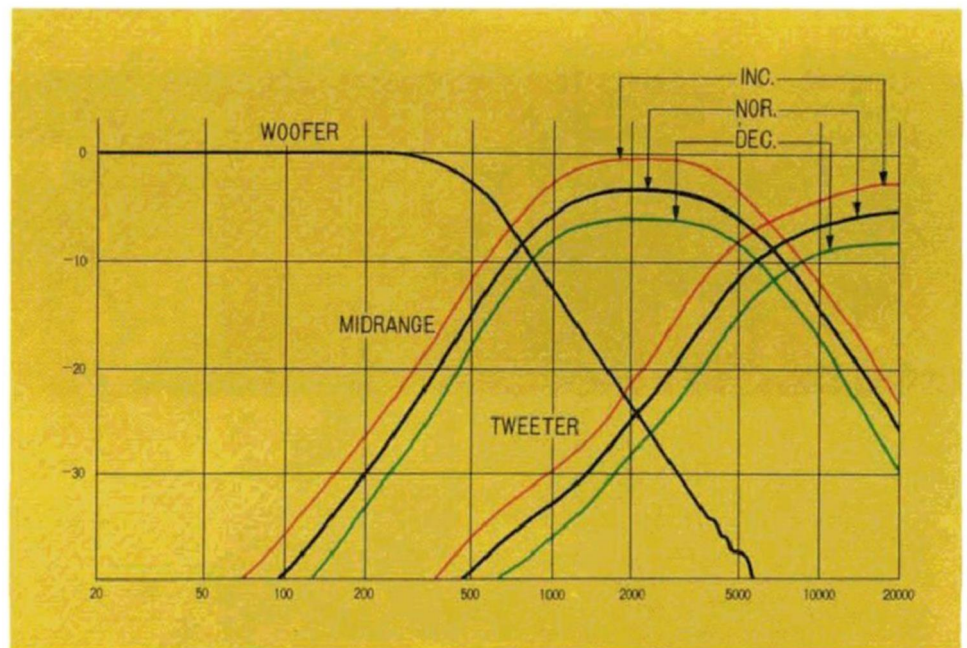


### Wide Dispersion Tweeters



Special design tweeters provide excellent frequency response to beyond the limits of human hearing. Low voice coil mass insures uniform and natural sounding highs and wide dispersion of the music throughout the listening area. The unique horn tweeter features a Mylar Dome for unusual clarity and transparent sound reproduction.

The crossover networks utilize the highest quality components for low losses. Capacitance and inductive elements produce controlled response and smooth transition at each of the crossover points between the individual loudspeakers. This insures controlled impedance throughout the entire audio frequency range for optimum sound reproduction.



## SB-22

### COMPACT 2-WAY SPEAKER SYSTEM

The Panasonic SB-22 Compact Speaker System provides an amazing degree of bass response unexpected from such a small enclosure. This is attributable to the unique 8-inch acoustic suspension woofer. The woofer utilizes a unique plasticized inverted half-roll surround and a 4-pound magnet structure to provide a free air resonance of 33 Hertz. Together with an air-tight enclosure, the fundamental bass response reproduces down to 38 Hertz without doubling or distortion. The 3-inch cone tweeter utilizes a low-mass cone for smooth response up to 19,000 Hertz. A special peak-free cone design insures a smooth and tight treble response. A low-loss crossover network separate the frequencies at the crossover point of 2,500 Hertz. The Panasonic SB-22 combines natural sounding performance with a compact size and is a noteworthy addition to any high fidelity system.



