

STEREO AMPLIFIER

SANSUI AU-7700







SANSUI ELECTRIC CO., LTD.

If You Didn't Get This From My Site, Then It Was Stolen From... www.SteamPoweredRadio.Com We are grateful for your choice of the Sansui AU-7700 stereo amplifier. Before you degin to operate it, may we suggest that you read this booklet of operating instructions once carefully? You will then be abole to connect and operate it correctly, and enjoy its superb performance for years.

FUNCTIONAL FEATURES

*Terminals for conneting up to two pairs of speakers.

In addition to having the usual arrangement of speakers in your listening room, another pair of speakers can be set up in another room enabling you to enjoy your music almost anywhere you like.

*Circuits for handling two tape decks provided. Copying a recorded tape (dubbing) can be easily facilitated by simply turning the TAPE PLAY switch.

*Terminals for connecting up to two turntables.

Signal cables from two turntables or two cartridges on one turntable can be connected.

*Selectable approved pickup load.

The input impedance of the PHONO-1 circuit can be selected ($30K\Omega$, $50K\Omega$, or $100K\Omega$) to best match the approved load resistance of the cartridge in use. *Versatile control or tonal quality possible.

The BASS, MIDRANGE and TREBLE tonal quality can be adjusted independently of each other. The bass and treble tone can be further finely adjusted by the BASS and TREBLE Tone Selectors that select the frequencies below or above which the tone controls work. *High and low filter switches provided.

By operation of these switches unpleasant noise in the lows and highs can be eliminated.

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IMPORTANT PRECAUTIONS

To keep the set in top condition all the time, observe these precautions.

1. Do not obstruct the ventilation opening of the cabinet.

2. Avoid an extremely hot or dusty place or a place very near some heating appliance.

3. Nine pin jack covers are supplied with the set. Be sure to insert these cover into the unused pin jacks on the rear panel to avoid dust accumulation.

4. If the set is placed on a shelf, be sure that the shelf board is thick and strong.

HEAT RADIATED BY THE SET

As transistors are sensitive to heat, the enclosure of this set is designed to provide a good dissipation of the heat radiated inside this set. Thus, if you place something on top of the ventilation opening of the enclosure or place the set inside a closed box, and operate it for many hours, it is possible that the set breaks down. Always try to provide a good circulation of air around the set. But removing the enclosure or the bottom plate to allow good ventilation is not only dangerous but undesirable from the standpoint of electrical performance.

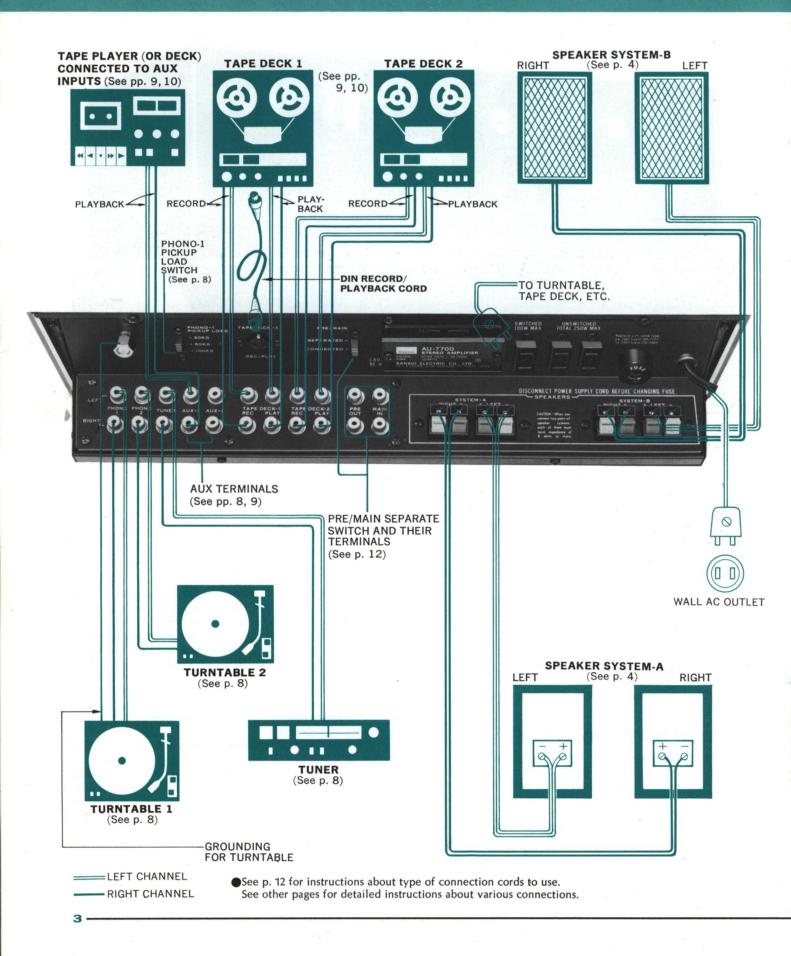
AC OUTLETS

Of the three AC outlets provided on the rear panel, the one marked 'SWITCHED' is controlled by the frontpanel POWER switch. It is convenient to use it to power a program source component such as your turntable. If you keep the power switch of such a component turned on, then that component will be turned on and off as you operate the POWER switch of this set. The other two AC outlets, marked 'UNSWITCHED,' are not related to the set's POWER switch. The voltage delivered at these AC outlets is the same as the power supply voltage used.

The 'SWITCHED' outlet has a 100-watt capacity. The two 'UNSWITCHED' outlets have a combined capacity of 250 watts. Do not connect any equipment whose power consumption exceeds the capacity of each outlets, as it is extremely dangerous. The power consumption rating is usually listed in the specification chart of the equipment, or sometimes on the equipment itself.

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REAR-PANEL CONNECTIONS



CONNECTION OF SPEAKER SYSTEMS



CONNECTION AND SELECTION OF SPEAKER SYSTEMS

If you are connecting **one pair of speaker systems** to the set, they may have any impedance from 4 to 16 ohms. Connect them to the SPEAKERS SYSTEM-A or -B terminals on the real panel, making sure not to confuse the left and right cables or the plus and minus leads on the set and speaker ends.

The set also connects **two pairs of speaker systems**. Thus, for instance, one pair connected to the real-panel SPEAKERS SYSTEM-A terminals may be used in your own room, while the other pair (SYSTEM-B) in a separate living room. And if you have connected two pairs of speaker systems and wish to drive them all simultaneously by turning the SPEAKERS switch to A+B, each speaker system should have an impedance of more than 8 ohms. The impedance is usually specified on the system itself or in its specification. Using a system with a lower impedance could result in a breakdown of the set; doing so will reduce the composite speaker impedance in each channel to less than 4 ohms.

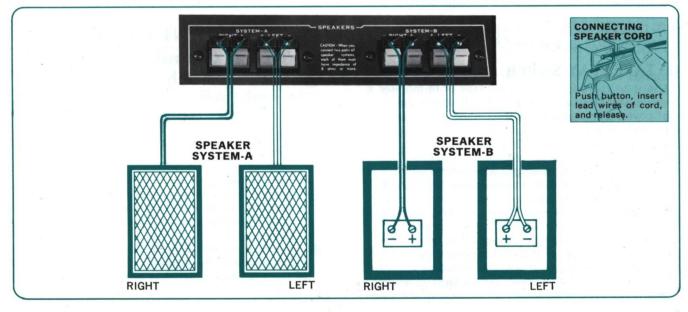
CONNECTING HEADPHONES

Headphone are connected to the PHONES jack on the front panel. Sound comes from the connected speaker systems too unless the SPEAKERS switch on the front panel is in its OFF position. Therefore, to listen privately with the headphones only, turn the SPEAKERS switch to OFF.

IF SPEAKER SYSTEMS ARE OUT OF PHASE

If you were careless when connecting the speaker systems and if the plus and minus polarities are not in the same order for the left speaker system and the right speaker system, they would be reverse-phased. This will cause a 'dropout' of sound at the extreme ends and the middle of the line between the two speaker systems, creating a sense of discontinuation and damaging the sense of stereo perspective. Also, the bass sound would lose much of its powerfulness and become rather unnatural.

Once that condition is corrected and the polarities are in order, you can detect it by reproducing a stereo or mono source with the MODE switch of the set in the MONO position. Sound will seem to come from a point midway between the speakers.



