OPERATING INSTRUCTIONS & SERVICE MANUAL

SOLID-STATE STEREO AMPLIFIER

SANSUI AU-555 A





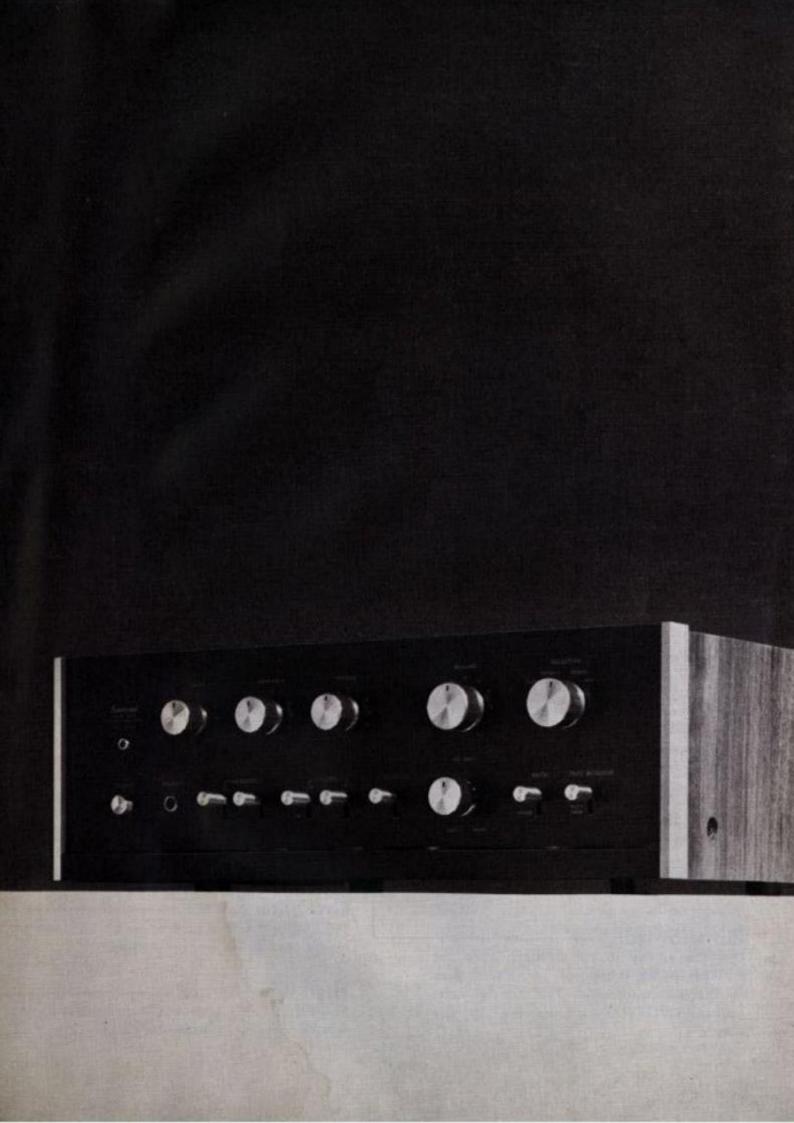
SANSUI ELECTRIC COMPANY LIMITED

Thank you for selecting the sansui AU-555A Solid State Stereo Control Amplifier, upgraded model of the AU-555, featuring the refined dull black panels and the exclusive Triple Tone Controls. We sincerely feel that you've made the best choice possible in the compact size and medium power amplifier field. In design, appearance and preformance, the AU-555A draws heavily on the careful engineering that has made Sansui's larger AU-amplifiers favorites among stereo enthusiasts throughout the world. Like every Sansui audio component, the model AU-555A was inspected and certified to be in perfect operating condition before leaving our factory.

This manual has been prepared to help you keep it that way by covering the correct procedures for installation, connecting components and operating controls. For years of trouble-free stereo enjoyment, please read it carefully before operating the ampifier.

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SWITCHES AND CONTROLS

Bass Control

The BASS control is used to boost or to cut the low-end response, according to your taste, speaker response and listening conditions. With the BASS control in the mid-position (marked 0), the bass tone will sound exactly as recorded or broadcast. To increase the intensity of the bass tones, turn the BASS control clockwise. To decrease the bass loudness, turn the BASS control counterclockwise.

Treble Control +

The TREBLE control does for the high frequencies what the BASS control does for the lows. To increase the intensity of the treble tones, turn the TREBLE control clockwise. To decrease the treble loudness, turn the TREBLE control counterclockwise.

Midrange Control -

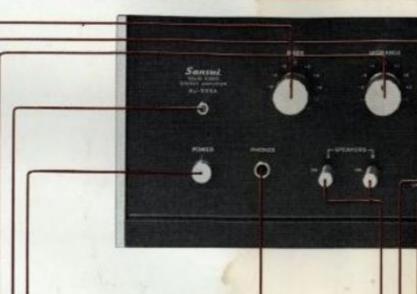
The MIDRANGE control does for the midrange what the BASS control does for the lows. To increase the intensity of the midrange tones, turn the MIDRANGE control clockwise. To decrease the midrange loudness, turn the MIDRANGE control counterclockwise.

Power Indicator -

The power indicator glows when the POWER switch is pushed on. The indicator lamp remains lit while the amplifier is on.

Power Switch -

Power is applied to the amplifier when the POWER switch is pushed. To turn off, push the POWER switch again. The rear AC outlet marked SWITCHED is controlled by this switch.



Headphones Jack -

Plug in a headset for private listening or monitoring. The PHONES jack will accept any standard stereo phono plug but a dynamic headset is recommended.

Speaker Selector Switches -

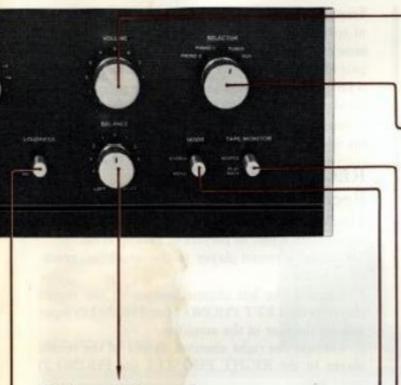
These switch enables you to choose between one set of speakers ("A" system) and another set ("B" system), which may be installed in the same room or in another part of the house. For private listening with headphones, set both switches to the OFF position.

Low Filter Switch -

The LOW FILTER is used to reduce turntable rumble or other low-frequency noises.

High Filter Switch -

This FILTER is used to reduce record scratch, tape hiss or other high-frequency noises.



Balance Control

This control is used to adjust for equal sound levels from both left and right channels. To increase the sound level on the right and decrease the left, turn the control clockwise. To increase the sound level on the left and decrease the right, turn the control counterclockwise.

Loudness Switch

This switch is used to compensate for the natural hearing deficiency of the human ear in the extreme bass and treble ranges at low listening levels. When this switch is on, it converts the VOLUME control to a loudness compensated control. Switch it on to listen at low volume levels.

Volume Control

The VOLUME control adjusts the over-all sound level of both channels. To increase the volume, turn the control clockwise.

Selector Switch

This switch selects from among the various program sources connected to the input jacks on the rear panel of the amplifier. Below are the switch positions and their functions:

PHONO 1—Selects a record player connected to the PHONO 1 inputs on the rear panel.

PHONO 2—Selects a record player connected to the PHONO 2 inputs on the rear panel.

TUNER—Selects a tuner, or MPX adaptor connected to the TUNER inputs on the rear panel. AUX—Selects a tuner, MPX adaptor or other components connected to the AUX inputs on the rear panel.

