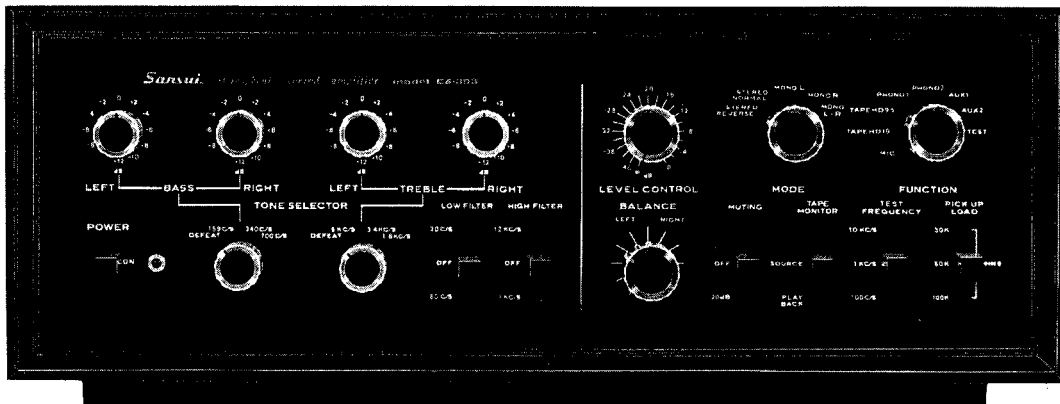


SERVICE MANUAL

STEREOPHONIC CONTROL AMPLIFIER

SANSUI CA-303



Sansui®

SANSUI ELECTRIC COMPANY LIMITED

HOW TO USE THIS SERVICE MANUAL

1. Look up the type of trouble you are confronted with in either the General or Troubleshooting charts provided in this manual from pp 2-10.
2. By referring to the charts, isolate the trouble to a particular unit or part. (See the column titled "What to Do" in the General Chart and "Check Point" in the Troubleshooting Chart.)
3. Locate the section of the chassis (Parts Layout pp 11, 12) in which the parts is located by using the co-ordinates (Column D) in the Parts List pp 23-26.
4. Using the co-ordinates given in the Parts List (Column C), pinpoint the position of the parts in the Schematic Diagram of Circuits, pp 13, 14.

NOTE: Much of the information contained in this manual has been prepared for use by qualified service repairmen. Please read your Warranty thoroughly before attempting any internal adjustments on your own.

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GENERAL CHART

If the amplifier is not operating satisfactorily, the trouble may be attributed to any of the following:

1. Loose terminal contact or incorrect connections of components;
2. Incorrect operation of component or components;

3. Improper placement of components, such as speakers and record player;
4. Defective component or components connected to the CA-303.

If the cause of trouble is not found in any of the above steps, the next steps to do are listed below:

PROGRAM SOURCE	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
Tuner	A. Constant or intermittent noise heard at times or in a certain area	<ul style="list-style-type: none"> * Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor, rectifier and oscillator * Insufficient antenna input due to thick reinforced concrete wall of building or long distance from station * Wave interference * Natural phenomena, such as atmospherics, statics, strays and thunderbolt 	<ul style="list-style-type: none"> * Attach a noise limiter to the electrical appliance that causes such noise or attach it to the tuner. * Keep the tuner well away from the electrical appliance that causes such noise. * Install an outdoor antenna and ground the amp to raise the signal-to-noise ratio. * If the noise occurs at a certain frequency, attach a wave trap to the ANT. input. * Reverse the power cord plug/receptacle connections.
	B. During AM reception noise is heard at a particular time of a day, in a certain area or over part of dial.	<ul style="list-style-type: none"> * Field intensity of AM broadcast 	<ul style="list-style-type: none"> * Install antenna for maximum antenna efficiency. * In some cases, the noise can be eliminated by grounding the amp or reversing the power cord plug/receptacle connections.
	C. High-frequency noise during AM reception	<ul style="list-style-type: none"> * Adjacent-channel interference or beat interference * TV set too close to the audio system 	<ul style="list-style-type: none"> * Although such noise cannot be completely eliminated by the amp, it is advisable to turn the TREBLE controls to the minimum counter-clockwise position possible and set the HIGH FILTER to 7KHz or 12KHz. * Keep the TV set well away from the audio system.
	D. Noisy during FM reception	<ul style="list-style-type: none"> * Insufficient antenna input <p>NOTE: FM reception is affected considerably by the conditions of transmission by stations, power and antenna efficiency. As a result, you may receive one station quite well while having difficulty in receiving another station.</p>	<ul style="list-style-type: none"> * Install antenna for maximum signal strength. * If this procedure does not prove effective, use an outdoor antenna designed exclusively for FM. * When you will use a TV antenna as a FM antenna with help of a divider, make sure the TV reception is not affected. * Excessive long antenna may rather cause a noise.
	E. An accompanying series of pops is heard during FM reception.	<ul style="list-style-type: none"> * Electrical noise produce by the ignition systems of automobile engines and other internal combustion engines 	<ul style="list-style-type: none"> * Increase the height of antenna.

GENERAL CHART

PROGRAM SOURCE	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
Tuner (Continued from the preceding page)	F. Noisy not during FM mono reception but during FM stereo.	* The service area of the FM stereo broadcast is only half as much as that of the FM mono.	* Install antenna for maximum signal strength. * Turn the TREBLE controls to the minimum counterclockwise position possible and set the HIGH FILTER to 7Kc/s or 12Kc/s.
Record player, tape recorder or deck	A. Hum or howl	* Record player placed directly on, or too close to the speaker box * Connecting wire not shielded * Loose terminal contact * Connecting cord too near to power cord, fluorescent lamp or other electrical appliances * Nearby amateur radio station or TV transmission antenna	* Place a cushion between player and enclosure or place them away from each other. * Use shielded wire. * Set the LOW FILTER to 30c/s or 60c/s. * Connecting cord should be as short as possible. * Don't emphasize bass tones excessively. * Consult the nearest Radio Regulatory Bureau
	B. Surface noise	* Worn or old record * Worn pick-up needle * Improper needle pressure * Worn or dusty playback head	* Turn the TREBLE controls properly from mid-position to left and/or set the HIGH FILTER to 7Kc/s or 12 Kc/s. * Replace needle or head.
Common to all program sources	C. The BALANCE control is not in mid-position when equal sound comes from left and right channels.	* Imperfections in program material, variations in speaker output and vagaries of room acoustics	* Turn the MODE switch to MONO L R and adjust the BALANCE control so that the sound originates at a point midway between speakers.

TROUBLESHOOTING CHART

COMMON TO ALL PROGRAM SOURCES

SYMPTOM	PROBABLE CAUSE		CHECK POINT			
No output signal	A. No power	1. No power comes to the power source.	S ₁₃ F ₀₀₁ T ₀₀₁ C ₀₅₇ d.c. power supply circuit Use a tester D ₀₀₁ ~D ₀₀₈ T ₀₀₁			
		2. Defective POWER switch				
		3. Defective line cord				
		4. Blown fuse				
No output signal	A. No power	5. If the fuse should blow out as soon as it is replaced, the trouble may be attributed to:	S ₁₃ F ₀₀₁ T ₀₀₁ C ₀₅₇ d.c. power supply circuit Use a tester D ₀₀₁ ~D ₀₀₈ T ₀₀₁			
		a. Shorted power transformer;				
		b. Shorted electrolytic capacitor				
		c. Shorted d.c. power supply circuit				
No output signal	A. No power	d. Shorted diode	S ₁₃ F ₀₀₁ T ₀₀₁ C ₀₅₇ d.c. power supply circuit Use a tester D ₀₀₁ ~D ₀₀₈ T ₀₀₁			
		6. Disconnected power transformer				
		B. Defective power circuit		Measured voltage differs from voltage specified in Circuit Diagram.	Measure voltage in power circuit and replace defective element.	
		C. Defective low-frequency circuit		1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Defective tube 3. Shorted electrolytic capacitor	Measure voltage in low-frequency circuit and replace defective element. V ₇₀₁ ~V ₇₀₆ C ₀₅₆ ~C ₀₆₄	
No output signal	A. No power	TAPE MONITOR switch remains in PLAYBACK position.	Turn TAPE MONITOR switch to SOURCE.			
		D. Error in operation				
		Weak output signal		A. Defective power circuit	Measured voltage differs from voltage specified in Circuit Diagram.	Measure voltage in power circuit and replace defective element.
		Weak output signal		B. Defective low-frequency circuit	1. Measured voltage differs from voltage specified in Circuit Diagram.	Measure voltage in low-frequency circuit and replace defective element. C ₇₀₁ ~C ₇₀₄ , C ₇₂₉ , C ₇₃₀ , C ₇₃₉ , C ₇₄₀ , C ₇₄₉ , C ₇₅₀ V ₇₀₁ ~V ₇₀₆
2. Capacitor, poor capacitance or shorted						
3. Weak tube						
Distortion	A. Defective power circuit	Measured voltage differs from voltage specified in Circuit Diagram.	Measure voltage in power circuit and replace defective element.			
	B. Defective low-frequency circuit	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Weak tube 3. Defective resistor	Measure voltage in low-frequency circuit and replace defective element. V ₇₀₁ ~V ₇₀₆ R ₇₃₉ , R ₇₄₀ and others.			

TROUBLESHOOTING CHART

COMMON TO ALL PROGRAM SOURCES (cont'd)

SYMPTOM	PROBABLE CAUSE		CHECK POINT
Hum	A. Defective power circuit	Poor capacitance of electrolytic capacitor	C ₀₅₆ ~C ₀₆₄
	B. Defective low-frequency circuit	Weak tube	V ₇₀₁ ~V ₇₀₆
Noisy	A. Defective power circuit	Measured voltage differs from voltage specified in Circuit Diagram.	Measure voltage in power circuit and replace defective element.
	B. Defective low-frequency circuit	1. Weak tube 2. Fixed resistor, defective 3. Defective capacitor	V ₇₀₁ ~V ₇₀₆ R ₇₀₅ , R ₇₀₆ , R ₇₁₁ , R ₇₁₂ , R ₇₇₁ , R ₇₇₂ C ₇₀₁ ~C ₇₀₄ , C ₇₂₉ , C ₇₃₀ , C ₇₃₉ , C ₇₄₀ , C ₇₄₉ , C ₇₅₀
LOW FILTER switch does not work at all.	A. Defective low filter circuit B. Defective switch		LF-1 (C ₇₃₁ ~C ₇₃₈ , R ₇₅₉ , R ₇₆₀) S _{11a} , S _{11b}
HIGH FILTER switch does not work at all.	A. Defective high-filter circuit B. Defective switch		HF-1 (C ₇₄₁ ~C ₇₄₄), HF-2 (C ₇₄₅ ~C ₇₄₈) R ₇₆₅ ~R ₇₆₈ S _{12a} , S _{12b}
MUTING switch does not work at all.	A. Defective muting circuit B. Defective switch		R ₇₀₁ , R ₇₀₂ S _{6a} , 6b
TEST FREQUENCY switch does not work at all.	A. Oscillation frequency switching circuit defective B. Defective switch		C ₀₄₇ ~C ₀₅₂ , R ₀₇₃ , R ₀₇₈ S ₃
PICK-UP LOAD switch does not work at all.	A. Pick-up load circuit defective B. Defective switch		PU-R (R ₆₀₃ ~R ₆₁₄) S _{2a} , 2b
TONE CONTROL does not work at all.	A. Tone control circuit defective B. Defective switch		R ₇₁₃ ~R ₇₅₈ S _{8a} ~8d, S _{10a} ~10d
TONE SELECTOR switch does not work at all.	A. Tone selector circuit defective B. Defective switch		C ₇₀₅ ~C ₇₂₈ S _{7a} ~7d, S _{9a} ~9d

