OPERATING INSTRUCTIONS & SERVICE MANUAL

AM/FM STEREO RECEIVER

SANSUI 3300





SANSUI ELECTRIC CO., LTD.

Congratulations on joining the thousands of proud, satisfied owners of quality stereo components from Sansui, the audio specialist.

In many ways, the 3300 is a culmination of Sansui's long experience and arduous research in the design and manufacture of quality audio equipment. Its tuner section features an FET-equipped sensitive FM frontend and a ceramic filter and IC-equipped FM IF amplifier for exceptional selectivity and superb tonal quality. Its amplifier section is a masterpiece designed, tested and proven to bring out every delicate shade of original sound most faithfully, whatever the program source. In addition, it is equipped with virtually all switches, controls, inputs and outputs that you would ever need to enjoy today's most advanced high fidelity sound reproduction.

So that you can take maximum advantage of its versatility and high performance, may we suggest that you read this manual once carefully? Our past servicing records indicate that most requests for servicing were simply a result of wrong operation. Should you ever encounter an apparent fault of the receiver (such as the absence of sound), please examine the various required connections and your operating procedure once by consulting this manual.

CONTENTS

SWITCHES AND CONTROLS	3, 4
SETTING UP YOUR 3300	
RADIO RECEPTION	6
PLAYING RECORDS/USING A MICROPHONE	7
UPGRADING YOUR STEREO (4-CHANNEL STEREO)
SYSTEM/ELECTRONIC CROSSOVER SYSTEM)	8
RECORDING AND PLAYBACK BY TAPE DECKS	9, 10
NOISE REDUCTION SYSTEM	11
SIMPLE MAINTENANCE HINTS	12~14
GENERAL TROUBLESHOOTING CHART	15, 16
SPECIFICATIONS	17
SCHEMATIC DIAGRAM	18~21
DISASSEMBLY PROCEDURE	
TEST POINTS	23
ALIGNMENT	24~26
PRINTED CIRCUIT BOARDS AND PARTS LIST	27~38
OTHER PARTS AND THEIR POSITION ON CHASSIS	3 39~40



SWITCHES AND CONTROLS

Speaker Selector Buttons -

Let you select any pair or a combination of any two pairs of speaker systems out of the three pairs you can connect on the receiver's rear panel. To protect the amplifier, the C pair will not function if you push all three buttons simultaneously.

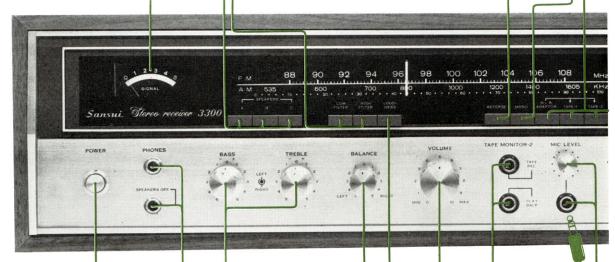
Signal Meter -

Noise Filter Switches

Push the LOW switch to cut off such low-frequency noise as the motor rumble of a turntable, and the HIGH switch to cancel such high-frequency noise as you may hear from a worn record or in a broadcast and any tape hiss. Be sure to keep both switches off if no such noise exists.

Reverse Switch -

Push to reverse the left and right channel signals during stereo operation.



Power Switch

Push it once to turn on power, once more to turn off. It also controls the AC outlet marked SWITCHED on the real panel.

Headphone Jacks -

Accommodate two stereo headphone sets for monitoring or private listening. The upper jack lets you hear reproduced sound both from the speaker systems and the headphone set, while the lower one cuts off the sound from speaker systems so you can listen quietly with headphones only.

Tone Controls -

The BASS control adjusts the receiver's low-end response, and the TREBLE control its high-end response. Turn clockwise to emphasize the lows and highs, respectively. On each control, the knob part controls the left channel, while the ring in the back controls the right channel.

Balance Control

Volume Control

Loudness Switch

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

TAPE MONITOR-2 Jacks -

Part of the same second tape record/playback circuit that gives the TAPE-2 pin jack terminals on the rear panel, these jacks let you connect a tape deck on the front panel. To record into a tape deck, connect to the TAPE REC jack. To reproduce, connect to the PLAYBACK jack. Push the TAPE-2 button to reproduce a recorded tape or monitor a recording as you make it on a tape deck so connected.

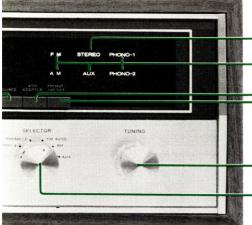
-Mono Switch

Push to hear in mono whatever program source you may have set the receiver to reproduce.

Tape Monitor Switches

Push the TAPE-1 or TAPE-2 tape monitor switch to monitor or reproduce a recording on a tape deck.

See page 11 for explanations of the N.R ADAP-TOR and SOURCE Switches.



Microphone Jack and Volume Control

Insert a microphone into the jack, then adjust its sound volume with this specialized volume control. You can mix the sound from the microphone with any of the program sources chosen on the Selector Control. The over-all sound volume so mixed can then be controlled with the Volume Control.



FM Stereo Indicator

Illuminates when the set is tuned in on an FM station broadcasting in stereo.

Function Indicators

4-Channel Adaptor Switch

If you connect a 4-channel adaptor to the 3300 and make other necessary connections, you will be able to upgrade this 2-channel stereo receiver to hear 4-channel stereo sound by pushing this switch (refer to page 8). Otherwise, be sure to keep it off.

FM Muting Release Switch

The built-in FM muting circuit is constantly at work to eliminate the inter-station noise commonly heard during FM tuning. Use this switch to cancel that circuit when you are trying to tune in a weak station.

Tuning Knob

Selector Control

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

PHONO-2: Selects the turntable connected to the PHONO 2 inputs on the real panel.

PHONO-1: Selects the turntable connected to the PHONO 1 inputs.

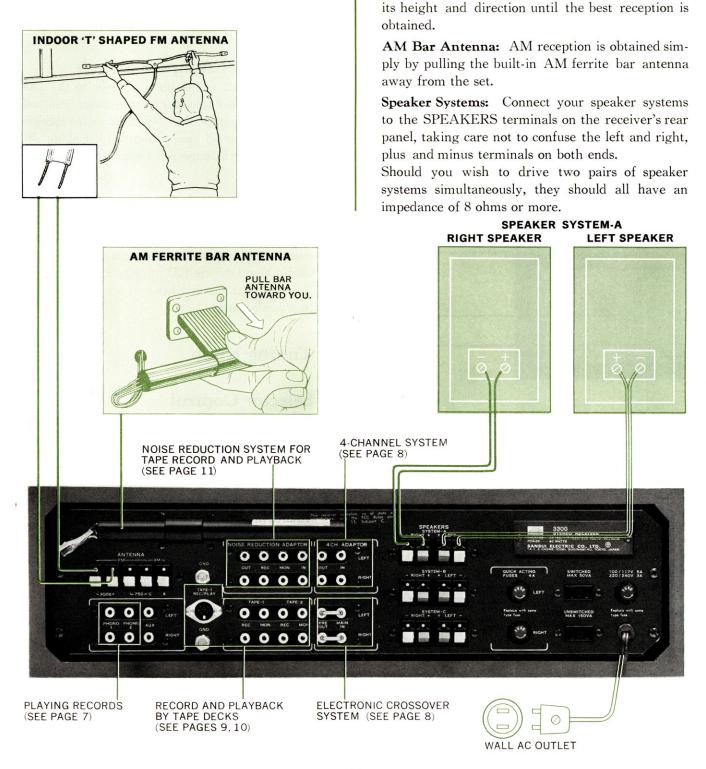
FM AUTO: To hear FM broadcasts, whether stereo or mono. When the broadcast signal changes from mono to stereo, the receiver automatically switches to stereo reception. The FM Stereo Indicator will then glow in red to indicate the condition.

AM: To hear regular AM (MW) broadcasts.

AUX: To reproduce whatever program source is connected to the AUX inputs on the rear panel. (Connect a crystal or ceramic cartridge or the audio outputs of a TV set to the AUX inputs.)

SETTING UP YOUR 3300

Before you insert the 3300's power cord into a wall AC outlet, be sure to make the following preparation.



FM Antenna: Connect the T-shaped feeder cable

antenna supplied to the receiver's FM-300 Ω termi-

nals. Adjust the receiver for FM reception and stretch the antenna to a full 'T' shape, then change

RADIO RECEPTION

FM/AM Reception

- 1. Turn the Selector Control to FM AUTO or AM, whichever you may wish to hear.
- **2.** Select the desired FM or AM station by turning the Tuning Control. The station is correctly tuned in when the Signal Meter pointer has swung as far to the right as possible.

If the FM station received is broadcasting in stereo, the FM Stereo Indicator will illuminate.

For Better FM/AM Reception

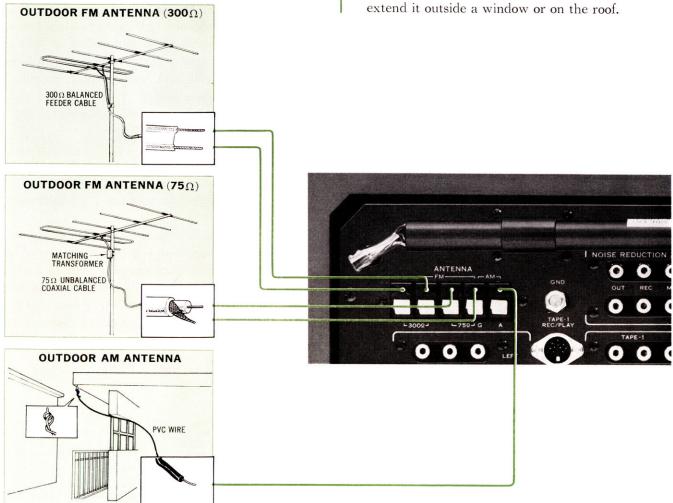
In areas remote from broadcast stations or blocked by such obstacles as mountains and large buildings, the T-shaped feeder cable FM antenna and built-in AM ferrite bar antenna alone may sometimes fail to give you sufficiently clear reception. If this happens, resort to the following measures.

Outdoor FM Antenna

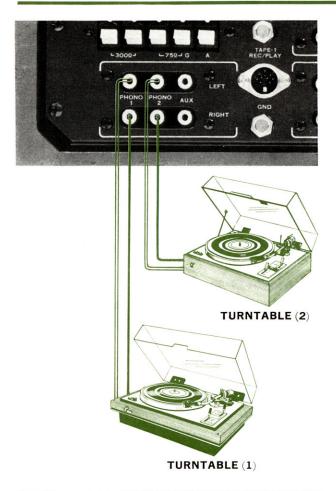
Install a commercially available FM outdoor antenna with at least five to seven elements. While such antenna may be connected to the receiver either with 300-ohm balanced feeder cable or 75-ohm unbalanced coaxial cable (see illustration), the use of the latter is recommended because of its better signal transmission capability, if your budget allows. In addition, an impedance matching transformer may be sometimes required, and this should be found out at the time of purchase. After connecting the antenna, adjust its direction so as to obtain the best reception while actually listening to your favorite FM station.

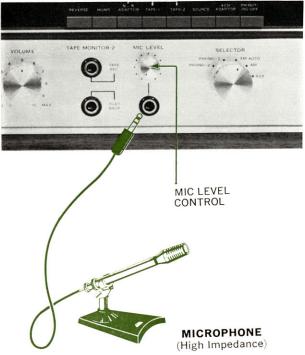
Outdoor AM Antenna

Connect the polyvinyl wire supplied to the AM-A antenna terminal on the receiver's rear panel, then extend it outside a window or on the roof.



PLAYING RECORDS/USING A MICROPHONE





Connecting Turntables

As your 3300 is equipped with two phono input circuits, you may connect two turntables or employ two different tonearms. These turntables or tonearms should each be equipped with a magnetic cartridge.

Playing Records

- **1.** Set the Selector Control to PHONO-1 or PHONO-2, depending on which input circuit you are using.
- **2.** Switch on the turntable, adjusting it for the right speed of the record to be played.
- 3. Start playing the record.
- **4.** Use the various controls and switches on your 3300 to suit your personal taste and room acoustics.

Using a Microphone

Connect a high-impedance ($10k\Omega$ or more) microphone to the microphone jack on the receiver's front panel. You can mix the sound picked up by the microphone with any program source selected on the Selector Control, and hear the mixture out of the speaker systems and/or record it into a tape deck. The sound volume is adjusted with the MIC LEVEL Control and Volume Control.