Tape Monitor Switch

This switch enables you to compare the recorded tape with the original program. When the switch is in the PLAYBACK position, the recorded tape is heard from the loudspeakers. The monitoring process is only possible with a three-head tape machine. IMPORTANT: When not in use, make sure the switch is in the SOURCE position.

Mode Switch

STEREO-Use this position for all stereo programs.

MONO—Use this position for all monophonic programs. This position connects the left or right input or the L+R program to both speakers.

OPERATIONS —— SPEAKER CONNECTIONS —— RECORD PLAYING

SPEAKER CONNECTIONS

Two sets of any 4- to 16-ohm speakers can be used with the AU-555A. One set may be installed as the main system, the other may be installed in any room in the house. Both systems are controlled by the SPEAKER selector switches on the front panel of the amplifier.

Connection

No more than ¼-inch of insulation should be removed from the end of a speaker cable, since any greater length of exposed wire is likely to cause shorts at the terminals on the rear of the amplifier. All wire strands should be tightly twisted. As illustrated on the opposite page push the jack button down and hold with one hand, insert the end wires of the speaker cable into the hole with the other hand, and release the button.

One Speaker System

To connect the main set of speakers (SYSTEM-A) to the amplifier:

- Connect the (+) terminals of the speaker on your left (as viewed from the listening position) to the LEFT SYSTEM-A(+) terminal on the rear of the amplifier.
- Connect the lead from the common speaker terminal (marked -, C, G etc.) to the LEFT SYS-TEM-A (-) terminal on the rear of the amplifier.
- Connect the (+) terminal of the right speaker to the RIGHT SYSTEM-A (+) terminal on the rear of the amplifier.
- Connect the lead from the common speaker terminal (marked -, C, G etc.) to the RIGHT SYS-TEM-A (-) terminal on the rear of the amplifier.
 Turn on the SPEAKER A switch.

Additional Speakers

If you wish to connect another set of speakers in the same room or remotely, you can connect such speakers to the SPEAKER SYSTEM-B terminals of each channel as indicated in the preceding section. In this case, turn on the SPEAKER B switch. Important: If you want to use two stereo pairs of speaker systems at the same time, their impedance must be more than 8 ohms each. When one pair of 4-ohm speaker systems are connected to the SYSTEM A terminals and the other pair of 4-ohm speaker systems to the SYSTEM B taps, never use them simultaneously with both SPEAKER switches on.

RECORD PLAYING Record Player Connections

The AU-555A has two sets of PHONO inputs to accomodate a pair of players or pickup arms.

To connect a record player to the amplifier, proceed as follows:

- Connect the left channel output of the record player to the LEFT PHONO 1 (or PHONO 2) input jack on the rear of the amplifier.
- Connect the right channel output of the record player to the RIGHT PHONO 1 (or PHONO 2) input jack.
- If a monophonic player or turntable is used, it may be connected to either LEFT or RIGHT PHONO input tack.

NOTE: A record player with a constant amplitude cartridge such as crystal or ceramic is not recommended for use with the AU-555A from a standpoint of tone quality. If such a player must be used, connect the output of the player to the AUX input jack on the rear of the amplifier.

Operation

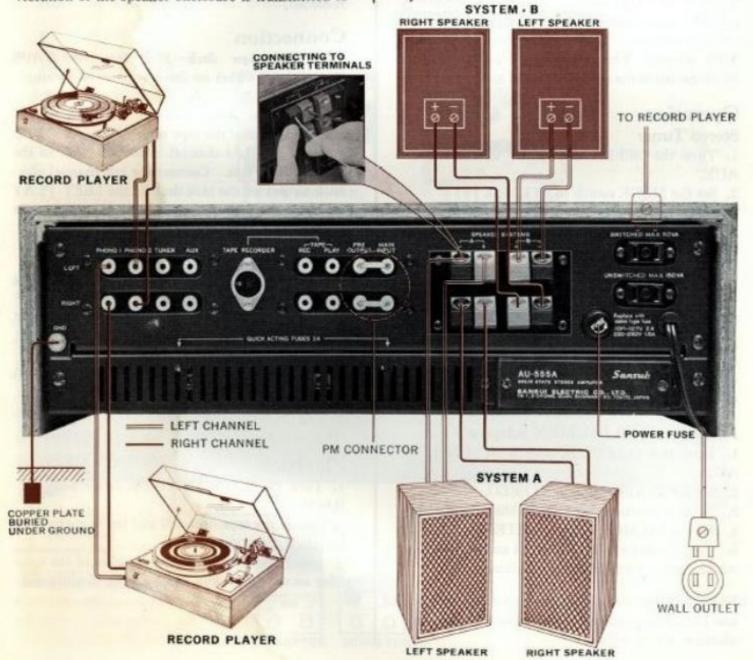
- Turn the SELECTOR switch to PHONO 1 or PHONO 2, depending on the turntable you wish to hear.
- Set the MODE switch to STEREO If a monophonic turntable is used, set the MODE switch to MONO.
- Switch the turntable ON, and select the correct speed for the record to be the played.
- Place the needle on the record. When monophonic records are played on a stereo player, follow the same procedures as for stereophonic records for better results.

- Adjust the BALANCE control to obtain equal sound from both right and left channels.
- Use all other controls and switches according to personal taste and listening conditions.

Humming and Howling

Care must be taken never to place a record player on or too near a speaker enclosure. Otherwise the vibration of the speaker enclosure is transmitted to the player and causes howling. It is best to keep these components completely separated, but if this is impossible, to place a thick cushion between them.

Humming is a phenomenon caused by incomplete or incorrect player-amplifier connections, if this occurs, check to make sure that all connections are complete and that the connecting wire is sufficiently thick.



OPERATIONS RADIO RECEPTIONS TAPE PLAYING

RADIO RECEPTIONS

Tuner Connections

- a. Stereo Tuner—Connect the left channel output of a stereo tuner to the left channel TUNER or AUX input, and the right channel output to the right channel TUNER or AUX input.
- b. Monophonic Tuner—Connect the output of a monophonic tuner to either right or left channel TUNER (or AUX) input.
- c. FM Tuner with FM-MPX Adaptor—Connect the output of an FM tuner to the input of an FM-MPX adaptor. The outputs of the adaptor should be connected in the same manner as a stereo tuner.

Operation

Stereo Tuner

- Turn the SELECTOR switch to TUNER or AUX.
- 2. Set the MODE switch to STEREO.
- 3. Select the station desired with the tuning dial.
- Use all other controls and switches according to taste and listening conditions.

Monophonic Tuner

- Turn the SELECTOR switch to TUNER or AUX.
- 2. Set the MODE switch to MONO.
- 3. Select the station desired with the tuning dial.
- Use all other controls and switches according to taste and listening conditions.

FM Tuner with FM-MPX adaptor

- Turn the SELECTOR switch to TUNER or AUX.
- 2. Set the MODE switch to STEREO.
- 3. Select the station desired with the tuning dial.
- 4. Set the FM-MPX adaptor to STEREO.
- Use all other amplifier controls and switches according to taste and listening conditions.

NOTE: Before connecting and operating the tuner and FM-MPX adaptor, be sure to look up the manufacturer's information.

TAPE PLAYING

Tape Decks

Both DIN plug and pin jack tape decks can be connected to record from, and playback through, the amplifier. When a 3-head tape deck with separate recording and playback heads is used, the quality of tape recordings made from the amplifier can be compared with the source material while it is being recorded.

Connection

DIN plug tape deck—Plug into the TAPE RECORDER socket on the rear panel of the amplifier.