• When you operate the various switches, it is suggested that you reduce the volume first by turning the VOLUME control counterclockwise.

1. POWER

1 POWER Switch

Raise the lever switch to ON to turn the set on, push it down to OFF to turn it off.

2. SELECTING SPEAKER SYSTEMS

(2) SPEAKERS Switch

The set connects up to two pairs of speaker systems, and this switch allows selection of either or both pairs of the connected speaker systems.

OFF: To cut off the sound from the speaker systems when listening with headphones.

A: To drive the speaker systems connected to the rearpanel SPEAKERS SYSTEM-A terminals.

B: To drive those connected to the SYSTEM-B terminals. **A+B:** To drive both A and B pairs of speaker systems simultaneously.

3. SELECTING PROGRAM SOURCE

③ SELECTOR Switch

Adjust to the program source (except tape) you wish to hear such as records and radio broadcasts or AUX.

PHONO-2, PHONO-1: For playing records. The impedance of the PHONO-1 circuit can be switched over with the PHONO-1 Pickup Load Switch on the rear panel to match the impedance with the approved load resistance of the cartridge in use.

TUNER: To hear radio broadcasts through a connected tuner.

AUX-1, AUX-2: To reproduce whatever program source is connected to the rear-panel AUX-1 or AUX-2 inputs.

④ TAPE PLAY Switch

Use it to reproduce a recorded tape or to monitor a recording that you are making. Turn it to the position that covers the record/playback circuit connecting the tape deck in use at the moment. At all other times, leave it in the normal "SOURCE" position.

>When one tape deck is connected to the set:

- **DECK-1, DECK-2:** To reproduce a recorded tape on the tape deck connected to therear-panel TAPE DECK-1 or TAPE DECK-2 terminals.
- **SOURCE:** To hear the program source, selected by the SELECTOR switch.

>When two tape decks are connected to the set:

COPY 1▶2: To dub or reprint a recorded tape on the tape deck (in playback mode) connected to the rearpanel TAPE DECK-1 terminals onto a tape on another tape deck (in record mode) connected to the rear-

panel TAPE DECK-2 terminals.

DECK-2: To monitor a recording as you dub it to Deck 2 in record mode.

DECK-1: To hear the program source as the signal leaves Deck 1 in playback mode.

COPY 2>1: To dub or reprint a recorded tape on the deck connected to the rear-panel TAPE DECK-2 terminals onto a tape on another tape deck connected to the TAPE DECK-1 terminals.

DECK-1: To monitor a recording as you dub it to Deck 1 in record mode.

DECK-2: To hear the program source as signal leaves Deck 2 in playback mode.

•Monitoring is possible only if the tape deck in record mode is equipped with separate record and playback heads.

4. STEREO VS. MONO

(5) MODE Switch

When you are going to hear a stereo program source: Leave this switch at NORMAL. If you have connected the left and right speaker systems in reverse, set this switch to REVERSE to restore the normal stereo effect without physically changing the speaker connections.

When you are going to hear a mono program source: Set the switch to MONO, then the monophonic mixture of the left and right channel signals is heard from both speaker systems. The switch should be in this position to hear a monophonic source (record or tape) on a turntable or tape deck, connected to either the left or right input terminals on the rear panel.

●To hear either the left or right channel signal, turn the BALANCE control fully clockwise or counterclockwise.

5. ADJUSTMENT OF VOLUME (a) VOLUME Control (7) MUTING Switch

The overall volume is controlled by the VOLUME control. The more this control is turned clockwise the louder the volume of the sound becomes.

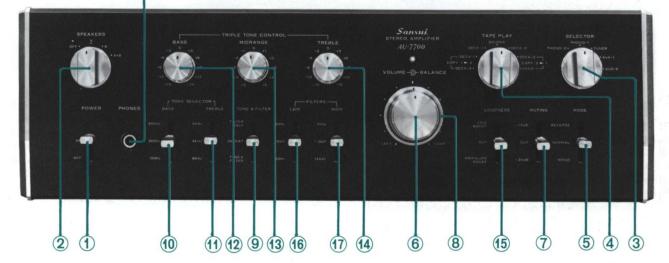
Use the MUTING switch when you wish to reduce the overall volume temporarily. This attenuates the volume by 30dB (lower position) or 15dB (upper position) without having to touch the main VOLUME control, which comes in very handy when you receive a telephone call or to eliminate the unpleasant sounds produced when the stylus is lowered onto the surface of the record.

•Adjustment of the volume of very low sounds is easily carried out by adjusting the VOLUME control after the MUTING switch has been set to the '-15dB' position.

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- HEADPHONE JACK

Plug stereo headphones into this jack for private listening or monitoring. But be sure to turn the SPEAK-ERS switch to OFF first unless someone is listening to the sound from speaker systems in another room.



The numbers indicated in the photograph above coincide with the colored switch designations.

6. LEFT & RIGHT BALANCE ADJUSTMENTS

(8) BALANCE Control

(5) MODE Switch

The volume of the left and right speakers can be adjusted by the BALANCE control (the outer ring around the VOLUME control). As the control is turned counterclockwise from the center position the sound from the left speaker becomes louder than that from the right speaker. When turned clockwise from the center, the sound from the right speaker increases in volume as compared with that of the left.

Stereo balance adjustments are made by pushing down the MODE switch and then adjusting the BALANCE control so that the sound you are listening to can be heard from the exact center position between both speakers.

Reset the switch to its original "NORMAL" positions by raising it. If in this case you can sense some difference in the volume between the left and right speakers, recheck the program source side (stylus pressure balance, etc.).

WHEN YOU HEAR ABSOLUTELY NO SOUND FROM THE SET :

Some of the symptoms and conditions which seem to indicate a breakdown of the set are caused by wrong operation or by faulty external components. These can be spotted with a simple examination and restored to normal. If you suspect a breakdown, please confirm the connections and your operating procedure once more.

Check List of Operation

1. Is the POWER switch turned on?

2. Is the TAPE PLAY switch in a position other than "SOURCE" although you do not wish to reproduce a recorded tape?

3. Is the SELECTOR switch turned to the correct position?

4. Is the SPEAKERS switch turned to the correct position?

5. Is the PRE/MAIN SEPARATE switch on the rear panel in the "CONNECTED" position?

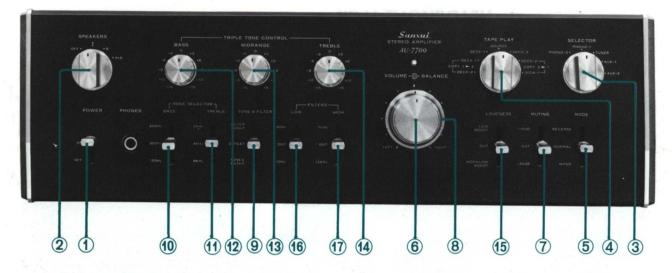
Check List of Connections

 Is the power cord plugged off a wall AC outlet?
 Are the connection cords for your turntable and tape deck loose or touching some other object?

3. Are the speaker connection cords loose or detached from the set or your speakers?

4. Does each speaker system have an impedance of more than 8 ohms when you have connected two pairs of speaker systems and what to drive them simultaneously by turning the SPEAKERS switch to A+B? Otherwise, the quick-acting fuses protecting the power transistors may have blown.

CONTROLLING SOUND TO YOUR TASTE



The numbers indicated in the photograph above coincide with the colored switch designations.

TONAL QUALITY

- **(9)TONE & FILTER Switch**
- **(10) BASS Tone Selector**
- (1) TREBLE Tone Selector
- (12) BASS Control
- **(13) MIDRANGE Control**

(14) TREBLE Control

To control sound, first push the TONE & FILTER switch down to the "TONE & FILTER" position.

The strength of low-frequency sound such as is produced by a bass is adjusted with the BASS control. Turning it clockwise from the center emphasizes the lows; turning it counterclockwise de-emphasizes them. Set the BASS Tone Selector to one of its three positions: 600Hz, 300Hz or 150Hz. The selector selects the frequency below which the BASS control functions.

The strength of mid-frequency sound such as is produced by a singer's vocal chords is adjusted with the MIDRANGE control. Turning it clockwise from the center emphasizes the midrange, and turning it counterclockwise de-emphasizes them. The frequency at which the MIDRANGE control functions is 1kHz.

