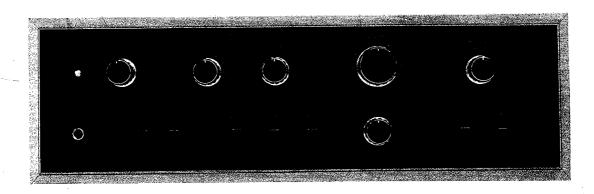
OPERATING INSTRUCTIONS & SERVICE MANUAL

AM/FM STEREO AMPLIFIER

SANSUI AU-6500



Sansui

SANSUI ELECTRIC CO., LTD.

We are grateful for your choice of the AU-6500 Integrated Amplifier.

For over a quarter of a century, Sansui has been building hi-fi audio equipment, and nothing else. Our mission is very old and at once ever new to us: to bring the reproduced sound closer and closer to the original.

The AU-6500 now in your hands is one answer from us to this never-ending quest. It is a product of the cream of sophisticated modern audio-electronics knowhow, coupled with our long experience, and as such, we present it to you with our full confidence.

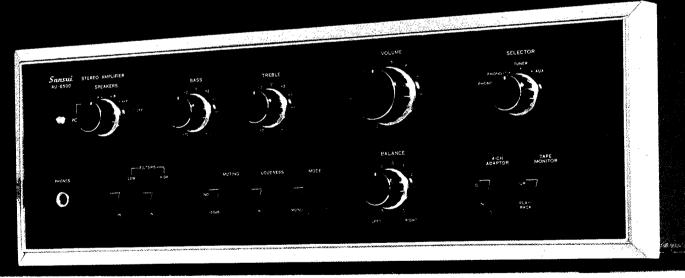
The AU-6500 is a new breed of Sansui's AU series integrated amplifiers. Its tone quality has been polished and perfected through an unprecedented number of listening tests in different acoustic environments. We feel certain that you will like it, but you will find this out as soon as you play your first record through it.

This manual has been prepared to guide you in operating and caring for the amplifier correctly, so that you will get the most out of its built-in high performance and exceptional versatility.

May we suggest that you read it once carefully?

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SWITCHES AND CONTROLS

Power Indicator -

Lights when you turn on the Power/Speakers Switch, and remains lit until you turn off the switch.

Power/Speakers Switch -

Controls both the power supply and selection of speaker systems.

POWER OFF: Cuts off power supply for the amplifier.

A: Turns on power supply and energizes the speaker systems connected to SYSTEM-A speaker terminals on the rear.

Because of the built-in amplifier/speaker protection circuit, sound will come out with a delay of a few seconds.

B: Energizes speaker systems connected to SYSTEM-B speaker terminals.

A+B: Energizes both A and B pairs of speaker systems.

SPKR OFF: Cuts off the sound from all speaker systems to permit private listening with headphones connected to the Headphone Jack.

Headphone Jack -

Plug stereo headphones into this jack for private listening or monitoring, but be sure to turn the Power/Speakers Switch to SPKR OFF first unless someone is listening to the sound from speaker systems in another room. The jack will accept any standard stereo phone plug, but for best tone quality, we recommend a dynamic type such as the Sansui SS-20 or SS-10.



Low: Push down to IN to eliminate low-frequency noise such as the rumbling of your turn-table motor. If no such noise is present, be sure to keep it off.

High: Push down to IN to eliminate high-frequency noise such as the surface noise from a worn record or as the fluorescent lamp noise mixed in radio broadcasts.

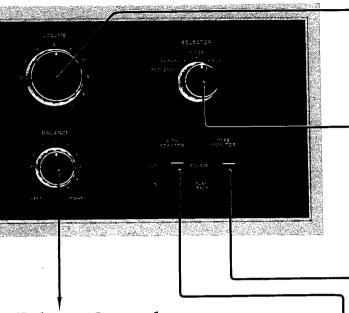
Tone Controls -

Let you tailor the tone quality of reproduced sound to your taste by adjusting the amplifier's frequency response curve. The Bass Control is for adjusting the loudness of bass notes as may be produced by a bass, and the Treble one for adjusting that of treble notes as may be produced by cymbals.

Muting Switch -

Reduces the sound volume by 20dB at once without the use of the Volume Control. Most convenient to lower the sound volume temporarily when the telephone rings, to avoid the noise of the pickup stylus descending on a record, etc.





Balance Control

Push down the Mode Switch to MONO once and adjust this control for equal sound volume from the left and right speaker systems, then return the switch to STEREO. If there is a large difference in the sound volumes from the two speaker systems even with this control set near the center, it may be because the left and right output signal levels from the program source component (turntable, tuner, tape deck, etc.) are different. Check the component once.

- Mode Switch

The STEREO position is normal. If you connect a monophonic signal to either left or right input terminal, it is heard from both speaker systems by pushing down to MONO.

- Loudness Switch

If desired, push down to IN to emphasize the highs and lows when listening at low volume levels. This is because the mechanism of human hearing is such that the high and low notes seem greatly enfeebled at low listening levels.

Volume Control

Selector Control

Turn to an appropriate position to hear the desired program source.

PHONO-2, PHONO-1: To play records on a turntable connected to the PHONO 2 or 1 terminals on the rear.

TUNER: To hear a radio broadcast from a tuner connected to the TUNER terminals on the rear.

AUX: To reproduce whatever program source is connected to the AUX terminals on the rear. (Connect a turntable with a crystal or ceramic cartridge, the audio outputs of a television, the playback outputs of a tape recorder, etc. to the AUX terminals.)

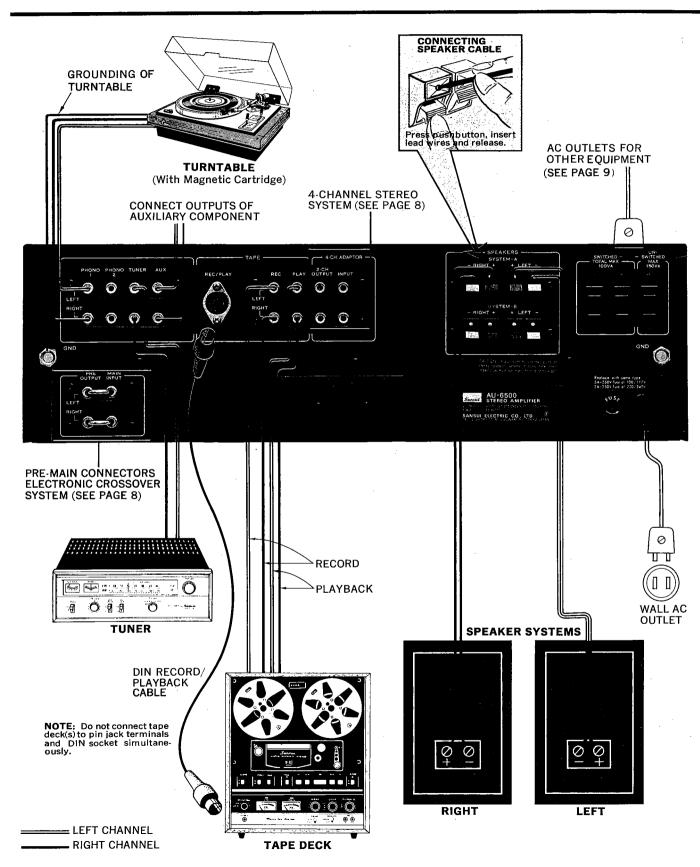
Tape Monitor Switch

Push down to PLAYBACK to reproduce a recorded tape or monitor a recording as you make it on a tape deck connected to the amplifier (monitoring is possible only if the tape deck is equipped with separate recording and playback heads). Otherwise, be sure to keep it at SOURCE.

4-Channel Adaptor Switch

If you connect a 4-channel adaptor to the AU-6500 and make other necessary connections, you can upgrade this 2-channel stereo amplifier to hear 4-channel stereo sound by pushing this switch down to IN. (refer to page 8). Otherwise, be sure to keep it off.

SETTING UP YOUR AU-6500/OPERATING PROCEDURE



Connecting Speaker Systems

If you are connecting only one pair of speaker systems to the AU-6500, they may have any impedance from 4 to 16 ohms. Connect them to the SYSTEM-A or -B terminals on the rear, making sure not to confuse the left and right cables, plus and minus leads on the amplifier and speaker ends. But if you wish to connect two pairs of speaker systems and drive them simultaneously by turning the Power/Speakers Switch to A+B, each speaker system should have impedance of 8 to 16 ohms. Using a system with lower impedance could result in a breakdown of the amplifier.