Pin-jack tape deck—Connect the left channel recording input of the tape deck to the LEFT REC jack and the right channel recording input to the RIGHT REC jack. Connect the left channel playback output of the tape deck to the LEFT PLAY jack and the right channel playback output to the RIGHT PLAY jack.

Recording

- Turn the SELECTOR switch to the program source to be recorded.
- If a stereo tape deck is used, set the MODE switch to STEREO. If a mono tape recorder is used, set the MODE switch to MONO.
- Switch the tape deck ON and set its controls for recording operation.
- Use all other controls and switches as appropriate.

Playback

- Turn the TAPE MONITOR switch to PLAY-BACK.
- Switch the tape deck ON and set its controls for playback operation.
- Use all other controls and switches of the amplifier according to taste and listening conditions.

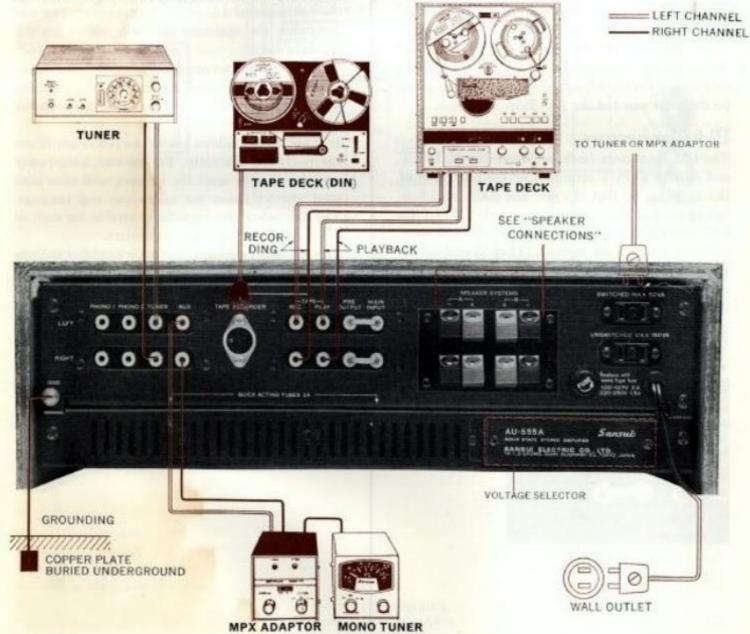
Monitoring

To monitor, proceed in the same manner as indicated in th section entitled 'Playback'.

NOTE:

- Tape recorded sound cannot be controlled by the switches and controls on the front panel of the amplifier. They control sound from the speakers only.
- 2. When the TAPE MONITOR switch is not in

- use, make sure the switch is in the SOURCE posi-
- Tape decks referred to in this section include only those with built-in playback preamplifiers.
- Tape monitoring is possible only with 3-head tape decks i.e., those with separate playback and recording heads.



ELECTRONIC CROSSOVER SYSTEM

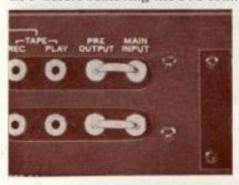
Pre-and Main Amplifiers

The AU-555A's pre- and main amplifier sections can be used independently. To use in this manner, remove the PM connectors from the jacks marked PRE OUTPUT and MAIN INPUT on the rear of the amplifier. An additional main amplifier can then be connected to the PRE OUTPUT and an additional pre-amplifier to the MAIN INPUT. When the additional pre-amplifier is connected, only the SPEAKER switches is usable on the front panel of the AU-555A. Thus, tone and volume should be adjusted by means of corresponding controls on the additional pre-amplifier. When an additional main amplifier is connected, all the controls and switches on the front panel of the AU-555A are usable.

PM Connectors

The PM connectors hook up the PRE OUTPUT and MAIN INPUT terminals on the rear panel of the amplifier so that the pre- and main amplifiers can be used individually and separately. When the PM connectors are removed, the pre- and main amplifier circuits are opened. They should not be removed except when connecting additional pre- and/or main amplifiers for an electronic crossover system. Refer to the section titled PRE-AND MAIN AMPLIFIERS.

Warning: Be sure to push the POWER switch OFF before removing the PM connectors.

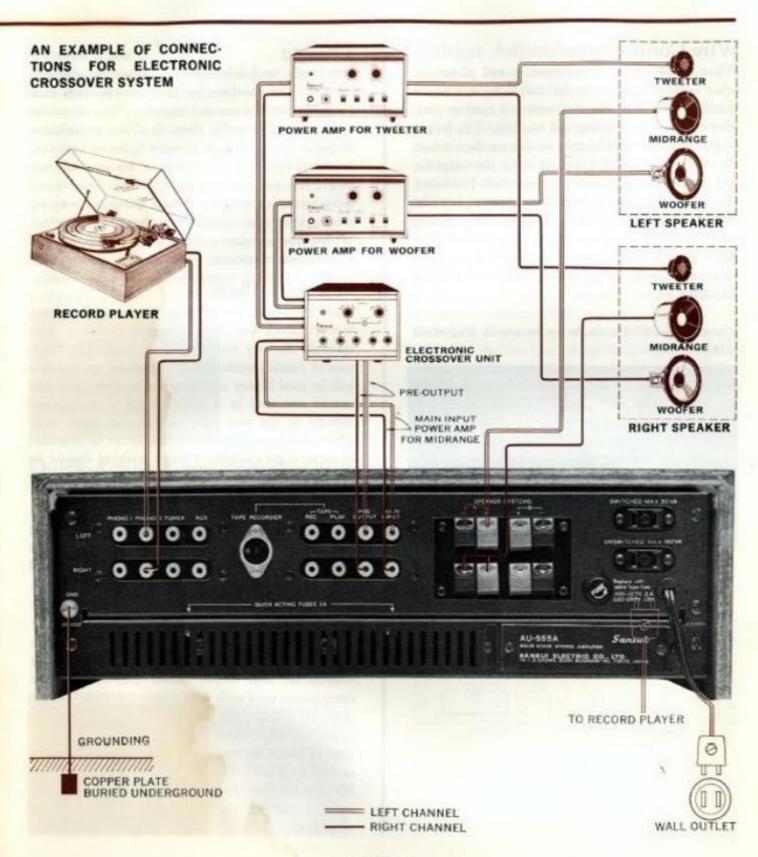


Electronic Crossover System

The electronic crossover system is said to be the best hi-fi sound reproduction method available, featuring the following advantages:

- Since the tweeters, midranges and woofers have their own amplifier, any speakers of different impedance and efficiency can be used for stereo arrangement.
- This system has better filter characteristics than the conventional LC crossover network. You can determine the optimum crossover points for the speakers used.
- Since there is no component between the amplifier fier and speaker, the damping factor of the amplifier is not affected and it is directly coupled to the speaker.
- 4. This system allows use of the power amplifiers effectively and efficiently. For instance, a big-power amplifier can be used for woofers, and ones with good characteristics for midranges and tweeters. You can select the amplifiers suitable for each of the woofers, midranges and tweeters.

The AU-555A's preamp and main amplifier sections can be used separately by simply removing a pair of connectors from the PRE OUTPUT and MAIN INPUT jacks on the rear panel. This feature enables you to use the AU-555A as a component of an Electronic Crossover System.

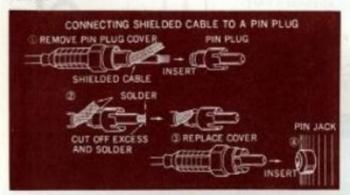


MAINTENANCE

Wire Connections

When connecting tape machines, record players or other components to the AU-555A, be sure to use shielded wire. The use of an ordinary cord or vinyl wire may cause humming and buzzing. The length of the shielded wire should be shorter than 5 feet. Be sure that all lead wires between the amplifier and components are properly connected. If the connections are loose or in touch with other parts, the amplifier will not function properly, may pickup noise, and even breakdown over a period of time. Also, be sure to read the manufacturer's instructions for any component before connecting it to the AU-555A.