Likewise, the strength of high-frequency sound such as generated by cymbals is adjusted with the TREBLE control. Operation is the same as for the BASS and MIDRANGE controls. The TREBLE Tone Selector selects the frequency (2kHz, 4kHz or 8kHz) over which the TREBLE control functions.

•When you do not want to adjust the tone control itself to have a flat response, set the TONE & FILTER switch to the DEFEAT position. Or when you do not want to adjust the tone control itself but do want to eliminate low- or high-frequency noise, set the switch to the FILTER ONLY position. In the DEFEAT position, the entire tone control and filter circuits are separated irrespective of positions of triple tone controls and filter switches.

(15) LOUDNESS Switch

The human ear becoms insensitive to the lows and highs as sound volume is reduced. So you may feel a loss of highs and lows (especially lows) when listening at a low-volume level. The loudness circuit accents the highs and lows properly to render the reproduced sound more realistic. Setting the LOUDNESS switch to the LOW BOOST position accents only the lows; setting it to the HIGH & LOW BOOST position accents both the highs and lows.

ELIMINATING NOISE (16) LOW FILTER Switch (17) HIGH FILTER Switch

To use the FILTER switches, set the TONE & FILTER switch to FILTER ONLY. To use the FILTER switches and TONE controls, set it to TONE & FILTER.

Set the LOW FILTER switch to 60Hz or 20Hz to eliminate disturbing low-frequency noise such as hum or rumble of your turntable motor. Setting the switch to 60Hz or 20Hz cuts the low-frequency noise below that frequency.

Set the HIGH FILTER switch to 7kHz or 12kHz to eliminate disturbing high-frequency noise such as the surface scratches of a worn record, hiss from a recorded tape or as the fluorescent lamp noise mixed in radio broadcasts. Setting the switch to 7kHz or 12kHz cuts the high-frequency noise above that frequency.

•Set the filter switches to the OUT position when the high- or low-frequency noise is not irritating.



 Turn the SELECTOR switch to PHONO-1 (or -2) to play records, or to TUNER to hear radio broadcasts.
 Operate your turntable to play records, or your tuner to receive the desired station.

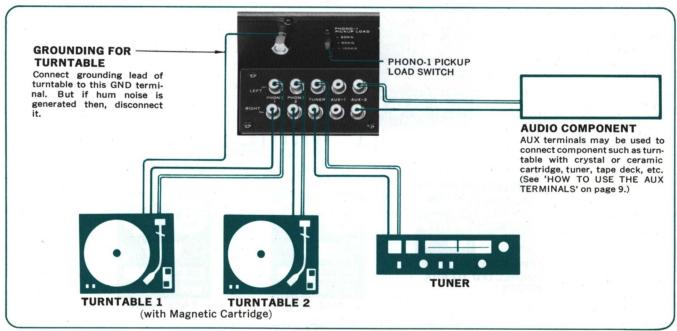
3. Adjust the various other controls and switches to suit the type of program source you are going to hear.

PHONO-1 PICKUP LOAD SWITCH

The input impedance of the PHONO-1 circuit (or the load resistance of the connected cartridge) can be switched over from $30k\Omega$ to $50K\Omega$ to $100K\Omega$ with the PHONO-1 PICKUP LOAD switch on the rear panel. Its purpose is to match the approved load resistance of the cartridge in use, since different cartridges have different load resistance values and since the magnitude of the impedance of a phono input circuit affects the level of high-frequency sound among other things. Switch it over to find the most appropriate impedance of the cartridge in use.

Most cartridges have a load resistance value of $50K\Omega$, which is why the input impedance of the PHONO-2 circuit is also $50K\Omega$. If you have connected your turn-table to the PHONO-1 circuit and find little difference in the reproduced tone quality as you change over the PHONO-1 PICKUP LOAD switch, leave the switch at the $50k\Omega$ position.

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TAPE PLAYBACK AND RECORDING



PLAYBACK PROCEDURE

1. Set the set's TAPE PLAY switch to either TAPE DECK-1 or TAPE DECK-2, depending on which tape play circuit is connecting the tape deck in use.

2. Operate the tape deck to start playback.

3. Adjust the various other controls and switches to suit the type of program source you are going to hear. **RECORDING PROCEDURE**

1. Prepare the program source you wish to record and keep it ready to go. The SELECTOR switch must be adjusted.

2. Operate the tape deck and start recording. Adjust the record levels with controls provided on the tape deck. The volume and tone controls on the set do not affect the sound to be recorded.

3. To monitor the sound being recorded, follow the same procedure as for playback after making certain that the tape deck itself is adjusted to permit monitoring. If the tape deck only has a combined record/playback head, set the TAPE PLAY switch to the SOURCE position and hear the sound before it is recorded.

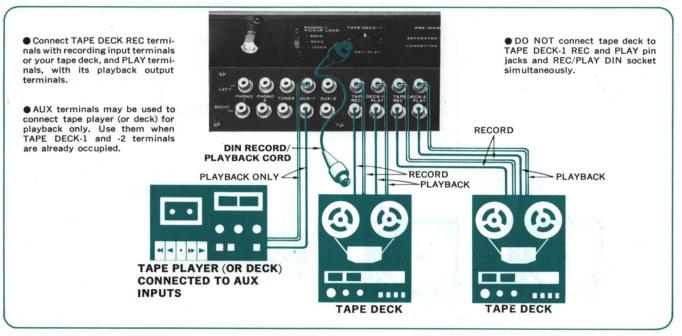
HOW TO USE THE AUX TERMINALS

The term AUX is an abbreviation for auxiliary. If your turntable has a crystal or ceramic cartridge, it should be connected to the AUX terminals.

The AUX terminals have the same electrical function as TAPE DECK PLAY terminals. So you can connect a tape deck or player to them if your TAPE DECK PLAY terminals arealready occupied. Playback function will be obtained.

A tuner or an amplifier-equipped adaptor may also be connected to the AUX terminals. The AUX terminals have an input sensitivity of 100 millivolts. So most audio components having an output voltage of 100 millivolts or more can be connected. If you are not certain whether you can connect a particular component to the AUX terminals, look up its operating manual or specifications.

CONNECTIONS



COPYING A RECORDED TAPE



1. To undertake tape-to-tape dubbing:

Set the TAPE PLAY switch to the COPY 1▶2/DECK-1 position when you are dubbing a tape deck (in playback mode), connected to the rear-panel TAPE DECK-1 terminals, onto another tape deck (in record mode), connected to the rear-panel TAPE DECK-2 terminals.

When you dubbing a tape deck (in playback mode), connected to the rear-panel TAPE DECK-2 terminals, onto an other tape deck (in record mode), connected to the rear-panel TAPE DECK-1 terminals, set the switch to the COPY 2 1/DECK-2 position.

2. Operate the tape decks and start recording. Adjust the record levels with controls provided on the tape deck in record mode. Controls and switches on the set do not affect the recording.

3. To hear or monitor the signals just recorded, turn the TAPE PLAY switch to the position of the tape deck in record mode, COPY 1▶2/DECK-2 (when you are dubbing from Deck 1 to 2) or COPY 2▶1/DECK-1 (from Deck 2 to 1).

●Monitoring is possible only if the tape deck in record mode is equipped with separate record and playback heads; do not turn the TAPE PLAY switch to COPY 1▶2/ DECK-2 or COPY 2▶1/DECK-1 if that tape deck is equipped with a record/playback combination head. This is further explained in the table below.

CONNECTING TWO OR MORE TAPE DECKS

This set is provided with two tape record/playback circuits. Both, TAPE DECK-1 and TAPE DECK-2 terminals, have identical functions and specifications. When conneting two tape decks, in addition to recording or reproducing either tape deck, you can dub a tape on one tape deck onto another by simply setting the TAPE PLAY switch to the appropriate position.

A third tape deck may be connected to the AUX-1 or AUX-2 terminals on the rear panel for playback. Then a tape on that tape deck can be dubbed onto the tape decks, connected to the TAPE DECK-1 or -2 terminals on the rear panel. Turn the set's SELECTOR switch to AUX-1 or AUX-2 and follow the procedures in the section "TAPE PLAYBACK AND RECORDING" on the preceding page.