PROGRAM SOURCE: RECORD PLAYER USING MAGNETIC CARTRIDGE, TAPE DECK OR MICROPHONE

SYMPTOM	PROBABLE CAUSE	CHECK POINT
No output signal	A. Record player, tape deck or microphone defective	Check each component connected to CA-303.
	B. Trouble common to all program sources	See "CONTROL AMP TROUBLE-SHOOTING CHART: Common to All Program Sources".
	C. Equalizer amplifier defective	<ol style="list-style-type: none"> 1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Capacitor, shorted or open 3. Defective resistor 4. Defective tube 5. Bad contact at rotary switch 6. Loose contact at input terminals or pin jacks Measure voltage in equalizer amplifier and replace defective element. $C_{601}, C_{602}, C_{605}, C_{606}, C_{611}, C_{612}$ $R_{612}, R_{613}, R_{627} \sim R_{630}, R_{633}, R_{634}$ $V_{601} \sim V_{606}$ $S_{1a} \sim 1e, S_{1g} \sim 1k$
Weak output signal	A. Record player, tape deck or microphone defective	Check each component connected to CA-303.
	B. Trouble common to all program sources	See the column "Weak output signal" in the troubleshooting chart "Common to All Program Sources".
	C. Equalizer amplifier defective	<ol style="list-style-type: none"> 1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Weak capacitor 3. Weak tube 4. Bad contact at rotary switch 5. Loose contact at input terminals or pin jacks Measure voltage in equalizer amplifier and replace defective element. $C_{603}, C_{604}, C_{625}, C_{626}$ $V_{601} \sim V_{606}$ $S_{1a} \sim 1e, S_{1g} \sim 1k$
Distortion	A. Program source defective	Check each component connected to CA-303.
	B. Trouble common to all program sources	See the column "Distortion" in the troubleshooting chart: "Common to All Program Sources".
	C. Equalizer amplifier defective	<ol style="list-style-type: none"> 1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Weak capacitor 3. Weak tube 4. Defective resistor Measure voltage in equalizer amplifier and replace defective element. $C_{603}, C_{604}, C_{605}, C_{606}, C_{609} \sim C_{618}$ $V_{601} \sim V_{606}$ $R_{615} \sim R_{632}, R_{635} \sim R_{648}$
Hum	A. Program source defective	Check each component connected to CA-303.
	B. Trouble is not in CA-303.	Incorrect or improper connections

TROUBLESHOOTING CHART

PROGRAM SOURCE : RECORD PLAYER USING MAGNETIC CARTRIDGE, TAPE DECK OR MICROPHONE (cont'd)

SYMPTOM	PROBABLE CAUSE	CHECK POINT
Hum (Continued from the preceding page)	C. Trouble common to all program sources	See the column "Hum" in the troubleshooting chart: "Common to All Program Sources".
	D. Equalizer amplifier defective Weak tube	V ₆₀₁ ~V ₆₀₆
Noisy	A. Program source defective	Check each component connected to CA-303.
	B. Trouble is not in CA-303.	See the TROUBLESHOOTING AUDIO SYSTEM.
	C. Trouble common to all program sources	See the column "Noisy" in the troubleshooting chart: "Common to All Program Sources".
	D. Equalizer amplifier defective 1. Weak tube 2. Fixed resistor defective 3. Weak capacitor	V ₆₀₁ ~V ₆₀₆ R ₆₂₁ , R ₆₂₂ , R ₆₂₇ , R ₆₂₈ , R ₆₂₉ , R ₆₃₀ , R ₆₃₃ , R ₆₃₄ C ₆₀₅ , C ₆₀₆ , C ₆₁₁ , C ₆₁₂ and others

PROGRAM SOURCE: OTHERS

SYMPTOM	PROBABLE CAUSE	CHECK POINT
Tuner and other components connected to AUX inputs of CA-303 don't work well.	1. Program source defective 2. Incorrect or improper connections	Check and repair or replace.
Tape recorder connected to CA-303 does not play well.	1. Program source defective 2. Incorrect or improper connections	Check and repair or replace. See the troubleshooting chart on "Common to All Program Sources".
Broadcast recording in not well done.	1. Defective tuner 2. Defective tape or recorder 3. Incorrect or improper connections	Check and repair or replace.
Disc, tape and other sources connected to AUX inputs of CA-303 are not well recorded on tape.	1. Defective tape or recorder 2. Incorrect or improper connections 3. Defective record player or worn record 4. Defective AUX inputs 5. Equalizer amp section defective	Check and repair or replace. See preceding chart.

CHANNEL DIVIDER TROUBLE SHOOTING CHART

SYMPTOM	PROBABLE CAUSE	CHECK POINT
No output signal over all filter pass bands	A. Power circuit defective	Measured voltage differs from voltage specified in Circuit diagram. Measure voltage in power circuit and replace defective element.
	B. Filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Electrolytic capacitor shorted 3. Defective transistor Measure voltage in filter amp and replace defective element. Check each element for abnormal voltage. Check TR ₀₀₁ and TR ₀₀₂ for abnormal voltage
	C. Improper or incorrect input connections	
No output signal over high-pass filter band	A. High-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Defective transistor Measure voltage in high-pass filter amp and replace defective element. Check TR ₀₀₃ ~TR ₀₀₆ for abnormal voltage.
	B. Improper or incorrect output connections	
No output signal over medium-pass filter band	A. Medium-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Defective transistor Measure voltage in medium-pass filter amp and replace defective element. Check TR ₀₀₇ ~TR ₀₁₄ for abnormal voltage.
	B. Improper or incorrect output connections	
No output signal over low-pass filter band	A. Low-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Defective transistor Measure voltage in low-pass filter amp and replace defective element Check TR ₀₁₅ ~TR ₀₁₈ for abnormal voltage
	B. Improper or incorrect output connections	
Weak output signal over all filter pass bands	A. Power circuit defective	Measured voltage differs from voltage specified in Circuit Diagram. Measure voltage in power circuit and replace defective element.
	B. Buffer amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging Measure voltage in buffer amp and replace defective element. TR ₀₀₁ , TR ₀₀₂
Weak output signal over high-pass filter band	A. High-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging Measure voltage in high-pass filter amp and replace defective element. TR ₀₀₃ ~TR ₀₀₆

TROUBLESHOOTING CHART

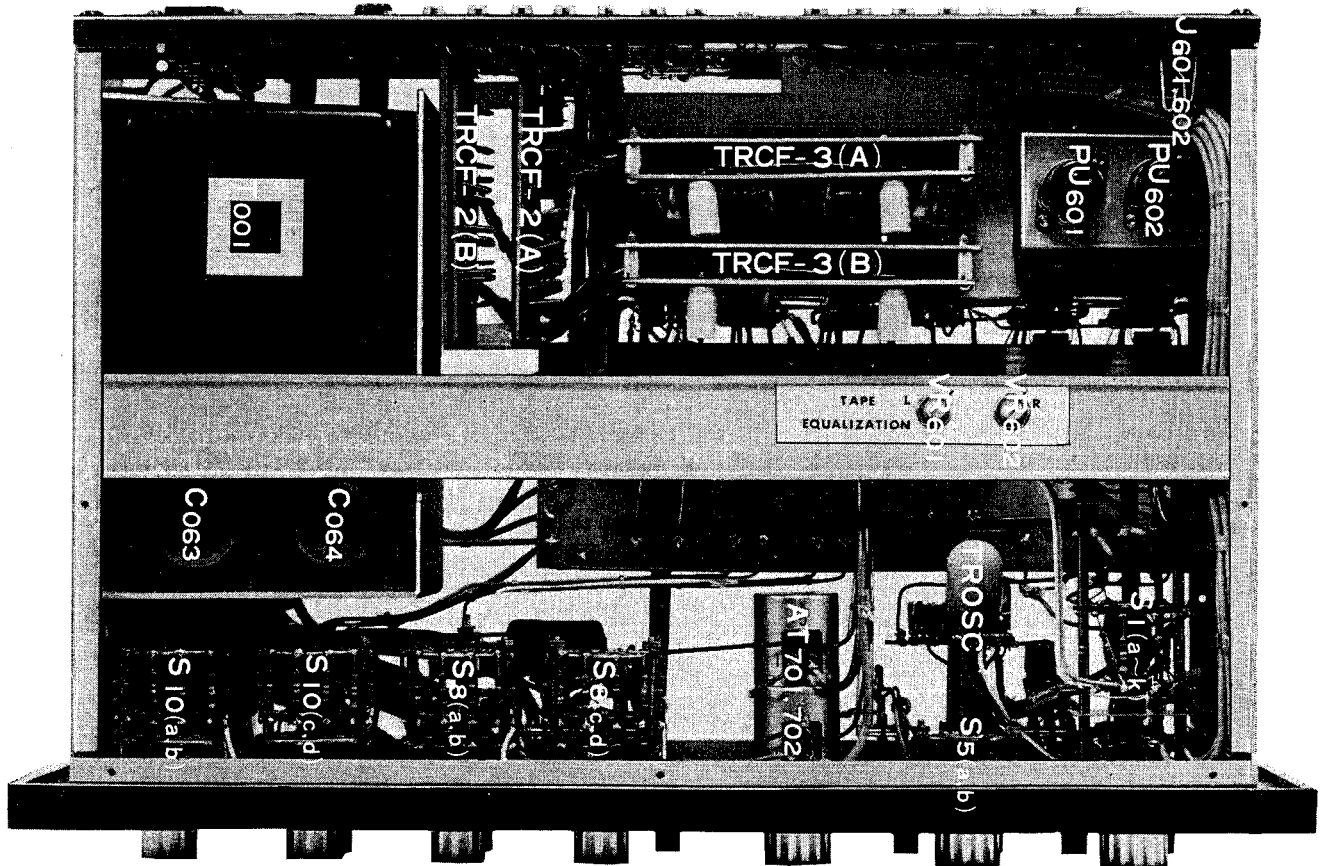
CHANNEL DIVER TROUBLESHOOTING CHART (cont'd)

SYMPTOM	PROBABLE CAUSE	CHECK POINT	
Weak output signal over medium-pass filter band	A. Medium-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging	Measure voltage in medium-pass filter amp and replace defective element. TR ₀₀₇ ~TR ₀₁₄
Weak output signal over low-pass filter band	A. Low-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging	Measure voltage in low-pass filter amp and replace defective element. TR ₀₁₅ ~TR ₀₁₈
Distortion over all filter pass band	A. Power circuit defective	Measured voltage differs from voltage specified in Circuit Diagram.	Measure voltage in power circuit and replace defective element.
	B. Buffer amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging	Measure voltage in buffer amp and replace defective element. TR ₀₀₁ , TR ₀₀₂
Distortion over high-pass filter band	A. High-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging	Measure voltage in high-pass filter amp and replace defective element. TR ₀₀₃ ~TR ₀₀₆
Distortion over medium-pass filter band	A. Medium-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging	Measure voltage in medium-pass filter amp and replace defective element. TR ₀₀₇ ~TR ₀₁₄
Distortion over low-pass filter band	A. Low-pass filter amp defective	1. Measured voltage differs from voltage specified in Circuit Diagram. 2. Transistor aging	Measure voltage in low-pass filter amp and replace defective element. TR ₀₁₅ ~TR ₀₁₈
Hum over all filter pass bands	A. Power circuit defective	Poor capacitance of electrolytic capacitor	C ₀₆₃ , C ₀₆₅ , C ₀₆₆
	B. Filter amp defective	Poor capacitance of electrolytic capacitor	C ₀₂₃ , C ₀₂₄ , C ₀₄₅ , C ₀₄₆
	C. Improper or incorrect input connections		
Noisy over all filter pass band	A. Power circuit defective	Measured voltage differs from voltage specified in Circuit Diagram.	Measure voltage in power circuit and replace defective element.
	B. Buffer amp defective	Transistor aging	TR ₀₀₁ , TR ₀₀₂
Noisy over high-pass filter bands	A. High-pass filter amp defective	1. Transistor aging	TR ₀₀₃ ~TR ₀₀₆
		2. Output volume defective	VR ₀₀₃ , VR ₀₀₄
Noisy over medium-pass filter band	A. Medium-pass filter amp defective	1. Transistor aging	TR ₀₀₇ ~TR ₀₁₄
		2. Output volume defective	VR ₀₀₁ , VR ₀₀₂