The shielded wire is made up for use as illustrated below:



Phasing

The right and left speakers must be properly phased. The speakers for the two channels must push the sound wave out together. If one pushes while the other pulls, there is sound cancellation at some frequencies or in some listening locations. Incorrect phasing is evidenced by loss of bass when you are listening to a monophonic record on a stereo record player at a point midway between the two speaker systems. If incorrect, reverse the speaker connections (+ and -) of either speaker system.

Where to Place

Since transistors are extremely susceptible to heat, the AU-555A has been designed to diffuse heat through the top and rear of its case. Therefore, special consideration should be given to where it will be used before installing the system. It should not be operated in a place where it is exposed directly to the sun, near radiators or other heat-generating sources, and it should never be mounted in an air-tight cabinet. Finally nothing should be placed on top of it.

Grounding

Connect one end of vinyl or enameled wire to the terminal screw marked GND on the rear of the amplifier, attach a copper plate to the other end, and bury it underground.

AC Outlets

Two AC outlets have been provided on the rear panel of the amplifier to serve as power supply sources for tape decks, record players or other

components used with the AU-555A. The upper outlet marked SWITCHED is controlled by the POW-ER switch on the front panel of the amplifier.



Power Fuse

Should the amplifier fail to operate and the power indicator fail to light up when the POWER switch is turned on, the probable cause is either a power stoppage or a blown fuse. To check, remove the AU-555A's power supply cord from its outlet, turn the fuse holder on the rear panel counterclockwise, and remove the fuse. If it is blown, replace it with a new glass-tubed fuse of the same capacity (100~127V-2A, 220~250V-1.5A) after determining and eliminating the trouble source that caused the fuse to blow. Using wire or a fuse of a different capacity as a stop-gap measure is dangerous and should be avoided.



Quick-Acting Fuses

If, after the POWER switch is pushed on and the power indicator lights up, neither channel operates or only one operates normally, is either because one or both quick-acting fuses have blown. In this case, remove the line cord from its a.c. outlet and remove the bottom plate from the chassis to check to see if the fuses are blown. If the fuses are faulty, replace them with identical 2A fuses (supplied) after finding and eliminating the source of trouble that caused them to blow. The trouble is probably by short at the output circuit or excessive input fed into the input circuit.



Poltage Adjustment

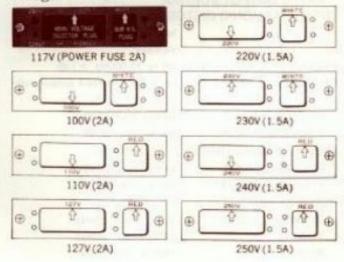
To reach the voltage selector, remove the two screws from the nameplate on the rear panel and then remove the nameplate. The voltage selector makes it possible to operate the AU-555A at the correct voltage in any area. The voltage has been pre-adjusted at the factory, but can by easily readjusted as follows:

STEP I Set arrow of main voltage selector plug to required voltage: 100, 110, 117, 127, 220, 230, 240 or 250 volts.

STEP II If numerals of voltage are printed in red, set arrow of adjacent sub V.S. plug to position marked red. If they are printed in white, set arrow to position marked white.

STEP III The power fuse should also be changed whenever the AC line voltage is changed. For 100-127 volt operation a 2 ampere fuse is required. For 220-250 volt operation the fuse should be changed to a 1.5 ampere unit.

NOTE: The voltage selector can be used to eliminate the trouble caused by the considerable voltage fluctuation. In this case, it should be set to the peak voltage.



SPECIFICATIONS / ACCESSORIES

POWER AMPLIFIER SECTION POWER OUTPUT: MUSIC POWER (IHF): 85W at 4 ohms load 60W at 8 ohms load CONTINUOUS POWER: 33/33W at 4 ohms load 25/25W at 8 ohms load TOTAL HARMONIC DISTORTION: less than 0.5% at rated output INTERMODULATION DISTORTION: (60Hz: 7,000Hz = 4:1 SMPTE method) less than 0.5% at rated output POWER BANDWIDTH (IHF): 20 to 40,000Hz FREQUENCY RESPONSE: (at normal listening level) 20 to 40,000Hz ±1dB CHANNEL SEPARATION: (at 1,000Hz rated output) better than 60dB HUM and NOISE (IHF); better than 100dB INPUT SENSITIVITY: 1V for rated output INPUT IMPEDANCE: 100k ohms LOAD IMPEDANCE: 4 to 16 ohms DAMPING FACTOR: 50 at 8 ohms load PRE-AMPLIFIER SECTION OUTPUT VOLTAGE MAXIMUM OUTPUT VOLTAGE: 5V RATED OUTPUT VOLTAGE: TOTAL HARMONIC DISTORTION: less than 0.1% at rated output voltage FREQUENCY RESPONSE: 20 to 30,000Hz ± 1dB CHANNEL SEPARATION: (at 1,000Hz rated output volt-PHONO-1 and 2: better than 45dB TUNER and AUX: better than 50dB HUM and NOISE (IHF): PHONO-1 and 2: better than 70dB better than 80dB TUNER and AUX: INPUT SENSITIVITY: 2mV (50k ohms) PHONO-1 and 2: 180mV (50k ohms) TUNER: 180mV (50k ohms) AUX: 180mV (50k ohms) TAPE PLAY (pin): TAPE RECORDER (DIN): 180mV (50k ohms) (at 1,000Hz rated input volt-RECORDING OUTPUT:

age) 180mV

TAPE REC (pin):

TAPE RECORDER (DIN): 30mV

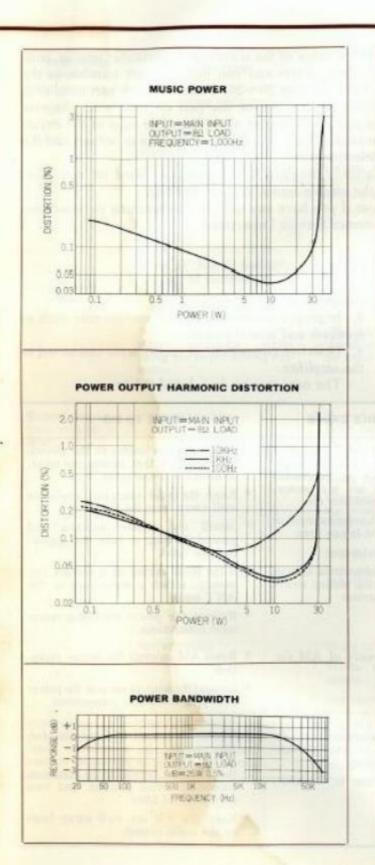
EQUALIZER:	
PHONO:	RIAA NF type
CONTROLS:	
BASS:	+12dB~-12dB at 30Hz
MIDRANGE:	+ 5dB~- 5dB at 1,500Hz
TREBLE:	+10dB~-10dB at 15,000Hz
LOUDNESS:	+8dB at 50Hz,
	+3dB at 10,000Hz
	(volume control at -30dB)
SWITCHES:	
LOW FILTER:	-8dB at 50Hz
HIGH FILTER:	-7d8 at 10,000Hz
MODE:	STEREO, MONO
TAPE MONITOR:	SOURCE, PLAYBACK
SELECTOR:	PHONO-2, PHONO-1, TUNER,
	AUX
SPEAKER:	A, B
	ON, OFF
SEMICONDUCTORS:	
TRANSISTORS:	23
DIODES:	2
POWER REQUIREMENT	rs:
POWER VOLTAGE:	100, 110, 117, 127, 220, 230
	240, 250V 50/60Hz
POWER CONSUMPTI	ON:
	130VA (max. signal)
DIMENSIONS:	15%"(395mm)W,5"(127mm)H,
	10%"(278mm)D
WEIGHT:	17.6 lbs. (8kg)