Connecting a Turntable

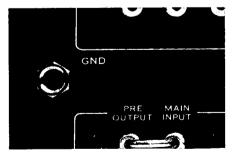
Connect it to the PHONO 1 or 2 terminals on the rear. Fot best results, use a turntable with a magnetic pickup cartridge.

Connecting a Tuner

Connect the output terminals of a tuner to the TUNER input terminals on the amplifier's rear panel.

Connecting Grounding

Be sure to connect the grounding terminal (or lead) of the turntable and tuner to the grounding terminal of the amplifier. It may suppress the hum noise which may otherwise occur.



Operating Procedure

- 1. Set the Selector Control to the desired program source.
- **2.** Set the 4-Channel Adaptor Switch to OUT and the Tape Monitor Switch to SOURCE, unless you want to use them.
- 3. Set the Power/Speakers Switch to as required.
- **4.** Start the program source component and play the program source.
- **5.** Use the amplifier's other controls and switches to suit your taste or room acoustics.

Note: To play a monophonic record on a stereo turntable, follow the same procedure as for playing a stereo record. Better results are normally obtained.

RECORDING AND PLAYBACK BY TAPE DECKS

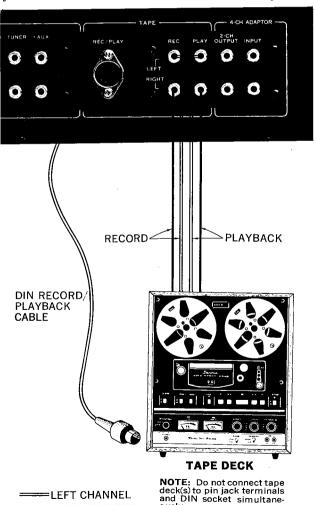
Connecting a Tape Deck

Connect the input terminals of a tape deck to TAPE REC terminals of the amplifier, and its output terminals to the PLAY terminals.

The DIN socket can be used only if your tape deck is equipped with a similar socket. It is manufactured according to the German industrial standard to permit tape recording and playback from a single cable with a special 5-pin plug on each end.

Should you wish to connect more than two tape decks, you may connect it to the 4-CH ADAPTOR terminals. The 2-CH OUTPUT terminals have the same electrical function as the REC terminals, while the INPUT terminals are equivalent to the PLAY terminals.

Note: Do not connect the tape deck(s) to the pin jack terminals and DIN socket simultaneously.



RIGHT CHANNEL

Recording & Playback Procedure Recording

- **1.** Set the Selector Control to the program source you wish to record.
- **2.** Adjust the recording volume control of the tape deck to preset the recording level.
- 3. Start the tape deck in the recording mode.
- **4.** To monitor the recording as you make it, push down the Tape Monitor Switch to PLAYBACK. Be sure to set the monitor switch of the tape deck to the playback mode as well.

Playback

- 1. Set the Tape Monitor Switch to PLAYBACK.
- 2. Start the tape deck in the playback mode.
- **3.** Use the amplifier's other switches and controls to suit your taste or room acoustics.

Procedure for Copying a Recorded Tape

- ♦ If you want to copy a recorded tape, connect one tape deck for playback to the TAPE terminals, the other for recording to the 4-CH ADAPTOR terminals.
- ♦ By operating the 4-Channel Adaptor Switch, you can monitor the recording as you copy it from one tape deck to the other. To monitor the recording before it is copied, keep the 4-Channel Adaptor Switch at OUT. To monitor the recording after it is copied, push down to IN.

Notes about Recording

- 1. Monitoring of recorded sound is possible only if the recording tape deck is equipped with separate heads for recording and playback. Otherwise, set the Tape Monitor Switch to SOURCE and listen to the original input sound before it is recorded.
- **2.** The various switches and controls on the AU-6500 do not affect the sound recorded into the tape deck. They only adjust the sound from the speaker systems or headphones.

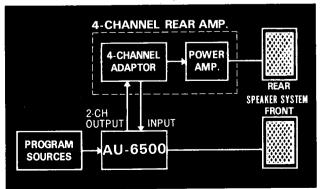
UPGRADING YOUR STEREO

4-Channel Stereo System

The sound we hear daily is a mixture of the sound that reaches our ears straight from the sound source—be it a musical instrument, a jet, a man's mouth or what have you—and the 'indirect sounds' that arrive at our ears only after they are reflected off various surfaces, such as the walls, ceiling and so forth. Four-channel recordings are made using two microphones in the front of the concert hall and two in the rear (to simplify the explanation). The 'indirect sounds' with their complicated waveforms are mainly picked up by the two microphones in the rear, and reproduced out of the two rear speakers in a 4-channel stereo set-up for greatly enhanced 'ambience' effects. The effect is almost as if the original live performance were re-played right in your own room.

This new approach can now be yours simply by adding certain equipment—mainly, a Sansui 4-channel rear amplifier with its unique QS Regular matrix (patents pending), and a second pair of speaker systems—to your 2-channel stereo system. Connection of such a rear amplifier or 4-channel adaptor is easy. Just connect the 4-CH ADAPTOR 2-CH OUTPUT terminals of the AU-6500 with the input terminals of such rear amplifier or 4-channel adaptor, then connect its 4-CH ADAPTOR INPUT terminals with the output terminals of such unit

To operate the rear amplifier or 4-channel adaptor so connected, push the 4-Channel Adaptor Switch on the amplifier's front panel, and otherwise follow its manufacturer's instructions. Electrically, the 4-CH ADAPTOR 2-CH OUTPUT and INPUT terminals possess the some functions as the TAPE REC and MON terminals, respectively.



Electronic Crossover system

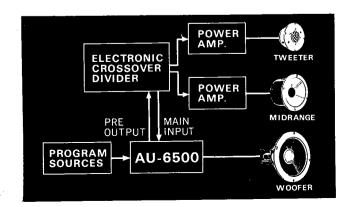
The electronic crossover system affords these advantages:

- 1. It enables the tweeters, midranges and woofers to be driven by separate power amplifiers. So you can make optimum use of speakers of different impedances and efficiencies, as well as power amplifiers of different output capacities and tone qualities.
- 2. It eliminates the need for the conventional LC type crossover network. With the electronic crossover divider, the amplifier's damping factor is no longer affected and you can set crossover frequencies as you like.

Electronic Crossover System Using the AU-6500

The preamplifier and power amplifier sections of the AU-6500 can be disconnected for independent usage, the latter section being available for driving a separate speaker in an electronic crossover system. To build such a system, you will need two- or threeway speaker systems and an electronic crossover divider, along with at least one or two additional power amplifiers.

Connection is not all that difficult. First remove the Pre-Main Connectors uniting the amplifier's pre-amplifier outputs and main (power) amplifier inputs. Then just connect the PRE OUTPUT to the input terminals of the electronic crossover divider, which divides the input signals into high, medium and low range(s). Finally, couple the separate output terminals of the electronic crossover divider to the amplifier's MAIN INPUT and the additional power amplifier(s), feeding their outputs separately into individual speakers, as illustrated below.

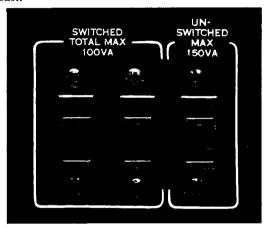


SIMPLE MAINTENANCE HINTS/ACCESSORY LIST

Rear-Panel AC Outlets

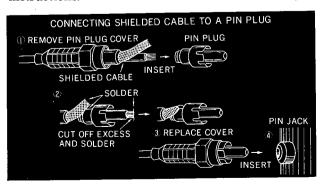
Of the three AC outlets provided on the rear panel, the ones marked 'SWITCHED' are controlled by the front-panel Power/Speakers Switch. The third one, marked 'UNSWITCHED,' is always 'live' and independent of the Power/Speakers Switch. The voltage delivered at these AC outlets is the same as the power supply voltage used.

The two 'SWITCHED' outlets have a total power capacity of 100 VA, while the UNSWITCHED one 150VA. Before you connect any appliance to them, be sure that it is adjusted for use at the same power supply voltage, and that its power consumption is not beyond these figures. Otherwise, serious danger could result.