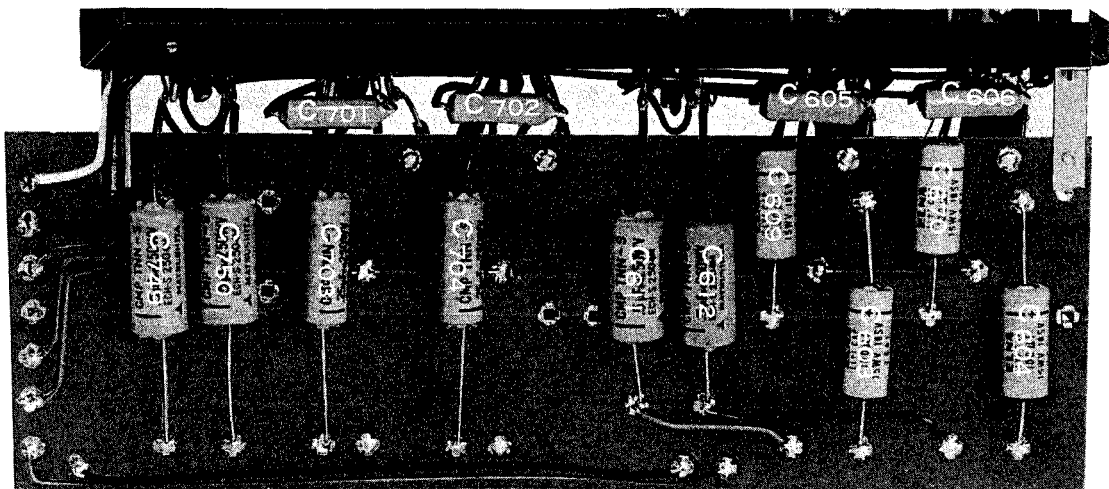
SYMPTOM	PROBABLE CAUSE		CHECK POINT
Noisy over low-pass filter band	A. Low-pass filter amp defective	<ol style="list-style-type: none"> 1. Transistor aging 2. Output volume defective 	TR ₀₁₅ ~TR ₀₁₈ VR ₀₀₅ , VR ₀₀₆
Frequency is not divided at all.	A. Plug-in unit defective	<ol style="list-style-type: none"> 1. Defective capacitor 2. Defective resistor 3. Multi-connector not connected properly 	C ₀₀₅ ~C ₀₁₀ , C ₀₁₃ ~C ₀₁₈ , C ₀₂₅ ~C ₀₃₀ , C ₀₃₅ ~C ₀₄₀ R ₀₁₃ , R ₀₁₄ , R ₀₂₇ , R ₀₂₈ R ₀₄₁ , R ₀₄₂ , R ₀₅₉ , R ₀₆₀
	B. Refer to the column on defective filter amp.		
Frequency is not divided at cross-over between high and mid-ranges	A. Plug-in unit defective	<ol style="list-style-type: none"> 1. Defective capacitor 2. Defective resistor 3. Multi-connector not connected properly 	C ₀₀₅ ~C ₀₁₀ , C ₀₁₃ ~C ₀₁₈ R ₀₁₃ , R ₀₁₄ , R ₀₂₇ , R ₀₂₈
	Refer to the columns on defective high-and medium-pass filter amplifiers.		
Frequency is not divided at cross-over between mid and low ranges.	A. Plug-in unit defective	<ol style="list-style-type: none"> 1. Defective capacitor 2. Defective resistor 3. Multi-connector not connected properly 	C ₀₂₅ ~C ₀₃₀ , C ₀₃₅ ~C ₀₄₀ R ₀₄₁ , R ₀₄₂ , R ₀₅₉ , R ₀₆₀
	Refer to the columns on defective mid- and low-pass filter amplifier		

PARTS LAYOUT

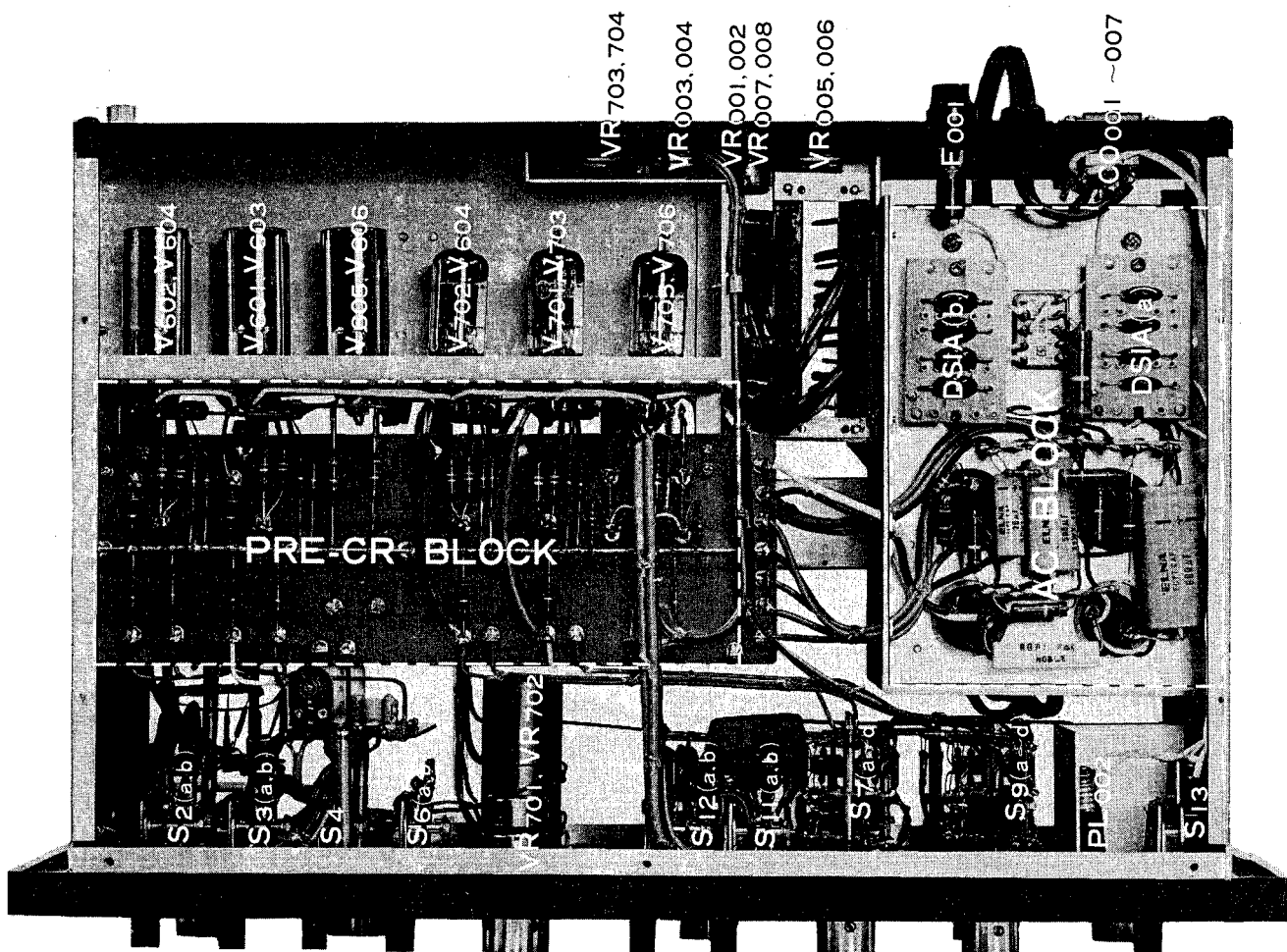
UPPER SECTION OF AMPLIFIER



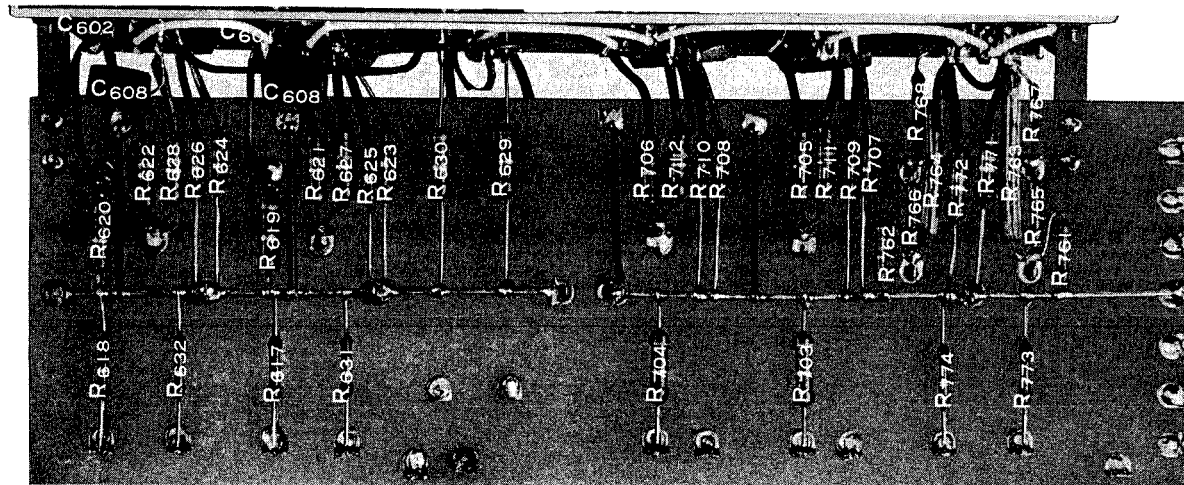
PRE-CR BLOCK (A)