## SB-33

### BOOKSHELF 3-WAY SPEAKER SYSTEM

The Panasonic SB-33 is a Bookshelf Speaker System with unsurpassed performance from the lowest bass notes to the highest audible frequencies without any coloration. The 10-inch acoustic suspension woofer features an inverted half roll surround of extremely high compliance and a 1 1/4-inch voice coil diameter. The result is an exceptional free-air resonance of 28 Hertz. The mid-frequency range is reproduced by an especially developed 3 1/2-inch driver which uses a new resonance-free cone material to assure faultless reproduction. The 2-inch cone tweeter incorporates a 4 1/2-ounce high flux density magnetic structure to provide the finest high frequency response up to the limits of audibility. A three-position treble balance control allows you to adapt the qualities of the upper frequencies to suit the acoustics of the listening area. The Panasonic SB-33 is highly recommended for those who seek a superb performer in a bookshelf enclosure.





## SB-77

### TECHNICS 3-WAY SPEAKER SYSTEM

The Technics series of speaker systems are the result of major advances in the electro-acoustic state-of-the-art by the research laboratories of Panasonic. The 10-inch woofer incorporates a unique and extremely compliant inverted half-roll surround. This bass speaker has a 4½-pound magnet structure and a 1½-inch voice coil for a power handling capacity of 60-watts. The 5-inch midrange driver employs an impregnated half-roll surround to prevent cone resonances and to insure perfect transient response. The 2-inch horn tweeter features a Mylar Dome and aluminum horn for effective dispersion of high frequencies without distortion. A low-loss capacitive and inductive network provides controlled impedance and smooth transition at the crossover frequencies. Two three-position treble and midrange balance controls allow precise matching of the speaker to the listening area.



## SB-88

### 3-WAY FIVE SPEAKER SYSTEM

This Technics Speaker System includes numerous engineering achievements in loud-speaker design to provide magnificent and matchless reproduction. The massive 5½-pound woofer magnet structure and a unique ultracompliant pure virgin rubber surround combine to provide a free-air resonance below 22 Hertz for exceptional low-frequency response. The mid-frequencies are reproduced by two independent 5-inch midrange speakers, each utilizing a compliant impregnated half-roll surround for superb response. Two 2-inch horn tweeters feature Mylar Domes for 120 degree dispersion of the high treble frequencies. All five speakers are acoustically matched for overall smoothness of response. An inductive-capacitive crossover network effectively eliminates speaker phasing problems. Two three-position treble and mid-range balance controls allow for adapting the speaker to the listening environment. The SB-88 provides the ultimate in speaker performance to satisfy the true high fidelity enthusiast.





The most popular stereo component system today consists of a stereo receiver, two wide-range speaker systems, and a precision automatic turntable with magnetic cartridge. Quite frequently, a professional quality tape deck is also included. The stereo receiver combines the functions of an AM/FM or FM tuner, preamplifier and power amplifier on one chassis. By simply connecting a pair of quality speaker systems, you can enjoy stereo listening from the FM stations. Later you can add a record changer, tape deck or one of the new tape cartridge or cassette players to listen to records or tapes. You can even record your own tapes to build a complete music library.



The most exciting idea in stereo today is the stereo compact or module system. These three-piece stereo music centers consist of a complete stereo receiver combined with an automatic turntable and cartridge and two bookshelf speaker systems. These stereo music centers are designed for the stereo listener who wishes a good measure of component quality and sound, but does not want to select the individual component units and get technically involved in their installation. The PANASONIC high fidelity compacts closely match the performance of the finest high fidelity component systems at a modest cost.