Caution:

- 1. If you wish to use a low-impedance (e.g., 600Ω) microphone, connect it to the receiver via an impedance matching transformer (commercially available).
- 2. If you raise the microphone volume in an acoustically reflective room, loud oscillating noise may be emitted from the speaker systems. This is a phenomenon called howling and is no fault of the receiver. It can be corrected either by lowering the volume with the MIC LEVEL Control, directing or moving the microphone away from the speaker systems.

UPGRADING YOUR STEREO

4-Channel Stereo System

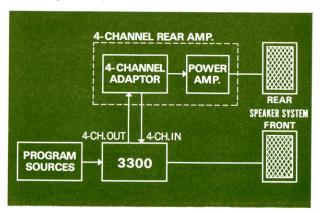
The sound we daily hear is a mixture of the sound that reaches your ears straight from the sound source—be it a musical instrument, a jet, a man's mouth or what have you—and the 'indirect sounds' that arrive at your ears only after they are reflected off various surfaces, such as walls, ceiling and so 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 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 4CH ADAPTOR OUT terminals of your 3300 with the input terminals of such rear amplifier or 4-channel adaptor, then connect its 4CH ADAPTOR IN terminals with the output terminals of such unit.

To operate the rear amplifier or 4-channel adaptor so connected, push the 4CH ADAPTOR Switch on the receiver's front panel, and otherwise follow its manufacturer's instructions. Electrically, the 4CH ADAPTOR OUT and IN terminals possess the same functions as the TAPE REC and MON terminals, respectively.



Electronic Crossover System

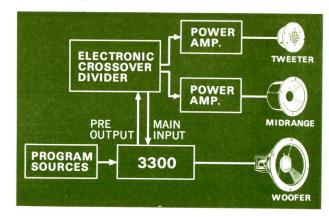
The electronic crossover system is recognized by many audiophiles as a means of maximally enhancing the fidelity of reproduced sound, for these reasons:

- 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, and power amplifiers with 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 3300

The preamplifier and power amplifier sections of your 3300 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 an electronic crossover unit, and at least one or two additional power amplifiers (depending on whether your speaker systems are two-way or three-way).

Connection is not all that difficult. First remove the Pre-Main Connectors uniting your 3300's preamplifier outputs and power amplifier inputs. Then just connect the preamplifier outputs to the input terminals of the electronic crossover unit, which divides the input signals into high, medium and low range(s) (or channels). Finally, couple the receiver's power amplifier inputs and the additional power amplifier(s) to the separate output terminals of the electronic crossover unit, feeding their outputs separately into individual speakers, as illustrated below.



RECORDING AND PLAYBACK BY TAPE DECKS

Connecting Tape Decks

Your 3300 is provided with the following facilities for tape recording and playback:

For a first tape deck

Recording: TAPE-1 REC pin jacks on the receiver's rear panel.

Playback: TAPE-1 MON pin jacks on the same rear panel.

Recording & playback: TAPE-1 REC/PLAY DIN socket, also on the rear panel.

(The REC and MON pin jacks and the DIN socket must not be used simultaneously.)

For a second tape deck

Recording: TAPE-2 REC pin jacks on the receiver's rear panel, or TAPE MONITOR-2 TAPE REC phone jack on its front panel.

Playback: TAPE-2 MON pin jacks on the rear panel, or TAPE MONITOR-2 PLAYBACK phone jack on the front panel.

(Connecting a tape deck to the front-panel TAPE MONITOR-2 phone jacks automatically disables the rear panel TAPE-2 pin jacks.)

For a third tape deck

Recording: 4CH ADAPTOR OUT or NOISE REDUCTION ADAPTOR OUT pin jacks Playback: 4CH ADAPTOR IN or NOISE REDUCTION ADAPTOR IN pin jacks

Recording by a Tape Deck

- **1.** Set the receiver's Selector Control to the program source you wish to record. Use a microphone if necessary.
- **2.** Start the tape deck in the recording mode.
- **3.** To monitor the sound being recorded, push the receiver's TAPE-1 or TAPE-2 tape monitor switch, whichever circuit is accommodating the tape deck you are using.

Playback by a Tape Deck

- **1.** Push the receiver's TAPE-1 or TAPE-2 tape monitor switch, whichever circuit is accommodating the tape deck you are using.
- 2. Start the tape deck in the playback mode.
- **3.** Use the various controls and switches on the receiver to suit your personal taste and room acoustics.

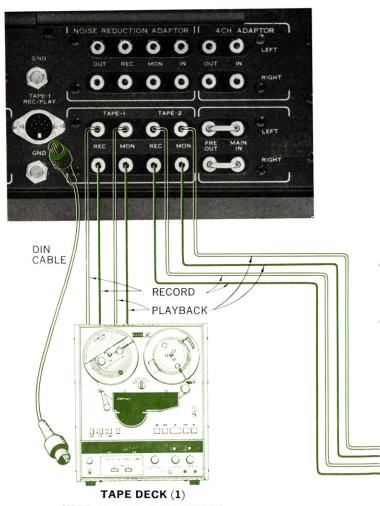
Recording from One Tape Deck into Another

It is suggested that you use the tape deck connected to the TAPE-1 circuit for playback, and the one connected to the TAPE-2 circuit for recording. To record from the first tape deck into the second, proceed as follows:

- **1.** Push the TAPE-1 tape monitor switch of the receiver.
- **2.** Start the second tape deck in the recording mode.
- **3.** Now start the first tape deck in the playback mode.

Note:

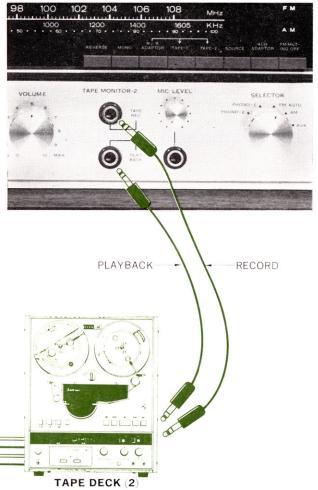
1. To reproduce a recorded tape on a tape deck connected to the TAPE-1 pin jacks on the receiver's rear panel, push the TAPE-1 tape monitor switch



NOTE: Do not use the TAPE-1 REC/PLAY terminals and DIN Connector Socket simultaneously.

on the front panel. Similarly, if you use the TAPE-2 or 4CH ADAPTOR or NOISE REDUCTION ADAPTOR jacks, push the corresponding switch on the front panel to obtain the playback function.

- **2.** To 'monitor' a recording means to reproduce a recording as you make it to check on the quality of the recorded sound. This is only possible if the tape deck is equipped with separate erase, record and playback heads.
- **3.** The DIN socket marked TAPE-1 REC/PLAY on the rear panel combines both the recording and playback terminals, and can be used only if your tape deck is equipped with an identical socket.
- **4.** The SOURCE switch on the receiver's front panel is for use when you connect a noise reduction adaptor to the receiver (see page 11).



NOTE: Do not use the TAPE MONITOR-2 TAPE REC, PLAYBACK phone jacks and TAPE-2 REC, MON pin jacks simultaneously.

Noise Reduction System

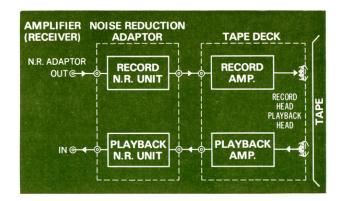
A noise reduction system, as its name indicates, is designed to reduce various types of noise commonly generated during tape recording or playback. The most annoying of such noise is the so-called tape hiss, which is heard over the entire audio spectrum of recorded sound and which is almost inherent in tape recording.

While different kinds of noise reduction system have been proposed by different manufacturers, they are almost always designed to dilute this unpleasant tape hiss. The most recent innovation in this field is called the Dolby Noise Reduction System, which already seems to have won worldwide recognition as one of the most effective yet devised.

As tape hiss and other types of noise invariably increase in quantity as the tape speed slows down, the effect of reducing noise by a noise reduction adaptor is particularly great when such adaptor is incorporated into a cassette tape deck.

Construction of a Noise Reduction System

Output signals delivered at the receiver or amplifier's tape recording terminals are fed through the recording noise reduction unit in a noise reduction adaptor (abbreviated as n.r. adaptor hereafter), then recorded into a tape by a tape deck. For playback, the output signals given at the tape deck's playback or output terminals are fed through the playback noise reduction unit of the adaptor and into the receiver or amplifier's tape monitor or input terminals. A block diagram of a typical noise reduction system is presented below.



NOISE REDUCTION SYSTEM

Connecting a Noise Reduction Adaptor

A n.r. adaptor is normally connected to both an amplifier or receiver and a tape deck.

In the case of your 3300, however, merely connect such adaptor to the receiver. The tape decks connected to the receiver's TAPE-1 and/or TAPE-2 terminals can then be made to assume noise reduction effects simply by pushing the N.R ADAPTOR Switch on the receiver's front panel. When reproducing, push the appropriate tape monitor switch.

The four pairs of N.R. ADAPTER jacks on your 3300's rear panel have functions as explained below. Make correct connections by referring to the operating instructions supplied by the manufacturer of your n.r. adaptor.

OUT: Possess the same function as the receiver's recording (output) terminals.

Connect these jacks with the inputs of your n.r. adaptor so those signals will flow into that unit.

REC: Connect these jacks with the recording outputs of the n.r. adaptor. (Usually, connections are made between the recording outputs of the n.r. adaptor and the recording (input) jacks of a tape deck, instead.)

MON: Connect these jacks with the playback inputs of the n.r. adaptor. (This connection replaces the one usually made between the playback inputs of the adaptor and the playback (output) jacks of the tape deck.)

IN: Possess the same function as the receiver's monitor or playback (input) terminals.

Connect these jacks with the outputs of the adaptor, so those signals will be properly amplified by the receiver for reproduction out of speaker systems.

Recording through a N.R. Adaptor

- **1.** Set the receiver's Selector Control to the program source you want to record. Or use a microphone and/or appropriate tape monitor switch as needed.
- 2. Push the receiver's N.R ADAPTOR Switch.
- **3.** Engage your n.r. adaptor in the recording mode.
- 4. Start the tape deck in the recording mode.
- **5.** To monitor the sound being recorded, push the receiver's TAPE-1 or TAPE-2 tape monitor switch, whichever circuit is accommodating the tape deck you are using.

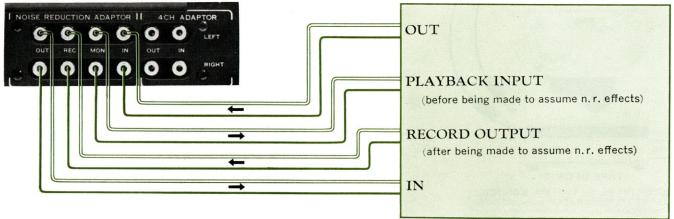
Note:

- 1. To monitor the sound you are recording on a two-head tape deck (with a combined record/play head) and/or a single-circuit n.r. adaptor (with a combined record/playback n.r. unit), or to compare that sound with the original before recording sound, push the SOURCE Switch on the front panel.
- **2.** If you want to copy an already recorded tape from one tape deck into another via your n.r. adaptor, connect the playback (output) jacks of the first (used for playback) tape deck to the receiver's AUX jacks, then turn the receiver's Selector Control to AUX. Then merely follow steps 2 to 5 explained above.

Playback through a N.R. Adaptor

- 1. Push the receiver's TAPE-1 or TAPE-2 tape monitor switch, whichever circuit is accommodating the tape deck you are using.
- 2. Push the receiver's N.R ADAPTOR Switch.
- **3.** Engage your n.r. adaptor in the playback mode.
- **4.** Start the tape deck in the playback mode.

NOISE REDUCTION ADAPTOR



SIMPLE MAINTENANCE HINTS

Quick Check List of Wrong Operations

If you have already confirmed that all the connections are correct and completely made, but if no sound is still heard from the speaker systems, go down the check list below once to see if you haven't made any of these simple mistakes:

- 1. Have you turned on the Power Switch?
- **2.** Have you turned the Selector Control to the desired function?
- **3.** Have you pushed the correct Speaker Selector Button(s)?
- **4.** Are the Tape Monitor Switch (es) or N.R ADAPTOR Switch not pushed down, though you don't want to reproduce a tape?
- **5.** Is the 4CH ADAPTOR Switch not pushed down, though you are not using a 4-channel rear amplifier or adaptor?
- **6.** Is the Volume Control properly turned up?

Rear-Panel AC Outlets

Of the two AC outlets provided on the rear panel, the one marked 'SWITCHED' is controlled by the front-panel Power Switch. The other, marked 'UNSWITCHED', is always 'live' and independent of the Power Switch. They have a power capacity of 50VA and 150VA respectively, and it is extremely dangerous to connect equipment with bigger power requirements. Before connecting any equipment to either outlet, make certain its power requirement does not exceed its power capacity limit. The voltage supplied at these AC outlets is the same as the power supply voltage used.