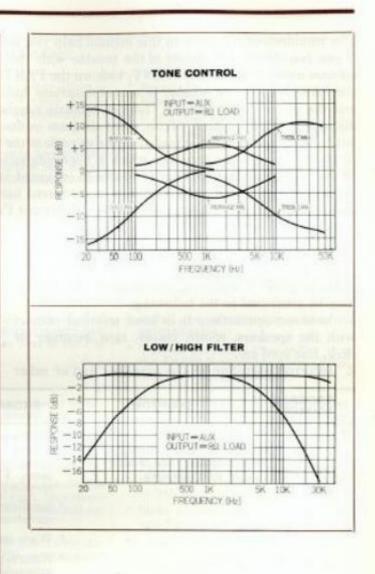
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ACCESSORIES LIST

1.	OPERATING INSTRUCTIONS AND	
	SERVICE MANUAL	1
2.	OPERATING SHEET	1
	PIN-PLUGS	
	BUTTERFLY BOLTS	
5.	WASHERS	2
	POLISHING CLOTH	
	QUICK ACTING FUSES (2A)	

CHARACTERISTICS





TROUBLESHOOTING CHART

The troubleshooting charts in this manual help you isolate the cause of the trouble to a particular unit or part. If you can identify the nature of the trouble with that in these charts and can find the part number in the column under the CHECK POINT, look up the PARTS LIST on page 20~26. Following each part number in the PARTS LIST are number-letter combinations indicating the position of the part on the circuit diagram and the printed circuit sheet. These co-ordinate numbers and letters appear along the outer edge of the circuit diagram and the printed circuit sheet diagram in this manual. The numbers run from top to bottom and the letters from left to right. Finally, repair or replace the defective part.

In some instances, the amplifier which is operating satisfactorily develops hum or noise as listed on this page. In this case, eliminate the trouble source as indicated in the column under WHAT TO DO.

If you are confronted with a trouble not covered here or if you have any questions concerning the operation and maintenance of this amplifier, please contact our Customer Service Department.

If the amplifier is operating satisfactorily, the trouble may be attributed to the following:

- Incorrect connections to or loose terminal contact with the speakers, record player, tape recorder or deck, line cord etc.
- 2. Incorrect operation of the amplifier and/or other

components.

- Improper positioning of the components such as speakers and record player.
- Defective component or copomnents connected to the amplifier.

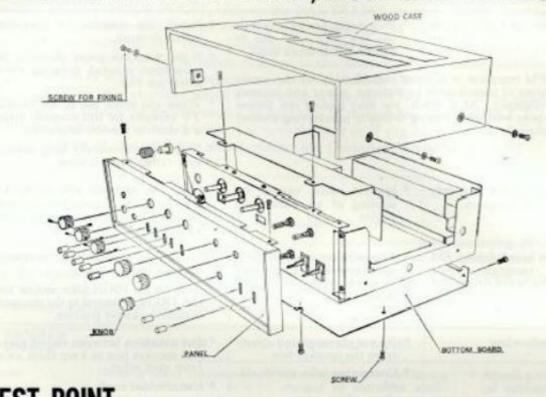
The next step to do is listed below:

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
Tuner	Noise is heard continuous- ly or intermittently at a particular time of a day or in a certain area.	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, a.c. motor, rectifier, oscillator etc. * Insufficient antenna input or reception in fringe area * Wave interference * Natural phenomena, such as atmospherics, statics, strays and thunderbolt	* Attach a noise limiter to the electrical appliance that causes the noise or attach it to the tuner. * Keep the said electrical appliance well away from the tuner. * Install an outdoor antenna and ground the amp to raise the signal to-noise ratio. * If the noise occurs at a certain frequency, attach a wave trap to the ANT input. * Reverse the power cord plug-receptacle connections.
	During AM reception, noise is heard at a partic- ular time of a day, in a certain area or over part of dial.	* Field intensity of AM sig- nals	Reset AM antenna for better reception Ground the amp, or reverse the power cord plug-receptacle connections.
	High-frequency noise is heard during AM reception.	* Beat interference, i.e., in- teraction of two stations closely spaced * TV set close to the audio system	* The noise caused by beat interfer ence cannot be completely eliminated. But it is advisable to turn the TREBLE control to the minimum counterclockwise position and turn on the HIGH filter. * Keep the TV set well away from on the audio system.

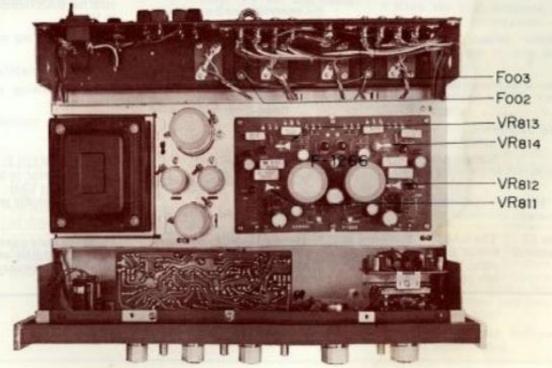
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
ADJES HAT	Noise during FM reception	* Poor noise limiter effect or too low S/N ratio due to insufficient antenna input	* Install the antenna for maximum signal strength. * If this does not prove effective, use
	Note: FM reception is affected considerably by the condi- tions of transmission by stations: power and antenna efficiency. As a result, you may receive one station quite well while having difficulty in receiving another station.		an outdoor antenna designed exclusively for FM. * When you make use of an existing TV antenna for this purpose, attach a divider to prevent interaction. * Note that excessively long antenna may rather cause a noise.
	Noise is heard suddenly during FM reception.	* Ignition noise caused by starting of an automobile engine	* Keep the antenna and its lead-in wire well away from the road side. Or raise the antenna input as de- scribed above.
	Noise is heard during FM stereo reception while being not heard during FM mono.	* The service area of FM stereo broadcast is only half as much as that of the FM mono.	* Install the antenna for maximum antenna input. * Turn on the HIGH filter and/or turn the TREBLE control to the minimum counterclockwise position.
Record player, tape recorder or deck	Hum or howling	* Record player placed directly on the speaker box * Connecting wire not shielded * Loose terminal contact * Connecting cord too close to the power cord, fluorescent lamp or other electrical appliances * Nearby amateur radio station or TV transmission antenna	* Put a cushion between record player and speaker box or keep them away from each other. * Use shielded cord. * Switch on the LOW filter and/or turn the BASS control from midpoint to left. * Make connecting cord as short as possible. * Connect cord tightly at terminals. * Keep connecting cord well away from them. * Consult the nearest Radio Regulatory Bureau.
	Surface noise	* Worn or old record * Worn or dusty pickup needle. * Improper needle pressure	* Turn the TREBLE control properly from mid-point to left and/or switch on the HIGH filter. Adjust the needle pressure.
Common to all program sources	The BALANCE control is not at the midpoint when equal sound comes from left and right channel.	* The BALANCE control is not always set to the mid- point depending the source materials.	* Proper balance exists when the sound seem to originate at a point midway between the speakers.