• Do not connect tape decks to the TAPE DECK-1 terminals and DIN socket on the rear panel simultaneously.

Mode of Each Connected Tape Deck					
TAPE DECK-1 inputs	TAPE DECK-2 inputs	Position of TAPE PLAY Switch	You Hear:		
PLAYBACK	RECORD	COPY 1▶2/DECK-1	Sound being recorded.		
		COPY 1▶2/DECK-2	Sound just recorded.*		
RECORD	PLAYBACK	COPY 2▶1/DECK-1	Sound just recorded.*		
		COPY 2▶1/DECK-2	Sound being recorded.		
AUX-1 or AUX-2 inputs	DECK-1 or DECK-2 inputs	Position of TAPE PLAY Switch	You Hear:		
PLAYBACK	RECORD	SOURCE	Sound being recorded.		
	RECORD	DECK-1 or DECK-2	Sound just recorded.*		

OPERATING TAPE PLAY SWITCH FOR COPYING A RECORDED TAPE

*Monitoring is possible only if the tape deck in record mode is equipped with separate record and playback heads.

CONDITIONS MISTAKEN FOR BREAKDOWNS

PROGRAM SOURCE	SYMPTOM	PROBABLE CAUSE	WHAT TO DO		
TUNER	* Noise during AM recep- tion.	* Interference by adjacent sta- tions. (Called beat interfer- ence.)	* Peculiar to AM waves, and unavoid- able to some extent.		
		* TV set is being used simulta- neously.	* Move TV set away from tuner and set.		
	* Noise heard at certain hours, in certain areas or over part of dial during AM reception.	* Interference by nearby elec- trical 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 re- ception.	* Ignition noise from nearby automobile, motorcycle, etc.	 * Adjust antenna location and height for maximum sensitivity. * Keep antenna away from streets. 		
		Note: In many cases, high-frequency noise during radio reception cannot be entirely eliminated. Try turning on set's HIGH FILTER switch or turning TREBLE control counterclockwise.			
TURNTABLE	* Hum noise.	* Unshielded cables used to connect turntable.	* Use regular shielded cables.		
		* Minus (ground) wire of con- necting cable is not connect- ed completely.	* Examine connecting cables, especial- ly their plugs.		
		* Turntable motor or tonearm is not grounded.	* Connect grounding lead of turntable to set's GND terminal.		
	* Loud oscillating noise.	*Turntable is placed on top or too close to speaker sys- tems.	 * Place thick cushion between turnta- ble and speaker system. * Change location of turntable and speaker systems. 		
	* Sound is shaky.	* Dust on record or pickup stylus.	* Clean record and pickup stylus.		
		* Worn pickup stylus. * Improper stylus pressure.	* Replace pickup stylus. * Adjust stylus pressure.		
TAPE DECK	* Hiss noise.	* Magnetic heads are magne- tized.	* 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 set's BALANCE control, it does not come to center position.	 * Left and right channel signal strengths vary with program source. * Left and right speaker sys- tems have different efficien- cy. 	* Never mind. Optimum stereo effectis obtained by adjusting BALANCI control so that sound comes from midway point between two speake systems.		
	* Musical instruments and singer not located clearly.	*Left-right, plus-minus con- nections of speaker systems input cables are wrong.	* Examine connections once more.		

11-

CONNECTION CORDS

Be sure to connect your turntable, tape deck and speakers firmly. Be careful that the connection plugs are not loose from the jacks or the leads of the connection cords are not touching other parts. If the connections are imperfect, noise may be generated and, eventually, the set may break down. It is advisable to follow the instructions given by the manufacturer of the equipment you are connecting.

CONNECTION CORDS WITH RCA TYPE PLUGS: These are shielded cords with an RCA type plug soldered to each end. They are used to connect a turntable, tape deck and other program source components. Try to keep the cords as short as possible. If you use long cords, the high-frequency signals tend to be attenuated. Their maximum length should be two meters (7 feet). If such cords are already supplied with your tape deck or turntable, it is advisable to use them.

DIN RECORD/PLAYBACK CORD: This is a combined 2-channel stereo record/playback cord, standardized in Germany. This set has a special 5-pin socket marked TAPE REC/PLAY on the rear panel to accept such a cord. It can be used only if your tape deck has an identical socket.

PVC CORDS: These are used to connect your speakers, and are basically the same type of vinyl-covered cords as the power cords from your TV set or radio. Peel the vinyl covering off each end of the cord, carefully interwine the lead wires, then connect it to your speaker and the set. To prevent mis-connection, it is advisable to paint-color to each cord. Color-coded cords are available at some appliance stores.

SHORT-CIRCUIT PIN PLUGS

When you unpack the set, you'll find special pin plugs inserted into the PHONO-2 jacks. Their function is to short-circuit the plus and minus terminals of the input circuit and thus prevent any noise from being generated by them when these jacks are not in use. Therefore, if you use the PHONO-2 jacks, re-position these plugs into the PHONO-1 jacks. Or, when both PHONO-1 and PHONO-2 jacks are used, keep them elsewhere for later use. Do NOT insert them into the output jacks (such as TAPE REC), or the sound from the set will be cut off.

PRE/MAIN SEPARATE SWITCH

On this set the output terminals of the preamplifier and the input terminals of the power amplifier are connected by the PRE/MAIN separate switch. To slide it to the "SEPARATED" position separates the preamplifier from the power amplifier, allowing you to use them independently. If you are not going to connect an external preamplifier or power amplifier (or some other additional unit) to these terminals, be sure to keep the switch to the "CONNECTED" position. Also, whenever you try to slide the switch, be sure to turn the set's POWER switch off beforehand.

The separation of the preamplifier and the power amplifier offers a number of useful applications. One of them is a so-called electronic crossover system. In this system, each speaker unit (woofer, midrange, tweeter, etc.) in each speaker system will be driven by a separate power amplifier. But, to do this, you will first need an electronic crossover divider. And, of course, you will need one or two stereo power amplifiers in addition to the set's own power amplifier, depending on whether you wish to build a 2-way or 3-way electronic cross-over system. The speaker systems, of course, must also be 2-way or 3-way. Once all these components are ready, slide the PRE/MAIN separate switch to the "SEPARATED" position, and connect the input terminals of the electronic crossover unit with the PRE OUT terminals of the set, and the output terminals of the crossover unit with the MAIN IN terminals of the set. Connect the additional amplifier(s) so the electronic crossover unit, and finally, connect the output terminals of the amplifier(s) to each speaker unit.



PRE/MAIN SEPARATE SWITCH

MAIN (POWER) AMP. INPUTS OF THIS SET PRE AMP. OUTPUTS OF THIS SET

BEFORE SENDING THE SET OUT FOR SERVICING

Some of the symptoms and conditions which seem to indicate a breakdown of the set are caused by wrong operation or by external components. These can be spotted with a simple examination and restored to normal. If you suspect a breakdown, please confirm the connections and your operating procedure once more. Here are some useful hints:

First, if you hear absolutely no sound from the set, inspect your turntable, tape deck and other program source components, then examine this set and your speakers in that order, paying attention to both their connections and operation. Be sure to reduce the volume beforehand.

Second, if the sound fails to come out only when you play records, reproduce a recorded tape or receive broadcasts, then chances are that only the particular program source component may be wrongly connected.

If loud hum noise of constant loudness is heard, it may be suppressed by connecting the grounding lead or terminal of your turntable or tape deck to the set's GND terminal, using PVC cord. Or, more simply, reversing the connection between the set's power cord plus and the wall AC outlet may stop it.

CHECK LIST OF OPERATION

1. Is the power switch turned on?

2. Is TAPE PLAY switch set to SOURCE when you do no wish to reproduce a recorded tape?

3. Is the SELECTOR switch turned to the correct position?

4. Is the volume control turned to an appropriate level?

CHECK LIST OF CONNECTIONS

1. Is the power cord inserted into a wall AC outlet?

2. Are the connection cords for your turntable and tape deck loose or touching some other object? Are you using shielded cords?

3. Are the speaker connection cords loose from set or your speakers?

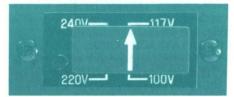
After you have made the above examination and made the required corrections, if the set fails to operate normally, there may be something wrong with the set itself. In such a case, please contact the dealer from whom you purchased it or your nearest SANSUI AUTHORIZED SERVICE STATION.