Make Proper Connections

Connect the loadwires of speaker cables properly. If they are loose or touch other parts, the amplifier may produce noise and eventually break down. Also, before connecting a turntable, tuner and/or tape deck, be sure to read their manufacturers' instructions.



Speaker Impedance

Do not ever connect two pairs of speaker systems with impedance of less than 8 ohms each. Doing so will reduce the composite speaker impedance in each channel to less than 4 ohms, and may cause the quick-acting fuses to blow or result in a more serious breakdowns over a long period of time.

Phasing of Speakers

Listen to any monophonic reproduction. If the speaker systems are correctly phased, the sound will seem to come from a point midway between the left and right speaker systems. If the sound is not directly in front of you, however, the speaker systems are out of phase. If you notice this condition, check the speaker connections once. To correct the condition, switch the amplifier off and reverse the connection of plus and minus leadwires of one speaker cable. Also, be careful not to connect a single speaker system between the SYSTEM-A and SYSTEM-B terminals by mistake.

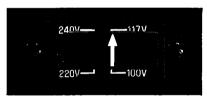
Howling and Hum

Take care never to place a turntable on or too near a speaker system, or the vibration produced by the speaker system is transmitted and causes an oscillating phenomenon called howling. It is best to keep these components completely separated, but if this is impossible, place a thick cushion between them. Humming, in contrast, is a phenomenon caused by incomplete or incorrect turntable-amplifier connections. Should this occcur, check to see if all connections are completely made and if the connecting cables are sufficiently thick. Hum noise may sometimes be eliminated by connecting the grounding lead of the turntable to the GND terminal on the amplifier's rear.

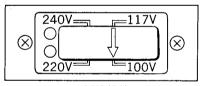
Voltage Adjustment

Your AU-6500 is adjusted to operate at the correct power supply voltage of your area prior to shipment from our factory. If you move after purchasing it or send it as a gift to a friend living in an area where the voltage is different, it may be necessary to adjust its Voltage Selector. To adjust it, remove the two screws securing the name plate on the rear, then set the arrow mark on the Voltage Selector Plug to the correct voltage indication (100, 117, 220, or 240 volts).

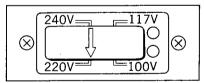
Also, it may by necessary to replace the power fuse as will whenever the voltage has changed. For operation at 100—117 volts, use a 3-ampere fuse. For operation at 220—240 volts, use a 2-ampere one.



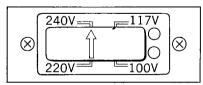
117V (POWER FUSE 3A)



100V (3A)



220V (2A)



240V (2A)

Heat Radiated inside the Amplifier

The bonnet of the AU-6500 is designed so that any heat radiated inside will effectively escape through it. Proper care should therefore be taken of the dissipation of such heat if you wish to place something on top of the amplifier or place it inside a closed box, etc. Above all, avoid placing it where it may be exposed to the direct sunlight.

It is prohibited, however, to remove the amplifier's bonnet or bottom plate to improve the ventilation.

Accessory List

1.	OPERATING INSTRUCTIONS AND	
	SERVICE MANUAL	1
2.	OPERATING INSTRUCTIONS SHEET	1
3.	PIN PLUGS	4
4.	BUTTERFLY BOLTS	2
5.	WASHERS	2
6.	POLISHING CLOTH	1
7.	QUICK-ACTING FUSES (3A)	2

QUICK CHECK LIST OF SIMPLE MISTAKES

Some of the troubles which seem to result from a malfunction of the amplifier are caused by wrong operation and the negligence of simple maintenance, and can be quickly corrected by making a simple investigation and providing simple cures. To make sure you haven't made any of these mistakes, go over the following check list once.

Connections

- **1.** Have you connected the power cord to a wall AC outlet?
- **2.** Are the connecting cables for the turntable and tape deck not loose?
- **3.** Are the speaker cables not loose from amplifier's jacks or the speaker systems?
- **4.** Do your speaker systems have impedance of 8 ohms more? (They must, if you wafit to drive two pairs at one time.)
- **5.** Have the power fuse or quick-acting fuses not blown?

Operating Procedure

- 1. Have you turned on the Power/Speakers Switch?
- **2.** Is the Tape Monitor Switch not set to PLAY-BACK position, though you don't want to reproduce a tape?
- **3.** Is the Selector Control set to the correct position?
- **4.** Is the Power/Speakers Switch set to the correct position?
- **5.** Is the 4-Channel Adaptor Switch not pushed down, though you are not using a 4-channel rear amplifier or adaptor?

If, even after these examinations, the amplifier does not return to normal, it may be faulty. Contact the Sansui dealer from whom you purchased the amplifier or your nearest Sansui Authorized Service Station. Do not attempt opening the bonnet for yourself. Such repair must be left to a qualified serviceman.

Should the Power Fuse Blow

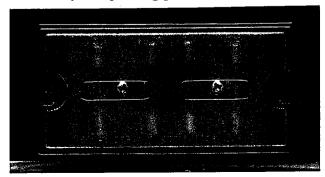
If no Power Indicator should glow and the amplifier simply remains dead even after you have turned on its power fuse has blown. If this happens, disconnect the power cord from the wall AC outlet at once and examine the power fuse on the rear panel. If you find it blown, replace it with a new glasstubed fuse of the rated capacity (3-ampere for 100 to 117 volts, 2-ampere for 220 to 240 volts). Never use a fuse of a different capacity or a piece of wire, even as a stop-gap measure, or serious danger could result.



Quick-Acting Fuses

The AU-6500 is doubly protected with a relayequipped protection circuit and four quick-acting fuses. If no sound or distorted sound is heard from either or both speaker systems, switch off the amplifier, disconnect the power cord from the wall AC outlet, remove the cover on the rear panel concealing the quick-acting fuses and examine them. If you find any of them blown, find and eliminate the cause of the blowout, then replace it with a new glass-tubed quick-acting fuse supplied.

If the relay-equipped protection circuit ever goes to work, the sound may come out intermittently. If it happens, check the connections of various equipment and your operating procedure once.



SPECIFICATIONS

POWER OUTPUT IHF MUSIC POWER: 94W (4.O.) at 1,000Hz CONTINUOUS RMS POWER (each channel driven): 32/32W (8 Ω) at 1,000Hz CONTINUOUS RMS POWER 30+30W (8Ω) at 1,000Hz (both channels driven): TOTAL HARMONIC DISTORTION: less than 0.1% at rated output INTERMODULATION DISTORTION (70Hz:7,000Hz less than 0.1% at rated output =4:1 SMPTE method): IHF POWER BANDWIDTH (each channel driven at 8Ω): 5 to 40,000Hz FREQUENCY RESPONSE (at 1Watt power outpnt) PHONO-1 and 2: RIAA equalization curve ± 0.5 dB (30 to 15,000Hz) 10 to 30,000Hz ± 1.0 dB AUX: 10 to 40,000Hz ±1.0dB MAIN INPUT: LOAD IMPEDANCE: 4 to 16.Ω. approximately 40 at 8Ω load DAMPING FACTOR: INPUT SENSITIVITY AND IMPEDANCE (at 1,000Hz) 2.5mV (50k Ω) PHONO-1: PHONO-2: 2.5mV (50k.Q.) (Maximum input capability 300mV THD: less than 0.5%) 100mV (50kΩ) TUNER: $100 \text{mV} (50 \text{k}\Omega)$ AUX: 100mV (50k Ω) TAPE PLAY (Pin): TAPE REC/PLAY (DID): 100mV (50kΩ) 4-CH ADAPTOR: 100mV (50kΩ) MAIN INPUT: 800mV (40kΩ) OUTPUT VOLTAGE(at 1,000Hz) TAPE REC (Pin): 100mV TAPE REC/PLAY (DIN): 30mV 4-CH ADAPTOR: 100mV 0.8V PRE OUTPUT: (THD: less than 0.08%) (Maximum Output Voltage 4.0V THD: less than 0.5%) CROSSTALK (at rated output, 1,000Hz): better than 50dB PHONO-1: better than 50dB PHONO-2: better than 50dB TUNER: better than 50dB AUX: MAIN INPUT: better than 50dB IHF HUM AND NOISE better than 70dB PHONO-1: PHONO-2: better than 70dB TUNER: better than 80dB better than 80dB