DISASSEMBLY PROCEDURE TEST POINT

REMOVING THE FRONT PANEL, WOOD CASE AND BOTTOM PLATE



TEST POINT



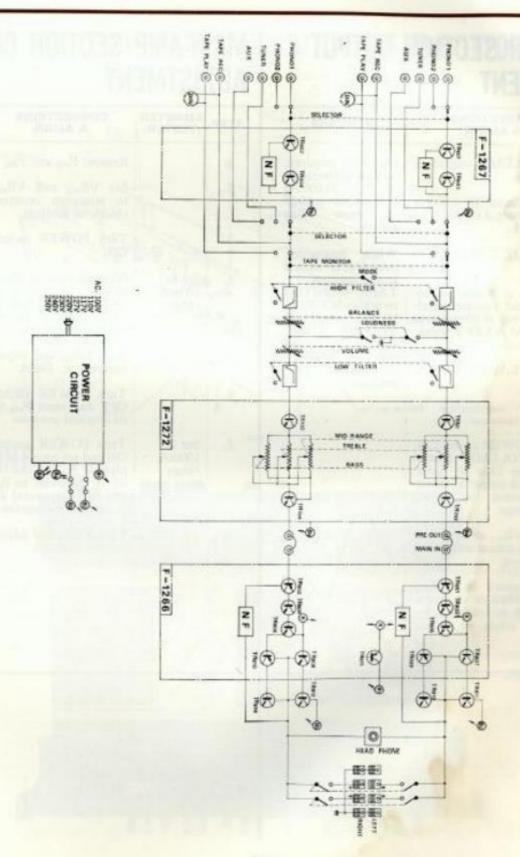
MAIN-AMP SECTION OUTPUT ADJUSTMENT

STEP	CONNECTIONS & ALIGIN	REMARKS
1.	Set VOLUME control to minimum.	Oscillator required: oscillation frequency of 20 to 20,000 Hz
2.	Set oscillator to 1,000Hz and connect it to AUX of channel L.	and output voltage of more than 200mV.
3.	Set SELECTOR switch to AUX	When measuring, BALANCE control to mid-position,
4.	Connect a 8-ohm (or 16-ohm) load resistor (minimum rating of 50 watts) to SYSTEM A LEFT speaker terminal.	TAPE MONITOR switch to SOURCF, MODE switch to STEREO, TONE, controls to 0 and
5.	Turn SPEAKER A switch ON.	other accessory switches to OFF position.
6.	Connect oscilloscope to speaker terminal.	
7.	Turn POWER switch ON; turn VOLUME control clockwise little by little; and check output at speak- er terminal by using oscilloscope.	0
8.	Adjust VR ₈₁₁ so that both crests of output wave form are clipped.	//
	For channel R, follow same procedure as above. In Step 8, adjust VR _{NIZ} for clipped crests of output wave.	

MAIN-AMP SECTION CURRENT ADJUSTMENT

AMMETER (TESTER)	CONNECTIONS & ALIGN	REMARKS
	Remove For and Fors	Ammeter
	Set VR ₈₁₃ and VR ₈₁₄ to minimum counter- clockwise position.	required: 100mA or 50mA range
	Turn POWER switch ON.	
Set to 100mA range.	Set ammeter in place of F_{602} . Connect its \oplus terminal to B_1 , and its \ominus terminal to B_2 in schematic diagram.	Be sure to turn POWER switch on and then
	Turn VR ₈₁₈ and adjust current to 20mA	meter.
	Turn POWER switch OFF and reset F ₀₀₂ to its original position.	
Set to 100mA range.	Turn POWER switch ON and set ammeter in place of F_{900} . Connect its \bigoplus terminal to B_1 , and its \bigoplus terminal B_2 in schematic diagram.	
	Turn VR ₈₁₄ and adjust current to 20mA	
	Set to 100mA range.	Remove Form and Form Set VR 113 and VR 114 to minimum counter- clockwise position. Turn POWER switch ON. Set to 100mA range. Set ammeter in place of Form Connect its ⊕ terminal to B₁, and its ⊕ terminal to B₂ in schematic diagram. Turn VR 118 and adjust current to 20mA Turn POWER switch OFF and reset Form to its original position. Set to 100mA range. Turn POWER switch ON and set ammeter in place of Form Connect its ⊕ terminal to B₁, and its ⊕ terminal to B₁.

BLOCK DIAGRAM



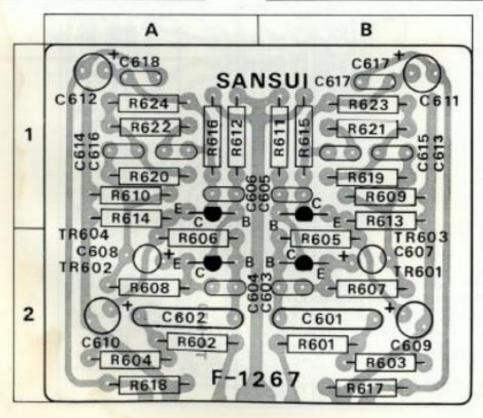
PRINTED CIRCUIT BOARDS AND PARTS LIST

X: Parts No. Y: Parts Name Z: Position of Parts

EQUALIZER (F-1)	267	>
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X		Y	Z	
Reas	2.2\Ω	North Inches	28	
R602	2.2kΩ	THE RESERVE THE PARTY OF THE PA	2 A	
Reas	56kΩ		28	
R604	56kΩ	100	2 A	
Re05	390kΩ		28	
Re06	390↓Ω		2 A	
Rest	3.9₺Ω	1.000	28	
Reas	3.9kΩ		2A	
R609	330Ω		18	
R410	330Ω	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.4	
R611	180kΩ		18	
R612	180μΩ	±10% ¼W Carbon Resistor	1.6	
R612	820Ω	± 10/6 /2 W Carbon Kesistor	I B	
R614	820Ω		1.4	
R615	6.8kΩ		1.8	
Rate.	6.81Ω		LA	
R417	824 N		2 B	
Rete	82±Ω		2 A	
Ra19	3301Ω		18	
Re20	330₹₺		1 A	
Re21	1.5kΩ		18	
Re22	1.5\Ω	E AN E ANY SE	IA	
Re23	221Ω	1000000	18	
R424	22kΩ /		1.4	

X		Y		Z
C601	0.33nF]	W FR 1401		28
C602	0.33#F ± 10	P 20 MA	Mylar Capacitor	2 A
C603	68 pF)			28
C604	68 pF			2 A
Cett	68 pF = 10	% 25 WV	Capacitor	18
C606	68 pF)		Copacitor	1 A
C607	3.3 _{fl} f	25 WY)	i l	28
Cace	3.3 _m F	25 WY		2 A
Cetr	100 prF	6.3 WY	Electrolytic	28
C610	100 mF	6.3 WV	Capacitor	2A
C411	1 _M F	50 WY	23677032	1 B
C612	1,85	50 WY)	1A
C613	0.01#F)			18
C614	0.01 pF		1115/0	TA
C615	0.003#F			18
Cale	0.003/IF ± 10:	% 50 WV	Mylor Capacitor	1.4
C617	0.047 #F		11111	18
C418	0.047 ptF)		110.0	1.4
TR401	25C871R(E,F))		(000000 4 5)	28
TR402	25C871R(E,F)		(030547-4,-5)	2 A
TR603	25C871R(F)]		(000000 e)	28
TR404	25C871R(F)		(030547-5)	2 A