ABOUT THE VOLTAGE ADJUSTMENT

Your set 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 panel, then set the arrow mark on the Voltage Selector Plug to the correct voltage indication (100, 117, 220 or 240 volts). It may be necessary to replace the power fuse as well whenever the voltage has changed. For operation at 100 to 117 volts, use a 6-ampere fuse. For operation at 220 to 240 volts, use a 3-ampere one.



SHOULD THE POWER FUSE BLOW

If no Power Indicator should glow and the set simply remains dead even after you have turned on its POWER switch, it is possible that 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 glass-tubed fuse of the rated capacity (6-ampere for 100 to 117 volts, 3-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.

SPECIFICATIONS

POWER OUTPUT (at rated distortion) CONTINUOUS RMS POWER OUTPUT (both channels driven) LOAD IMPEDANCE......80 POWER BAND 20 to 20,000Hz TOTAL HARMONIC DISTORTIONless than 0.1% (from AUX) Music power (IHF)......250W (4Ω 1,000Hz) 140W (8Ω 1.000Hz) Continuous rms power output $..55+55W (8\Omega 1,000Hz)$ INTERMODULATION DISTORTION (at rated power output 70Hz: 7,000Hz=4: 1 SMPTE method) OVERALLless than 0.15% PREAMPLIFIER ONLY less than 0.1% POWER (MAIN) AMPLFIER ONLYless than 0.1% FREQUENCY RESPONSE (at 1 Watt output) OVERALL10 to 50,000Hz ^{+0.5}₋₁dB POWER (MAIN) AMPLIFIER ONLY5 to 50,000Hz ⁺⁰₋₁dB EQUALIZATION (RIAA curve) 30 to 15,000Hz ±0.5dB DAMPING FACTOR $\ldots 30 (8\Omega)$ INPUT SENSITIVITY AND IMPEDANCE (1KHz, for rated power output) PHONO-12.5mV 30KΩ, 50KΩ, 100KΩ adjustable PHONO-2 2.5mV 50KΩ (Max. input capability: 300mV at 0.2% total harmonic distortion) AUX-1 & -2100mV 50KΩ TAPE DECK-1 & -2 (Pin Jacks)....100mV 50KΩ TAPE DECK-1 (DIN Socket) 100mV 50KΩ OUTPUT LEVEL (1KHz) TAPE DECK-1 & -2 (Pin Jacks)....100mV TAPE DECK-1 (DIN Socket).....30mV PRE OUT800mV (Max. output level: 5V at 0.5% total harmonic distortion)

CHANNEL SEPARATION (1KHz, for rated power output) PHONO-1 & -2better than 50dB TUNERbetter than 55dB AUX-1 & -2 better than 55dB TAPE DECK-1 & -2.....better than 55dB MAIN IN better than 60dB HUM AND NOISE (IHF) PHONO-1 & -2better than 75dB TUNER better than 85dB AUX-1 & -2 better than 85dB TAPE DECK-1 & -2 better than 85dB MAIN INbetter than 100dB SWITCHES AND CONTROLS BASS (± 5 steps).... ± 13 dB at 50Hz TONE SELECTOR (TURNOVER FREQUENCIES)150Hz, 300Hz, 600Hz MIDRANGE (±5 steps)..±5dB at 1KHz TREBLE (± 5 steps).... ± 13 dB at 15KHz TONE SELECTOR (TURNOVER FREQUENCIES)2KHz, 4KHz, 8KHz LOUDNESS (Volume Control: -30dB) LOW BOOST+10dB at 50Hz HIGH & LOW BOOST ... + 10dB at 50Hz +8dB at 10kHz LOW FILTER-3dB at 20Hz (12dB/oct.) -3dB at 60Hz (12dB/oct.) HIGH FILTER-3dB at 7KHz (6dB/oct.) -3dB at 12KHz (12dB/oct.) MUTING-30dB, -15dB POWER REQUIREMENTS . . 100, 117, 220, 240V 50/60Hz POWER CONSUMPTION. 120W (rated), 350W (max.) DIMENSIONS 434mm (17 1/8") W 130mm (5 1/8") H 315mm (12⁷/₁₆") D

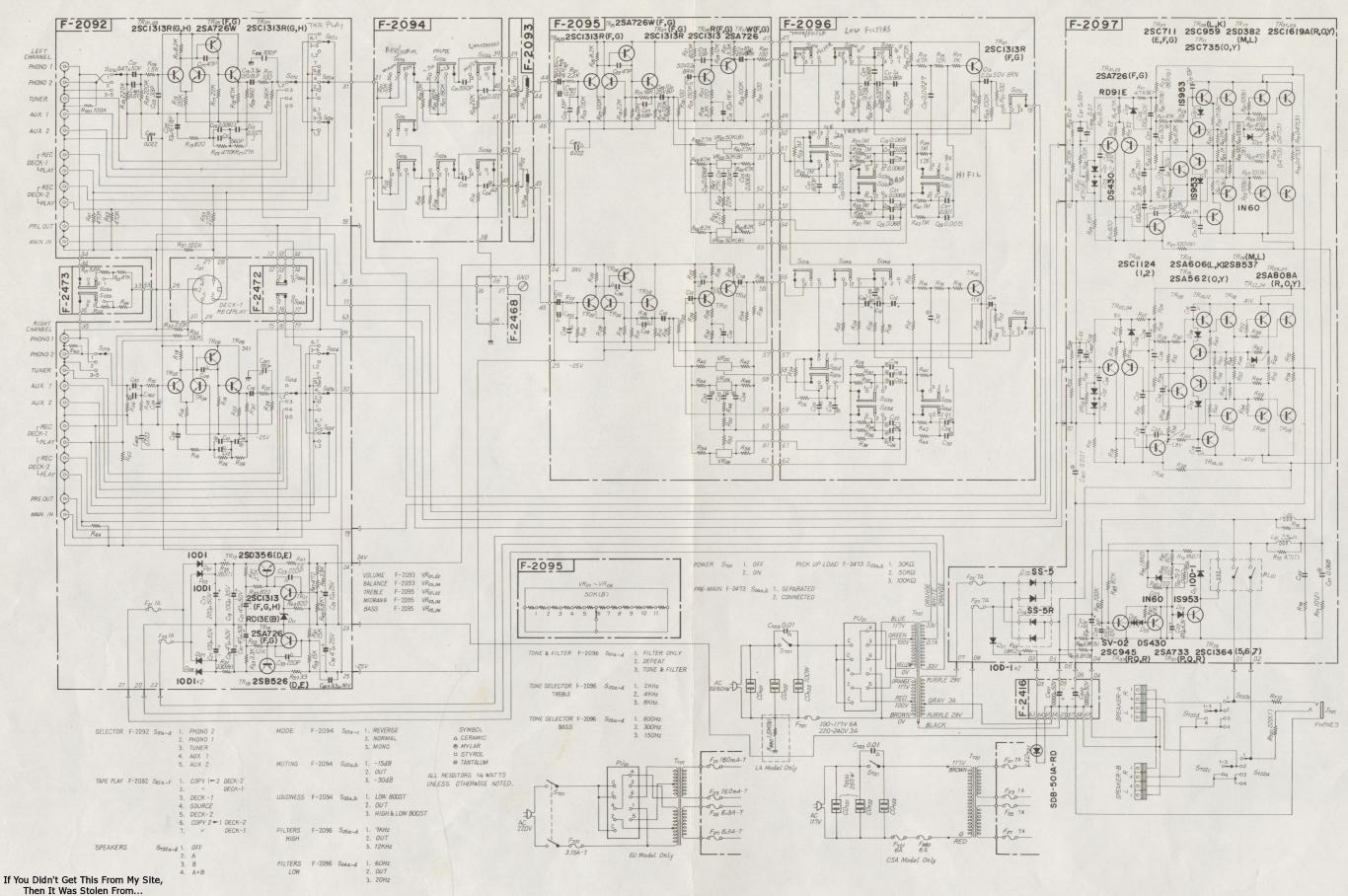
 Design and specification subject to change without notice for improvements.