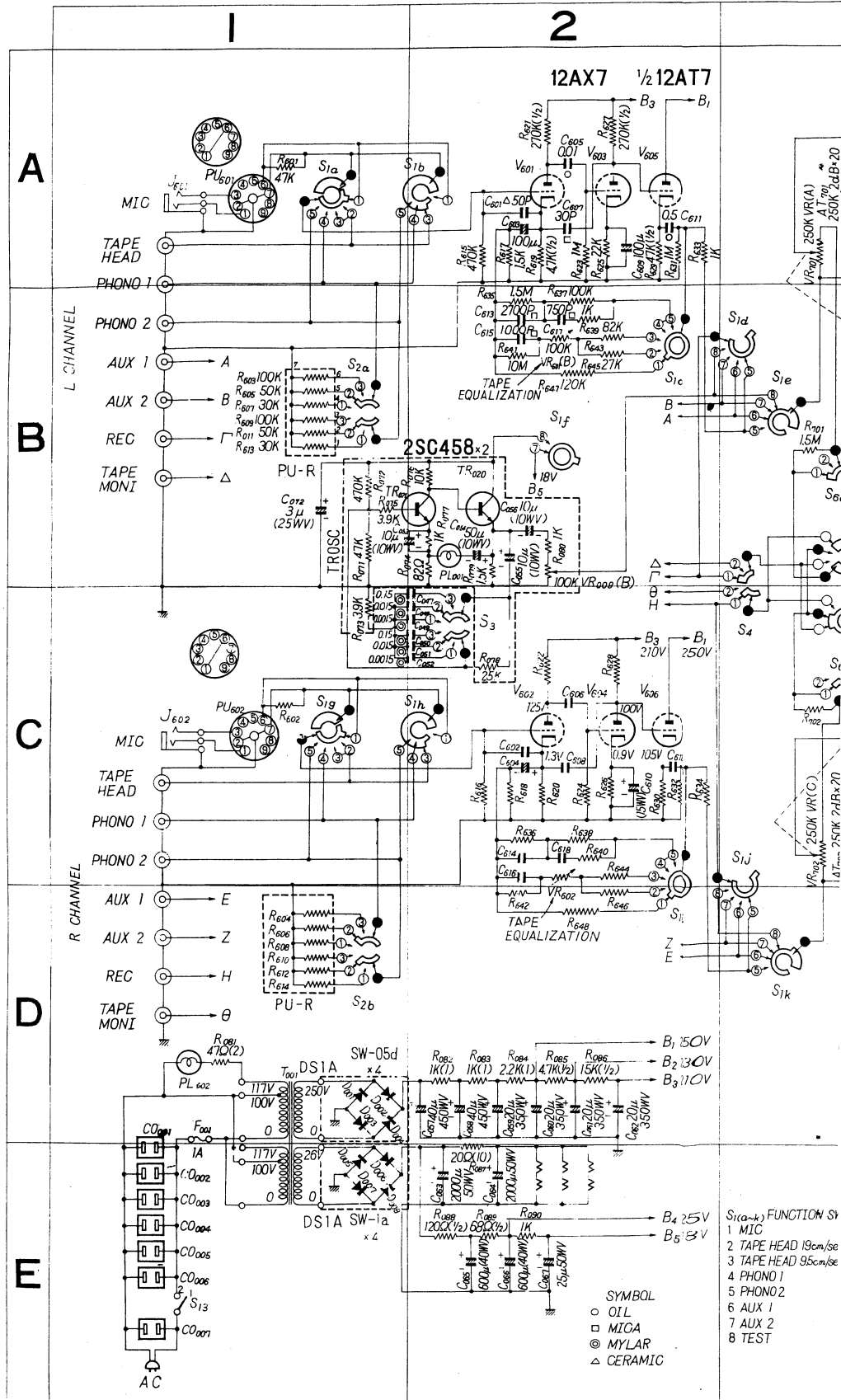
LOWER SECTION OF AMPLIFIER

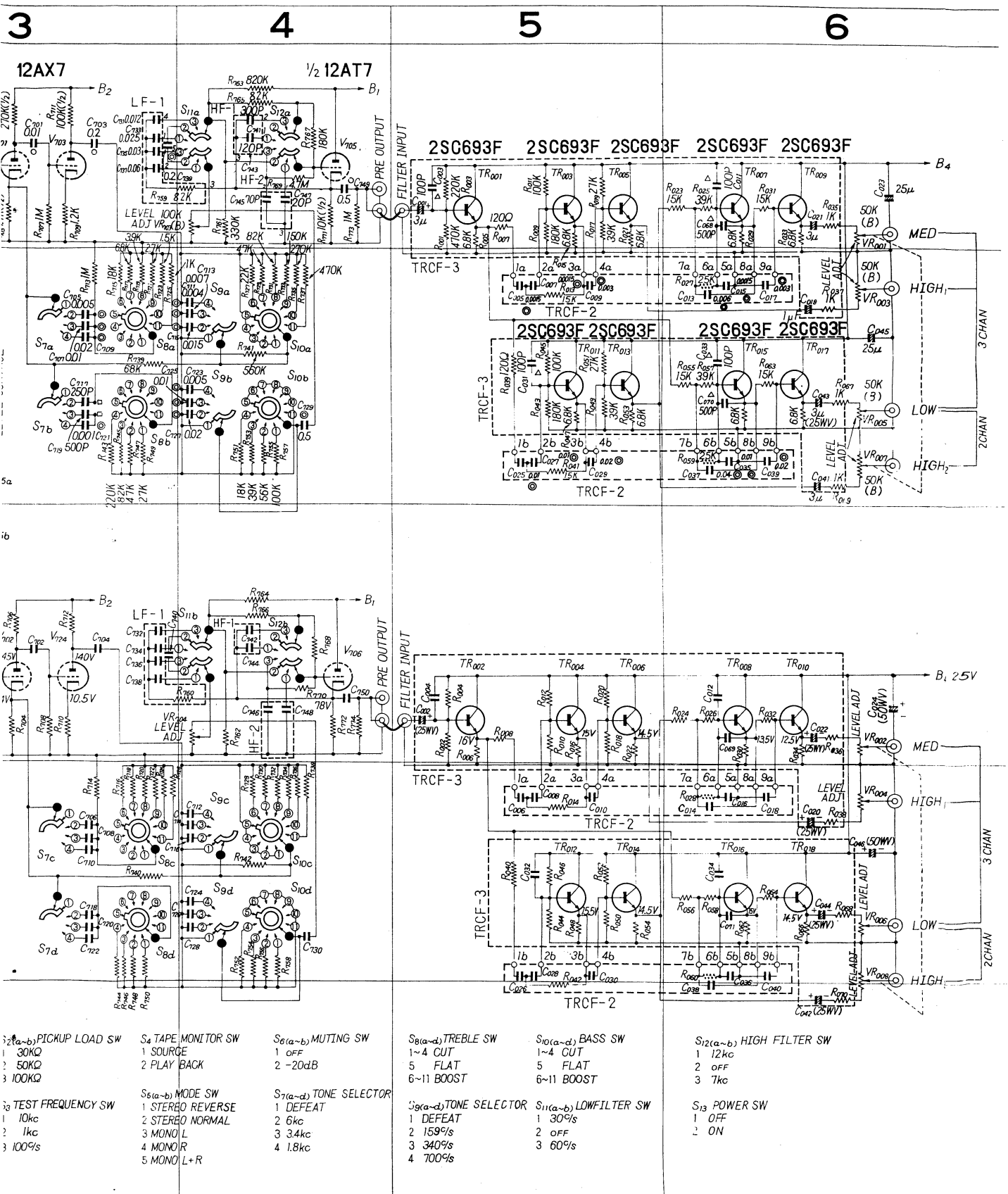


PRE-CR BLOCK (B)



CIRCUIT DIAGRAM





- S2(a-b) PICKUP LOAD SW
 1 30KΩ
 2 50KΩ
 3 100KΩ
- S3 TEST FREQUENCY SW
 1 10kc
 2 1kc
 3 100c/s

- S4 TAPE MONITOR SW
 1 SOURCE
 2 PLAY BACK
- S5(a-b) MODE SW
 1 STEREO REVERSE
 2 STEREO NORMAL
 3 MONO L
 4 MONO R
 5 MONO L+R

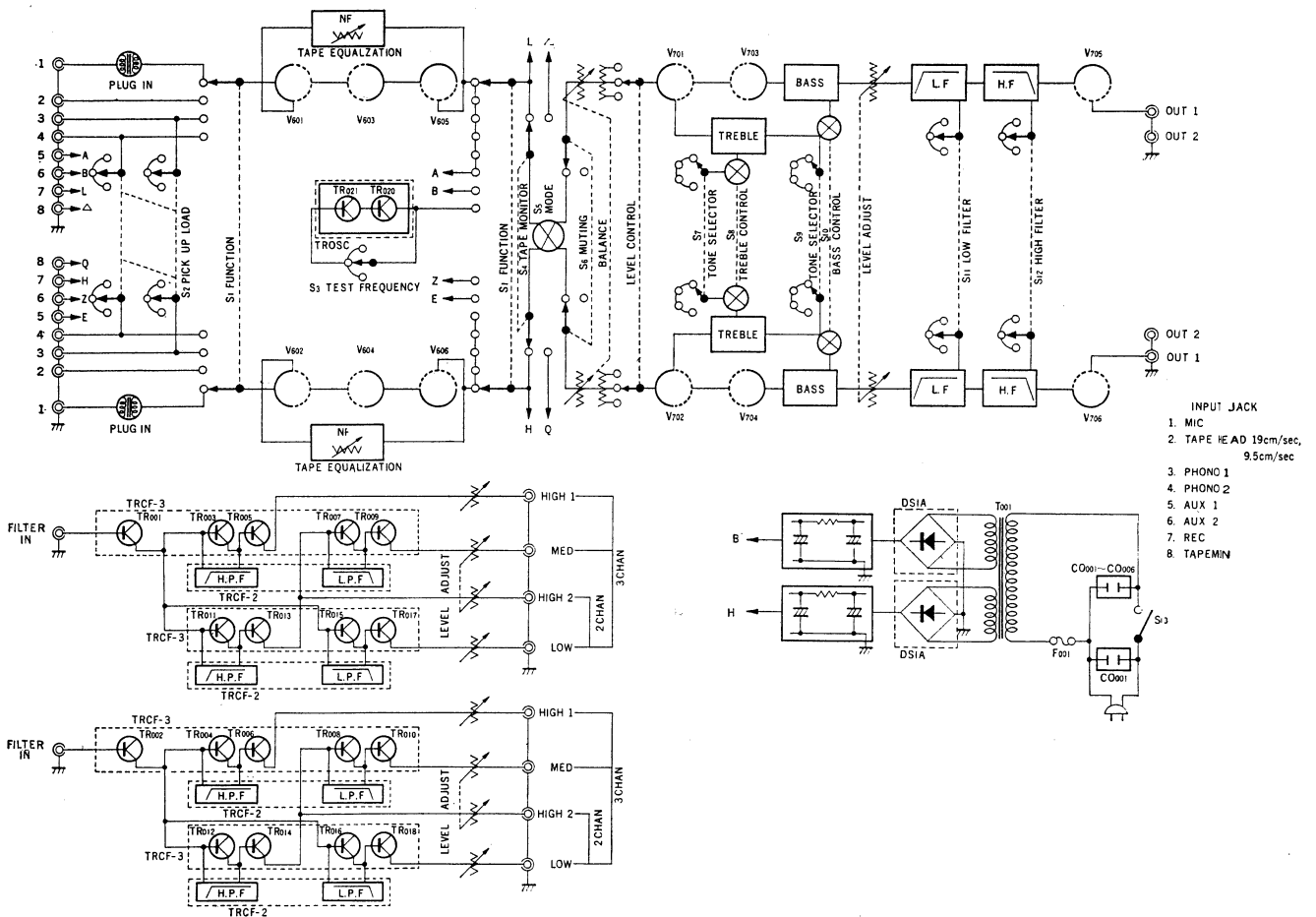
- S6(a-b) MUTING SW
 1 OFF
 2 -20dB
- S7(a-d) TONE SELECTOR
 1 DEFEAT
 2 6kc
 3 3.4kc
 4 1.8kc

- S8(a-d) TREBLE SW
 1-4 CUT
 5 FLAT
 6-11 BOOST
- S9(a-d) TONE SELECTOR
 1 DEFEAT
 2 159c/s
 3 340c/s
 4 700c/s

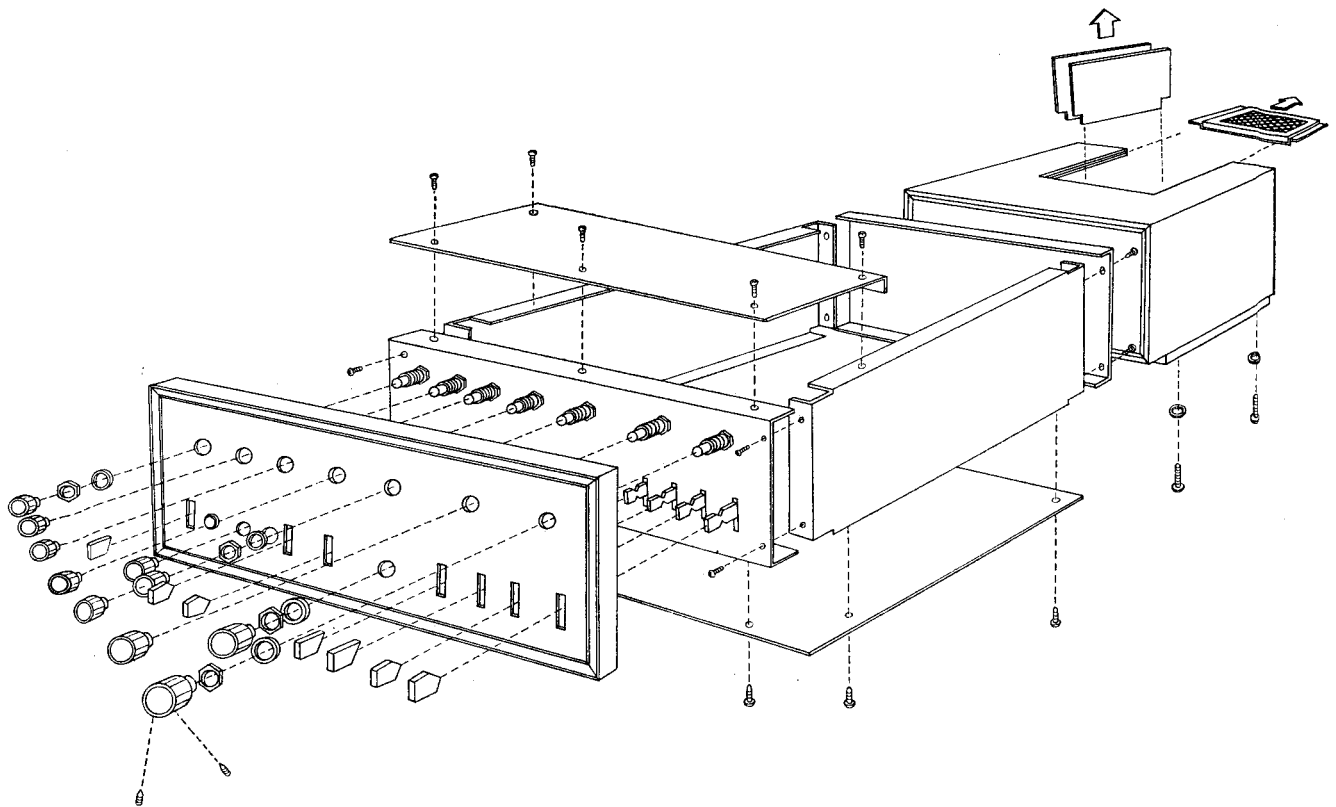
- S10(a-d) BASS SW
 1-4 CUT
 5 FLAT
 6-11 BOOST
- S11(a-b) LOWFILTER SW
 1 30c/s
 2 OFF
 3 60c/s