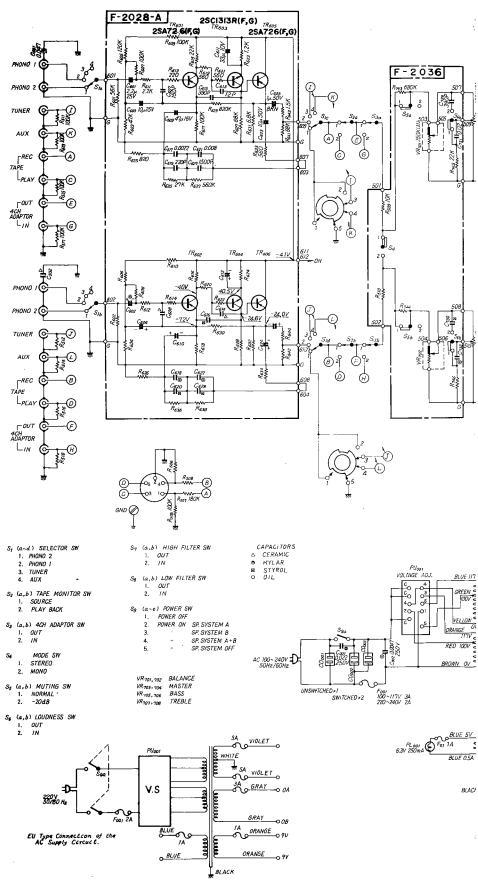
AUX:

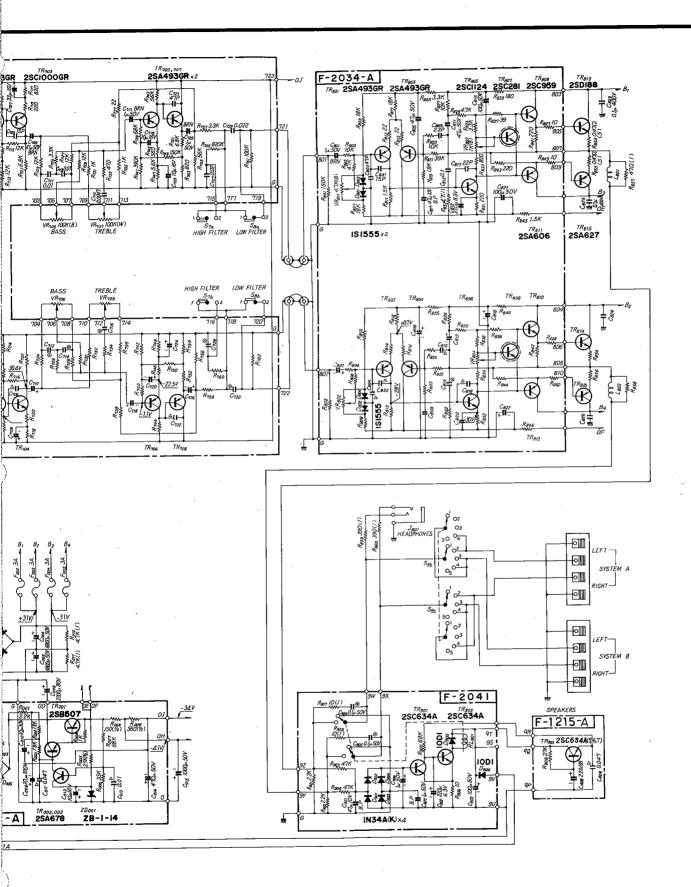
MAIN INPUT:

SWITCHES & CONTROLS +15dB, -15dB at 50Hz BASS: TREBLE: +15dB, -15dB at 15,000HzLOUDNESS: +10dB at 50Hz, +8dB at 10,000Hz volume control at -30dB) -12dB at 50Hz (6dB/oct) LOW FILTER: -12dB at 10,000Hz (6dB/oct) HIGH FILTER: SEMICONDUCTOR: transistors; 35 diodes; 6 POWER REQUIREMENTS: 100, 117, 220, 240V 50/60Hz POWER CONSUMPTION MAXIMUM: 125VA RATED: 65W **DIMENSIONS:** 140mm (5\%") H 440mm (173/8") W 322mm (1211/4") D WEIGHT: 11.5kg (25.3 lbs)

better than 100dB

SCHEMATIC DIAGRAM





NOTES TO SERVICE ENGINEERS



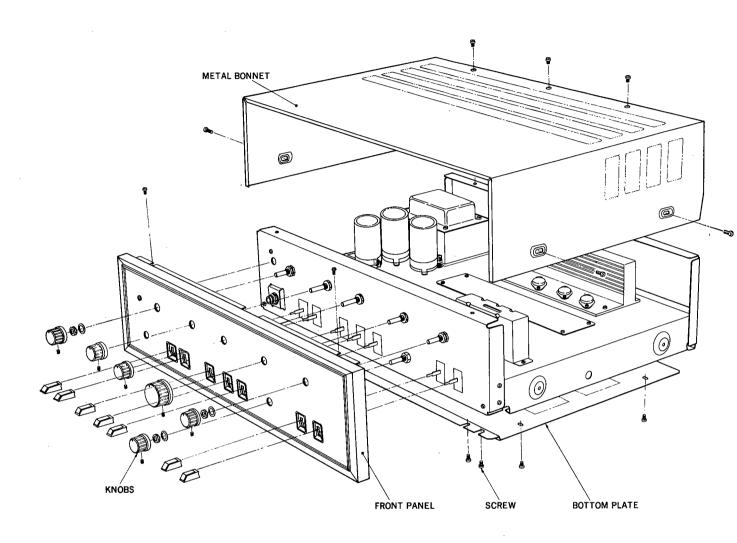
Please contact the nearest Sansui Authorized Service Station for replacement parts. When ordering them, look up the part lists on pages 19 to 26 and let us know (1) the amplifier's model number, (2) name of the printed circuit board, (3) part No., (4) name of the part, and (5) its stock No. Using nonstandard parts for temporary relief often impairs the sound quality and over-all reliability of the amplifier. Please take the trouble to contact your nearest Sansui Authorized Service Station.

Consult pages 17 to 26 when making repairs or adjustments. To check or measure the amplifier performance, connect load resistance of 4 to 16 ohms to the amplifier's speaker output terminals first. To check the electrical output characteristics, do not remove the bonnet and bottom plate.

GENERAL TROUBLESHOOTING CHART

PROGRAM SOURCE	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
Tuner.	* Noise during AM reception.	* Interference by adjacent stations (called beat interference).	* Peculiar to AM waves, and unavoidable to some extent.
	*	* TV set is being used simultaneously.	* Move TV set away from tuner and amplifier.
:	* Noise heard at certain hours, in certain areas or over part of dial during AM reception.	* Interference by nearby electrical appliances.	* Attach noise limiter to appliance producing noise. * In some cases, can be eliminated by reversing power cord plug-AC outlet connections.
	* Pop noise during FM reception.	* Ignition noise from nearby automobile, motorcycle, etc.	* Adjust antenna location and height for maximum sensitivity. * Keep antenna away from streets.
•		he entirely eliminated	uency noise during radio reception cannot Try turning on amplifier's High Filter Control counterclockwise
Turntable.	* Hum noise.	* Unshielded cables used to connect turntable. * Minus (ground) wire of connecting cable is not connected completely.	* Use regular shielded cables. * Examine connecting cables, especially their plugs. * Connect grounding lead of turntable to amplifier's GND terminal.
	/	* Turntable motor or tonearm is not grounded.	
	* Loud oscillating noise.	* Turntable is placed on top of or too close to speaker systems.	 * Place thick cushion between turntable and speaker systems. * Change location of turntable and speaker systems. * If using microphone(s), move or direct them away from speaker systems
	* Sound is shaky.	* Dust on record or pickup stylus. * Worn pickup stylus. * Improper stylus pressure.	* Clean record and pickup stylus. * Replace pickup stylus. * Adjust stylus pressure.
Tape Deck.	* Hiss noise.	* Magnetic heads are magnetized.	* Demagnetize heads. * Turn on High Filter Switch. * Connect noise reduction adaptor.
	* Sound is not clear.	* Dust on magnetic heads. * Tape is not pressed tight to heads.	* Clean heads. * Align tape transport mechanism.
General.	* When left and right channel sound volumes are balanced with ampli- fier's Balance Control, it does not come to center position.	* Left and right channel signal strengths vary with program source. * Left and right speaker systems have different efficiencies.	is obtained by adjusting Balance Control so that sound comes from midway point between two speaker
	* Musical instruments and singer not located clearly.	* Left-right, plus-minus con- nections of speaker systems, input cables are wrong.	* Examine connections once.
	* Want to listen at very low volume level at night.	* Fine adjustment of very low volume cannot be done with Volume Control.	* Turn on Muting Switch, then adjust Volume Control.