About the Place of Installation

The wooden cabinet of the 3300 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 receiver or place it inside a closed box, etc. Above all, avoid placing it where it may be exposed to direct sunlight.

Howling and Hum

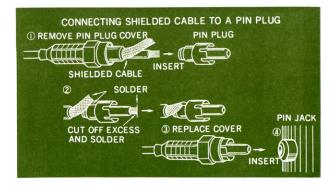
Take care never to place a turntable on or too near a speaker system, or the vibration produced by the speaker system is transmitted and causes an oscillating phenomenon called howling. It is best to keep these components completely separated, but if this is impossible, place a thick cushion between them.

Humming, in contrast, is a phenomenon caused by incomplete or incorrect turntable-receiver connections. Should this occur, check to see if all connections are completely made and if the connecting wires are sufficiently thick. Hum noise may sometimes by eliminated by connecting the grounding lead of the turntable to the GND terminal on the rear panel of your 3300.

When Connecting a Turntable, etc.

To connect a turntable, tape deck and so forth, it is strongly recommended to use thick, shielded cables with minimal distributed capacitance and to keep them as short as possible.

To solder the pin plugs supplied as accessories onto such shield cables, refer to the illustration below.



SIMPLE MAINTENANCE HINTS

Should the Power Fuse Blow

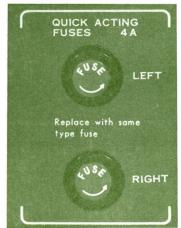
If no Selector Indicator should glow and the receiver simply remains dead even after you have turned on its Power Switch, it is possible that its power fuse has blown. If this happens, disconnect the power cord from the wall AC outlet at once and examine the power fuse on the receiver's rear panel. If you find it blown, replace it with a new glass-tubed fuse of the rated capacity. Never use a fuse of a different capacity or a piece of wire, even as a stop-gap measure, or serious danger could result.



About the Quick-Acting Fuses

When a Selector Indicator is glowing, if no sound comes out of either or both of the speaker systems, examine thier connections and your operating procedure once. If nothing is wrong with them, it is possible that the quick-acting fuse or fuses protecting the power transistors have blown. If this should happen, disconnect the power cord from the wall AC outlet immediately and check the four quick-acting fuses on the rear panel. If you find any of them blown, discover and eliminate the cause of the blowout, then replace it with a new 4-ampere quick-acting fuse supplied. Probable causes of the

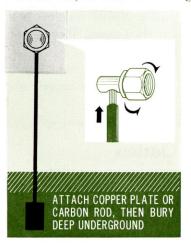
blowout include excessively large input signals and a shortcircuit at the speaker terminals.



Grounding

Any noise picked up by the connecting cables can be effectively grounded by connecting a piece of PVC (polyvinyl chloride) or enameled wire to the GND terminal on your receiver's rear panel, attaching a small copper plate or carbon rod to the other end and burying it deep underground. The grounding leads of other equipment in your stereo system may be connected to the same terminal to ground the entire system at once.

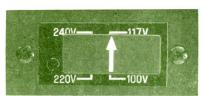
If you have connected an external AM antenna to the receiver, it is advisable to ground it as well.



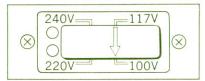
Voltage Adjustment

Your 3300 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 receiver's rear panel, then set the arrow mark on the Voltage Selector Plug to the correct voltage indication (100, 117, 220 or 240 volts).

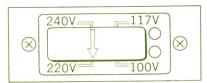
Also, it may be necessary to replace the power fuse as well whenever the voltage has changed. For operation at 100-117 volts, use a 5-ampere fuse. For operation at 220-240 volts, use a 3-ampere one.



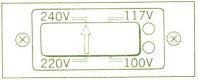
117V (POWER FUSE 5A)



100V (5A)



220V (3A)



240V (3A)

About Servicing

Should anything ever go wrong with your 3300, or if you have any question about it, please contact the Sansui dealer from whom you purchased it or your nearest Authorized Sansui Service Station.

Accessory List

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

GENERAL TROUBLESHOOTING CHART

If the receiver is otherwise operating satisfactory, the more common causes of trouble may generally be attributed to the following:

- **1.** Incorrect connections or loose terminal contacts. Check the speakers, turntable, tape deck, antenna and power cord.
- 2. Improper operation. Before operating any audio com-

ponent, be sure to read its manufacturer's instructions.

- **3.** Improper location of audio components. The proper positioning of components, such as speakers and turntable, is essential to maximum stereo enjoyment.
- **4.** Defective audio components.

The chart below lists some other common causes of malfunction and what to bo about them.

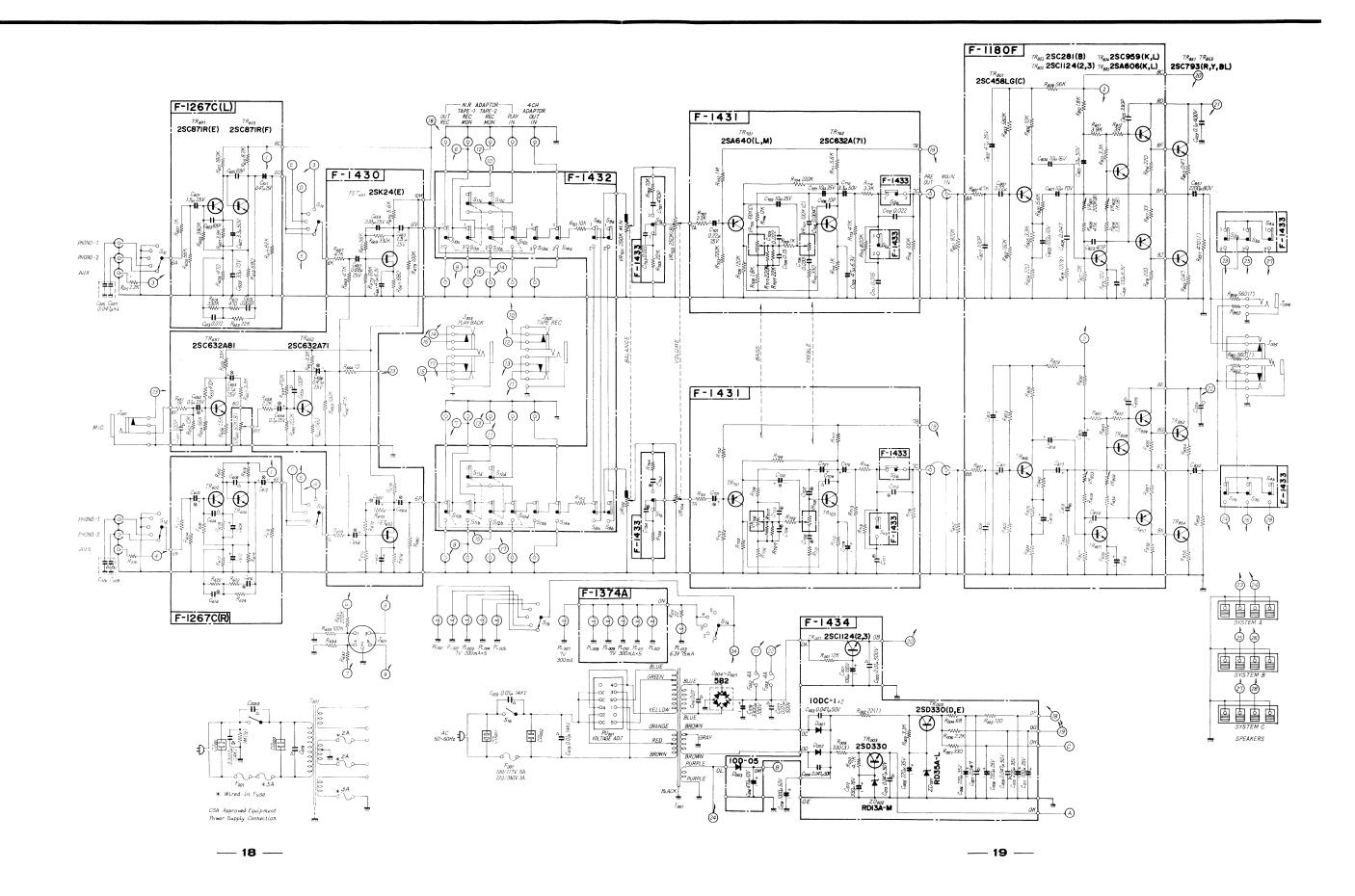
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM, FM or MPX reception	A. Constant or intermittent noise heard at times or in certain areas	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor rectifier or oscillator * Natural phenomena, such as atmospherics, statics or thunderbolts * Insufficient antenna input due to ferroconcrete wall or long distance from station	* Attach noise limiter to electrical appliance producing noise, or attach it to receiver's power source * Install outdoor antenna and ground receiver to raise S/N ratio * Reverse power cord plug/receptacle connections * If noise occurs at certain frequency, attach wave trap to input * Keep receiver at proper distance from other electrical appliances
AM reception	A. Noise heard at particular time of day, in certain area or over part of dial	* Peculiar to AM broadcasts	* Install antenna for maximum antenna efficiency. See RADIO RECEPTION in operating instructions booklet * In some cases, noise can be eliminated by grounding receiver or reversing power cord plug/receptacle connections
	B. High-frequency noise	* Iinterference by adjacent stations or beat interference * TV set too close to stereo system	* Such noise cannot be completely eliminated by adjusting receiver, but it is advisable to turn Treble Control counterclockwise, or turn on High Filter * Keep TV set at proper distance from stereo system
FM reception	transmission co and antenna eff	* Poor noise limiter effect or too low S/N ratio due to insufficient antenna input ption is affected considerably by nditions of station, such as power iciency. So you may receive one ll while receiving another station	 * Install FM antenna (supplied) for maximum signal strength * If this does not prove effective, use exclusive FM outdoor antenna. If using TV antenna for both TV and FM with divider, make sure TV reception is not affected * Excessively long lead-in wire of antenna may cause noise
	B. Series of pop noise	* Ignition noise caused by starting of nearby auto- mobile engine	* Install antenna and its lead-in wire at proper distance from street or in- crease antenna input as described before
	C. Tuning noise between stations	* Results from nature of FM reception * FM Muting Release switch depressed	* Release FM Muting Release switch * Ditto

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
FM-MPX reception	A. Noise heard during FM-MPX reception but inaudible during FM mono reception	* Weaker signal because service area of FM-MPX broadcast is only half that of FM mono broadcast	* Orient antenna for maximum antenna input * Switch on High Filter and/or turn Treble Control counterclockwise
	B. Channel separation deteriorates during reception	* Excessive heat	* Circulation of room air is important. Be sure through receiver is well ventilated
	C. Stereo indicator blinks on and off	* Interference	* Indicator is not faulty; adjust VR ₄₀₂
Record playing or tape playback	A. Hum or howling	* Turntable placed directly on speaker * Wire other than shielded cable used * Loose terminal contact * Shielded cable too close to power cord, fluorescent lamp or other appliances * Nearby amateur radio station or TV transmission antenna	* Place cushion between turntable and speaker cabinet or place them away from each other * Connecting shielded cables should be as short at possible * Turn on Low Filter and turn Bass Control counterclockwise * Consult nearest governmental or municipal office regulating use of radio waves
	B. Surface noise	 * Worn or old record * Worn phono stylus * Phono stylus is dusty * Improper stylus pressure 	* Recondition playback head of tape deck or stylus of turntable * Turn Treble Control counterclockwise * Turn High Filter on