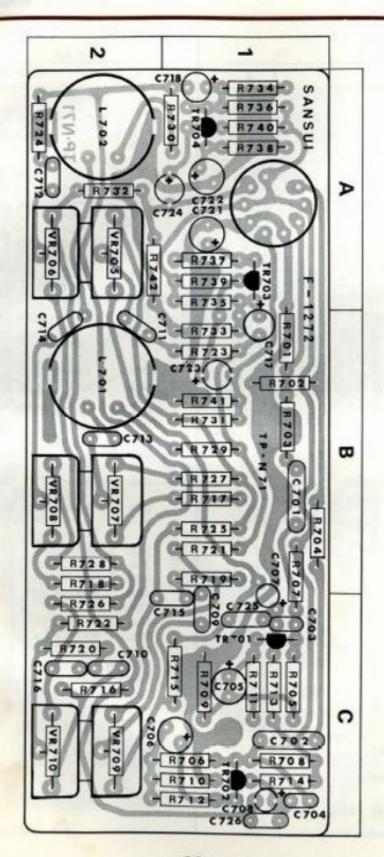
PRINTED CIRCUIT BOARDS AND PARTS LIST

X: Parts No. Y: Parts Name Z: Position of Parts

TONE CONTROL (F-1272)

x	Y	
R201	330kΩ)	18
R702	330kΩ	1 B
R703	2.2kΩ	18
R704	2.2kΩ	18
R705	82kΩ	10
R704	82kΩ	10
R267	560kΩ	18
R208	560kΩ	10
R709	560Ω	10
R710	560Ω	10
R711	1kΩ	10
R712	īkΩ	10
R713	4.7kΩ	10
R714	4.7kΩ	10
R715	10kΩ	10
R716	10kΩ	1 C
R217	10kΩ	28
R718	10kΩ	18
R719	2.7kΩ	28
R/20	2.7kΩ	10
R721	22λΩ	28
R722	224Ω > ±10% ¼W Carbon Resistor	10
R723	5.64Ω	28
R724	5.6kΩ	2 A
R725	101Ω	18
R726	10kΩ	2C
R727	104Ω	18
R728	10kΩ	2 B
R729	10kΩ	18
R730	10kΩ	1.4
R731	2.2kΩ	28
R732	2.2kΩ	2A
R793	100%Ω	18
R734	100⊱Ω	14
R735	270kΩ	1.4
R736	270ὲΩ	14
R737	3.3kΩ	1.4
R738	3.3₺Ω	IA
R739	5.6kΩ	14
R740	5.6kΩ	14
R741	82kΩ	18
R742	82kΩ)	24
VR705,706	100kΩ(8)×2 Treble Control (101052)	2A, 28
VR707,708	100kΩ(8)×2 Midrange Control (101052)	28,28
VR709,710	100k $\Omega(\theta) \times 2$ Bass Control (101052)	20.20
C701	0.22 pf	18
Crez	0.22 pr 10% 50 WV Mylar Capacitor	10
Cros	10pf \ ±10% 25 WV Ceromic	10
C704	10 pF Copacitor	10

X		Y	Z
C705	47 pF	6.3 WV)	10
C706	47 µF	6.3 WV	10
C707	10 pF RN	25 WV Electrolytic	18.0
C708	10,0F RN	25 WV) Capacitor	10
C709	0.033jif)	50 MW M	10
C710	0.033/IF \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	50 WV Myler Capacitor	2C
C711	0.002µF)		28
C712	0.002 pF		2 A
C713	0.008pF	50 WV Myler Capacitor	28
C714	0.008µF = 10%	30 VVV Mylar Capacitor	28
C715	0.033 <i>µ</i> F	Date: 4	1.2C
C716	0.033jrF)	AND CONTROL OF THE PARTY OF THE	2 C
C717	1 pF RN	50 WV)	18
C716	1µF RN	50 WV	LA
C721	47 pF	10 WV Electrolytic	IA
C722	47 µF	10 WV Capacitor	14
C723	10 µF RN	25 WV	18
C724	10 pF RN	25 WV)	1.4
C725	0.047 pF + 10%	50 WV Myler Capacitor	10
C726	0.047 με } = 10/6	30 WY Mylor Capacitor	15
TR201	25C871R(E,F)]	(030547-4,-5)	10
TR702	25C871R(E,F)	(030347-4,-3)	10
TRzas	25C871R(E.F) }	(030547-4,-5)	14
TR704	25C871R(E,F) \$	(00001174,-0)	14
L701	0.8H) Choke Coil	(401003)	28
L702	0.8H Choke Coll	(401003)	2A



PRINTED CIRCUIT BOARDS AND PARTS LIST

Z

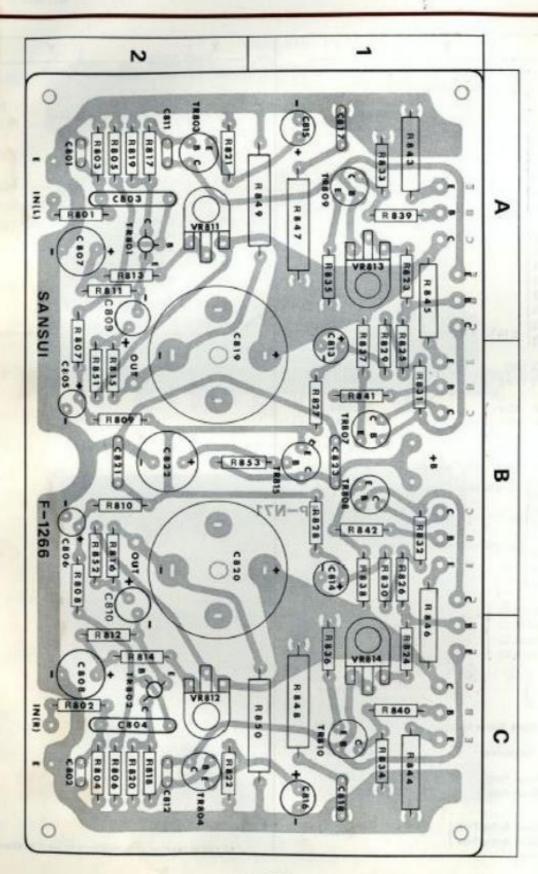
X: Parts No. Y: Parts Name Z: Position of Parts

Raos	10kΩ		2 A
R802	104Ω	1.50	2C
Recs	470kΩ	196.00	2A
R804	470kΩ	120	2C
Reas	150kΩ	9.0	2A
Re06	150λΩ		20
R807	560kΩ	-Z J.CS	2A. B
Rece	- 560kΩ	111/100	28
R809	560↓Ω	11/10/	28
R810	560kΩ	111379	28
Ratt	150Ω	1/129	2A
R812	150Ω		2C
R813	4.71Ω	1 100,79	2A
R814	4.7ξΩ	1 1 1 1 1 1 1 1	2C
Rais	5.6kΩ	3	28
R816	5.6% 1		28
R817	ıŧΩ		2A
Resa	NΩ		2C
R519	1λΩ	55	2 A
Re20	11: 1		2C
Regi	220 €	±10% ¼W Carbon Resistor	2 A
R822	220Ω		2C
100000	-531963		1.4

MAIN AMP (F-1266)