# Specifications

## HIGH FIDELITY RECEIVER

MODEL	SA-40	SA-50	SA-60	SA-70	SA-4000
<b>AMPLIFIER SECTION</b>					
<b>Music Power</b>	70 Watts 1 dB at 4 ohms	75 Watts 1 dB at 4 ohms	75 Watts 1 dB at 4 ohms	115 Watts 1 dB at 4 ohms	200 Watts 1dB at 4 ohms
<b>IHF Dynamic Power</b>	55 Watts at 4 ohms 40 Watts at 8 ohms	60 Watts at 4 ohms 55 Watts at 8 ohms	60 Watts at 4 ohms 55 Watts at 8 ohms	90 Watts at 4 ohms 80 Watts at 8 ohms	160 Watts at 4 ohms 160 Watts at 8 ohms
<b>RMS Power</b> (at 1 kHz and rated distortion)	12/12 Watts at 8 ohms	22.5/22.5Watts at 8ohms	22.5/22.5 Watts at 8 ohms	32/32 Watts at 8 ohms	60/60 Watts at 8 ohms
<b>Harmonic Distortion</b> (at 1 kHz and rated output)	0.8 %	0.8 %	0.8 %	0.8 %	0.1 %
<b>Intermodulation Distortion</b> (60 Hz + 7 kHz, 4 : 1, SMPTE)	1.2 %	1.0 %	1.0 %	1.0 %	0.2 %
<b>Power Bandwidth</b>	20Hz to 50,000Hz -3 dB	20Hz to 50,000Hz -3 dB	20Hz to 50,000Hz -3 dB	15Hz to 70,000Hz -3 dB	20Hz to 30,000Hz -3 dB
<b>Frequency Response</b> Phono Auxiliary Power Amplifier	30Hz to 20,000Hz ±3 dB (Phono Low) 30Hz to 50,000Hz ±3 dB 20Hz to 60,000Hz -3 dB	30Hz to 20,000Hz ±3 dB (Phono Low) 30Hz to 60,000Hz ±3 dB 20Hz to 70,000Hz -3 dB	30Hz to 20,000Hz ±3 dB (Phono Low) 30Hz to 60,000Hz ±3 dB 20Hz to 70,000Hz -3 dB	30Hz to 20,000Hz ±3 dB (Phono Low) 30Hz to 60,000Hz ±3 dB 20Hz to 100,000Hz -3 dB	RIAA Standard Curve ±0.5 dB (Phono 1) 20Hz to 50,000Hz ±3 dB 10Hz to 130,000Hz
<b>Input Sensitivity (for rated output)</b> Phono Auxiliary Tape Monitor	3.5mV (Phono Low) 10mV (Phono High) 170mV 170mV	3.5mV (Phono Low) 10mV (Phono High) 230mV 230mV	3.5mV (Phono Low) 10mV (Phono High) 230mV 230mV	4mV (Phono Low) 18mV (Phono High) 200mV 200mV	3mV (Phono 1) 5mV (Phono 2) 150mV 150mV
<b>Input Impedance</b> Phono Auxiliary Tape Monitor	50 kohms (Phono Low) 50 kohms (Phono High) 33 kohms (Ceramic) 35 kohms 35 kohms	50 kohms (Phono Low) 60 kohms (Phono High) 35 kohms 35 kohms	50 kohms (Phono Low) 60 kohms (Phono High) 35 kohms 35 kohms	50 kohms (Phono Low) 60 kohms (Phono High) 35 kohms 35 kohms	47 kohms (Phono 1) 100 kohms (Phono 2) 50 kohms 100 kohms
<b>Hum and Noise</b> Volume at Minimum Phono Auxiliary	70 dB 60 dB (Phono Low) 70 dB	77 dB 65 dB (Phono Low) 75 dB	77 dB 65 dB (Phono Low) 75 dB	80 dB 65 dB (Phono Low) 75 dB	80 dB 65 dB (Phono 1) 90 dB
<b>Bass Range</b>	±10dB at 50Hz	±10dB at 50Hz	±10dB at 50Hz	±10dB at 50Hz	±12dB at 50Hz
<b>Treble Range</b>	±9dB at 10kHz	±10dB at 10kHz	±10dB at 10kHz	±10dB at 10kHz	±10dB at 10kHz
<b>Low Filter</b>	—	—	—	12dB per octave below 70Hz	—
<b>High Filter</b>	6dB per octave above 6kHz	—	—	12dB at 7kHz	—
<b>Turnover Frequency Selector</b>	—	—	—	—	Bass : 250Hz/500Hz Treble : 2kHz/4kHz
<b>Tone Control Canceller</b>	—	—	—	—	YES
<b>Damping Factor</b>	20 at 4 ohms 40 at 8 ohms	25 at 4 ohms 50 at 8 ohms	25 at 4 ohms 50 at 8 ohms	25 at 4 ohms 50 at 8 ohms	75 at 4 ohms 150 at 8 ohms
<b>Recorder Output Level</b>	170mV	230mV	230mV	200mV	150mV