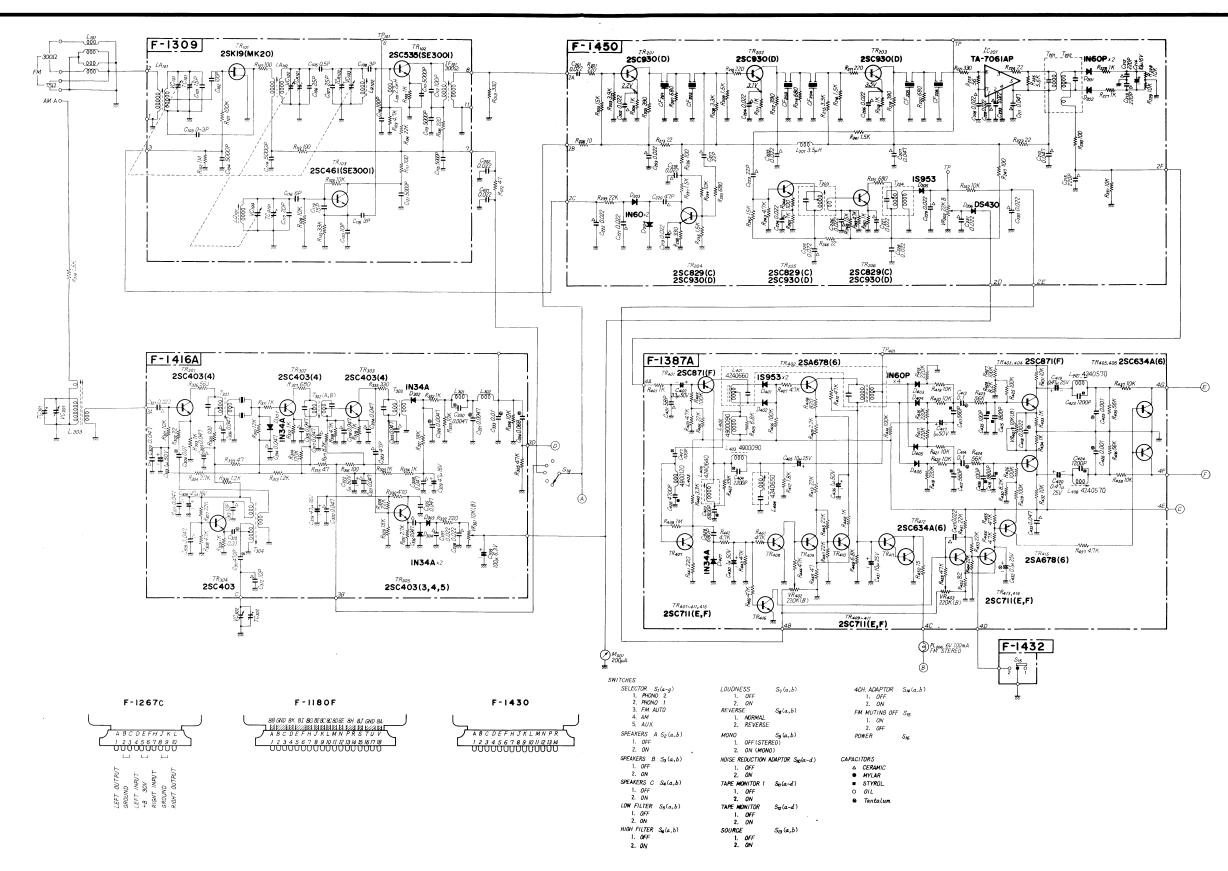
SPECIFICATIONS

AMPLIFIER SECTION	ı	FM TUNER SECTION	
POWER OUTPUT		TUNING RANGE:	88 to 108MHz
IHF MUSIC POWER:	165W (4Ω) at 1,000Hz	SENSITIVITY (IHF):	1.9μV
CONTINUOUS RMS POW	110W (8 Ω) at 1,000Hz //ER (each channel driven):	SIGNAL TO NOISE RATIO: IMAGE REJECTION:	better than 75dB at 98MHz
CONTINUOUS RIMS FOR	$65/65$ W (4Ω) at 1,000Hz	SPURIOUS RESPONSE RE	
	$45/45W$ (8 Ω) at 1,000Hz		better than 90dB
CONTINUOUS RMS POW	/ER (both channels driven):	SELECTIVITY:	better than 60dB
	$36+36W~(8\Omega)$ at 1,000Hz	IF REJECTION:	better than 80dB
	/ER (both channels driven	CAPTURE RATIO: TOTAL HARMONIC DISTO	better than 2dB
	20,000Hz): 28+28W (8Ω)	MONO:	less than 0.5%
TOTAL HARMONIC DISTO		STEREO:	less than 0.8%
	s than 0.4% at rated output	FM STEREO SEPARATION	: better than 35dB
PRE-AMP. ONLY (PHONG	s than 0.5% at rated output	ANTENNA INPUT IMPEDA	
	pre output):	300 ohms	balanced, 75 ohms unbalanced
	s than 0.2% at rated output	AM TUNER SECTION	
OVER-ALL (PHONO to po		TUNING RANGE:	535 to 1,605kHz
	s than 0.4% at rated output	SENSITIVITY (bar antenna	•
INTERMODULATION DIST		SELECTIVITY (±10kHz):	
(AUX to power output):	00Hz=4:1 SMPTE method)	IMAGE FREQUENCY REJE	etter than 80dB/m at 1,000kHz
	s than 0.4% at rated output		etter than 80dB/m at 1,000kHz
(Power amp. only): les	s than 0.4% at rated output	GENERAL	,
POWER BANDWIDTH (IHF)	: 15 to 35,000Hz	TAPE MONITOR 1, 2:	OFF/ON
FREQUENCY RESPONSE		N.R. ADAPTOR:	OUT/IN
OVER-ALL (AUX to powe		SOURCE:	OFF/ON
	to 40,000Hz +1dB, -2dB to 40,000Hz +0.5dB, -1.5dB	LOUDNESS:	OFF/ON
LOAD IMPEDANCE:	4 to 16 ohms	FILTERS (HIGH, LOW):	OFF/ON
DAMPING FACTOR:	Approximately 30 at 8Ω load	MODE: REVERSE:	STEREO/MONO NORMAL/REVERSE
CHANNEL SEPARATION:	(at rated output, 1,000Hz)	FM MUTING:	ON/OFF
PHONO OVER-ALL:	better than 50dB	SPEAKERS A,B,C:	OFF/ON
AUX OVER-ALL:	better than 50dB	SELECTOR:	PHONO-2/PHONO-1/
POWER AMP ONLY:	better than 60dB	SEMICONDUCTORS.	FM AUTO/AM/AUX
HUM AND NOISE (IHF)	1 1 70 10	SEMICONDUCTORS:	Transistors: 58 FET: 3 Diodes: 20 ZD: 2 IC: 1
PHONO: AUX:	better than 70dB better than 80dB	POWER REQUIREMENTS	5.0003. 10
POWER AMP. ONLY:	better than 90dB	POWER VOLTAGE:	100V, 117V, 220V, 240V
INPUT SENSITIVITY:	(at rated output, 1,000Hz)		: 400VA (max.) 90Watts (rated)
PHONO:	2.5mV (50k ohms)	DIMENSIONS:	486.5mm (193/6") W,
AUX:	150mV (50k ohms)		147mm (5½/6″) H, 355mm (14″) D
MIC: TAPE MONITOR (Pin) (D	4mV (10k ohms)	WEIGHT:	16.7kg (36.8 lbs.)
	PTOR: 150mV (50k ohms)		,
4-CH ADAPTOR:	150mV (50k ohms)		
POWER AMP. INPUT:	800mV (100k ohms)		
OUTPUT			
TAPE REC (Pin):	150mV (50k ohms)		
(DIN): PRE-AMP. OUPUT:	30mV (100k ohms) 800mV (100k ohms)		
MAX:	4V		
TONE CONTROLS			
BASS:	+12dB, -12dB at 50Hz		
TREBLE:	+ 12dB, — 12dB at 10kHz		
FILTERS	10 10 10 10 10 10 10 10		
LOW FILTER: HIGH FILTER:	—10dB, at 50Hz (6dB/oct) —10dB, at 10kHz (6dB/oct)		
	10dB at 50Hz, +8dB at 10kHz		
±	TOUD OF SOITE, TOUB OF TOKITE		

SCHEMATIC DIAGRAM OF AMPLIFIER SECTION

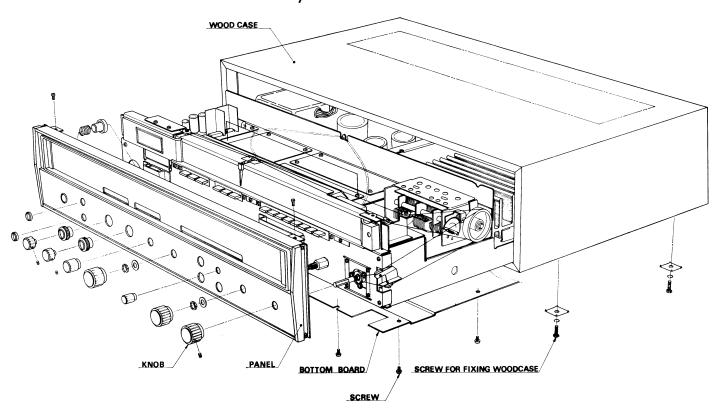


SCHEMATIC DIAGRAM OF TUNER SECTION

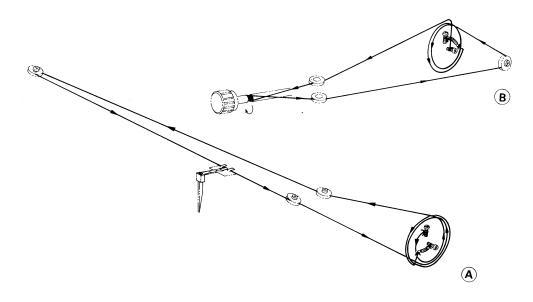


DISASSEMBLY PROCEDURE

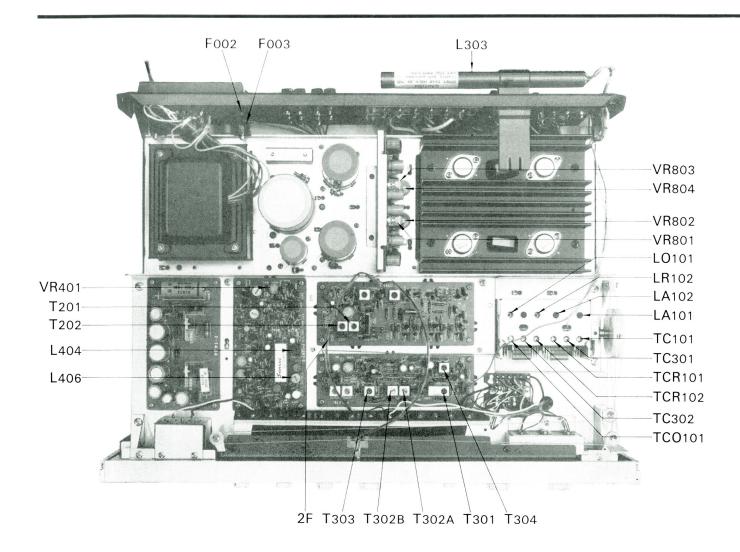
REMOVING FRONT PANEL, WOOD CASE AND BOTTOM BOARD



DIAL MECHANISM



TEST POINTS



ALIGNMENT

FM ALIGNMENT PROCEDURE

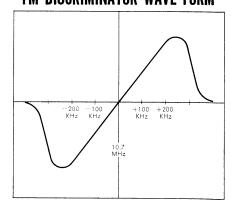
NOTE: Set FM signal generator level to minimum first.

Any internal parts replacement or changes you make in the 3300 require proper alignment again, Test points, alignment procedures and schematic diagrams are given on pages 18~25.

Equipment required: 1. Sweep Generator 2. Oscilloscope 3. FM Signal Generator 4. Multiplex Stereo Generator 5. AC V.T.V.M.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	Discrimi- nator	Sweep generator 10.7MHz ±200kHz	TP ₁₀₁ via 10pF ceramic capacitor	Oscilloscope is connected to 2F		FM discriminator transformer T ₂₀₁ primary and secondary	S curve
2.	O.S.C.	FM signal generator 88MHz, 400Hz 100% modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	88MHz	O.S.C. coil LO ₁₀₁	Maximum
3.	O.S.C.	FM signal generator 108MHz,400Hz 100% modulation	Same as adove	Same as above	108MHz	O.S.C. trimmer TCO ₁₀₁	Maximum
4.	Repeat 2 and 3						
5.	RF Amp. Circuit	FM signal generator 90MHz,400Hz 100% modulation	Same as above	Same as above	90MHz	Antenna coil LA_{101} , LA_{102} and LR_{102}	Maximum
6.	RF Amp. Circuit	FM signal generator 106MHz,400Hz 100% modulation	Same as above	Same as above	106MHz	Trimmer TC ₁₀₁ , TCR ₁₀₁ and TCR ₁₀₂	Maximum
7.	Repeat 5 and 6.						

FM DISCRIMINATOR WAVE FORM



ALIGNMENT

FM MULTIPLEX ALIGNMENT PROCEDURE

Do not attempt to align Multiplex Circuit unless following equipment is available:

a. Multiplex Stereo Generator b. Oscilloscope c. AC V.T.V.M. d. Low Frequency Oscillator e. FM Signal Generator

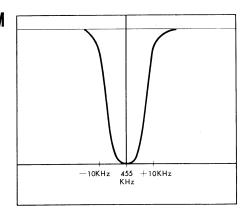
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	Separation VR				VR ₄₀₁	Fully counter-clockwise
2.	67kHz Coil	Low frequency oscillator 67kHz	4A	V.T.V.M. and Oscilloscope at TP ₄₀₁	L ₄₀₄	Minimum
3.	Stereo separation 19kHz Coil	FM signal generator 98MHz 100% modulation Stereo signal generator —composite signal with pilot signal, left channel, 40% modulation	Antenna terminals Tune to signal	V.T.V.M. and oscilloscope at right channel output load	L ₄₀₆	Channel-R minimum
4.	Stereo separation Separation VR	Same as above	Same as above	Same as above	VR ₄₀₁	Same as above

AM ALIGNMENT PROCEDURE

NOTE: To align, set AM signal generator level to minimum.