X

X	Y		Z	
VR811	20kΩ(8))	AC Below	Adjustment (103046-2)	2 A
VR512	20kΩ(8)∫	AC balance	Adjustment (103046-2)	2 C
VR513	$lk\Omega(8)$	DC 8-1	Adi	IA
VR514	tkΩ(8)∫	DC Balance Adjustment (103059)		10
C801	47p#)	±10% 25%	VV Ceramic	2 A
C802	47 pf)		Capacitor	2 C
Ce03	0.47 pf	+10% 500	VV Mylar Capacitor	2 A
C804	0.47 pg }	T 10/6 301	TT Mylar Capacitor	2C
C805	1 [15]	50V	(V)	28
C806	1 /15	50.		28
C807	470 pt)	144	VV Electrolytic	2 A
Caos	470 pf	101	Capacitor	2 C
C809	47 pf	257	VV.	2 A
Caro	47 pf	234	"")	28. C
Catt	47pf)	±10% 25V	VV Ceromic	2 A
C812	47 pF)		Capacitor	2 C
Cara	47 pf)	50V	or 3	1A. B
C814	47 pf	30 4	Electrolytic	1.8
Cass	220 pf)	6.3V	Capacitor	1.4
C816	220 ptf)	0.34	(*)	10
C817	0.1 /#]	+109 600	VV Mylar Capacitor	1.A
Casa	0.1 (1)	± 10% 204	ev mylar Capacitor	10
C819	1500pf	63V	VV Electrolytic Capa-	1.2A
C820	1500 pf J		citor (020537)	1,28
Cast	0.01 per	±10% 250V	VV Ceramic Capacitor	28
C822	220 pri	75V	VV Electrolytic Capacitor	28
C823	0.01 _{ft} F	±10% 250V	VV Ceramic Capacitor	18
TRan	XA495G (8,C))		2 A
TReco	XA495G (95025	(030017-1, -2)	2C
TReco	8002-1 (A	, B, C))	(000EEE 2 0)	2 A
TR804	8002-1 (A	20000000000000000000000000000000000000	(030555, -1, -2)	2 C
TR905	25C281 (33222017/ 2/	(0000000000	1.4
TRans	25C281 ((030512-1)	18.0
TRace	8002-1 (A		(18
TRace	8002-1 (A	CONTRACTOR OF THE PROPERTY OF	(030555, -1, -2)	18
TRace	9002-1 (A		(******	14
TRaig	9002-1 (A		(030014, -1, -2)	10
TRais	25C627 (2		(030558-1,-2)	18



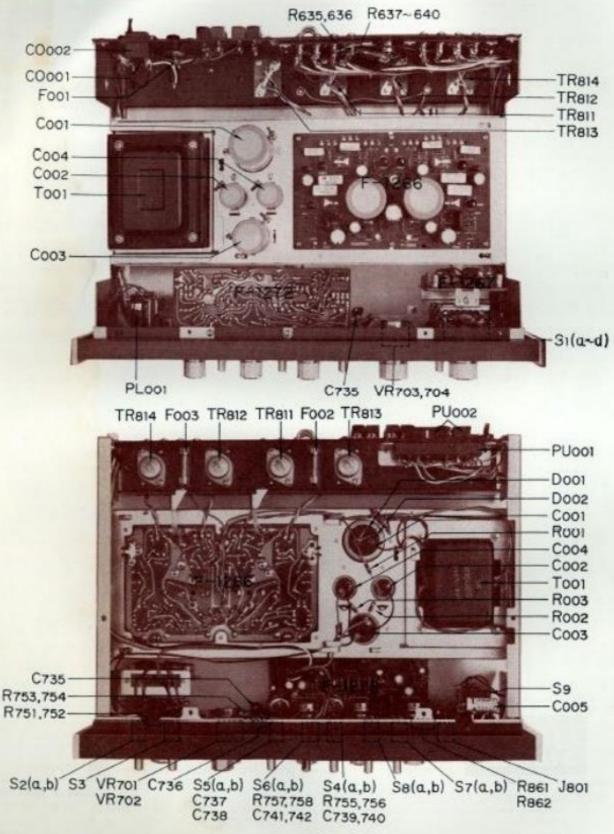
OTHER PARTS AND THEIR POSITION ON CHASSIS

X: Parts No. Y: Parts Name

X		Y
Roes	1.2kΩ]	
Rogg		% 36W Solid Resistor
Roos	11.0	A NEW ANNIA MENTION
R635	470kΩ)	
R436	470λΩ	
R637	1804Ω	
R438	180εΩ	
R439	1004Ω	
R640	100ξΩ	
R751	10kΩ	
R752	10kΩ ±10;	% ¾W Carbon Resistor
R753	27kΩ	
R754	27λΩ	
R755	820kΩ	
R756	820kΩ	
R752	820kΩ	
R758	820kΩ	
1	THE PARTY OF THE P	
R861 R862	470Ω ±105	6 2W Metal Film Resistor
VR701, 702	250kΩ (8H)	(101050-1)
VR700, 704	250k\$1 (B)X2	(101009-1,-2)
Coor	2200 pt 63WV	(020519-1)
C002	470 pF 50 WV	Electrolytic (020525)
C003	1000 MF 50 WV	Capacitor (020539)
C004	470 pF 50 WV	(020525)
Coos	0.033pf 600W	V Oil Capacitor
C735	150pF) +10	% Mica Capacitor
C734	150pf)	mica Capacitor
C737	0.05 let	
C738	0.02 _{ft} F	
C739	0.01 pr + 10.5	% 50WV Mylar Capacitor
C740	0.01 mf	s suver mylar Capacilor
C741	0.0033;rF	
C742	0.0033 _{ft} F)	
TRan	25C1030 (8, C)	
TR812	25C1030 (8, C)	(030563-1, -2)
TRais	25C1030 (8, C)	
TRan4	25C1030 (8, C)	
Door	100-1)	
D002	100-1	(031034)
PLoon	6.3V 250mA Por	wer Indicator (040009)
Tool	Power Transform	er 400-5394 (400064)
Foot	2A Power Fuse	(100~127V) (043003-1)
7001	1.5A Power Fuse	
F002	2A Quick Acti	ng Fuse)
Foos	2A Quick Acti	10430741

X	Y		
Je01	5-Pin Connector (DIN)	(243004	
Jeon	Headphones Jack	(243007-1	
PUtot	Voltage Selector Socker	(241017	
PU002	Voltage Selector Plug	(241018	
		(241019)	
Sı .	Selector Switch Y-2-4-4	(110217	
S2	Tope Monitor Switch		
\$3	Made Switch		
S4.	Low Filter Switch	(117017)	
\$5	Loudness Switch		
S6	High Filter Switch		
57	A Speaker Switch	(117018)	
S8	B Speaker Switch	(11/016)	
S9	Power Switch	(113016	
COtte	AC Consent	(245001)	
COtto	AC Consent	(245001	

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MINERAL OF OU 0 · 0 right to change design andors specific purpose uthins supersect. F-1267 SYMACE CIGHTCA 100 28C8718 **SANSUI AU-555A** 2SC871R | 1 | 1 SCHEMATIC DIAGRAM 800 - 50V • TRNS S' in -q. SELECTOR SW L PHONG 2 E PHONG 7 E PHONG 7 E PHONG 7 E PLAY ENCY L SOURCE L SOURCE L SOURCE L PLAY ENCY L STREET SW PHONG SW L STREET E PLAY ENCY L STREET SW PHONG SW L STREET E PLAY ENCY L STREET E PLAY ENCY L SW PHONG SW L STREET E PLAY ENCY L SW PHONG SW L STREET E PLAY ENCY E PHONG SW L SW PHONG SW L SW PHONG SW L SW PHONG SW 25C87IR (F) F-1272 0 0 • WOLTAGE 1 1 (4) • • • • • 0 0 ADJUSTABNT NOS XA-4956 (B, C) (A) 000 3g POWERSW LOFF ZON TRANS 25C281(H) SANSUI ELECTRIC COMPANY LIMITED Reas -Wir (85/2) KBee VIII STATE OF THE PARTY 2SC1030 (B, 0)-2 0 0 \odot 0 6 8



SANSUI ELECTRIC COMPANY LIMITED

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