- S12(a-b) HIGH FILTER SW
 1 12kc
 2 OFF
 3 7kc
- S13 POWER SW
 1 OFF
 2 ON

BLOCK DIAGRAM



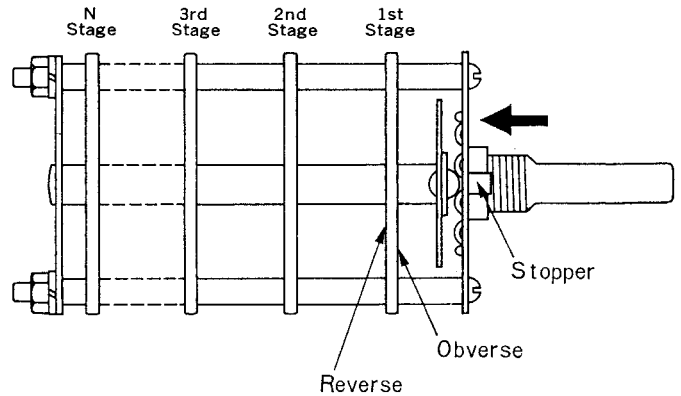
EXPLODED VIEW OF CA-303



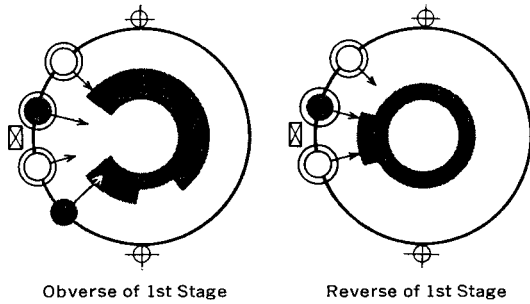
SELECTOR CHART

- * The side view of the selector switch is given right.
- * The selector switch viewed from the arrow side is given in Circuit Diagram.
- * To replace or check the selector switch, refer to the diagrams below:

- : Contact point;
- : Supporting point;
- △ : Repeating terminal;
- ⊙ : Through type clip;
- ⊠ : Location of stopper.



MODE <1-Stage>

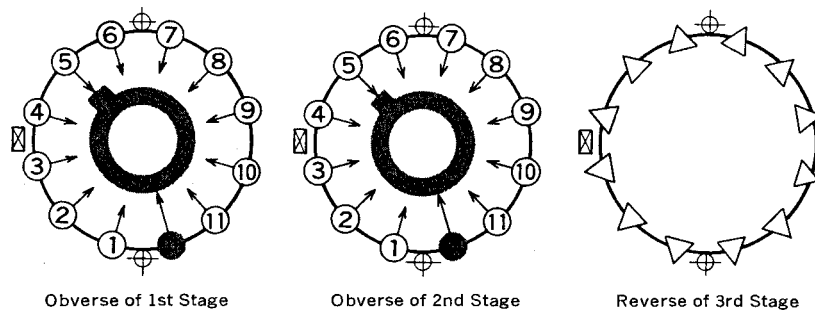


Position of Switches in Circuit Diagram

<S5 (a~b)>

- | | |
|-----------|--------------------------|
| S5a...3 B | 1 STEREO REVERSE (Shown) |
| S5b...3 C | 2 STEREO NORMAL |
| | 3 MONO L |
| | 4 MONO R |
| | 5 MONO L+R |

TONE CONTROL BASS-TREBLE <3-Stage>



Position of Switches in Circuit Diagram

BASS S8 (a~d)

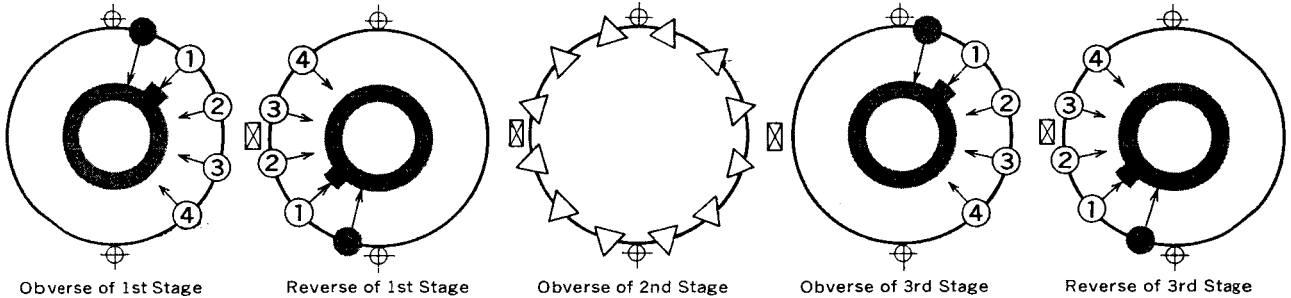
- | | |
|------------------------|----------------|
| S10a...4 B (2nd Stage) | 1~4 CUT |
| S10b...4 B (1st Stage) | 5 FLAT (Shown) |
| S10c...4 D (2nd Stage) | 6~11 BOOST |
| S10d...4 D (1st Stage) | |

TREBLE <S10 (a~d)>

- | | |
|-----------------------|----------------|
| S8a...3 B (2nd Stage) | 1~4 CUT |
| S8b...3 B (1st Stage) | 5 FLAT (Shown) |
| S8c...3 D (2nd Stage) | 6~11 BOOST |
| S8d...3 D (1st Stage) | |

SELECTOR CHART

TONE SELECTOR BASS-TREBLE <3-Stage>



Position of Switches in Circuit Diagram

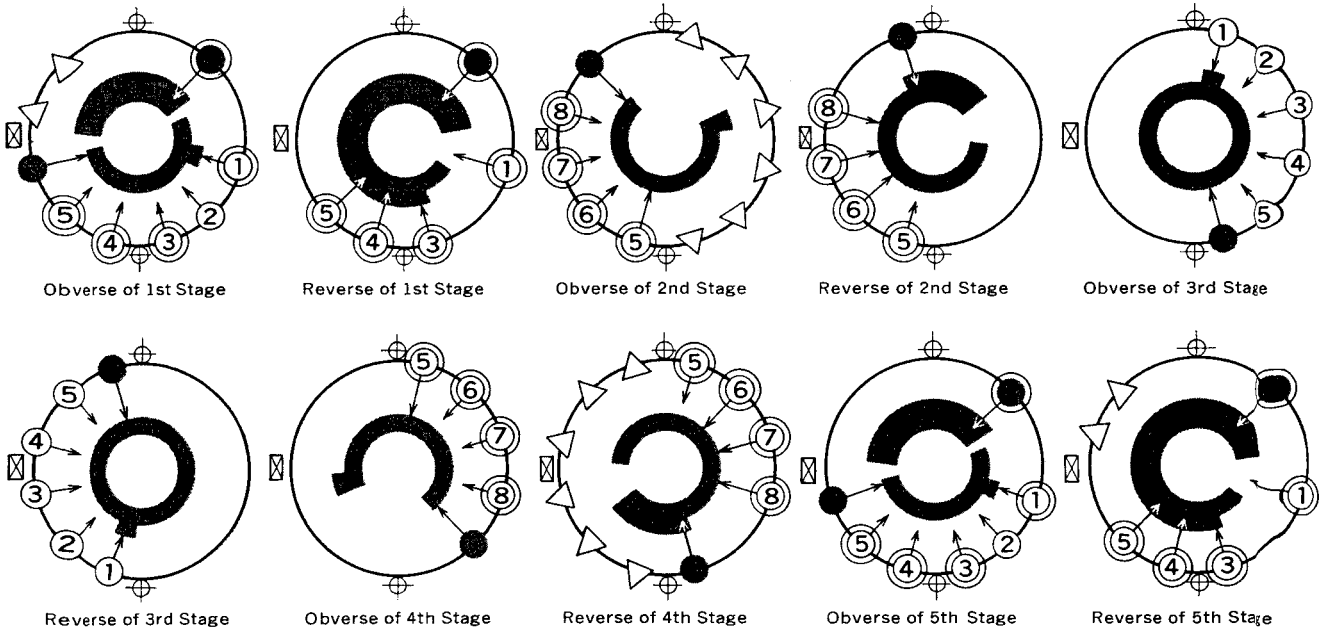
BASS <S9(a~d)>

- S9a...4 B (3rd Stage, Reverse) 1 DEFEAT (Shown)
- S9b...4 B (1st Stage, Reverse) 2 159 Hz
- S9c...4 D (3rd Stage, Obverse) 3 340 Hz
- S9d...4 D (1st Stage, Obverse) 4 700 Hz

TREBLE <S7(a~d)>

- S7a...3 B (3rd Stage, Reverse) 1 DEFEAT (Shown)
- S7b...3 B (1st Stage, Reverse) 2 6 KHz
- S7c...3 D (3rd Stage, Obverse) 3 3.4 KHz
- S7d...3 D (1st Stage, Obverse) 4 1.8 KHz

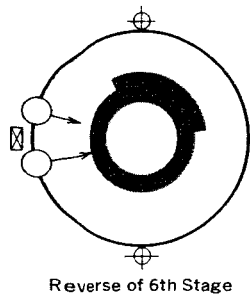
FUNCTION <6-Stage>



Position of Switches in Circuit Diagram

<S1 (a~k)>

- | | | | |
|--------------------------------|--------------------------------|-----------------------|---------|
| S1a...1 A (1st Stage, Obverse) | S1g...1 C (5th Stage, Obverse) | 1 MIC (Shown) | 6 AUX 1 |
| S1b...2 A (1st Stage, Reverse) | S1h...2 C (5th Stage, Reverse) | 2 TAPE HEAD 19cm/sec | 7 AUX 2 |
| S1c...2 B (3rd Stage, Obverse) | S1i...2 C (3rd Stage, Reverse) | 3 TAPE HEAD 9.5cm/sec | 8 TEST |
| S1d...3 B (2nd Stage, Obverse) | S1j...3 D (4th Stage, Obverse) | 4 PHONO 1 | |
| S1e...3 B (2nd Stage, Reverse) | S1k...3 D (4th Stage, Reverse) | 5 PHONO 2 | |
| S1f...2 B (6th Stage, Reverse) | | | |

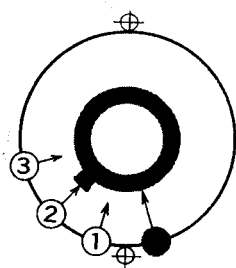
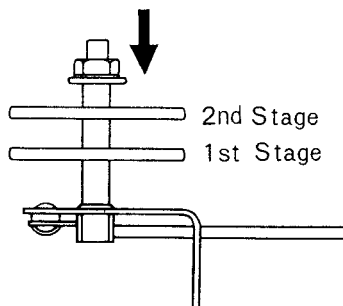