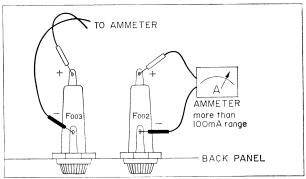
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF transformer	Sweep generator 455kHz ±30kHz	Antenna terminals	Oscilloscope and V.T.V.M. at TP ₃₀₁		I.F.T. $T_{301} \sim T_{303}$	Best IF wave form
2.	O.S.C.	AM generator 535kHz 400Hz 30% modulation	Same as above	Oscilloscope and V.T.V.M. at output load	535kHz	O.S.C. coil T ₃₀₄	Maximum
3.	O.S.C.	AM generator 1600kHz 400Hz 30% modulation	Same as above	Same as above	1600kHz	O.S.C. trimmer cap. TC ₃₀₂	Maximum
4.	Repeat 2 and 3						
5.	Antenna circuit	AM generator 600kHz 400Hz 30% modulation	Same as above	Same as above	600kHz	Ferrite bar antenna coil L ₃₀₃	Maximum
6.	Antenna circuit	AM generator 1400kHz 400Hz 30% modulation	Same as above	Same as above	1400kHz	Antenna circuit trimmer TC ₃₀₁	Maximum
7.	Repeat 5, 6						

AM IF WAVE FORM



CURRENT ADJUSTMENT

STEP	SET AMMETER (TESTER) TO	WHAT TO DO	NOTE
1.		Remove F_{002} (left channel) and F_{003} (right channel)	Use ammeter with 100mA
2.		Set VR ₈₀₂ (left and right channel) to minimum	range
3.		Set Volume Control to minimum	
4.		Turn on receiver	Be sure to
5.	100mA range.	Connect ammeter to F_{002} as illustrated in Fig. 1	switch on receiver before
6.		Turn VR ₈₀₂ (left channel) clockwise and adjust current to 17 to 13 mA	connecting ammeter
7.	100mA range.	Turn off receiver and replace F_{002}	
8.		Turn on receiver and connect ammeter to F_{003} as illustrated in Fig. 1	
9.		Turn VR ₈₀₂ (right channel) clockwise and adjust current to 17 to 13 mA	
10.		Replace F ₀₀₃	



(Fig. 1) QUICK-ACTING FUSE HOLDER

OUTPUT ADJUSTMENT

STEP	WHAT TO DO	NOTE
1.	Adjust volume control to mimimum	
2.	Set oscillator to 1,000Hz and connect it to AUX input	Oscillator used should have oscillating frequen- cy of 20 to 20,000Hz and output voltage of more than 200mV
3.	Set Selector Control to AUX	Push SPEAKERS-A Switch, then set other controls and switches as follows:
		Balance to CENTER Tape Monitor to OFF Tone to CENTER Others to OFF
4.	Connect 8- or 16-ohm resistor with capacity of more than 45 watts to SYSTEM-A LEFT speaker terminal	
5.	Connect oscilloscope to SPEAKER terminal	
6.	Turn on receiver and slowly raise volume. Check output at termi- nal by means of oscillo- scope	Ô
7.	Adjust VR ₈₀₁ (left channel) so that peak of sine wave is clipped simultaneously	
8.	Adjust right channel similarly	Ų

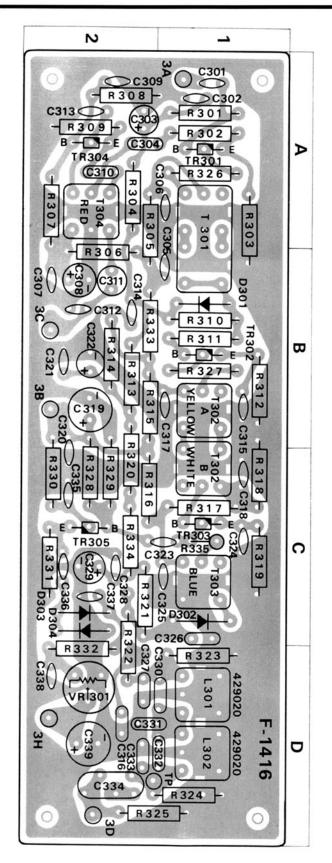
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

AM BLOCK (F-1416A)

Stock No. 7530210

Stock No. 7530210				
w	х		Y	Z
R301	10kΩ)		0101102	1 A
R302	22Ω		0101220	1 A
R303	1kΩ		0101102	1 A , B
R304	2.7kΩ		0101172	2 A
R305	100Ω		0101101	2A, B
R306	I		0101101	2 A , B
R306	1.2kΩ		0101122	2 A , B
R308	22kΩ		0101223	1,2A
R309	4.7kΩ		0101172	2 A
	1kΩ		0101102	1 B
R310 R311	12kΩ		0101123	1 B
	1kΩ			l
R312	lkΩ		0101102	1 B
R313	1.2kΩ		0101122	2 B
R314	120kΩ		0101124	2 B
R315	47Ω		0101470	2 B
R316	100Ω		0101101	2C
R 317	8.2kΩ	9/ 1/W CD	0101822	1 C
R 318		% ¼W CR.	0101472	1 B , C
R 319	1kΩ		0101102	1 C
R 320	lkΩ		0101102	1 B , C
R321	18kΩ		0101183	2 C
R322	1kΩ		0101102	2C, D
R 323	10kΩ		0101103	1 D
R324	10kΩ		0101103	1 D
R325	47kΩ		0101473	1,2D
R326	560Ω		0101561	1 A
R 327	Ω 086		0101681	1 B
R328	22kΩ		0101223	2 B , C
R 329	15kΩ		0101153	2B, C
R330	470Ω		0101471	2B, C
R331	2.7 k Ω		0101272	2 C
R332	220Ω		0101221	2 D
R333	47Ω		0101470	2 B
R334	lkΩ		0101102	2 C
R335	330Ω		0100331	1 C
VR 301	10k $\Omega(B)$ Signal	Meter Adj.(AM)	1035130	2 D
C301	$0.022 \mu F \begin{array}{c} +80 \\ -20 \end{array}$		0657223	1 A
C 302	0.047μ F $^{+80}_{-20}$ 9	6 25V CC.	0656473	1 A
C303	1 <i>μ</i> F	50V EC.	0515109	2 A
C304	$0.01 \mu F \pm 10$	% 50V MC.	0601107	1,2A
C305	0.047μ F		0656473	1 B
C306	$0.047 \mu F \begin{pmatrix} +80 \\ -20 \end{pmatrix}$	6 25V CC.	0656473	1 A
C307	$0.047\mu\text{F}$		0656473	2 B
C308	47 μ F	16V EC.	0612470	2 B
C309	0.047μ F $^{+80}_{-20}$ %	6 25V CC.	0656473	2 A
C310	$0.01 \mu \text{F} \pm 10$		0601107	2 A
_	470 5 1 5	% 50V SC.	0621471	2 B
C311	$470\mathrm{pF}~\pm5$		0440100	0.0
C311 C312	10 pF)	% FOV CC	0660100	2 B
C312 C313	10 pF)	% 50V CC.	0660100	2 B 2 A
C312	10 pF) +10	% 50V CC.	ŧ	
C312 C313	$ \begin{array}{c} 10 \text{ pF} \\ 10 \text{ pF} \end{array} \begin{array}{c} \pm 10 \end{array} $ $ \begin{array}{c} 0.047 \mu\text{F} \\ 0.047 \mu\text{F} \end{array} $		0660100	2 A
C312 C313 C314			0660100 0656473	2 A 2 B
C312 C313 C314 C315	$ \begin{array}{c} 10 \text{ pF} \\ 10 \text{ pF} \end{array} \pm 10 \\ 0.047 \mu\text{F} \\ 0.047 \mu\text{F} \end{array} $		0660100 0656473 0656473	2 A 2 B 1 B

W	X	Y	Z
C320	0.047 μF) +80 α/	0656473	2 B , C
C321	$\begin{pmatrix} 0.047 \mu F \\ 0.047 \mu F \end{pmatrix} + \frac{80}{-20}\%$ 25V CC.	0656473	2 B
C322	1 μF 50V EC.	0515109	2 B
C323	47 pF ±10% 50V CC.	0660470	1,2C
C324	$0.047 \mu \text{F}$) $\pm 80 \text{ g/s}$	0656473	1 C
C325	$\begin{pmatrix} 0.047 \mu \text{F} \\ 0.047 \mu \text{F} \end{pmatrix} \stackrel{+80}{-20}\%$ 25V CC.	0656473	1 C
C326	$0.0047 \mu F \pm 10\% 50V MC.$	0601476	1 C
C328	$0.047 \mu \text{F} $	0656473	2 C
C329	4.7 μF 16V EC.	0512479	2 C
C 330	0.0047 μΕ)	0601476	1,2D
C331	0.0047 μF	0601476	1 D
C333	$0.01 \mu\text{F}$ $\pm 10\%$ 50V MC.	0601107	2 D
C334	0.068 µF	0601687	2 D
C335	0.047 µF)	0656473	2 C
C336	$0.047 \mu F$ 16V CC.	0656473	2 C
C337	$0.022\mu F) +80 g$	0657223	2 C
C338	$0.022 \mu F \begin{cases} +80 \% \\ 0.022 \mu F \end{cases} = 0.000 \text{ CC.}$	0657223	2 D
C 339	100μF 6.3V EC.	0510101	2 D
TR301	1	0305992	1 A
TR302	2SC403 (4)	0305992	1 B
TR303		0305992	1 C
TR304) 255,422 (2, 4, 5)	0205001.0.2	2 A
TR 305	2SC403 (3, 4, 5)	0305991,2,3	2 C
D 301		0310400	1 B
D302		0310400	1 C
D303	1N34A	0310400	2 C
D304]	0310400	2 C
T 301	YFL-455E (Ceramic Filter)	0910180	1 A , B
T302A	1	4230590	1 B
T 302B	AM IF Coil	4230600	10
T 303]]	4230580	10
T 304	AM OSC Coil	4220390	2 A
L 301	Filter's Coil	4290200	1 D
L302	J Thier's Con	4290200	1 D
	Printed Circuit Board F-1416	2530140	



Abbreviations ----

CR : Carbon Resistor SR : Solid Resistor CeR: Cement Resistor

MFR: Metal Oxide Film Resistor

CC : Ceramic Capacitor
EC : Electrolytic Capacitor
MC : Mylar Capacitor

SC : Styrol Capacitor

AEC: Aluminium Solid Electrolytic Capacitor

TC: Tantalum Capacitor

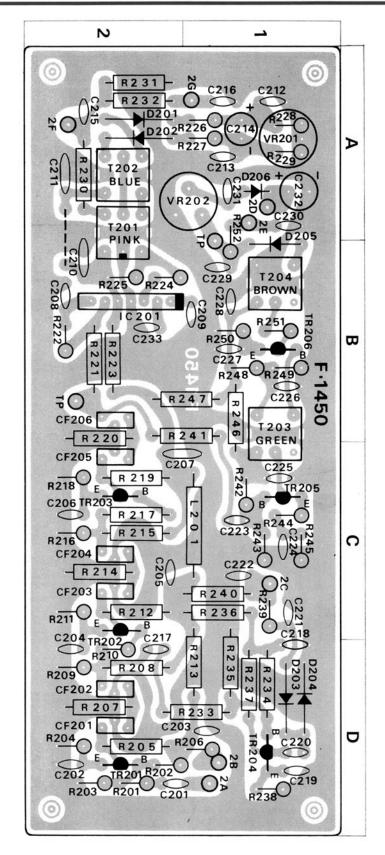
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