DISASSEMBLY PROCEDURE



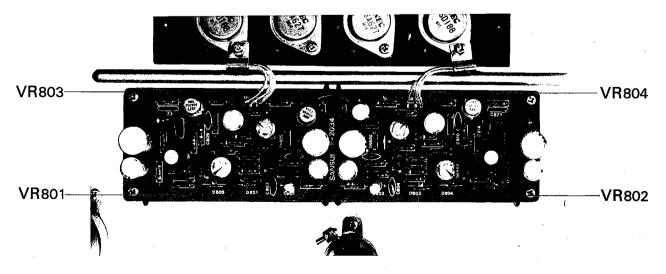
ALIGNMENT

Output of Power Amplifier Section

STEP	CONNECT/ADJUST	REMARKS
1.	Connect DC voltmeter to left (right) channel SYS-TEM-A speaker terminals.	
2.	Turn Power/Speakers Swith to SYSTEM-A.	Set DC voltmeter to 0.5V~3V range.
3.	Adjust VR ₈₀₁ (VR ₈₀₂) so that voltmeter indicates 0V (within ±30mV). Repeat above procedure for right channel (notations in parentheses are for right channel).	

Current Alignment of Power Amplifier Section

STEP	AMMETER (TESTER)	CONNECT/ADJUST	REMARKS
1.		Remove F_{002} and F_{003} .	Use DC
2.		Turn VR_{803} and VR_{804} fully counterclockwise.	ammeter with 100mA or 50mA
3.	<u>.</u>	Turn Power/Speakers Switch to SPKR OFF.	range.
4.	Set to 100mA range.	Connect DC ammeter where F_{002} was. (Connect (21) on schematic to minus terminal of ammeter, other end to plus terminal.)	Don't have to need to connect load resistance to the SPEA- KERS
5.		Adjust VR ₈₀₃ (left channel) so that ammeter indicates 28 to 32mA.	terminals.
6.		Turn off Power/Speakers Switch and replace F ₀₀₂ .	
7.	Set to 100mA range.	Turn Power/Speakers Switch to SPKR OFF, then connect ammeter where F ₀₀₈ was. (Con- nect (22) on circuit schematic to minus ter- minal of ammeter, other end to plus ter- minal.)	
8.		Adjust VR ₈₀₄ (right channel) so that ammeter indicates 28 to 32mA.	
9.		Turn off Power/Speakers Switch and replace F ₀₀₃ .	



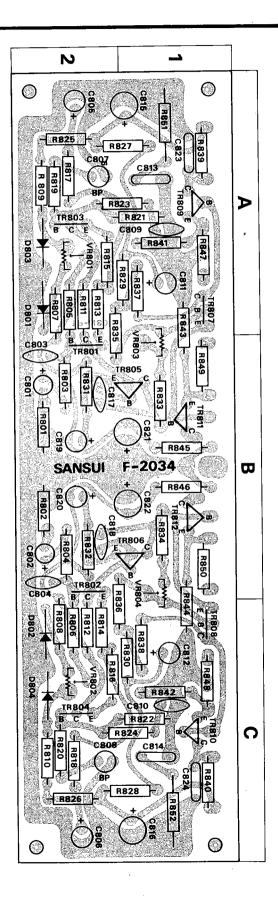
PRINTED CIRCUIT BOARDS AND PARTS LIST

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

DRIVER BLOCK <F-2034-A>

Stock No. 7					570680
w		X		Y	Z
R801	150kΩ)			0101154	2 B
R802	150kΩ			0101154	2 B
R803	10kΩ			0101103	2 B
R804	10kΩ			0101103	2 B
R805	47kΩ			0101473	2 A
R806	47kΩ			0101473	2 C
R807	18kΩ			0101183	2A, B
R808	18kΩ			0101183	2 B , C
R809	18kΩ			0101183	2 A
R810	18kΩ			0101183	2 C
R811	3.3kΩ			0101332	2 A
R812	3.3kΩ			0101332	2 C
R813	39Ω			0101390	2 A
R814	39Ω			0101390	2 C
R815	39 Ω			0101390	2 A
R816	39Ω			0101390	2 C
R817	18kΩ			0101183	2 A
R818	18kΩ			0101183	2 C
R819	1.8kΩ			0101182	2 A
R820	1.8kΩ			0101182	2 C
R821 :	39kΩ			0101393	1, 2 A
R822	39kΩ			0101393	1, 2 C
R823	10kΩ			0101103	1, 2 A
R824	10kΩ (±10% ¼W	CR.	0101103	1, 2 C
R825	3.3kΩ			0101332	2 A
R826	3.3kΩ			0101332	2 C
R827	10kΩ			0101103	1, 2 A
R828	10kΩ			0101103	1, 2C
R829	4.7kΩ			0101472	1, 2 A
R830	4.7kΩ			0101472	1, 2C
R831	180Ω			0101181	2 B
R832	180Ω			0101181	2 B
R833	820Ω			0101821	1 B
R834	820Ω			0101821	1 B
R835	3.3kΩ			0101332	2A, B
R836	3.3kΩ			0101332	2B, C
R837	39Ω			0101390	1 A
R838	39Ω			0101390	1 C
R839	180Ω			0101181	1 A
R840	180Ω			0101181	10
R841	220Ω			0101221	1 A
R842	220Ω			0101221	10
R843	220Ω			0101221	1A, B
R844	220Ω			0101221	1B, C
R845	1.5kΩ			0101152	1 B
R846	$1.5 \mathrm{k}\Omega$			0101152	1 B
R851	10 Ω)	0/	-	0104100	1 A
R852	10Ω)	±10% 1W	CR.	0104100	1 C
R847	10Ω)		-	0101100	1 A
R848	10Ω (1.100/ 1/14/	CD.	0101100	1 C
R849	10Ω	±10% ¼W	CR.	0101100	1 B
R850	10Ω)			0101100	1 B
VR801	4.7kΩ(B)	AC Balance Adj.	(Left)	1035110	2 A
VR802 VR803	4.7kΩ(B)∫ 1kΩ(B)	DC Bias Adj.	(Right) (Left)	1035110 1035070	2C 1A,B

	X	Υ	Z
VR804	$1k\Omega(B)$ DC Bias Adj. (Righ	nt) 1035070	1 B , C
C801	1/4F) 504 50	0519101	2 B
C802	$1\mu F$ 50V EC.	0519101	2 B
C803	47oF)	0660470	2 B
C804	47pF ±10% 50V CC	0660470	2 B
C805	$47 \mu F$ 50V EC.	0515470	2 A
C806	47 μF) 30V EC.	0515470	2C
C807	47 μF 10V PBE	0531470	2 A
C808	47 /uF }	0531470	2C
C809	$2.2pF$ $\pm 10\%$ 50V CC	0660229	1 A
C810	2.2pf) - 10% 30V CC	0660229	1 C
C811	47 / £F } 50V EC.	0515470	1 A
C812	47 ;tF \$ 501 EC.	0515470	10
C813	$0.047 \mu F$ $\pm 10\%$ 50V MC	0601477	1 A
C814	0.047 [LF] = 10,5 SOT ME	0601477	1 C
C815	$100\mu F$ 50V EC.	0515101	1,2A
C816	100με)	0515101	1, 2C
C817	$\frac{22pF}{2}$ ±20% 50V CC	0660220	2 B
C818	22pF)	0660220	2 B
C819	220 µF) 6.3V EC.	0510221	2 B
C820	220μF)	0510221	2 B
C821	100μ F $50V$ EC.	0515101	1, 2 B
C822	100/tF)	0515101	1,2B
C831	15pF) ±10% 50V CC	0660150	2 B
C832	15pF) = 7070 00. 00	0660150	2 B
TR801		0300450	2 B
TR802	2SA493 (GR)	0300450	28
TR803		0300450	2 A
TR804	12	0300450	2C
TR805	2SC1124 (2, 3)	0305901, 2	1, 2 B
TR806	[]	0305901, 2	1, 2 B
TR807	2SC281 (B, C)	0305121, 2	1 A
TR808	P	0305121, 2	10
TR809	2SC959 (L, M)	0305741, 2	1 A
TR810	R	0305741, 2	1 C 1 B
TR811	2SA606 (L, M)	0300211, 2	18
TR812	ľ. ·	0300211, 2	
D801		0311040	2 A
D802	151555	0311040	2C
D803		0311040	2 A 2 C
D804	Printed Circuit Pered 5 0034	0311040 2570460	20
	Printed Circuit Board F-2034	23/0460	<u> </u>