LIST OF ACCESSORIES

- 1. PIN JACK COVER...... 9
- 2. OPERATING INSTRUCTIONS 1
- 3. OPERATING INSTRUCTIONS SHEET 1

Operating Instructions Stock No. 9208250

SANSUI AU-7700 SCHEMATIC DIAGRAM.



www.SteamPoweredRadio.Com



SANSUI ELECTRIC CO., LTD. 14-1, 2-chome, Izumi, Suginami-ku, Tokyo 168, Japan. TELEPHONE: (03) 323-1111 /TELEX: 232-2076

Printed in Japan (84M200)

If You Didn't Get This From My Site, Then It Was Stolen From... www.SteamPoweredRadio.Com

CAUTION CARD

- 1. Never expose this amplifier to direct sunlight. Keep away from all thermal sources and heat generators.
- 2. Before turning the amplifier on, be sure the lead wires from the speakers are properly connected at both output and input terminals.
- 3. Before turning the amplifier on, be sure that all connections antennas, pin-jacks, wires, etc. — are properly made for whatever component or program source to be employed.
- 4. Always minimize the amplifier's Volume Control when using the function Selector Switch or when turning on components. When changing connections between the amplifier and components, it is strongly recommended that the amplifier's AC power cord be removed from its AC outlet.
- 5. If there is no sound from the speakers, or the sound is distorted, turn down the Volume Control and disconnect the amplifier's AC power supply cord. Then trace the source of the trouble with the aid of the Operating Instruction supplied.
- 6. Never connect two or more speakers to one terminal. Doing so will cause serious damage.

note:

For correct operation, follow our Operating Instructions manual.

MODEL:

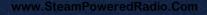
SERIAL NO: 814090451

AU-7700

PRINTED IN SAPAN SECOND

INTERNATIONAL

Applicable only for Sansui products purchased in one country and presented for servicing in another. When no international shipment or travel is involved, only the original dealer's Warranty is applicable.



SANSUI INTERNATIONAL WARRANTY

SANSUI ELECTRIC COMPANY, LTD., warrants all Sansui products purchased in one country and taken abroad against defects in materials and workmanship for the period(s) enumerated under "Terms of Warranty" from the original purchase date. Provided that the holder bears all costs for insuring the safe delivery and return of his equipment to and from the nearest authorized Sansui service station, repairs and parts replacement will be made without charge anywhere in the world, subject to the following exceptions:

- 1. Failure to present both sales slip (or its equivalent) and this Warranty card.
- 2. Breakdowns or damage due to careless handling, negligence, accidents, abuse or failure to follow operating instructions furnished by Sansui.
- 3. Breakdowns caused by other appliances.
- 4. Breakdowns or damage due to natural disasters, acts of war or public disturbances.
- 5. Repairs, alignments, alterations or tampering with the product by individuals or service stations other than those specifically designated by Sansui in the accompanying list of International Authorized Service Stations.
- 6. Breakdowns or damage due to packaging and shipment in containers other than those provided or designated by Sansui.
- 7. Equipment with serial numbers altered or removed.

Products to which the above exceptions apply will be serviced at cost to the owner.

PRODUCTS	FREE LABOR	FREE PARTS	EXCEPTIONS
Receivers, Tuners & Amplifiers	12 Months	24 Months	A
4-Channel Synthesizer Decoders	12 Months	24 Months	А
Electronic Crossover Units	12 Months	24 Months	A
Reverberation Amplifiers	12 Months	24 Months	А
Turntables	12 Months	12 Months	В
Speaker Systems	12 Months	12 Months	С
Stereo Headphones	12 Months	12 Months	2
Stereo Systems	12 Months	12 Months	D
Tape Decks & Recorders	6 Months	12 Months	E

TERMS OF WARRANTY

A. With the exception of panels, knobs, bonnet, smoked plate and dial glass.

B. With the exception of stylus, knobs, head shell, acrylic dust cover and all wooden parts.

C. With the exception of all wooden parts.

D. With the exception of all wooden parts, panels, knobs, smoked plates, dial glass, head shell and stylus.

E. With the exception of all wooden parts, panels, knobs, smoked plates, meter covers, dust covers,

tape heads, and all other parts listed as accessories.

This International Warranty is in lieu of all other Warranties expressed, implied or statutory and is made on the express understanding that it may be invoked only by the original purchaser and covers only those Sansui products purchased in one country and presented for servicing and/or repairs in another.

Proof of date of purchase is considered to be a responsibility of the customer and must be presented when applying for In-Warranty Service at an authorized SANSUI Service Station.

IMPORTANT KEEP YOUR SALES SLIP HERE

www.SteamPoweredRadio.Com



SANSUI ELECTRIC CO., LTD./SANSUI ELECTRONICS CORP. AUTHORIZED SERVICE STATIONS IN U.S.A. & CANADA



ALABAMA

AUDIO SERVICE COMPANY 1900-B 11th Avenue, South Birmingham, Ala. 35205 TELEPHONE: (205) 328-7656

B & W ELECTRONICS 708 Glover Avenue, Enterprise, Ala. 36330 TELEPHONE: (205) 347-1109, (205) 347-0525

C & H TV SERVICE 200 Mulberry Street, Montgomery, Ala. 36106 TELEPHONE: (205) 264-6060

ELECTRO-MED SERVICE, INC. 1301 South Court Street, Montgomery, Ala. 36104 TELEPHONE: (205) 263-4849

FRANK KELLAR ELECTRONICS 134 North Beltline Highway, Mobile, Ala. 36607 TELEPHONE: (205) 471-2518

STEREO SERVICE 3804 Governers Drive, West Huntsville, Ala. 35805 TELEPHONE: (205) 536-3011

STEREO SERVICE OF MONTGOMERY 3853 South Court Street, Montgomery, Ala. 36105 TELEPHONE: (205) 264-8949

WINTER ELECTRONICS 1431 Parkview Plaza, Tuscaloosa, Ala. 35401 TELEPHONE: (205) 752-7524

ALASKA

MOTION PICTURE SERVICE, INC. 104 West Northern Lights, Anchorage, Alas. 99503 TELEPHONE: (907) 272-7623

ARIZONA

CONKLIN AUDIO 2323 South Craycroft, Tucson, Ariz. 85711 TELEPHONE: (602) 790-1014

DYNATRONICS 1610 East Maryland, Phoenix, Ariz. 85016 TELEPHONE: (602) 279-4176

ELECTRONIC ENGINEERING SERVICE 766 West Main Street, Mesa, Ariz. 85201 TELEPHONE: (602) 964-2741

EMMETT RESEARCH LABS 1309 East McDowell Road, Phoenix, Ariz. 85006 TELEPHONE: (602) 253-3105

THE D/M STEREO SERVICE CNT. 1108 South Columbus Blvd., Tucson, Ariz. 85711 TELEPHONE: (602) 325-3631

ARKANSAS

MODERN ELECTRONICS 2517 Towson Avenue, P. O. Box 1586, Fort Smith, Ark. 72901 TELEPHONE: (501) 783-5813 JOHN GOSS ELECT./ENG. 808 North College, Fayetteville, Ark. 72701 TELEPHONE: (501) 521-4931

CALIFORNIA

AUDIO EMPORIUM 20864 Redwood Road, Castro Valley, Calif. 94546 TELEPHONE: (415) 582-0333

AUDIO INSTRUMENTS 1355 El Camino Real West, Mountain View, Calif, 94040 TELEPHONE: (415) 948-3861

AUDIO REPAIR SERVICE 4404 52nd Street, San Diego, Calif. 92115 TELEPHONE: (714) 582-7560

AUDIOTRONIX 2440 South Saviers Road, Oxnard, Calif. 93030 TELEPHONE: (805) 487-6609

AUTHORIZED TV SERVICE COMPANY 280 North Main Street, Pomona, Calif. 91768 TELEPHONE: (714) 629-5084

BILLS "HOUSE OF NATURAL SOUND" 5261 East Beverly Blvd., Los Angeles, Calif. 90022 TELEPHONE: (213) 685-6748

CERTIFIED ELECTRONICS SERVICENTER 2533 South Robertson Blvd., Los Angeles, Calif. 90034 TELEPHONE: (213) 553-1800

CONSUMER WARRANTY SERVICE 18167 Chatsworth Street, Granada Hills, Calif. 91344 TELEPHONE: (213) 363-3311

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ELECTRO TECH SERVICE COMPANY 651 North Main Street, Orange, Calif. 92668 TELEPHONE: (714) 633-9960