FM IF BLOCK 〈F-1450〉

Stock No. 7520510

		Stock No. 7	
W	X	Y	Z
R201	220 Ω)	0100221	2 D
R202	1.5kΩ	0100153	2 D
R203	3.9kΩ	0100392	2 D
R204	1kΩ	0100102	2 D
R205	390Ω	0101391	2 D
R206	10Ω	0100100	1 D
R207	Ω^{022}	0101681	2 D
R208	3.3kΩ	0101332	2 D
R209	$1.5k\Omega$	0100152	2 D
R210	220Ω	0100221	2 D
R211	1kΩ	0100102	2 C
R212	390Ω	0101391	2 C
R213	22Ω	0101220	1C, D
R214		0101681	2C
R214	680Ω	0101332	2 C
R216	3.3kΩ	0100152	2 C
R218	1.5kΩ	0101221	2 C
R217	220Ω	0100102	2 C
	1kΩ	0101391	2 C
R219	390Ω	0101681	
R220	680Ω	0101331	2 B
R221	330Ω	0100560	2 B
R222	56Ω		2 B
R223	22Ω	0101220	2 B
R224	$ 22\Omega $	0100220	2 B
R225	$5.6k\Omega$ \Rightarrow ±10% $\frac{1}{4}$ W CR.	0100562	2 B
R226	1kΩ	0100102	1 A
R227	1kΩ	0100102	1 A
R228	10kΩ	0100103	1 A
R229	10kΩ	0100103	1 A
R230	100Ω	0101101	2 A
R231	10kΩ	0101103	2 B
R233	Ω^{080}	0101681	1, 2 D
R234	10kΩ	0101103	1 D
R235	1.5kΩ	0101152	1C, D
R236	100Ω	0101101	1 C
R237	1.5kΩ	0101152	1 D
R238	330Ω	0100331	1 D
R239	22kΩ	0100223	1 C
R241	1.5kΩ	0101152	1,2B
R242	15kΩ	0100153	1 C
R243	4.7kΩ	0100472	1 C
R244	100Ω	0100101	1 C
R245	1kΩ	0100102	1 C
R246	22Ω	0101220	1 B , C
R247	100Ω	0101101	1,2B
R248	15kΩ	0100153	1 B
R249	4.7kΩ	0100472	1 B
R ₂₅₀	1kΩ	0100102	1 B
R251	680Ω	0100681	1 B
R252	10kΩ ^J	0100103	1 A , B
VR202	22kΩ(B) Signal Meter Adj. (Fi	M) 1035150	1,2A
C201	0.022 <i>μ</i> F) +80.66	0657223	1,2D
C202	$0.022 \mu F$ $\left.\begin{array}{c} +80 \\ -20 \end{array}$ 50V CC.	0657223	2 D
C203	0.022 <i>μ</i> F J	0657223	1 D

W	X	Υ	
C204	0.022 <i>μ</i> F)	0657223	2 D
C205	0.022 μF	0657223	2 C
C206	0.022 <i>μ</i> F	0657223	2 C
C207	$0.047 \mu F \left(\begin{array}{c} +80 \% \\ -20 \% \end{array} \right)$ 50V CC.	0657473	1,2C
C208	0.022	0657223	2 B
C209	0.022 μF	0657223	1 B
C210	0.047 μF	0657473 0657473	2 B
C211 C212	0.047 μF)	0660221	2 A 1 A
C212	$\frac{220 \text{pF}}{220 \text{pF}}$ $\pm 10\% 50V \text{CC}$.	0660221	I A
C214	10μF 16V EC.	0512100	1 A
C215	220 nF)	0660221	2 A
C217	$\frac{22 \text{ pF}}{22 \text{ pF}}$ ±10% 50V CC.	0660220	2 D
C218	0.000.5)	0657223	1 D
C 219	$\begin{pmatrix} 0.022 \mu F \\ 0.022 \mu F \end{pmatrix} + \frac{80}{-20}\%$ 50V CC.	0657223	1 D
C220	47 pF ±10% 50V CC.	0660470	1 D
C221	$0.022 \mu F$ $+80\%$ 50V CC.	0657223	1 C
C222	$0.022 \mu \text{F}$ = 50% CC.	0657223	1 C
C223	22 pF ±10% 50V CC.	0660220	1 C
C224	0.022 <i>μ</i> F	0657223	1 C
C225	0.022 <i>μ</i> F	0657223	1 C
C226	0.022 <i>μ</i> F	0657223	1 B
C227	$0.022 \mu \text{F}$	0657223	1 B
C228	$0.022 \mu F$ $\begin{cases} +80 \\ -20 \end{cases}$ 50V CC.	0657223	1 B
C229	0.022 μF	0657223 0657223	1 B
C230 C231	0.022 μF	0657223	1 A
C233	$0.022\mu\text{F} \ 0.022\mu\text{F}$	0657223	2 B
	υ.υ22μι		
TR201		0305791 0305791	2 D
TR202		0305791	2 C 2 C
TR203 TR204	2SC930 (D)	0305771	1 D
TR204		0305791	1 C
TR206	J	0305791	1 B
		0311060	2 A
D201 D202	1 N60P	0311060	2 A
D202	1	0310331	1 D
D203	1 N60	0310331	1 D
D205	15953	0311050	1 B
D206	DS-430	0340090	1 A
IC201	TA-7061 AP	0360060	2 B
CF201	<u> </u>	0910100	2 D
CF202		0910100	2 D
CF203	SFA-10.7MC (Ceramic Filter)	0910100	2 C
CF204	SI A-10.7 MC (Cerdilic Filler)	0910100	2 C
CF205		0910100	2 C
CF206	,	0910100	2 B
T 201	Discriminating Transformer	4235750	2 A , B
T202	l)	4235760	2 A
T203 T204	Signal Meter Coil	4235770 4235780	1 B , C
	Micro Inductor	4290011	1 C
L201	Printed Circuit Board F-1450	2520320	
	3333 3333 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		1



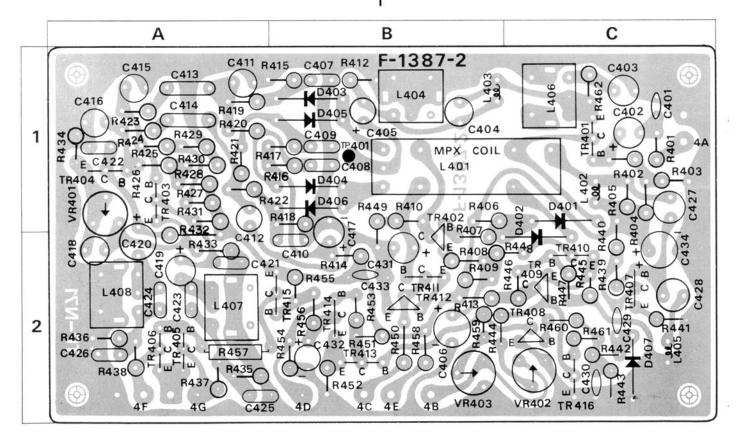
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

FM MPX BLOCK $\langle F-1387A \rangle$

Stock No. 754065				
W		X	Y	z
R401	1kΩ)		0100102	1 C
R402	100kΩ		0100104	1 C
R403	4.7 k Ω		0100472	1 C
R404	22kΩ		0100223	1 C
R405	6.8kΩ		0100682	1 C
R406	100kΩ		0100104	1 B
R407	4.7 k Ω		0100472	2 B
R408	820Ω		0100821	2 B
R409	2.2 k Ω		0100222	2 B
R410	47kΩ		0100473	1 B
R412	1.8kΩ		0100182	1 B
R413	22k Ω		0100223	2 B
R414	100kΩ		0100104	2 B
R415	220kΩ		0100224	1 A , B
R416	220k Ω		0100224	1 A , B
R417	220k Ω		0100224	1 A , B
R418	220k Ω		0100224	1 A
R419	10kΩ		0100103	1 A
R420	10kΩ		0100103	1 A
R421	10kΩ		0100103	1 A
R422	10kΩ		0100103	1 A
R423	56kΩ		0100563	1 A
R424	56kΩ		0100563	1 A
R425	100kΩ		0100104	1 A
R426	100kΩ		0100104	1 A
R427	100kΩ		0100104	1 A
R428	100kΩ		0100104	1 A
R429	$8.2k\Omega$ \Rightarrow \pm	=10% ¼W CR.	0100822	1 A
R430	8.2k Ω		0100822	1 A
R431	10kΩ		0100103	1 A
R432	10kΩ		0100103	2 A
R433	lkΩ		0100102	2 A
R434	1kΩ		0100102	1 A
R435	56kΩ		0100563	2 A
R436	56kΩ		0100563	2 A
R437	10kΩ		0100103	2 A
R438	10kΩ		0100103	2 A
R439	1ΜΩ		0100105	2 C
R 440	3.3kΩ		0100332	1,2C
R441	220Ω		0100221	2 C
R442	4.7kΩ		0100472	2C
R443	47kΩ		0100473	2 C
R444	47kΩ		0100473	2 B
R445	47Ω		0100470	2 C
R446	22kΩ		0100223	2 C
R447	22k Ω		0100223	2 C
R 448	1kΩ		0100102	2B, C
R449	6.8kΩ		0100682	1,2B
R450	15Ω		0100150	2 B
R451	22kΩ		0100223	2 B
R452	82 Ω		0100820	2 B
R453	22kΩ		0100223	2 B
R454	22kΩ		0100223	2 B
R455	47kΩ		0100473	2 B
R456	4.7kΩ		0100472	2 B
R450	$\frac{4.7k\Omega}{4.7k\Omega}$		0101472	2 A

w	X	Y	Z
R459	47kΩ)	0100473	2 B
R460	$47k\Omega$ $\pm 10\%$ ½W CR.	0100473	2 C
R461	47kΩ (±10% /4 VV CR.	0100473	2 C
R462	39kΩ J	0100393	1 C
VR 401	10k $\Omega(B)$ Stereo Separation Adj.	1035130	1 A
VR402	220k $\Omega(B)$ FM Stereo Indicator Adj.	1035210	2 C
VR403	220k $\Omega(B)$ Muting Adj.	1035210	2 B
C401	68 pF ±10% 50V CC.	0660680	1 C
C402	3.3 μF 50V EC.	0515339	1 C
C403	6800 pF)	0629001	1 C
C404	$\frac{5000 \text{pf}}{2200 \text{pF}}$ $\pm 5 \% 50 \text{V SC}$.	0620222	1 B
C405	10 <i>μ</i> F 25V EC.	0513100	1 B
C406	$1\mu\text{F}$ 50V EC.	0515109	2 B
C411	$\frac{560 \text{pF}}{2.00 \text{pF}}$ $\pm 10\% 50 \text{V SC}$.	0620561	1 A
C412	560 pF \ \frac{10\%}{200 300 300}	0620561	1 A
C413	$\frac{0.1\mu F}{2.0}$ ±10% 50V MC.	0601108	1 A
C414	$0.1\mu\text{F}$	0601108	1 A
C415	$\frac{1800 \text{pF}}{1800 \text{pF}}$ $\pm 5 \% 50 \text{V SC}$.	0620182	1 A
C416	1800 pF	0620182	1 A
C417	1 μF 50V EC.	0515109	1,2B
C418	$0.0022 \mu F \pm 10\% 50V$ MC.	0601226	2 A
C419	$0.47 \mu\text{F}$ 25V AEC.	0563478	2 A
C420	0.47 μF J	0563478	1,2A
C423	1200pF $\pm 5 \% 50 \text{V SC}$.	0620122	2 A
C424	1200 pF) = 0 /0 00	0620122	2 A
C425	$0.001 \mu\text{F}$ $\pm 10\% 50V \text{MC}$.	0601106	2A, B
C426	0.001 με)	0601106	2 A
C427	100 pF	0620101	1 C
C428	$4700 \text{pF} \rangle \pm 5 \% 50 \text{V SC}.$	0620472	2 C
C429	680 pF)	0620681	2 C
C430	1 μF 50V EC.	0515109	2 C
C431	10μF 25V EC.	0513100	2 B
C432	0.1 μF 25V TC.	0573108	2 B 2 B
C433	$0.047 \mu F + \frac{80}{-20}\%$ 50V CC.	0657473	2 B
C435	100 pF $\pm 5 \% 50 \text{ SC}$.	0620101	2 B
C436 C437	100 pF) $\frac{+80}{-20}\%$ 50V CC.	0620101 0657223	20
TR401		0305472	1 C
TR401	2SC871(F)	0303472	1,2B
TR402	2SA678(6)	0305472	1,2 B
TR403	2SC871(F)	0305472	1 A
TR405	050(344(4)	0305472	2 A
TR406	2SC634A(6)	0305891	2 A
TR407		0305731, 2	2 C
TR408		0305731, 2	2 C
TR409	2SC711(E, F)	0305731, 2	2 C
TR410		0305731, 2	2 C
TR411	IJ	0305731, 2	2 B
TR412	2SC634A(6)	0305891	2 B
TR413	h	0305731, 2	2 B
TR414	2SC711(E, F)	0305731, 2	2 B
TR415	2SA678(6)	0300291	2 B
TR416	2SC711(E, F)	0305731,2	2 C
	t ·	i .	F
D401	15953	0311050	1 C

w	X	Y	Z
D403	1	0311060	1 B
D404	111100	0311060	1 B
D405	1 N60P	0311060	1 B
D406	Į.	0311060	1 B
D407	1N34A	0310400	2 C
L401	FM MPX Coil	4240660	1 B , C
L402	1 10000	4900090	1 C
L403	Micro Inductor	4900090	1 B
L404	FM MPX Coil	4240650	1 B
L405	Micro Inductor	4900120	2C
L406)	4240640	10
L407	FM MPX Coil	4240570	2 A
L408	J	4240570	2 A
	Printed Circuit Board F-1387-2	2540260	