_Abbreviations___

CR: Carbon Resistor
 SR: Solid Resistor
 CeR: Cement Resistor
 CC: Ceramic Capacitor
 EC: Electrolytic Capacitor
 MC: Mylar Capacitor

MPC: Metallized Polyester Capacitor

SC : Polystyrene Capacitor

BPEC: Bi-polar Electrolytic Capacitor

TC: Tantalum Capacitor

oc : Oil Capacitor

MP : Metallized Paper Film Capacitor

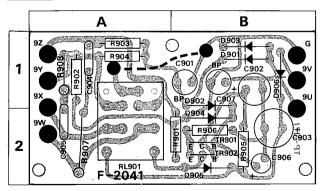
PRINTED CIRCUIT BOARDS AND PARTS LIST

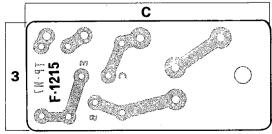
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

PROTECTOR BLOCK

 $\begin{array}{c} \langle \text{F-2041} \rangle \\ \langle \text{F-1215A} \rangle \end{array} \text{ stock No. 7591230} \\ \langle \text{F-1215A} \rangle \end{array}$

W	x	Y	Z
R901	2.2kΩ)	0101222	В
R902	2.2kΩ	0101222	Α
R903	47kΩ	0101473	Α
R904	$\frac{47k\Omega}{47k\Omega}$ \\ \pm \tau \tau \tau \tau \tau \tau \tau \tau	0101473	Α
R905	68kΩ	0101683	В
R906	10Ω)	0101100	В
R 907	10Ω) ±10% ½W SR.	0111100	À
R 908	10Ω ±10% ½W SR.	0111100	Α
R 909	$27k\Omega \pm 5\% \frac{1}{4}W$ CR.	0107273	3 C
C901	47 μF 10V BPEC.	0531470	В
C902	22 0 μF 6.3V EC.	0510221	В
C903	100μ F 50V EC.	0515101	В
C904	0.1μ ±10% 50V MC.	0601108	Α
C905	0.1μ)	0601108	Α
C%6	1 μ 50V EC.	0515109	В
C907	1 μ 50V BPEC.	0535109	В
C908	220 μF 35V EC.	0514222	3 C
C909	$0.047 / \iota F + \frac{80}{20}\%$ 50V CC.	0657473	3 C
TR901	0.0000000000000000000000000000000000000	0305891,2,3	В
TR902	2SC634A (6, 7, 8)	0305891,2,3	В
TR903	2SC634A (5, 6, 7)	0305890,1,2	3 C
D901	1	0310402	В
D902		0310402	В
D903	(N)	0310402	В
D904	I):	0310402	В
D 905) 10D-1	0310341	В
D906	100-1	0310341	В
RL901	Relay	1150101	Α
	Printed Circuit Board F-2041	2591230	
	F-1215	2590230	



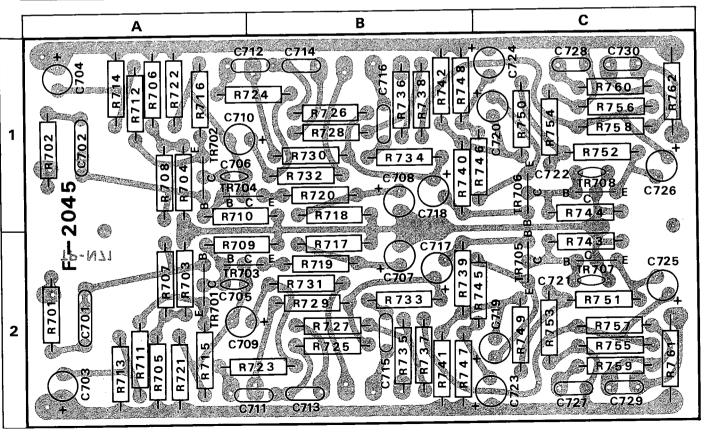


TONE CONTROL BLOCK (F-2045)

	Stock No. 75605						
w		X			Y	Z	
R 701	1kΩ \				0101102	2 A	
R702	1kΩ				0101102	1 A	
R703	470kΩ				0101474	2 A	
R704	470kΩ				0101474	1 A	
R705	270kΩ				0101274	2 A	
R706	270kΩ				0101274	1 A	
R708	390kΩ				0101274	2 A	
R707	390kΩ			ļ	0101394	1 A	
R709	18kΩ			ŀ	0101183	2A, B	
R710	18kΩ				0101183	1 A , B	
R711	1kΩ			j	0101102	2 A	
R711	1kΩ				0101102	1 A	
R712	12kΩ				0101102	2 A	
R713	12kΩ				0101123	IA	
R714 R715	12kΩ				0101123	2 A	
R716	12kΩ				0101123	1 A	
R716 R717	820Ω				0101123	2 B	
	820Ω				0101821	1 B	
R718	220Ω				0101021	2 B	
R719					0101221	1 B	
R720 R721	220Ω				0101221	2 A	
	6.8kΩ				0101682	1 A	
R722	6.8kΩ		*		01011032	2A, B	
R723	12kΩ				0101123	1A, B	
R724	12kΩ				0101123	2 B	
R725	3.3kΩ				0101332	1 B	
R726	3.3kΩ 12kΩ				0101332	2 B	
R727 R728	12kΩ				0101123	1 B	
R728 R729	12kΩ	±10%	¼W (CR.	0101123	2 B	
R729	12kΩ				0101123	1 B	
R730	1kΩ				0101102	2 B	
R732	1kΩ				0101102	1 B	
R732	470Ω			ĺ	0101471	2 B	
R733	470Ω			- 1	0101471	1 B	
R735	470Ω				0101471	2 B	
R736	470Ω				0101471	1 B	
R737	22Ω				0101220	2 B	
R738	22Ω				0101220	1 B	
R739	68kΩ				0101683	2 B	
R740	68kΩ				0101683	1 B	
R741	390kΩ				0101394	2 B	
R742	390kΩ				0101394	1 B	
R743	56kΩ				0101563	2 C	
R744	56kΩ				0101563	1 C	
R745	560Ω				0101561	2B, C	
R746	560Ω				0101561	1B, C	
R747	5.6kΩ				0101562	2 B	
R748	5.6kΩ				0101562	1 B	
R 749	150kΩ				0101154	.2C	
R750	150kΩ				0101154	1 C	
R 751	6.8kΩ				0101682	2C	
R752	6.8kΩ				0101682	1 C	
R753	820Ω				0101821	2C	
R754	820Ω				0101821	1 C	
R755	56kΩ				0101563	2C	
R756	56kΩ,	J			0101563	1 C	
						<u>·</u>	

w	x			Y	Z
R757	3.3kΩ)			0101332	2C
R758	3.3kΩ			0101332	1 C
R759	820kΩ	1/14/		0101824	2C
R760	$\frac{820k\Omega}{820k\Omega}$ $\pm 10\%$	¼W	CR.	0101824	1 C
R 761	100kΩ			0101104	2C
R762	100kΩ			0101104	1 C
C701	0.22μF)	501/		0600228	2 A
C702	$0.22\mu F$ ± 5%	50V	MC.	0600228	1 A
C703	47 μF)	1.00	F.C.	0512470	2 A
C704	47 μF	16V	EC.	0512470	1 A
C705	15-5)	501/	CC.	0660150	2 A
C706	15pf ±10%	50V	CC.	0660150	1 A
C707	33μF)	1.00	EC.	0512470	2 B
C708	33μF}	167	EC.	0512470	1 B
C709	4.7 μF)	50\/	F.C	0519106	2 A , B
C710	4.7 μF	50V	EC.	0519106	1A, B
C711	0.01 μF)			0600107	2A, B
C712	0.01 <i>μ</i> F			0600107	1 A , E
C713	0.0145	50V	MC.	0600107	2 B
C714	$0.01\mu F \pm 5\%$	50 V	MC.	0600107	1 B
C 715	0.0047 μF			0600476	2 B
C 716	0.0047 µF			0600476	1 B
C717	1 <i>μ</i> F	50V	EC.	0519101	2 B