### FM TUNER SECTION

<b>FM Usable Sensitivity (IHF)</b>	2.8 μV	2.2 μV	2.2 μV	2.0 μV	1.5 μV
<b>FM Harmonic Distortion</b> (at 400Hz, 100% modulation)	0.7 %	0.6 %	0.6 %	0.5 %	0.15 %
<b>Signal to Noise Ratio</b>	60 dB	60 dB	60 dB	60 dB	70 dB
<b>Selectivity, Alternate Channel</b>	40 dB	45 dB	45 dB	50 dB	60 dB
<b>Spurious Response Rejection</b> (at 100 MHz)	70 dB	75 dB	75 dB	75 dB	100 dB
<b>IF Rejection</b> (at 100 MHz)	90 dB	90 dB	90 dB	90 dB	100 dB
<b>Image Rejection</b> (at 100 MHz)	55 dB	80 dB	80 dB	80 dB	95 dB
<b>FM Stereo Separation</b> (at 1 kHz)	35 dB	35 dB	35 dB	37 dB	45 dB
<b>Capture Ratio</b> (IHF)	3 dB	2.5 dB	2.5 dB	2 dB	1 dB
<b>High-Blend</b>	—	—	—	—	YES

### AM TUNER SECTION

<b>AM Sensitivity (IHF)</b>	20 μV	—	20 μV	20 μV	—
<b>Selectivity</b> (at 1 MHz and ±10 kHz)	25 dB	—	25 dB	25 dB	—
<b>Image Rejection</b> (at 1 MHz)	40 dB	—	70 dB	70 dB	—
<b>IF Frequency Rejection</b> (at 1 MHz)	45 dB	—	80 dB	80 dB	—
<b>Dimensions (W × H × D)</b> (Including control knobs and fuse post)	16" × 5" × 14"	19 <sup>3</sup> / <sub>8</sub> " × 5 <sup>1</sup> / <sub>8</sub> " × 14"	19 <sup>3</sup> / <sub>8</sub> " × 5 <sup>1</sup> / <sub>8</sub> " × 14"	19 <sup>3</sup> / <sub>8</sub> " × 5 <sup>1</sup> / <sub>8</sub> " × 14"	20 <sup>1</sup> / <sub>16</sub> " × 7" × 16 <sup>5</sup> / <sub>16</sub> "
<b>Weight</b> (Unpacked) (Packed)	20 lb. 29 lb.	25 lb. 34 lb.	25 lb. 34 lb.	28.5 lb. 35 lb.	46 lb. 60 lb.
<b>Power Supply</b>	120 V AC 100 Watts	117 V AC 190 Watts	117 V AC 190 Watts	117 V AC 220 Watts	117 V AC 200 Watts

## STEREO MUSIC CENTER

MODEL	SC-555	SC-666
<b>AMPLIFIER SECTION</b>		
<b>Music Power</b>	*60 Watts at 8 ohms	*80 Watts at 4 ohms
<b>IHF Dynamic Power</b>	30 Watts at 8 ohms	40 Watts at 4 ohms
<b>Harmonic Distortion</b> (at 1kHz and rated output)	1.0 %	1.0 %
<b>Power Bandwidth</b>	22Hz to 25,000Hz -3 dB	20Hz to 25,000Hz -3 dB
<b>Input Sensitivity</b> (for rated output) Auxiliary Tape Monitor	200 mV —	200 mV 500 mV
<b>Input Impedance</b> Auxiliary Tape Monitor	100 kohms —	50 kohms 100 kohms
<b>Bass Range</b>	±10dB at 100Hz	±10dB at 100Hz
<b>Treble Range</b>	±10dB at 10kHz	±10dB at 10kHz
<b>Damping Factor</b>	20 at 8 ohms	20 at 8 ohms
<b>Recorder Output Level</b>	150 mV	200 mV