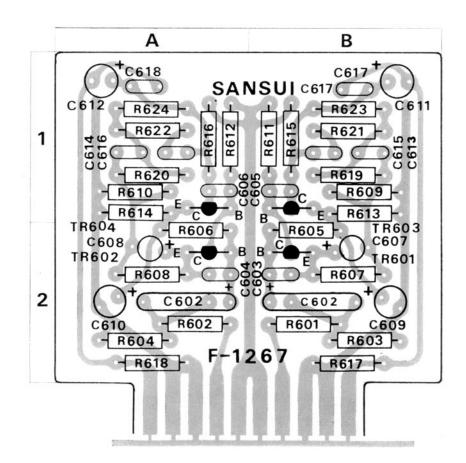
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

EQUALIZER BLOCK (F-1267C)

Stock No. 7550380

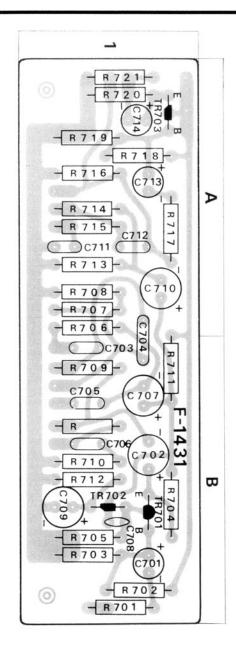
w	x	Y	Z
R601 1k, R602 1k; R603 56k, R604 56k, R605 390k, R606 390k, R606 390k, R609 470, R610 470, R611 180k, R612 180k, R613 680, R614 680, R615 8.2k, R616 8.2k, R616 8.2k, R617 82k, R618 82k, R619 330k, R620 330k, R621 470, R621 470, R622 470, R622 42k, R624 22k,) ±10% 1/4W CR.	0101102 0101102 0101563 0101563 0101563 0101394 0101392 0101471 0101471 0101184 0101681 0101681 0101682 0101823 0101823 0101823 0101823 0101823 0101823 0101823 0101823 0101823 0101823 0101823	2 B 2 A 2 B 2 A 2 B 2 A 1 B 1 A 1 B 1 A 2 B 2 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 A 1 B 1 B

W	X	Y	Z
C601	1.5 µF)	0573159	2 B
C602	1.5 µF 25V TC.	0573159	2 B
C603	68 pF)	0660680	2 B
C604	68 pF	0660680	2 A
C605	68 pF \ ±10% 50V CC.	0660680	1 B
C606	68 pF)	0660680	1 A
C607	3.3 µF)	0515339	2 B
C608	3.3 µF 50V EC.	0515339	2 A
C609	33 µF)	0510101	2 B
C610	33μF) 10V EC.	0510101	2 A
C611	0.47 µF)	0573478	1 B
C612	0.47 μF) 25V TC.	0573478	1 A
C613	0.012 µF)	0601127	1 B
C614	0.012μF ±10% 50V MC.	0601127	1 A
C615	0.0033 µF (±10% 50V MC.	0601336	1 B
C616	0.0033 μF J	0601336	1 A
TR601)(-)	0305474	2 B
TR602	2SC871R(E)	0305474	2 A
TR603)(-)	0305475	2 B
TR604	2SC871R(F)	0305475	2 A
	Printed Circuit Board F-1267	2550140	



TONE & FILTER BLOCK $\langle \text{F-}1431 \rangle$ Stock No. 7560520

w	X	Y	z
R701	2.2kΩ)	0101222	1 B
R702	1ΜΩ	0101105	1 B
R 703	220kΩ	0101224	1 B
R 704	220kΩ	0101224	1 B
R705	120kΩ	0101124	1 B
R 706	12kΩ	0101123	1 A
R 707	22kΩ	0101223	1 A
R 708	1.8kΩ ±10% ¼W CR.	0101182	1 A
R 709	IkO (-10% /4VV CK.	0101102	1 B
R 710	330Ω	0101331	1 B
R 711	5.6kΩ	0101562	1 A , E
R712	1kΩ	0101102	1 B
R 713	47kΩ	0101473	1 A
R 714	3.3kΩ	0101332	1 A
R 715	820kΩ	0101824	1 A
R 716	100kΩ)	0101104	1 A
R717	220kΩ ±10% ¼W CR.	0101224	
R 718	220kΩ) -10/8 /4 VV CK.	0101224	
C701	0.22μF 25V TC.	0573228	1 B
C702	10μF 25V EC.	0513100	1 B
C703	0.022 µF)	0601227	1 B
C704	0.15 µF \ ±10% 50V MC.	0601158	1A, I
C705	0.0047 µF (±10% 30V MC.	0601476	1 B
C706	0.033μF)	0601337	1 B
C707	10μF 25V EC.	0513100	1 B
C708	10 pF ±10% 50V CC.	0660100	1 B
C709	47 μF 6.3V EC.	0510470	1 B
C 710	4.7 μF 25V EC.	0513479	1 A
C711	$0.015\mu F$ } ±10% 50V MC.	0601157	1 A
C712	0.022μF) ±10% 30V MC.	0601227	1 A
TR 701	2SA640(L, M)	0300301, 2	1 B
TR702	2SC632A(71)	0305761	1 B
	Printed Circuit Board F-1431	2560500	

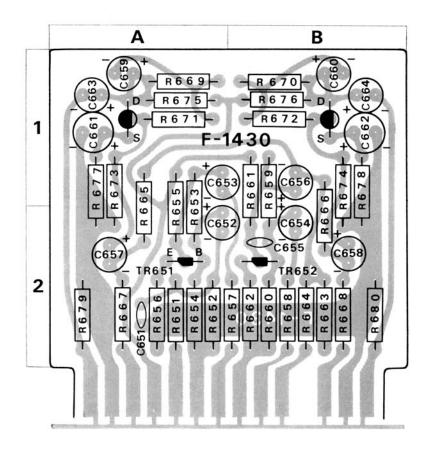


W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

14110 DEOON (1-1430) Stock No. 7550880	MIC	BLOCK	⟨F-1430⟩	Stock No. 7590880
--	-----	--------------	----------	-------------------

w	X	Y	Z
R651 R652 R653 R654 R655 R655 R656 R657 R658 R669 R661 R662 R663 R664 R665 R666 R667 R668 R669 R670 R671 R672 R672	1kΩ 10kΩ 470kΩ 56kΩ 33kΩ 1.5kΩ 3.3kΩ 2.2kΩ 470kΩ 220kΩ 3.3kΩ 560Ω 100kΩ 10Ω 47kΩ 47kΩ 47kΩ 47kΩ 47kΩ 330kΩ 330kΩ 56kΩ 56kΩ 56kΩ 56kΩ 68kΩ	0101102 0101103 0101474 0101563 0101333 0101152 0101322 0101222 0101474 0101224 0101332 0101561 0101104 0101100 0101473 0101473 0101473 0101473 0101473 0101473 0101473 0101473	2 A 2 A 1, 2 A 2 A 2 B 2 B 1, 2 B 2 B 2 B 2 B 2 B 2 B 1, 2 B 2 B 2 B 2 B 1, 2 A 1, 2
			1955 (1970)
R676	5.6kΩ)	0101562	1 B

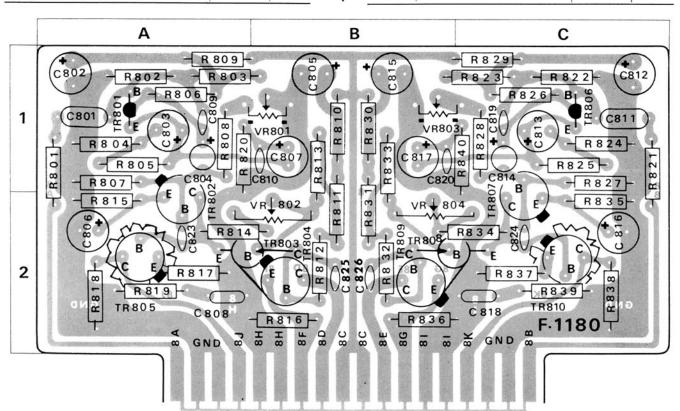
W		x	Y	Z
R677	680Ω)		0101681	1, 2 A
R678	680Ω	-0/ 1/	0101681	1,2B
R679	100kΩ } ±1	0% ¼W CR.	0101104	2 A
R680	100kΩ J		0101104	2 B
C651	100 pF ±1	0% 50V CC.	0660101	2 A
C652	0.1 μF)		0573108	2 A
C653	$0.1 \mu F$	25V TC.	0573108	1 A
C654	0.1 μF		0573108	2 B
C655	100 pF ±1	0% 50V CC.	0660101	2 B
C656	0.47 µF)		0573478	1 B
C657	0.68 µF		0573688	2 A
C658	0.68 µF >	25V TC.	0573688	2 B
C659	0.33 µF		0573338	1 A
C660	0.33 µF		0563338	1 B
C661	47 µF)	4 0 4 50	0510470	1 A
C662	47 µF	6.3V EC.	0510470	1 B
C663	1.5 µF)	201 70	0573159	1 A
C664	1.5 μF)	25V TC.	0573159	1 B
FET ₆₅₁	1 2010 1(5)		0370060	1 A
FET652	2SK24(E)		0370060	1 B
TR651	2SC632A81(W	/hite)	0305767	2 A
TR652	2SC632A71(W	/hite)	0305766	2 B
	Printed Circuit	Board F-1430	2591100	



DRIVER BLOCK $\langle F-1180F \rangle$ Stock No. 7570630

w	X	Y	Z
R801	4.7kΩ)	0101472	1, 2 A
R802	150kΩ	0101154	1 A
R803	560kΩ	0101564	1 A
R804	220Ω	0101221	1 A
R805	3.3kΩ	0101332	1 A
R806	10kΩ	0101103	1 A
R807	10kΩ	0101103	1 A
R808	47kΩ	0101473	1 A
R809	541.0	0101563	1 A . B
R 810	$\frac{36k\Omega}{1.8k\Omega}$ ± 10% $\frac{1}{4}$ W	O101182	1 B
R811	3.9kΩ	0101392	1,2B
R812	39Ω	0101390	2 B
R813	3.3kΩ	0101332	1,2B
R814	1.5kΩ	0101152	2 A , B
R815	220Ω	0101221	2 A
R816	220Ω	0101221	2 A . B
R 817	8.2Ω	0101829	2 A
R818	220Ω	0101221	2 A
R819	10Ω ±10% ½W	/ SR. 0121100	2 A
R820	5.6kΩ)	0101562	1 A
R821	4.7kΩ	0101472	1,2C
R822	150kΩ	0101154	1 C
R823	560kΩ	0101564	1 B , C
R824	220Ω	0101221	1 C
R825	$\frac{22012}{3.3k\Omega}$ \pm \pm 10% \frac{1}{4}W	CR. 0101332	1 C
R826	10kΩ	0101103	10
R827	10kΩ	0101103	1 C
R828	47kΩ	0101473	1 C
R829	56kΩ)	0101563	1 B , C

W	X	Y	Z
R830	1.8kΩ)	0101182	1 B
R831	3.9kΩ	0101392	1,2B
R832	39Ω	0101390	2 B
R833	3.3kΩ	0101332	1, 2 B
R834	1.5kΩ > ±10% ¼W CR.	0101152	2B, C
R835	220Ω	0101221	2 C
R836	220Ω	0101221	2 B
R837	8.2 \Omega	0101829	2C
R838	220 Ω	0101221	2 C
R839	$10k\Omega \pm 10\% \% \text{ SR}.$	0101103	2C
R840	5.6kΩ ±10% ¼W CR.	0101562	1,2C
VR801	200k $\Omega(B)$ AC Balance Adj.	1030150	1 A , E
VR802	$1k\Omega(B)$ DC Bias Adj.	1030690	2 A , B
VR803	200kΩ(B) AC Balance Adj.	1030150	1 B , C
VR804	1kΩ(B) DC Bias Adj.	1030690	2B, C
C801	0.22 μF ±10% 50V MC.	0601228	1 A
C802	47 μF 25V EC.	0513470	1 A
C803	220 μF 10V EC.	0511221	1 A
C804	$10 \mu F$ 16V EC.	0512100	1,2A
C805	$33\mu\text{F}$ 50V EC.	0515330	1 B
C806	100 μF 6.3V EC.	0510101	2 A
C807	$10\mu F$ 50V EC.	0515100	1 B
C808	$0.047 \mu F \pm 10\%$ 50V MC.	0601477	2 A
C810	$47 \text{pF} \pm 10\% 50 \text{V CC}.$	0660470	1 B
C811	$0.22 \mu F \pm 10\%$ 50V MC.	0601228	1 C
C812	47 μF 25V EC.	0513470	1 C