Reverse of 6th Stage

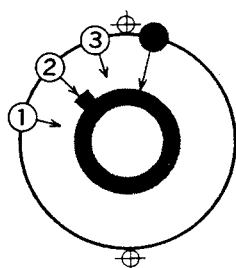
SELECTOR CHART

The side view of the lever switch is given right. Below are its cross-sectional views. To replace or repair the lever switch, refer to the diagrams below:

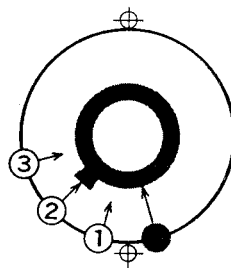
- Contact point;
- Supporting Point;



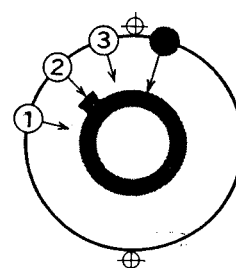
Obverse of 1st Stage



Reverse of 1st Stage



Obverse of 2nd Stage



Reverse of 2nd Stage

PICK UP LOAD <2-Stage>

Position of Switches in Circuit Diagram

<S2 (a,b)>

- | | |
|------------------------|----------------|
| S2a....4 B (2nd Stage) | 1 30KΩ |
| S2d....1 D (1st Stage) | 2 50KΩ (Shown) |
| | 3 10KΩ |

TEST FREQUENCY <2-Stage>

Position of Switches in Circuit Diagram

<S2>

- | | |
|-----------------------|-----------------|
| S3....2 C (1st Stage) | 1 10K Hz |
| 2nd Stage is used as | 2 1K Hz (Shown) |
| repeating terminals | 3 100K Hz |

LOW FILTER <2-Stage>

Position of Switches in Circuit Diagram

<S11 (a,b)>

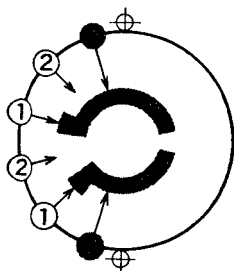
- | | |
|--|---------------|
| | 1 30C Hz |
| S11a....4 A (Obverse of 1st Stage, | 2 OFF (Shown) |
| Obverse of 2nd Stage) | 3 60 Hz |
| S11b....4 C (Reverse of 1st Stage, Reverse of 2nd Stage) | |

HIGH FILTER <2-Stage>

Position of Switches in Circuit Diagram

<S12 (a'b)>

- | | |
|--|---------------|
| | 1 12K Hz |
| S12a....4 A (Obverse of 1st Stage, | 2 OFF (Shown) |
| Obverse of 2nd Stage) | 3 7K Hz |
| S12b....4 C (Reverse of 1st Stage, Reverse of 2nd Stage) | |



MUTING

Position of Switches in Circuit Diagram

<S6 (a,b)>

- | | |
|------------|---------------|
| | 1 OFF (Shown) |
| S6a....3 B | 2 -20dB |
| S6b....3 C | |

TAPE MONITOR

Position of Switches in Circuit Diagram

<S4>

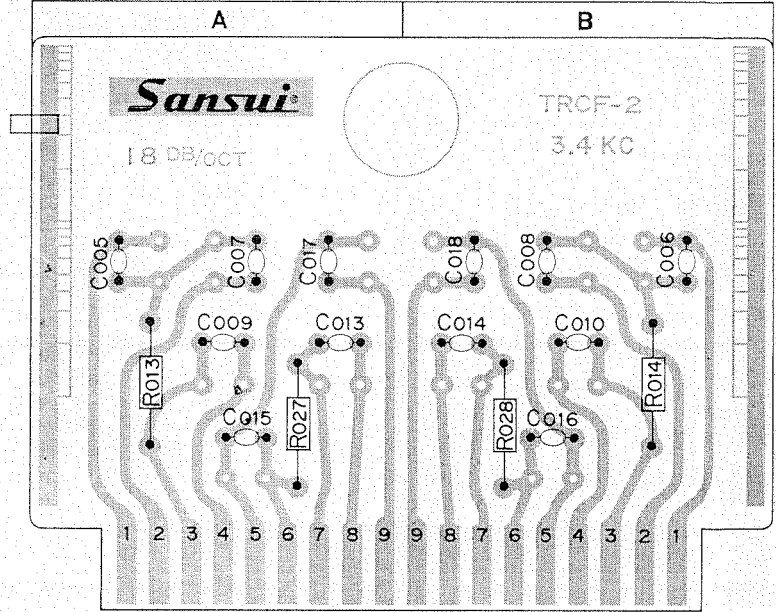
- | | |
|--------------|------------------|
| | 1 SOURCE (Shown) |
| S4....3 B, C | 2 PLAY BACK |

PARTS LAYOUT IN PRINTED CIRCUITS

PLUG-IN UNIT (TRCF-2<A>)

POSITION OF PARTS IN CIRCUIT DIAGRAM

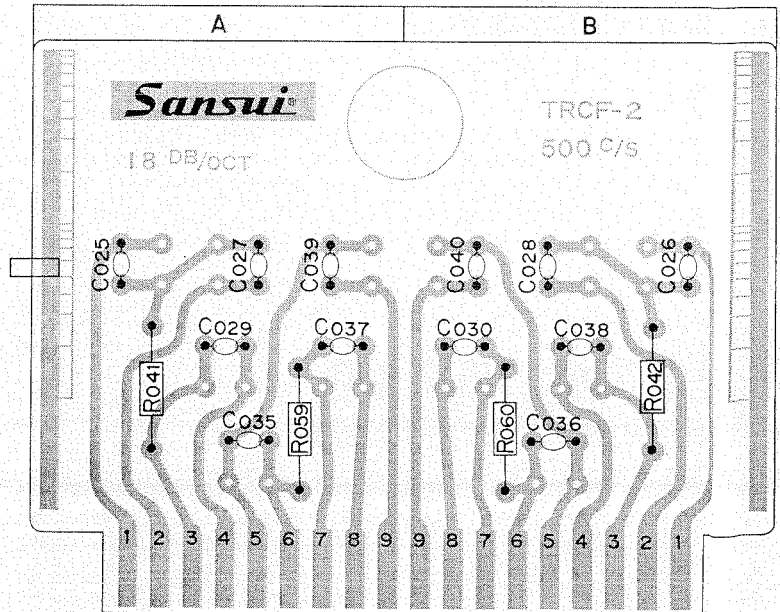
C005... A	C016... B
C006... B	C017... A
C007... A	C018... B
C008... B	
C009... A	R013... A
C010... B	R014... B
C013... A	R027... A
C014... B	R028... B
C015... A	



PLUG-IN UNIT (TRCF-2)

POSITION OF PARTS IN CIRCUIT DIAGRAM

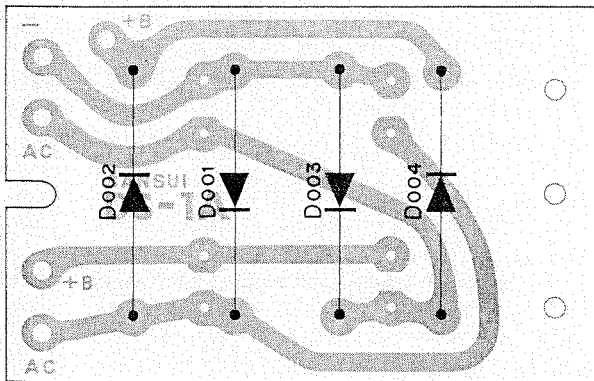
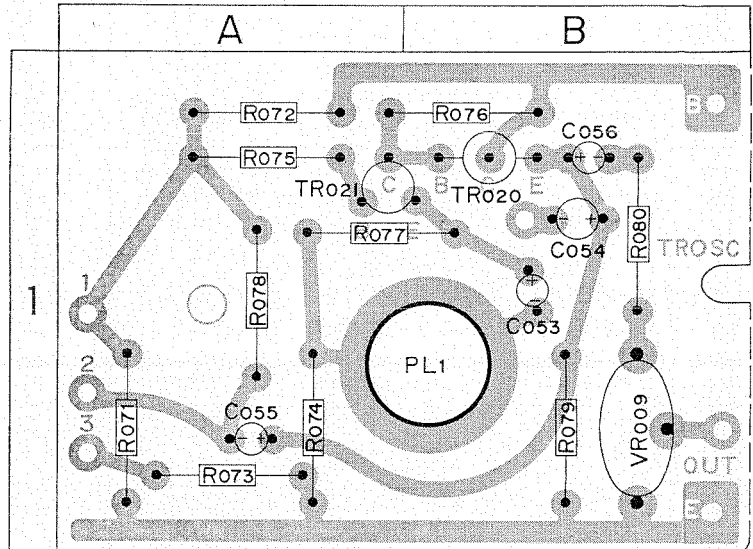
C025... A	C038... B
C026... B	C039... A
C027... A	C040... B
C028... B	
C029... A	R041... A
C030... B	R042... B
C035... A	R059... A
C036... B	R060... B
C037... A	



OSCILLATION BLOCK (TROSC)

POSITION OF PARTS IN CIRCUIT DIAGRAM

R071 ... 1 A	R079 ... 1 B	TR021 ... 1 A
R072 ... 1 A	R080 ... 1 B	TR022 ... 1 B
R073 ... 1 A		
R074 ... 1 A	C053 ... 1 B	PL001 ... 1 B
R075 ... 1 A	C054 ... 1 B	
R076 ... 1 B	C055 ... 1 A	VR009 ... 1 B
R077 ... 1 A	C056 ... 1 B	
R078 ... 1 A		

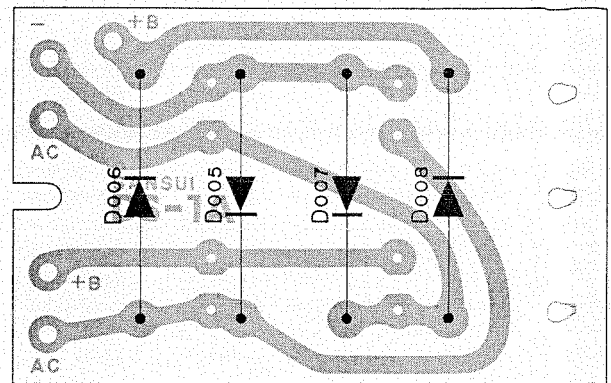


POWER SUPPLY DIODE BRIDGE (DS-1A<a>)

D001	D003
D002	D004

HEATER POWER SUPPLY DIODE BRIDGE (DS-1A)

D005	D007
D006	D008



PARTS LIST

A: Part No.
B: Part Name
C: Position of Parts in Circuit Diagram
D: Position of Parts on Parts Layouts and Name of Printed Circuit