### FM TUNER SECTION

<b>FM Usable Sensitivity</b> (IHF)	2.9 $\mu$ V	2.8 $\mu$ V
<b>FM Harmonic Distortion</b> (at 400Hz, 100% modulation)	0.8 %	0.8 %
<b>Signal to Noise Ratio</b>	60 dB	60 dB
<b>FM Stereo Separation</b> (at 1 kHz)	35 dB	35 dB
<b>Capture Ratio</b> (IHF)	2.5 dB	2.5 dB

### AM TUNER SECTION

<b>AM Sensitivity</b> (IHF)	20 $\mu$ V	20 $\mu$ V
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### RECORD PLAYER SECTION

<b>Turntable</b>	BSR MA55	BSR MA65
<b>Cartridge</b>	Panasonic 35TTAD	Pickering V15
<b>Stylus</b>	Diamond	Diamond

### SPEAKER SYSTEM

<b>Type</b>	2-Way	2-Way
<b>Speakers</b>	2 $\times$ (6 $\frac{1}{2}$ " + 2 $\frac{1}{2}$ ")	2 $\times$ (8" + 2")
<b>Impedance</b>	8 ohms	8 ohms
<b>Crossover Frequency</b>	8000 Hz	8000 Hz
<b>Dimensions (W <math>\times</math> H <math>\times</math> D)</b> Including control knobs and fuse post	Center Unit 17 $\frac{7}{8}$ " $\times$ 8 $\frac{7}{8}$ " $\times$ 15 $\frac{1}{8}$ " Speaker System 9 $\frac{3}{4}$ " $\times$ 15 $\frac{3}{8}$ " $\times$ 8 $\frac{1}{2}$ " each	Center Unit 17 $\frac{7}{8}$ " $\times$ 8 $\frac{7}{8}$ " $\times$ 18 $\frac{7}{8}$ " Speaker System 11 $\frac{3}{8}$ " $\times$ 17 $\frac{3}{8}$ " $\times$ 8 $\frac{3}{4}$ " each
<b>Weight</b>	Center Unit 22 lb. Speaker System 6 lb. 10 oz. each	Center Unit 33 lb. Speaker System 11 lb. each
<b>Power Supply</b>	120 V AC 55 Watts	120 V AC 85 Watts

\*For stereo music systems, power is measured using the peak power method.