E Z RADIO & TV 2305 Artesia Blvd., Redondo Beach, Calif. 90278 TELEPHONE: (213) 370-0086

FUJI TV 15754 East 14 th Street, San Leandro, Calif. 94578 TELEPHONE: (415) 276-8404

KARL'S STEREO HIGH FIDELITY SERVICE 1616 Chelsea Road, San Marino, Calif. 91180 TELEPHONE: (213) 282-6787

L & M ELECTRONICS 2401 Geneva Avenue, Daly City, Calif. 94014 TELEPHONE: (415) 586-1840

LEWTON'S INC. 4255 University Avenue, San Diego, Calif. 92105 TELEPHONE: (714) 284-9258 MAUSSER TV 2 Poinsettia Avenue, San Mateo, Calif. 94403 TELEPHONE: (415) 345-5764

M-G⁻ 1023 North La Brea Avenue, Inglewood, Calif. 90302 TELEPHONE: (213) 672-5444

ONE STOP TV & HI-FI SERVICE CENTER 644 South Winchester, San Jose, Calif. 95128 TELEPHONE: (408) 243-5100

PERSONAL RECORDER SERVICE 2100 28 th Street (Corner of U Street), Sacramento, Calif. 95818 TELEPHONE : (916) 452-5251

PHOTO ELECTRONICS 1243 University Avenue, San Diego, Calif. 92103 TELEPHONE: (714) 298-6651

PRO-AUDIO ELECTRONICS 383-40 th Street, Oakland, Calif. 94609 TELEPHONE: (415) 654-6630

SOUND SERVICE CENTER 21525 Sherman Way, Canoga Park, Calif. 91303 TELEPHONE: (213) 883-8884

SOUND TECH LAB 5023 Stockton Blvd., Sacramento, Calif. 95822 TELEPHONE: (916) 455-6347

STEPHENSON BRADFORD SOUND & SERVICENTER 5243 North Blackstone, Fresno, Calif. 93110 TELEPHONE: (209) 431-1220

STEREO SERVICE CENTER 9306 1/4 East Firestone Blvd., Downey, Calif. 90241 TELEPHONE: (213) 862-1211

VECTRA CORPORATION 420 Olive Avenue, Vista, Calif. 92083 TELEPHONE: (714) 724-5556

VINNICK'S AUDIO SERVICE 5065 Hedrick Avenue, Riverside, Calif. 92505 TELEPHONE: (714) 688-1228

WHITEY'S ELECTRONICS 304 West Third Street, Santa Ana, Calif. 92701 TELEPHONE: (714) 543-1805

WILSHIRE ELECTRONICS 7161 Beverly Blvd., Los Angeles, Calif. 90036 TELEPHONE: (213) 937-1164

COLORADO

A. B. & K. SERVICE, INC. 1459-61 South Pearl Street, Denver, Colo. 80210 TELEPHONE: (303) 777-4408

APPLIANCE TELEVISION SERVICE COMPANY 3715 Sinton Road, Colorado Springs, Colo. 80901 TELEPHONE: (303) 473-2120

AUDIOTRONIX, INC.

309 Main Street, Grand Junciton, Colo. 81501 TELEPHONE: (303) 243-6226

BILL COOK RADIO & TV 110 West 12 th Street, Pueblo, Colo. 81003 TELEPHONE: (303) 545-0965

To be continued

E D S INC. 716 West Brookside, Colorado Springs, Colo. 80906 TELEPHONE: (303) 471-1196

FISHER'S ELECTRONICS SERVICE 317 North Swope, Colorado Springs, Colo. 80909 TELEPHONE: (303) 473-6444

GREGORIAN ELECTRONICS 126 South Mason, Ft. Collins, Colo. 80521 TELEPHONE: (303) 484-9318

SILEO ELECTRONICS 1965 South Sheridan Blvd., Denver, Colo. 80227 TELEPHONE : (303) 985-8788

SOLID STATE ELECTRONICS 2901 Peak Boulder, Colo. 80302 TELEPHONE: (303) 449-0311

TCS COLOR SPECIALIST 844 South Havana Aurora, Colo. 80012 TELEPHONE: (303) 364-9326

TELEDYNE 454 South Federal, Denver, Colo. 80219 TELEPHONE: (303) 935-2455

WESTERN REPAIR COMPANY 1800 Franklin Street, Denver, Colo. 80218 TELEPHONE: (303) 321-3211

CONNECTICUT

ANDERS ELECTRONICS 78 Ronald Road, Groton, Conn. 06340 TELEPHONE: (203) 445-0042

AUDIO VIDEO WORKSHOP 175 Rennell Drive, South Port, Conn. 06490 TELEPHONE: (203) 259-3232

EASTERN RADIO & TV 280 Hanover Street, Meriden, Conn. 06450 TELEPHONE: (203) 237-2904

KELLER AUDIO SERVICE 520 West Avenue, Norwalk, Conn. 06850 TELEPHONE: (203) 847-3676

DELAWARE

SOUND REPAIR CENTERS, INC. No. 3, 4004 Dupont Highway, Wilmington, Del. 19806 TELEPHONE: (302) 655-7309

TAPE HUT 3849 Kirkwood Highway, Wilmington, Del. 19808 TELEPHONE: (302) 998-2730

FLORIDA

AEVONE ENTERPRISES, INC. 6113 North 9 th Avenue, Pensacola, Fla. 32504 TELEPHONE: (904) 476-2968

AUDIO-TRONICS P.O. Box 7187-6879 Bakersfield Drive, Jacksonville, Fla. 32210 TELEPHONE: (904) 786-7335 BREVARD ELECTRONICS 545 North Courtenay Parkway, Merritt Island, Fla. 32952 TELEPHONE : (305) 452-5700

ELECTRONIC SERVICE LABS, INC. 2122-B East Colonial Drive, Orlando, Fla. 32803 TELEPHONE: (305) 422-5428, (305) 894-6391

GIBSON AUDIO 16 Walter Martin Avenue, Ft. Walton Beach, Fla. 32548 TELEPHONE: (904) 243-3155

HI-FI SERVICE CENTER, INC. 25 West 12 th Street, Jacksonville, Fla. 32206 TELEPHONE: (904) 354-0491

MAURICE WOOD STEREO & HI-FI CENTER 3953 West Kennedy, Tampa, Fla. 33607 TELEPHONE: (813) 876-1951

S E H ELECTRONIC SERVICE 10812 NW 6 th Court, Miami, Fla. 33168 TELEPHONE: (305) 758-1717

SPECTRUM ELECTRONICS INC. 1113 North Main Street, Gainesville, Fla. 32601 TELEPHONE: (904) 376-5213

SUNCOAST ELECTRONIC SERVICE, INC. 3412 South Dale Mabry, Tampa, Fla. 33609 TELEPHONE: (813) 839-2945

SUNSTATE ELECTRONICS 865 Mason Avenue, Daytona Beach, Fla. 32017 TELEPHONE: (904) 255-5678

TECHNI-SERVICES, INC. 1813 South Dixie, West Palm Beach, Fla. 33401

TELEPHONE: (305) 832-1769

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HENCO ELECTRONICS 2111 Faulkner Road, North East Atlanta, Ga. 30324 TELEPHONE: (404) 321-4550

NORMAN'S ELECTRONICS INC. 4014 Peachtree Road, North East Atlanta, Ga. 30319 TELEPHONE: (404) 237-3349

RADIO DOCTOR 3719 Main Street, Atlanta, Ga. 30337 TELEPHONE: (404) 767-4336

STEREO CLINIC 3122 Roswell Road, Atlanta, Ga. 30305 TELEPHONE: (404) 237-4978

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SANSUI ELECTRONICS CORPORATION HONOLULU BRANCH OFFICE 3036-A Koapaka Street, Honolulu, Hawaii 96819 TELEPHONE: (808) 841-3367

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A Z ELECTRONICS 1626 South Orchard, Boise, Idaho 83705 TELEPHONE: (208) 343-7747

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ALLAN SERVICE CENTER 8141 North Milwaukee, Niles, III. 60648 TELEPHONE : (312) 965-0272, 965-3733

CENTRAL TV 1920 West, Peterson Avenue, Chicago, UI. 60660 TELEPHONE: (312) 338-6000