A	B	C	D	A	B	C	D
R001	470K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R059	25K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	6B	TRCF-2(B)
R002	470K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R060	25K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	6D	TRCF-2(B)
R003	220K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R061	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(B)
R004	220K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R062	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6D	TRCF-3(B)
R005	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R063	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(B)
R006	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R064	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6D	TRCF-3(B)
R007	120 Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R065	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(B)
R008	120 Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R066	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6D	TRCF-3(B)
R009	180K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R067	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(B)
R010	180K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R068	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6D	TRCF-3(B)
R011	100K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R069	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(B)
R012	100K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R070	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6E	TRCF-3(B)
R013	15K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	5B	TRCF-2(A)	R071	47K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	1B	TROSC
R014	15K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	5D	TRCF-2(A)	R072	470K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	1B	TROSC
R015	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R073	3.9K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	1C	TROSC
R016	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R074	82 Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2B	TROSC
R017	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R075	3.9K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	1B	TROSC
R018	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R076	10K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2B	TROSC
R019	27K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R077	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2B	TROSC
R020	27K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R078	25K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2C	TROSC
R021	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5A	TRCF-3(A)	R079	1.5K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2B	TROSC
R022	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5C	TRCF-3(A)	R080	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2B	TROSC
R023	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6A	TRCF-3(A)	R081	47 Ω 2W $\pm 10\%$ Carbon Fixed Resistor	1D	Power Supply Block
R024	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6C	TRCF-3(A)	R082	1K Ω 1W $\pm 10\%$ Carbon Fixed Resistor	2D	Power Supply Block
R025	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6A	TRCF-3(A)	R083	1K Ω 1W $\pm 10\%$ Carbon Fixed Resistor	2D	Power Supply Block
R026	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6C	TRCF-3(A)	R084	2.2K Ω 1W $\pm 10\%$ Carbon Fixed Resistor	2D	Power Supply Block
R027	25K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	6B	TRCF-2(A)	R085	4.7K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2D	Power Supply Block
R028	25K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	6D	TRCF-2(A)	R086	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2D	Power Supply Block
R029	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6A	TRCF-3(A)	R087	20 Ω 10W $\pm 10\%$ Cement Resistor	2E	Power Supply Block
R030	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6C	TRCF-3(A)	R088	120 Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2E	Power Supply Block
R031	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6A	TRCF-3(A)	R089	68 Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2E	Power Supply Block
R032	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6C	TRCF-3(A)	R090	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2E	Power Supply Block
R033	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6A	TRCF-3(A)	R601	47K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	1A	PU601
R034	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6C	TRCF-3(A)	R602	47K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	1C	PU602
R035	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6A	TRCF-3(A)	R603	Composite Resistor PU-R		
R036	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6C	TRCF-3(A)	605			
R037	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(A)	607			
R038	1K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6D	TRCF-3(A)	609			
R039	120 Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5B	TRCF-3(B)	611			
R040	120 Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5D	TRCF-3(B)	613			
R041	15K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	5B	TRCF-2(B)	R604			
R042	15K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	5E	TRCF-2(B)	606			
R043	180K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5B	TRCF-3(B)	608			
R044	180K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5D	TRCF-3(B)	610			
R045	100K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5B	TRCF-3(B)	612			
R046	100K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5D	TRCF-3(B)	614			
R047	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5B	TRCF-3(B)	R615	470K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2A	S1a
R048	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5D	TRCF-3(B)	R616	470K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2C	S1g
R049	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	3B	TRCF-3(B)	R617	1.5K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2A	PRE-CR Block
R050	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5D	TRCF-3(B)	R618	1.5K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2C	PRE-CR Block
R051	27K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5B	TRCF-3(B)	R619	4.7K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2A	PRE-CR Block
R052	27K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5D	TRCF-3(B)	R620	4.7K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2C	PRE-CR Block
R053	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5B	TRCF-3(B)	R621	270K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2A	PRE-CR Block
R054	6.8K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	5D	TRCF-3(B)	R622	270K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2C	PRE-CR Block
R055	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(B)	R623	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2A	PRE-CR Block
R056	15K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6D	TRCF-3(B)				
R057	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6B	TRCF-3(B)				
R058	39K Ω $\frac{1}{2}$ W $\pm 10\%$ Solid Fixed Resistor	6D	TRCF-3(B)				

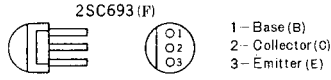
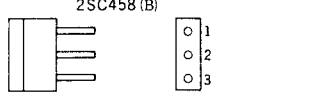
A	B	C	D
R624	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	PRE-CR Block
R625	2.2K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 A	PRE-CR Block
R626	2.2K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	PRE-CR Block
R627	270K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2 A	PRE-CR Block
R628	270K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	PRE-CR Block
R629	47K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2 A	PRE-CR Block
R630	47K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	PRE-CR Block
R631	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 A	PRE-CR Block
R632	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	PRE-CR Block
R633	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 A	Si (c,e)
R634	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	Si (i, k)
R635	1.5M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 B	Si (c,d)
R636	1.5M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	Si (i, i)
R637	100K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 B	Si (c,d)
R638	100K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	Si (i, i)
R639	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 B	Si (c,d)
R640	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	Si (i, i)
R641	10M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 B	Si (c,d)
R642	10M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 D	Si (i, i)
R643	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 B	Si (c,d)
R644	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 C	Si (i, i)
R645	27K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 B	Si (c,d)
R646	27K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 D	Si (i, i)
R647	120K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 B	Si (c,d)
R648	120K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	2 D	Si (i, i)
R701	1.5M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S6a
R702	1.5M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 C	S6b
R703	4.7K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	3 A	PRE-CR Block
R704	4.7K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	3 C	PRE-CR Block
R705	270K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	3 A	PRE-CR Block
R706	270K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	3 C	PRE-CR Block
R707	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 A	PRE-CR Block
R708	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 C	PRE-CR Block
R709	1.2K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 A	PRE-CR Block
R710	1.2K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 C	PRE-CR Block
R711	100K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	3 A	PRE-CR Block
R712	100K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	3 C	PRE-CR Block
R713	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8a
R714	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8c
R715	18K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8a
R716	18K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8c
R717	6.8K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8a
R718	6.8K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8c
R719	3.9K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8a
R720	3.9K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8c
R721	2.7K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8a
R722	2.7K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8c
R723	1.5K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8a
R724	1.5K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8c
R725	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8a
R726	1K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8c
R727	22K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10a
R728	22K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10c
R729	47K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10a
R730	47K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10c
R731	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10a
R732	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10c

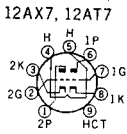
A	B	C	D
R733	150K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10a
R734	150K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10c
R735	270K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10a
R736	270K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10c
R737	470K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10a
R738	470K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10c
R739	68K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S7a-S9a
R740	68K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S7c-S9c
R741	560K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10a
R742	560K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10c
R743	220K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8b
R744	220K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8d
R745	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8b
R746	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8d
R747	47K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8b
R748	47K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8d
R749	27K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 B	S8b
R750	27K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	3 D	S8d
R751	18K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10b
R752	18K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10d
R753	39K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10b
R754	39K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10d
R755	56K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10b
R756	56K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10d
R757	100K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 B	S10b
R758	100K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 D	S10d
R759	Composite Resistor LF-1	4 A	S11a
R760	Composite Resistor LF-1	4 C	S11b
R761	330K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 A	PRECR Block
R762	330K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 C	PRECR Block
R763	820K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 A	PRECR Block
R764	820K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 C	PRECR Block
R765	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 A	PRECR Block
R766	82K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 C	PRECR Block
R767	180K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 A	PRECR Block
R768	180K Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 C	PRECR Block
R769	4.7M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 A	S12
R770	4.7M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 C	S12
R771	10K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	4 A	PRECR Block
R772	10K Ω $\frac{1}{2}$ W $\pm 10\%$ Carbon Fixed Resistor	4 C	PRECR Block
R773	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 A	PRECR Block
R774	1M Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed Resistor	4 C	PRECR Block
C001	3 μ F 25WV $\pm 100\%$ Electrolytic Capacitor	5 A	TR(F-3(A))
C002	3 μ F 25WV $\pm 100\%$ Electrolytic Capacitor	5 C	TR(F-3(A))
C003	100 pF 250WV $\pm 10\%$ Ceramic Capacitor	5 A	TR(F-3(A))
C004	100 pF 250WV $\pm 10\%$ Ceramic Capacitor	5 C	TR(F-3(A))
C005	0.0015 μ F 50WV $\pm 10\%$ Mylar Capacitor	5 B	TR(F-2(A))
C006	0.0015 μ F 50WV $\pm 10\%$ Mylar Capacitor	5 D	TR(F-2(A))
C007	0.0015 μ F 50WV $\pm 10\%$ Mylar Capacitor	5 B	TR(F-2(A))
C008	0.0015 μ F 50WV $\pm 10\%$ Mylar Capacitor	5 D	TR(F-2(A))
C009	0.003 μ F 50WV $\pm 10\%$ Mylar Capacitor	5 B	TR(F-2(A))
C010	0.003 μ F 50WV $\pm 10\%$ Mylar Capacitor	5 D	TR(F-2(A))
C011	100 pF 250WV $\pm 10\%$ Ceramic Capacitor	6 A	TR(F-3(A))
C012	100 pF 250WV $\pm 10\%$ Ceramic Capacitor	6 C	TR(F-3(A))
C013	0.006 μ F 50WV $\pm 10\%$ Mylar Capacitor	6 B	TR(F-2(A))
C014	0.006 μ F 50WV $\pm 10\%$ Mylar Capacitor	6 D	TR(F-2(A))
C015	0.0015 μ F 50WV $\pm 10\%$ Mylar Capacitor	6 B	TR(F-2(A))

PARTS LIST

A: Part No.
B: Part Name
C: Position of Part in Circuit Diagram
D: Position of Parts on Parts Layout and Name of Prited Circuit