## SPEAKER SYSTEM

MODEL	SB-22	SB-33	SB-77	SB-88
<b>Type</b>	2-Way	3-Way	3-Way	3-Way
<b>Speaker</b>	<b>Woofer</b>	8"	10"	12"
	<b>Midrange</b>	—	3 $\frac{1}{2}$ "	2 $\times$ 5"
	<b>Tweeter</b>	3"	2"	2"
<b>Frequency Response</b>	38Hz to 19,000Hz	30Hz to 20,000Hz	28Hz to 21,000Hz	24Hz to 22,000Hz
<b>Recommended Amplifier Power</b>	10 Watts to 30 Watts	10 Watts to 40 Watts	10 Watts to 60 Watts	10 Watts to 80 Watts
<b>Impedance</b>	8 ohms	8 ohms	8 ohms	8 ohms
<b>Crossover Frequencies</b>	2,500Hz	1,300Hz, 6,000Hz	800Hz, 6,000Hz	800Hz, 6,000Hz
<b>Woofer Resonance</b>	33Hz	25 Hz	25 Hz	20 Hz
<b>Woofer Magnet Structure</b>	4 lb.	4 lb.	4 $\frac{1}{2}$ lb.	5 $\frac{1}{2}$ lb.
<b>Midrange Magnet Structure</b>	—	6 $\frac{3}{4}$ oz.	2 $\frac{3}{4}$ lb.	2 $\frac{3}{4}$ lb.
<b>Tweeter Dispersion</b>	100 degrees	120 degrees	120 degrees	120 degrees
<b>Accessories</b>	—	A 3-position treble balance control	Two 3-position treble and midrange balance controls	Two 3-position treble and midrange balance controls
<b>Dimensions (W <math>\times</math> H <math>\times</math> D)</b>	10 $\frac{1}{4}$ " $\times$ 20 $\frac{1}{2}$ " $\times$ 9 $\frac{1}{2}$ "	11 $\frac{3}{4}$ " $\times$ 22 $\frac{3}{8}$ " $\times$ 11 $\frac{3}{8}$ "	13 $\frac{1}{8}$ " $\times$ 23 $\frac{3}{8}$ " $\times$ 11 $\frac{3}{8}$ "	15 $\frac{1}{8}$ " $\times$ 26 $\frac{1}{8}$ " $\times$ 13 $\frac{3}{8}$ "
<b>Weight</b>	14.3 lb.	20 lb.	32 lb.	48.5 lb.
<b>Cabinet</b>	Walnut Finish	Oiled Walnut	Oiled Walnut	Oiled Walnut

## TAPE DECK

MODEL	"The Templeton" RS-768US	"The Symposium" RS-796US
<b>Power Source</b>	AC	AC
<b>Power Consumption</b>	35 W	45 W
<b>Operation System</b>	Lever	Lever
<b>Max. Reel Size (inch)</b>	7	7
<b>Tape Speed</b>	7 $\frac{1}{2}$ , 3 $\frac{3}{4}$ , 1 $\frac{7}{8}$	7 $\frac{1}{2}$ , 3 $\frac{3}{4}$ , 1 $\frac{7}{8}$
<b>Track System</b>	4	4
<b>Frequency Response</b> (7 $\frac{1}{2}$ ips) (3 $\frac{3}{4}$ ips) (1 $\frac{7}{8}$ ips)	20~27,000 Hz 20~17,000 Hz 20~10,000 Hz	30~20,000 Hz 30~13,000 Hz 30~6,000 Hz
<b>Recording System</b>	AC	AC
<b>Erase System</b>	AC	AC
<b>Sound-on-Sound</b>	Yes	Yes
<b>Sound-with-Sound</b>	Yes	Yes
<b>"NS" Device</b>	Yes	—
<b>Automatic Continuous Reverse System</b>	—	Yes
<b>Automatic Tape Stop</b>	Yes	Yes
<b>Tape Pause</b>	Yes	Yes
<b>Tape Counter</b>	4-digit	4-digit
<b>Level Indicator</b>	2-VU meter	2-VU meter
<b>Monitor System</b>	Tape, Source Monitor	Source Monitor
<b>Head</b>	3	4
<b>Motor</b>	1	1
<b>Speaker</b>	—	—
<b>Transistor</b>	17	15
<b>IC</b>	2	—
<b>Input (MIC)</b>	2	2
<b>Input (AUX)</b>	2	2
<b>Output (LINE)</b>	2	2
<b>Headphone</b>	1	1
<b>Dimensions (W <math>\times</math> H <math>\times</math> D)</b>	18 $\frac{1}{2}$ " $\times$ 13 $\frac{1}{4}$ " $\times$ 8"	19 $\frac{3}{4}$ " $\times$ 14 $\frac{1}{8}$ " $\times$ 8 $\frac{1}{2}$ "
<b>Weight</b>	24 $\frac{1}{8}$ lb.	33 $\frac{3}{8}$ lb.



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