w	Х			Y	Z
C 718	1 <i>μ</i> F	50V	EC.	0519101	1 B
C719	10 <i>μ</i> F)	16V	EC.	0512100	2 C
C720	10 <i>μ</i> F)	101	LC.	0512100	1 C
C721	47pF} ±10%	50V	CC.	0660470	2 C
C722	47pF ± 10%	307	CC.	0660470	1 C
C723	10 <i>μ</i> F)	167	EC.	0512100	2C
C724	10 <i>μ</i> F)	161	EC.	0512100	1 C
C725	1 μF)	E0\/	EC.	0519101	2C
C726	1 <i>μ</i> F}	50V	EC.	0519101	1 C
C727	0.02μF)			0600207	2C
C728	$0.02\mu F \left(\pm 5\% \right)$	50V	MC.	0600207	1 C
C729	$0.022 \mu F$ $\pm 5\%$	507	MC.	0600227	2C
C730	0.022μF			0600227	1 C
TR701)			0300450	2 A
TR702	2SA493 (GR)			0300450	1 A
TR703	0001000 (00)			0305880	2 A
TR704	2SC1000 (GR)			0305880	1 A , B
TR705	ľ			0300450	2C
TR706	001100(00)			0300450	1 C
TR707	2SA493 (GR)			0300450	2C
TR708	J			0300450	1 C
,	Printed Circuit Boar	rd F-	2045	2560550	



PRINTED CIRCUIT BOARDS AND PARTS LIST

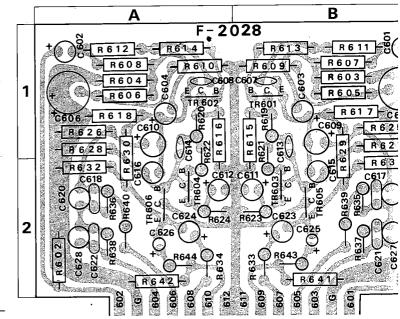
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

EQUALIZER BLOCK <F-2028-A>

Stock No. 7550420

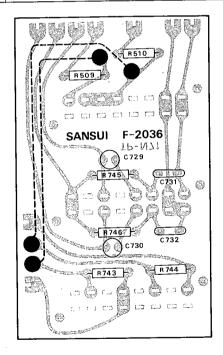
_	Stock No. 75504						
w		х			Y	Z	
R601	100kΩ\	-			0101104	2 B	
R602	100kΩ				0101104	2 A	
R603	47kΩ				0101473	1 B	
R604	47kΩ				0101473	1 A	
R605	120kΩ				0101124	1 B	
R606	120kΩ				0101124	1 A	
R607 .	100kΩ				0101104	1 B	
R608	100kΩ				0101104	1 A	
R619	100kΩ				0101104	1 B	
R610	100kΩ				0101104	1 A	
R611	2.2k Ω				0101222	1 B	
R612	2.2k Ω				0101222	1 A	
R613	220Ω				0101221	1 B	
R614	220Ω				0101221	1 A	
R 615	22kΩ				0101223	1, 2 B	
R616	22kΩ				0101223	1 A	
R 617	100kΩ				0101104	1 B	
R618	100kΩ				0101104	1 A	
R 619	560Ω				0101561	1 B	
R620	560Ω				0101561	1 A	
R621	560Ω	±10%	1/4W	CR.	0101561	1,2B	
R622	560Ω		, -		0101561	1, 2 A	
R623	1.2kΩ				0101122	2 B	
R624	1.2kΩ				0101122	2 A	
R625	820Ω				0101821	1 B	
R626	820Ω				0101821 0101683	1 A	
R627	68kΩ				0101683	1 B	
R628	68kΩ				0101883	1 A	
R629	820kΩ				0101824	1,2B	
R630	820kΩ				0101682	1,2A	
R631	6.8kΩ 6.8kΩ				0101682	2 B 2 A	
R632	560Ω				0101561	2 B	
R633 R634	560Ω				0101561	2 A	
R635	27kΩ				0101273	2 B	
R636	27kΩ				0101273	2 A	
R637	560kΩ				0101564	2 B	
R638	560kΩ				0101564	2 A	
R641	68kΩ				0101683	2 B	
R642	68kΩ				0101683	2 A	
R643	1.5kΩ				0101152	2 B	
R644	1.5kΩ				0101152	2 A	
C601	3.3μF)				0573339	1 B	
C602	3.3µF		257	TC.	0573339	1 A	
C603	10μF)				0513100	1 B	
C604	10μF		25V	EC.	0513100	1 A	
C605	33μF)				0515330	1 B	
C606	33μF		50V	EC.	0515330	1 A	
C607	150pF)		5617	66	0660151	1 B	
C608	150pF	±10%	50V	CC.	0660151	1 A	
C609	47 μF)		1.00	F.C	0512470	1 B	
C610	47 μF		16V	EC.	0512470	1 A	
C611	33μF)		1017	rc	0511330	2 B	
C612	33μF		107	EC.	0511330	2 A	
C613	12 pF	±10%	50V	CC.	0660120	1 B	
	l .				l	1	

w	x	Υ	Z
C614	12 pF ± 10% 50V CC.	0660120	1 A
C615	390pF)	0620391	2 B
C616	390pF	0620391	2 A
C617	1500pF ± 5% 50V SC.	0620152	2 B
C618	1500pf (± 5% 50V SC.	0620152	2 A
C619	220pF	0620221	2 B
C620	220pF)	0620221	2 A
C621	$0.008 \mu F$ ± 5% 50V MC.	0600806	2 B
C622	$0.008\mu F$ $\pm 3\%$ 300 MC.	0600806	2 A
C623	$10 \mu F$ 50V EC.	0515100	2 B
C624	$10\mu\text{F}$ 50V EC.	0515100	2 A
C625	1μF) 50V EC.	0519101	2 B
C626	$1 \mu F$ 50V EC.	0519101	2 A
TR601	05,170,10 (5, 0)	0300410,1	1 B
TR602	2SA726R (F, G)	0300410,1	1 A
TR603	05610100 (5.6)	0306070,1	1 B
TR604	2SC1313R (F, G)	0306070,1	2 A
TR605	0547048 (5.6)	0300410,1	2 B
TR606	2SA726R (F, G)	0300410,1	2 A
	Printed Circuit Board F-2028	2550330	



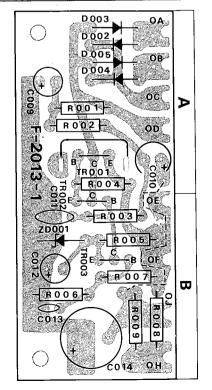
ACCESSORY BLOCK <F-2036>

W	X	Y
R509	10kΩ)	0101103
R510	TOkΩ	0101103
R511	221-0	0101223
R512	$\frac{22k\Omega}{22k\Omega}$ ±10% ½W CR.	0101223
R513	680kΩ	0101684
R514	680kΩ)	0101684
C503	390pF) + 5% 50V SC.	0610391
C504	$\frac{390pr}{390pF}$ ± 5% 50V SC.	0610391
C505	$0.02\mu\text{F}$ +10% 50V MC.	0601207
C506	0.02μ F $\pm 10\%$ 50V MC.	0601207
S 4	MODE SWITCH	1170170
S ₅	MUTING SWITCH	1170270
S ₆	LOUDNESS SWITCH	1170270
	Printed Circuit Boad F-2036	2591250