A	B	C	D	A	B	C	D
C016	0.0015μF 50WV ±10% Mylar Capacitor	6 D	TRCF-2(A)	C068	500 pF 250WV ±10% Ceramic Capacitor	6 A	TRCF-3(A)
C017	0.003μF 50WV ±10% Mylar Capacitor	6 B	TRCF-2(A)	C069	500 pF 250WV ±10% Ceramic Capacitor	6 C	TRCF-3(A)
C018	0.003μF 50WV ±10% Mylar Capacitor	6 D	TRCF-2(A)	C070	500 pF 250WV ±10% Ceramic Capacitor	6 B	TRCF-3(B)
C019	1μF 25WV +100% Electrolytic Capacitor	6 B	TRCF-3(A)	C071	500 pF 250WV ±10% Ceramic Capacitor	6 D	TRCF-3(B)
C020	1μF 25WV +100% Electrolytic Capacitor	6 D	TRCF-3(A)	C072	3μF 25WV +100% Electrolytic Capacitor	1 B	TROSC
C021	3μF 25WV +100% Electrolytic Capacitor	6 A	TRCF-3(A)	C601	50 pF 250WV ±10% Ceramic Capacitor	2 A	PRE-CR Block
C022	3μF 25WV +100% Electrolytic Capacitor	6 C	TRCF-3(A)	C602	50 pF 250WV ±10% Ceramic Capacitor	2 C	PRE-CR Block
C023	25μF 50WV +100% Electrolytic Capacitor	6 A	TRCF-3(A)	C603	100μF 15WV +100% Electrolytic Capacitor	2 A	PRE-CR Block
C024	25μF 50WV +100% Electrolytic Capacitor	6 C	TRCF-3(A)	C604	100μF 15WV +100% Electrolytic Capacitor	2 C	PRE-CR Block
C025	0.01μF 50WV ±10% Mylar Capacitor	5 B	TRCF-2(B)	C605	0.01μF 400WV ±10% Oil Capacitor	2 A	PRE-CR Block
C026	0.01μF 50WV ±10% Mylar Capacitor	5 D	TRCF-2(B)	C606	0.01μF 400WV ±10% Oil Capacitor	2 C	PRE-CR Block
C027	0.01μF 50WV ±10% Mylar Capacitor	5 B	TRCF-2(B)	C607	30 pF 250WV ±10% Mica Capacitor	2 A	PRE-CR Block
C028	0.01μF 50WV ±10% Mylar Capacitor	5 D	TRCF-2(B)	C608	30 pF 250WV ±10% Mica Capacitor	2 C	PRE-CR Block
C029	0.02μF 50WV ±10% Mylar Capacitor	5 B	TRCF-2(B)	C609	100μF 15WV +100% Electrolytic Capacitor	2 A	PRE-CR Block
C030	0.02μF 50WV ±10% Mylar Capacitor	5 D	TRCF-2(B)	C610	100μF 15WV +100% Electrolytic Capacitor	2 C	PRE-CR Block
C031	100 pF 250WV ±10% Ceramic Capacitor	5 B	TRCF-3(B)	C611	0.5μF 400WV ±10% Oil Capacitor	2 A	PRE-CR Block
C032	100 pF 250WV ±10% Ceramic Capacitor	5 D	TRCF-3(B)	C612	0.5μF 400WV ±10% Oil Capacitor	2 C	PRE-CR Block
C033	100 pF 250WV ±10% Ceramic Capacitor	6 B	TRCF-3(B)	C613	2700 pF 50WV ±10% Mica Capacitor	2 B	S1(c,d)
C034	100 pF 250WV ±10% Ceramic Capacitor	6 D	TRCF-3(B)	C614	2700 pF 50WV ±10% Mica Capacitor	2 C	S1(i, j)
C035	0.01μF 50WV ±10% Mylar Capacitor	6 B	TRCF-2(B)	C615	1000 pF 50WV ±10% Mica Capacitor	2 B	S1(c,d)
C036	0.01μF 50WV ±10% Mylar Capacitor	6 D	TRCF-2(B)	C616	1000 pF 50WV ±10% Mica Capacitor	2 C	S1(i, j)
C037	0.04μF 50WV ±10% Mylar Capacitor	6 B	TRCF-2(B)	C617	750 pF 50WV ±10% Mica Capacitor	2 B	S1(c,d)
C038	0.04μF 50WV ±10% Mylar Capacitor	6 E	TRCF-2(B)	C618	750 pF 50WV ±10% Mica Capacitor	2 C	S1(i, j)
C039	0.02μF 50WV ±10% Mylar Capacitor	6 B	TRCF-2(B)	C701	0.01μF 400WV ±10% Oil Capacitor	3 A	PRE-CR Block
C040	0.02μF 50WV ±10% Mylar Capacitor	6 D	TRCF-2(B)	C702	0.01μF 400WV ±10% Oil Capacitor	3 C	PRE-CR Block
C041	3μF 25WV +100% Electrolytic Capacitor	6 B	TRCF-3(B)	C703	0.2μF 400WV ±10% Oil Capacitor	3 A	PRE-CR Block
C042	3μF 25WV +100% Electrolytic Capacitor	6 E	TRCF-3(B)	C704	0.2μF 400WV ±10% Oil Capacitor	3 C	PRE-CR Block
C043	3μF 25WV +100% Electrolytic Capacitor	6 B	TRCF-3(B)	C705	0.005μF 50WV ±10% Mylar Capacitor	3 B	S7a
C044	3μF 25WV +100% Electrolytic Capacitor	6 D	TRCF-3(B)	C706	0.005μF 50WV ±10% Mylar Capacitor	3 D	S7c
C045	25μF 50WV +100% Electrolytic Capacitor	6 B	TRCF-3(B)	C707	0.01μF 50WV ±10% Mylar Capacitor	3 B	S7a
C046	25μF 50WV +100% Electrolytic Capacitor	6 D	TRCF-3(B)	C708	0.01μF 50WV ±10% Mylar Capacitor	3 D	S7c
C047	0.15μF 50WV ±10% Mylar Capacitor	2 C	S3	C709	0.02μF 50WV ±10% Mylar Capacitor	3 B	S7a
C048	0.015μF 50WV ±10% Mylar Capacitor	2 C	S3	C710	0.02μF 50WV ±10% Mylar Capacitor	3 D	S7c
C049	0.0015μF 50WV ±10% Mylar Capacitor	2 C	S3	C711	0.004μF 50WV ±10% Mylar Capacitor	4 B	S9a
C050	0.15μF 50WV ±10% Mylar Capacitor	2 C	S3	C712	0.004μF 50WV ±10% Mylar Capacitor	4 D	S9c
C051	0.015μF 50WV ±10% Mylar Capacitor	2 C	S3	C713	0.007μF 50WV ±10% Mylar Capacitor	4 B	S9a
C052	0.0015μF 50WV ±10% Mylar Capacitor	2 C	S3	C714	0.007μF 50WV ±10% Mylar Capacitor	4 D	S9c
C053	10μF 10WV +100% Electrolytic Capacitor	2 B	TROSC	C715	0.015μF 50WV ±10% Mylar Capacitor	4 B	S9a
C054	50μF 10WV +100% Electrolytic Capacitor	2 B	TROSC	C716	0.015μF 50WV ±10% Mylar Capacitor	4 D	S9c
C055	10μF 10WV +100% Electrolytic Capacitor	2 B	TROSC	C717	250 pF 50WV ±10% Mica Capacitor	3 B	S7b
C056	10μF 10WV +100% Electrolytic Capacitor	2 B	TROSC	C718	250 pF 50WV ±10% Mica Capacitor	3 D	S7d
C057, 058	40μF × 2 450WV +100% Electrolytic Capacitor (block-type)	2 D	Power Supply Block	C719	500 pF 50WV ±10% Mica Capacitor	3 B	S7b
C059~062	20μF × 4 350WV +100% Electrolytic Capacitor (block-type)	2 D	Power Supply Block	C720	500 pF 50WV ±10% Mica Capacitor	3 D	S7d
C063	2000μF 50WV +100% Electrolytic Capacitor	2 E	Power Supply Block	C721	0.001μF 50WV ±10% Mylar Capacitor	3 B	S7b
C064	2000μF 50WV +100% Electrolytic Capacitor	2 E	Power Supply Block	C722	0.001μF 50WV ±10% Mylar Capacitor	3 D	S7d
C065	600μF 40WV +100% Electrolytic Capacitor	2 E	Power Supply Block	C723	0.005μF 50WV ±10% Mylar Capacitor	4 B	S9b
C066	600μF 40WV +100% Electrolytic Capacitor	2 E	Power Supply Block	C724	0.005μF 50WV ±10% Mylar Capacitor	4 D	S9d
C067	25μF 50WV +100% Electrolytic Capacitor	2 E	Power Supply Block	C725	0.01μF 50WV ±10% Mylar Capacitor	4 B	S9b
				C726	0.01μF 50WV ±10% Mylar Capacitor	4 D	S9d
				C727	0.02μF 50WV ±10% Mylar Capacitor	4 B	S9b
				C728	0.02μF 50WV ±10% Mylar Capacitor	4 D	S9d
				C729	0.5μF 50WV ±10% Mylar Capacitor	4 B	S9b
				C730	0.5μF 50WV ±10% Mylar Capacitor	4 D	S9d
				C731			
				733			
				735	Composite Resistor LF-1	3 A	S11a
				737			

A	B	C	D
C732 734 736 738	Composite Resistor LF-1	3C	S11b
C739	0.2μF 250WV ±10% Mylar Capacitor	3A	S11a
C740	0.2μF 250WV ±10% Mylar Capacitor	3C	S11b
C741 743	Composite Resistor HF-1	4A	S12a
C742 744	Composite Resistor HF-1	4C	S12b
C745 747	Composite Resistor HF-2	4A	S12a
C746 748	Composite Resistor HF-2	4C	S12b
C749	0.5μF 400WV ±10% Oil Capacitor	4A	PRE-CR Block
C750	0.5μF 400WV ±10% Oil Capacitor	4C	PRE-CR Block
TR001	2SC693(F) SiN-P-N Planar Transistor	5A	TRCF-3(A)
TR002	2SC693(F) SiN-P-N Planar Transistor	5C	TRCF-3(A)
TR003	2SC693(F) SiN-P-N Planar Transistor	5A	TRCF-3(A)
TR004	2SC693(F) SiN-P-N Planar Transistor	5C	TRCF-3(A)
TR005	2SC693(F) SiN-P-N Planar Transistor	5A	TRCF-3(A)
TR006	2SC693(F) SiN-P-N Planar Transistor	5C	TRCF-3(A)
TR007	2SC693(F) SiN-P-N Planar Transistor	6A	TRCF-3(A)
TR008	2SC693(F) SiN-P-N Planar Transistor	6C	TRCF-3(A)
TR009	2SC693(F) SiN-P-N Planar Transistor	6A	TRCF-3(A)
TR010	2SC693(F) SiN-P-N Planar Transistor	6C	TRCF-3(A)
TR011	2SC693(F) SiN-P-N Planar Transistor	5B	TRCF-3(B)
TR012	2SC693(F) SiN-P-N Planar Transistor	5D	TRCF-3(B)
TR013	2SC693(F) SiN-P-N Planar Transistor	5B	TRCF-3(B)
TR014	2SC693(F) SiN-P-N Planar Transistor	5D	TRCF-3(B)
TR015	2SC693(F) SiN-P-N Planar Transistor	6B	TRCF-3(B)
TR016	2SC693(F) SiN-P-N Planar Transistor	6D	TRCF-3(B)
TR017	2SC693(F) SiN-P-N Planar Transistor	6B	TRCF-3(B)
TR018	2SC693(F) SiN-P-N Planar Transistor	6D	TRCF-3(B)
TR019	2SC458(B) SiN-P-N Planar Transistor	2B	TROSC
TR020	2SC458(B) SiN-P-N Planar Transistor	2B	TROSC
	 2SC693(F)  2SC458(B)		
D001	SW-0.5d Silicon Diode for Rectification	1D	DSIA(a)
D002	SW-0.5d Silicon Diode for Rectification	1D	DSIA(a)
D003	SW-0.5d Silicon Diode for Rectification	1D	DSIA(a)
D004	SW-0.5d Silicon Diode for Rectification	1D	DSIA(a)
D005	SW-1a Silicon Diode for Rectification	1E	DSIA(b)
D006	SW-1a Silicon Diode for Rectification	1E	DSIA(b)
D007	SW-1a Silicon Diode for Rectification	1E	DSIA(b)
D008	SW-1a Silicon Diode for Rectification	1E	DSIA(b)
V601, 603	½12AX7	2A	V601, 603
V602, 604	½12AX7	2A	V602, 604
V605, 606	½12AT7	2A	V605, 606
V701, 703	½12AX7	3A	V701, 703

A	B	C	D
V702, 704	½12AX7	3A	V702, 704
V705, 706	½12AT7	4A	V705, 706
	 12AX7, 12AT7 H—Heater HCT—Heater Center Tap G—Grid K—Cathode P—Plate		
VR001, 007	50KΩ × 2(B) Variable Resistor (2-gang) 16φ	6B	VR001, 007
VR002, 008	50KΩ × 2(B) Variable Resistor (2-gang) 16φ	6C	VR002, 008
VR003	50KΩ(B) Variable Resistor (1-gang) 16φ	6B	VR003
VR004	50KΩ(B) Variable Resistor (1-gang) 16φ	6D	VR004
VR005	50KΩ(B) Variable Resistor (1-gang) 16φ	6B	VR005
VR006	50KΩ(B) Variable Resistor (1-gang) 16φ	6D	VR006
VR009	100KΩ(B) Variable Resistor	2B	TROSC
VR601	100KΩ(B) Variable Resistor (1-gang) 16φ	2B	VR601
VR602	100KΩ(B) Variable Resistor (1-gang) 16φ	2C	VR602
VR701, 702	250KΩ × 2(A,C) Variable Resistor (2-gang) 24φ	2C	VR701, 702
VR703	100KΩ(B) Variable Resistor (1-gang) 16φ	4A	VR703
VR704	100KΩ(B) Variable Resistor (1-gang) 16φ	4C	VR704
AT701, 702	250KΩ × 2(2dB × 20, ~) Attenuator	3C	AT701, 702
S1(a~k)	Rotary Switch	1A 2B 3D	S1(a~k)
S2(a~b)	Lever Switch	1A	S2(a, b)
S3	Lever Switch	2C	S3
S4	Lever Switch	3B	S4
S5(a~b)	Rotary Switch	3B	S5(a, b)
S6(a~b)	Lever Switch	3B	S6(a, b)
S7(a~d)	Rotary Switch	3B	S7(a~d)
S8(a~d)	Rotary Switch	3B	S8(a~d)
S9(a~d)	Rotary Switch	4B	S9(a~d)
S10(a~d)	Rotary Switch	4B	S10(a~d)
S11(a~b)	Lever Switch	4C	S11(a, b)
S12(a~b)	Lever Switch	4C	S12(a, b)
S13	Lever Switch	1E	S13
CO001	AC Outlet	1E	CO001
CO002	AC Outlet	1E	CO002
CO003	AC Outlet	1E	CO003
CO004	AC Outlet	1E	CO004
CO005	AC Outlet	1E	CO005
CO006	AC Outlet	1E	CO006
CO007	AC Outlet	1E	CO007
F001	Fuse 1A	1D	F001
PL001	Pilot Lamp 120V	2B	TROSC
PL002	Pilot Lamp 12V	1D	PL002
J601	Coaxial Single-Head Triple-Pole Jack	1A	J601
J602	Coaxial Single-Head Triple-Pole Jack	1C	J602
T001	Power Transformer 400-5264	1D 1E	T001
PU601	9-Pin Plug	1A	PU601
PU602	9-Pin Plug	1C	PU602

Sansui[®]

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