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

DRIVER BLOCK $\langle F\text{-}1180F \rangle$ (Cont'd)

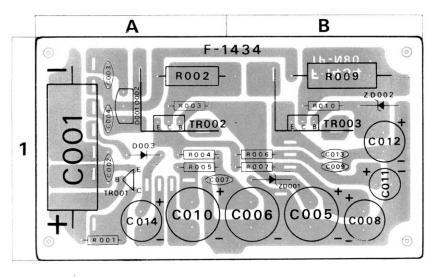
Stock No. 7570630

w		X		Y	Z
C813	220 μF	10V	EC.	0511221	1 C
C814	10μF	167	EC.	0512100	1 C
C815	33 μF	50V	EC.	0515330	1 B
C816	100 <i>μ</i> F	6.3V	EC.	0510101	2C
C817	10 <i>μ</i> F	50V	EC.	0515100	1 B
C818	$0.047\mu\text{F}$ \pm	10% 50V	MC.	0601477	2 C
C820	47 pF)			0660470	1 B
C823	47 pF			0660470	2 A
C824	47 pF			0660470	2 C
C825	330 pF \ ±	10% 50V	CC.	0660331	2 B
C826	330 pF			0660331	2 B
C827	100pF			0660101	
C828	100pF J			0660101	
TR801	2SC458LG(C))		0305311	1 A
TR802	2SC1124(2, 3)		0305901, 2	1,2/
TR803	2SC281(B)	7/0		0305121	2 B
TR804	2SC959(K, L)			0305740, 1	2 B
TR805	2SA606(K, L)			0300210, 1	2 A
TR806	2SC458LG(C))		0305311	1 C
TR807	2SC1124(2, 3)		0305901, 2	1,20
TR808	2SC281(B)	20		0305121	2 B
TR809	2SC959(K, L)			0305740, 1	2 A
TR810	2SA606(K, L)			0300210, 1	2 C
	Printed Circui	. Donad E	1190	2570221	

POWER BLOCK (F-1434)

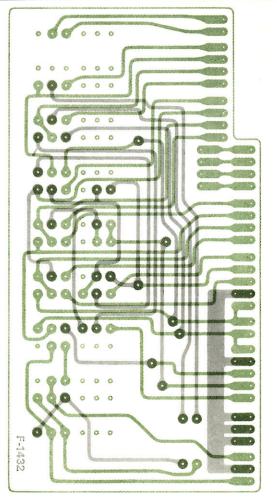
Stock No. 7500650

w	x	Y	z
R001	12kΩ ±10% ¼W CR.	0101123	1 A
R002	22Ω $\pm 10\%$ 1 W CR.	0104220	1 A
R 003	3.3kΩ)	0101332	1 A
R004	68Ω	0101680	1 A
R005	100Ω $\rangle \pm 10\%$ $\frac{1}{4}$ W CR.	0101101	1 A
R006	2.2kΩ	0101222	1 B
R 007	330Ω)	0101331	1 B
R009	330Ω $\pm 10\%$ 3 W CeR	0153331	1 B
R 010	4.7k Ω ±10% $\frac{1}{4}$ W CR.	0101472	1 B
C001	100 μF 100V EC.	0507101	1 A
C002	$0.1 \mu \text{F} ^{+80}_{-20}\% 500 \text{V CC}.$	0659011	1 A
C003	$0.047 \mu\text{F}$ $+80\%$ 50V CC.	0657473	1 A
C004	$0.047 \mu\text{F}$ -20° 300 CC.	0657473	1 A
C005	$220 \mu\text{F}$ 35V EC.	0514221	1 B
C006	220 μF J	0514221	1 B
C007	$0.047 \mu \text{F} $	0657473	1 A , E
C008	220μF 25V EC.	0513221	1 B
C009	$0.047 \mu\text{F} {}^{+80}_{-20}\% 50 \text{V CC}.$	0657473	1 B
C010	220μF 35V EC.	0514221	1 A
C011	100μF 25V EC.	0513101	1 B
C012	330μF 16V EC.	0512331	1 B
C013	$0.047 \mu F + \frac{80}{20}\%$ 50V CC.	0657473	1 B
C014	470μF 10V EC.	0511471	1 A
TRooi	2SC1124(2, 3)	0305901, 2	1 A
TR002	} 2SD330(D, E)	0308361, 2	1 A
TR003) 23D330(D, E)	0308361, 2	1 B
D001,002	10DC-1	0310680	1 A
D 003	10D-05	0310880	1 A
ZD001	RD35A-L	0315480	1 B
ZD002	RD13A-M	0315300	1 B
	Printed Circuit Board F-1434	2500530	



SWITCH	(A)	BLOCK	⟨F-1432⟩	Stock No. 7590900
---------------	-----	--------------	----------	----------------------

W	x	Y	Z
R751 R752	$\frac{10k\Omega}{10k\Omega}$ $\pm10\%$ $\frac{1}{4}$ W CR	0101103	
S8 S9 S10 S11 S12 S13 S14 S15	'REVERSE' 'MONO' 'N.R ADAPTOR' 'TAPE-1' 'TAPE-2' 'SOURCE' '4CH ADAPTOR' 'FM MUTING OFF'	ton itch 1130550	
	Printed Circuit Board F-1432	2591110	



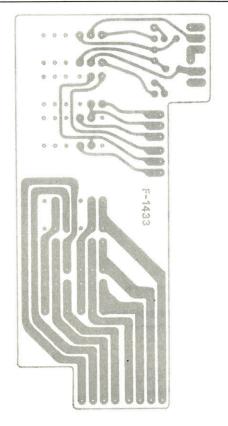
LAMP BLOCK (F-1374A)

Stock No. 7590890

W	X	Y	Z
PL008	1)	0420040	
PL009		0420040	
PL010	7V 300mA	0420040	
PL011	Dial Indicator Lamp	0420040	
PL012	IJ	0420040	
	Holder	2310050	
	Printed Circuit Board F-1374	2590760	

SWITCH (B) BLOCK $\langle F\text{-}1433 \rangle$ Stock No. 7590910

	• •		
w	X	Y	Z
R753 R754 R755 R756	$ \begin{vmatrix} 10k\Omega \\ 10k\Omega \\ 22k\Omega \\ 22k\Omega \end{vmatrix} \pm 10\% \frac{1}{4}W CR. $	0101103 0101103 0101223 0101223	
C751 C752 C753 C754		0620471 0620471 0601227 0601227	
\$2 \$3 \$4 \$5 \$6 \$7	'SPEAKERS A' 'SPEAKERS B' 'SPEAKERS C' 'LOW FILTER' 'HIGHT FILTER' 'LOUDNESS'	1130580	
	Printed Circuit Board F-1433	2591120	

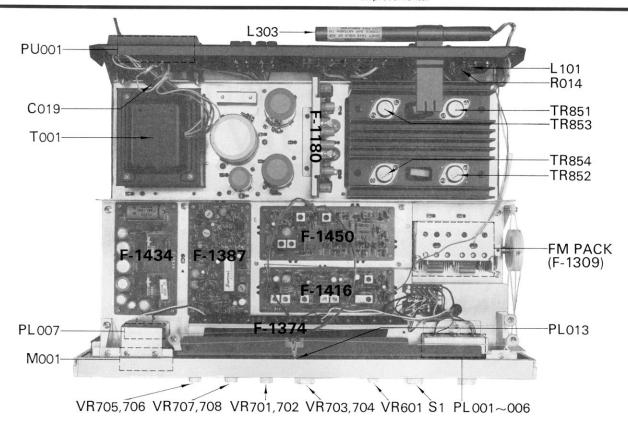


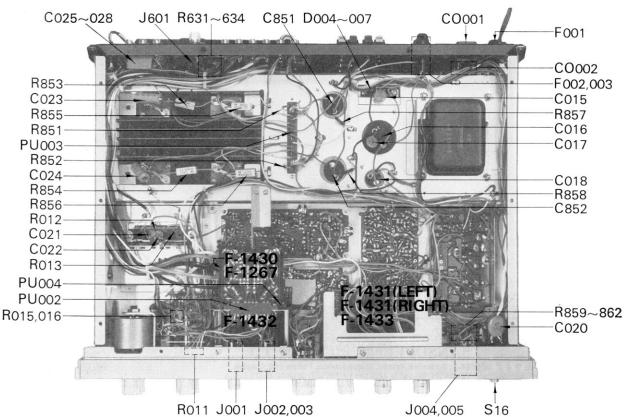
OTHER PARTS AND THEIR POSITION ON CHASSIS

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

W	X	Y
R011	22Ω)	0101220
R012	47Ω	0101470
R 013	330Ω	0101331
R 014	1.5kΩ	0101152
R015	2.2kΩ	0101222
R016	2.2kΩ +10% 1/W CB	0101222
R631	$\frac{2.2k\Omega}{220k\Omega}$ ± 10% $\frac{1}{4}$ W CR.	0101224
R632	220kΩ	0101224
R633	100kΩ	0101104
R634	100kΩ	0101104
R851	820kΩ	0101824
R852	820kΩ)	0101824
R853	0.47Ω	0153478
R854	0.47Ω	0153478
R855	$\begin{pmatrix} 0.47\Omega \end{pmatrix} \pm 10\%$ 3 W CeR.	0153478
R856	0.47Ω	0153478
R857	470Ω)	0171471
R858	470Ω	0171471
R859	560.0	0171561
R860	560Ω $\pm 10\%$ 1 W MFR.	0171561
R861	560Ω	0171561
R862	560Ω)	0171561
C015	$0.01 \mu F + \frac{80}{-20}\%$ 500V CC.	0659011
C016	$3300\mu\text{F}$ 100V EC.	0559831
C017	$0.01 \mu F + \frac{80}{20}\%$ 500V CC.	0659011
C018	$1000 \mu\text{F}$ 50V EC.	0559302
C019	0.01 5)	0657801
C020	$0.01 \mu F$ $+80\%$ 1.4kV CC.	0659801
C021	0.000()	0657223
C022	$0.022 \mu \text{F}$ $+80\%$ 500V CC.	0657223
C023	0.145)	0595108
C024	$0.1 \mu F$ $\pm 10\%$ 400V CC.	0595108
C025~028	1.00	0800121
C851	2200 (/F)	0559820
C852	2200 μF 80V EC.	0559820
VR601	50kΩ(B) Mic Level Control	1005111
VR 701,702	Ω 250k Ω (M, N) Balance Control	1010801
VR 703 , 704	4 250k Ω (B) Volume Control	1010510
VR705,70	1	
∨R 707 , 708	100 k $\Omega(extsf{C}) imes 2$ Treble Control	
TR851		0305450,1,2
TR852		0305450,1,2
TR853	2SC793(R, Y, BL)	0305450,1,2
TR854	 	0305450,1,2
11004	TR Socket	2030020
D004~007		0310660
T 001	Power Transformer	4001110
L101	300Ω -75 Ω FM Balloon	4290021
L303	AM Bar Antenna	4200380
M001		
S1	Selector Control	1104220
S16	Power Switch	1130350

w	x	Y
F001	Power Fuse 100-117V 5A	0431280
	220-240V 3A	0431260
F002	Quick-Acting Fuse (Left) 4A	0433270
F003	Quick-Acting Fuse (Right) 4A	0433270
	Fuse Holder	2300070
PL001	7V 200mA 'PHONO 2' Indicator	040015
PL002	7V 200mA 'PHONO 1' Indicator	040015
PL003	7V 200mA 'FM' Indicator	040014
PL004	7V 200mA 'AM' Indicator	040015
PL005	7V 200mA 'AUX' Indicator	0400170
PL006	6V 100mA 'FM STEREO' Indicator	040016
PL007	7V 300mA Signal Meter Lamp	042004
PL013	6.3V 75mA Dial Pointer Lamp	042002
PU001	Voltage Selector Plug	241009
	Socket	241008
PU002	Multi-Connector (For F-1267C)	242003
PU003	Multi-Connector (For F-1180F)	242002
PU004	Multi-Connector (For F-1430)	242004
J001	Microphone Jack w/ switch	-
J 002	TAPE REC Phone Jack w/ switch	243017
J 003	TAPE PLAYBACK Phone Jack w/ switch	243017
J 004	Headphone Jack w/o switch	
J 005	Headphone Jack w/ switch	243017
J 601	DIN socket	243004
CO001	AC Outlet w/o switch	2450040
CO002	AC Outlet w/ switch	2450040
	FM Pack F-130 9	7510340







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