CERTIFIED TV SERVICE, INC 5044 West Fullerton Avenue, Chicago, III. 60639 TELEPHONE: (312) 889-3232

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ELECTRONIC ENGINEERS, INC 1639 West Evergreen Avenue (1300N), Chicago, III. 60622 TELEPHONE: (312) 227-2600

HILL ELECTRONICS 1351 Manor Court Elgin, III. 60120 TELEPHONE: (312) 695-4520

SOUND LABS 2955 North Central Avenue, Chicago, III. 60634 TELEPHONE: (312) 282-3883

SUNTRONICS 6832 West Archer, Chicago, III. 60638 TELEPHONE: (312) 586-9300

UNICRAFT ELECTRONICS INDUSTRIES 1443 Tonne Road., Elk Grove Village, III. 60007 TELEPHONE: (312) 593-7330

WALLACE ELECTRONICS 4921 North Sheridan Road, Peoria, III. 61614 TELEPHONE: (309) 692-2616

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P.T.S. ELECTRONICS 5233 Highway 37 South, Bloomington, Ind. 47401 TELEPHONE: (812) 824-9931

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A. R. T. ELECTRONICS 1304 State Street, Bettendorf, Iowa 52722 TELEPHONE: (319) 359-1431

FAYETTE ELECTRONICS DIVISION OF WAGNER'S RADIO & TV 112 Main Street, Fayette, Iowa 52142 TELEPHONE: (319) 425-3215 CUSTOM SOUND 4302 University Drive Cedar Falls, Iowa 50631 TELEPHONE: (319) 232-9426

DEANS RADIO & TV 108 Hayward Street, Ames, Iowa 50010 TELEPHONE: (515) 232-0045

PICO ELECTRONICS 942 Cimarron Drive, Davenport, Iowa 52804 TELEPHONE: (319) 324-3178

LOFTUS AUDIO-VISUAL 1015 Eighth Street, Sioux City, Iowa 51105 TELEPHONE: (712) 252-1421

STEREO SERVICE, INC. 1415 Buchanan, Des Moines, Iowa 50316 TELEPHONE : (515) 265-3475

KANSAS

ALEXANDER RADIO & TV 3307 West 6 th Street, Topeka, Kans. 66606 TELEPHONE: (913) 232-2071

D & J ELECTRONICS 324 1-2 North Broadway, Pittsburg, Kans. 66762 TELEPHONE: (316) 231-3553

OWEN CUNNINGHAM 947 South 12 th East, Wichita, Kans. 67206 TELEPHONE: (316) 684-8801

THOMASON RADIO & ELECTRONIC SERVICE 2810 West 53 rd Street, Shawnee-Mission, Kans. 66205 TELEPHONE : (913) 722-5000

KENTUCKY

INDEPENDENT ELECTRONIC SERVICE, INC. 1258 South Shelby Street, Louisville, Ky. 40203 TELEPHONE: (502) 635-6945

LAWSON'S RADIO & TV SERVICE 2815 Ranch Road, Ashland, Ky. 41101 TELEPHONE : (606) 324-0314

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AUDIO & INSTRUMENT ASSOCIATES, INC. 5745 Saint Vincent, Shreveport, La. 71108 TELEPHONE: (318) 868-9577

AUDIOTRONICS CORPORATION 255 West Robert E. Lee Blvd., New Orleans, La. 70124 TELEPHONE: (504) 288-9252

CUSTOM ELECTRONICS OF MET. 4421 Clearview Parkway, Metairie, La. 70002 TELEPHONE: (504) 885-2282/2283

ELECTRONIC SERVICE ASSOCIATES P.O. Box 4306, 8430 Oak. Street, New Orleans, La. 70118 TELEPHONE: (504) 861-9211

THE ELECTRONIC LAB. 3004 Barkdale Blvd., Bossier City, La. 71010 TELEPHONE: (318) 742-2370

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AUDIO CLINC 940 Bonifant Street, Silver Spring, Md. 20910 TELEPHONE: (301) 587-0070

CLAYTON ELECTRONICS 1705 East Joppa Road, Baltimore, Md. 21234 TELEPHONE: (301) 661-6030

ELECTROTECK 6727 Annapolis Road, Landoverhills, Md. 20784 TELEPHONE: (301) 772-7375

ELECTRONIC SERVICE CENTER 1012 4 th Street, Laurel, Md. 20810 TELEPHONE: (302) 725-3223

SERV-A-TRONICS, INC. 146 South Azar Avenue, Glen Burnie, Md. 21061 TELEPHONE : (301) 761-8774

THE ELECTRONIC CLINIC 4916 Del Ray Avenue, Bethesda, Md. 20014 TELEPHONE: (301) 656-8620

RECORD PLAYER SERVICE 901 Silver Spring Avenue, Silver Spring, Md. 20910 TELEPHONE: (301) 588-8666

MASSACHUSETTS

AUDIO SERVICE, INC 73 River Street, Waltham, Mass. 02154 TELEPHONE: (617) 891-0224

CENTRAL ELECTRONIC SERVICE COMPANY, INC. 170 Worchester Road Route 9 at Route 128, Wellesley, Mass. 02181 TELEPHONE: (617) 235-5601

CUSTOM ELECTRONICS, INC. 238 Exchange Street, Chicopee, Mass. 01013 TELEPHONE: (413) 592-4761

ELECTRONIC SERVICE CENTER 39 Hollis Street, East Pepperell, Mass. 01437 TELEPHONE : (617) 433-2723

HIGH FIDELITY SERVICE CENTER 127-129 Brighton Avenue, Allston, Mass. 02134 TELEPHONE: (617) 254-2866

MICHIGAN

ARMBURST ELECTRONICS SERVICE INC. 2346 South Division, Grand Rapids, Mich. 49507 TELEPHONE: (616) 452-2032

AUDIO UNLIMITED 323 East Hoover, Ann Arbor, Mich. 48104 TELEPHONE: (313) 769-3500

GENESEE COUNTY APPLIANCE & ELECTRONICS SERVICE, INC. 3728 Robert Longway Blvd., Flint, Mich. 48506 TELEPHONE: (313) 743-8750

INTERCITY ELECTRONICS 9915 Whitier, Detroit, Mich. 48224 TELEPHONE: (313) 372-4114 NORWEST TELEVISON SERVICE A-1 NORTHWEST TAPE RECORDER 15736 West Seven Mile Road, Detroit, Mich. 48235 TELEPHONE: (313) 838-1564

SOLID STATE SERVICE 3771 North Michigan Saginaw, Mich. 48604 TELEPHONE: (517) 752-0606

MINNESOTA

AUDIOPHILE STEREO SERVICE 3140 Snelling Avenue, South Minneapolis, Minn. 55406 TELEPHONE : (612) 729-2503

COMPONENT ASSEMBLERS 17225 Round Lake Blvd., Anoka, Minn. 55303 TELEPHONE : (612) 421-2272

COMM TRONICS 108 West Poplar Street, Mankato, Minn. 56001 TELEPHONE: (507) 387-8291

MISSISSIPPI

CHALMERS ELECTRONICS 921 Caillavet Avenue, Biloxi, Miss. 39530 TELEPHONE: (601) 435-5466

MISSOURI

D. C. DANDO ELECTRONICS 8033 Ward Parkway Plaza, Kansas City, Mo. 64114 TELEPHONE: (816) 361-6733

COUNTY ELECTRIC COMPANY 40 West Lockwood Street, Louis, Mo. 63139 TELEPHONE: (314) 962-5400

LINDER RADIO COMPANY 854 South Glenstone, Springfield, Mo. 65802 TELEPHONE: (417) 865-1200

MONTANA

ELECTRONIC SERVICE & DIST., INC. 27 South Willson, Bozeman, Mont. 59715 TELEPHONE: (406) 587-4466

PETERSON'S AUDIO SERVICE 211 11 th Street, Billings, Mont. 59102 TELEPHONE: (406) 259-6365

NEBRASKA

BOB'S INDUSTRIAL ELECTRONICS 1720 North Sherman Avenue, North Platte, Nebr. 69101 TELEPHONE: (308) 532-8017

HI PIX STEREO SERVICE 3427 South 42 nd Street, Omaha, Nebr. 68105 TELEPHONE : (402) 551-1210

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