POWER SUPPLY BLOCK $\langle F-2013-1A \rangle$ Stock No. 7500690

Stock No. 75000			
W	x	Y	Z
R001	2.2kΩ)	0101222	Α
R002	18kΩ	0101183	Α
R003	18kΩ	0101183	В
R004.	$1 k\Omega > \pm 10\% $ ½W CR.	0101102	Α
R005	2.7kΩ	0101272	В
R006	33kΩ	0101333	В
R007	78kΩ)	0101683	В
R008	150Ω)	0103151	Α
R009	$\frac{13012}{560\Omega}$ ±10% ½W CR.	0103561	В
C009	10μF 100V EC.	0519404	Α
C 010	10μF 50V EC.	0515100	Α
C011	$0.047 \mu F + \frac{80}{20}\%$ 50V CC.	0557473	В
C012	10μF 50V EC.	0515100	В
C013	$0.01 \mu F + \frac{80}{20}\%$ 50V CC.	0557103	В
C014	470 μF 50V EC.	0515471	В
TR001	2SB507 (C, D, E, F)	0303230,1,2,3	Α
TR002) ()	0300291,2	В
TRoos	2SA678 (6, 7)	0300291,2	В
ZD	ZB-1-14	0315071	В
D002	h	0310340	Α
D003	,,,	0310340	Α
D004	\ \ 10D-1	0310340	Α
D005	IJ	0310340	Α
	Printed Circuit Board F-2013-1	2500570	



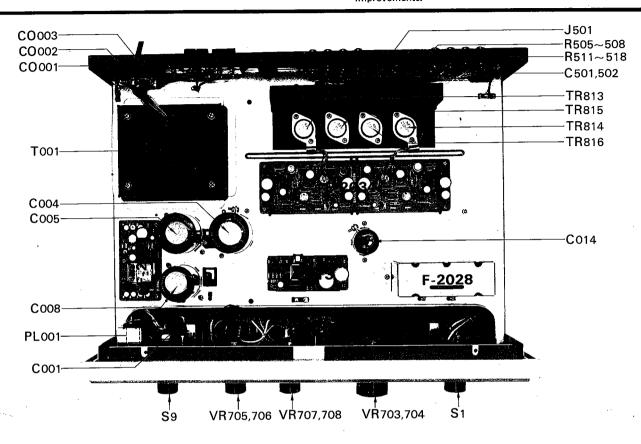
OTHER PARTS AND THEIR POSITION ON CHASSIS

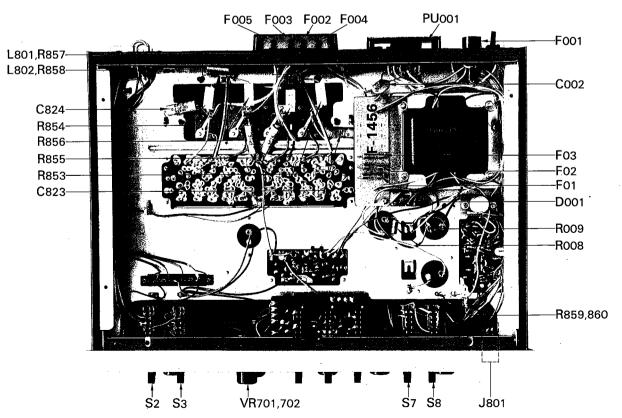
W: Parts No. X: Parts Name Y: Stock No.

OTHER PARTS

W	x	Y
R505	100kΩ \	0101104
R 506	100kΩ	0101104
R 507	180kΩ	0101184
R 508	180kΩ	0101184
R 511	100kΩ	0101104
R512	10040	0101104
R513	$\begin{vmatrix} 100k\Omega \\ 100k\Omega \end{vmatrix} \pm 10\% \frac{1}{4}W$ CR.	0101104
R514	100kΩ	0101104
R515	100kΩ	0101104
R516	100kΩ	0101104
R517 .	100kΩ	0101104
R518	100kΩ)	0101104
R853	0.47Ω)	0155478
R854	0.47.0	0155478
R855	0.47Ω $\pm 10\%$ 5W CeR.	0155478
R856	0.47Ω	0155478
R857	4.7Ω	0154479
R858	4.7Ω	0104479
R859	3900	0104391
R860	$\frac{390\Omega}{390\Omega}$ $\pm 10\%$ 1W CR.	0104391
Roos .	4.7kΩ	0104472
R009	4.7kΩ)	0104472
VR701	$\left. \begin{array}{c} \cdot \\ \cdot \\ \cdot \end{array} \right\} = 250 \text{k}\Omega \left(\text{M, N} \right) \qquad \text{BALANCE}$	1010580
VR702 VR703 VR704	$ \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array} $ 250k Ω (B) \times 2 VOLUME	1010580
VR705 VR706	$ \left. \begin{array}{ccc} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$	1010840
VR707 VR708	$\}$ 100k Ω (Special B) $ imes$ 2 TREBLE	1010860
C501	0.047 μF)	0660473
C502	$0.047 \mu F$ $\pm 10\%$ 50V CC.	0660473
C823	0.145)	05901.08
C824	$\frac{0.1\mu F}{0.1\mu F}$ ±10% 400V OC.	0590108
C001	0.022μξ)	0605227
Ç 002	$\frac{0.022\mu \text{I}}{0.0047 \mu \text{F}}$ $\pm 20\%$ 250V MPC.	0605476
C004	6800 μF)	0559321
C005	6800 µF 50V EC.	0559321
C008	2200μF 80V EC.	0559820
C014	1000μF 50V EC.	0559302
TR813	2SD188 (L, M)	0308301, 2
TR814) 23D108 (E, M)	0308301,2
TR815	} 25A627 (L, M)	0300231,2
TR816	Power Transistor Socket	2030020
D001	5B2	0310660
L801		4290221
L802	Stabilized Coil for High Frequency Range	4390221
Sı	SELECTOR	1103490
S 2	TAPE MONITOR	1170300
Sз	4-CH ADAPTOR	1170300
S7	HIGH FILTER	1170270

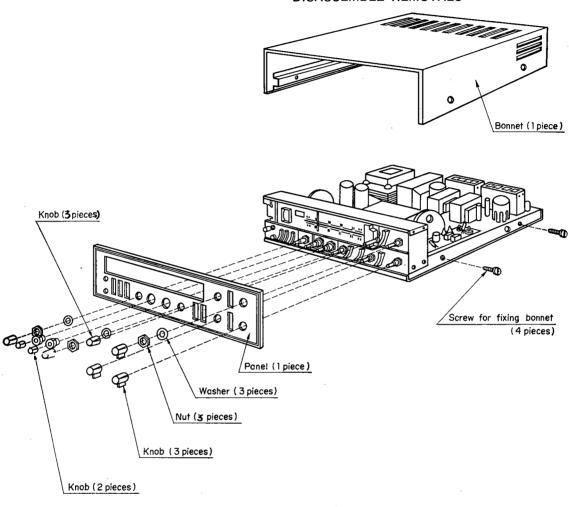
W	x	Y
S 8	LOW FILTER	1170270
S9	POWER/SPEAKERS	1101420
J 801	Headphone Jack	2430220
J601	DIN Socket	2430040
T001	Power Transformer	4001171
CO001	AC Outlet (UNSWITCHED)	2450040
CO002	AC Outlet (SWITCHED)	2450040
CO003	AC Outlet (SVVII Cheb)	2450040
F001	Power Fuse (3A)	0431262
	Power Fuse Holder	2300060
F002	+ Power Supply, Left Ch.)	0433262
F003	+ Power Supply, Left Ch. Quick Acting	0433262
F00.4	— Power Supply, Right Ch. Fuse (3A)	0433262
F005	- Power Supply, Right Ch. J	0433262
For	1A)	0432830
F02	1A > Wired-in Fuse	0432830
Fo3	3A J	0432870
	Printed Circuit Board For Wired-in Fuse (F-1456)	2598120
	(1100)	
PL001	Power Indicator (6.3V 250mA)	0400090
	Power Indicator Socket	2320080
PU001	Voltage Selector Plug	2410090
	Socket	2410080



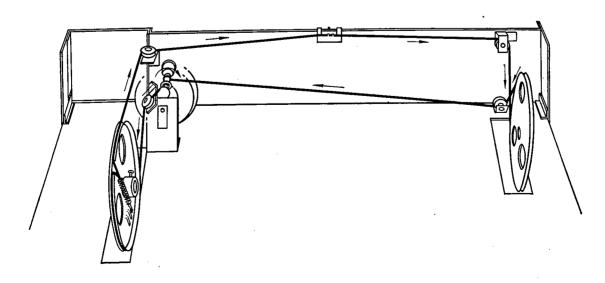


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DISASSEMBLE REMOVALS



DIAL CORD STRINGS



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