

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the QRX-7500 correctly.

When ordering the parts, use the stock number and parts name specifically referring to the Parts Locations & Parts List.

For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1.	SPECIFICATIONS	2
2.	BLOCK DIAGRAM AND VALUE OF EACH LEVEL	3, 4
3.	ALIGNMENTS AND ADJUSTMENTS	5
3-1.	Regulated Power Supply Board Adjustment	5
3-2.	Level Meter Adjustment	5
3-3.	Driver Circuit Board Adjustment	6
3-4.	FM IF Alignment	7
3-5.	FM Dial Calibration and RF Alignment	7, 8
3-6.	FM Signal Meter, Mono Distortion, Tune Meter and Muting Adjustment	8
3-7.	MPX Alignment	9
3-8.	AM IF, Dial Calibration, RF and Signal Meter Alignment	9, 10
4.	THREADING OF DIAL CORD	11
5.	TROUBLESHOOTING CHART	11
5-1.	Troubleshooting on Power Supply Section	11
5-2.	Troubleshooting on Audio Section	11, 12, 13
5-3.	Troubleshooting on RF Section	13, 14, 15
6.	PARTS LOCATIONS AND PARTS LIST	16
6-1.	F-1484 Tone Control Circuit Board	16
6-2.	F-1490 De-emphasis Circuit Board	16
6-3.	F-1479A Tuner Circuit Board	17, 18, 19
6-4.	F-1515 Protector & Power Circuit Board	19, 20
6-5.	F-2048 Vario-Matrix Circuit Board	21, 22
6-6.	F-2047 Vario-Matrix Circuit Board	23, 24
6-7.	F-1485 Meter Circuit Board	24
6-8.	F-1514 Driver Circuit Board	25, 26
6-9.	F-1516 Accessory Circuit Board	26
6-10.	F-1487 Volume Circuit Board	26
6-11.	F-1488 Connector Joint Circuit Board	27
6-12.	F-1486 Filter Circuit Board	27
6-13.	F-2085 Equalizer & CD-4 Main Circuit Board	28
6-14.	F-2090 CD-4 Sub Channel Unit Circuit Board	29, 30
6-15.	Other Parts (Front Side)	31, 32
6-16.	Other Parts (Top Side)	33
6-17.	Other Parts (Bottom Side)	34
7.	PACKING LIST	35
8.	ACCESSORY PARTS LIST	35
9.	SCHEMATIC DIAGRAM OF TUNER SECTION	36
10.	SCHEMATIC DIAGRAM OF AUDIO SECTION	37, 38

262



1. SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT (at rated distortion)
 MUSIC POWER (IHF).....260W (4Ω 1,000Hz)
 180W (8Ω 1,000Hz)

CONTINUOUS POWER
 Each Channel Driven ..52W x 4 (4Ω 1,000Hz)
 35W x 4 (8Ω 1,000Hz)

4-Channels Driven ..28+28+28+28W (8Ω 1,000Hz)
 25+25+25+25W
 (8Ω 20 to 20,000Hz)

2-Channel Operation (2-channel driven)
 32+32W (8Ω 1,000Hz)

TOTAL HARMONIC DISTORTION
 (at rated power output)

OVERALL (from 4-CHANNEL AUX)
 less than 0.3%

INTERMODULATION DISTORTION (at rated power output
 70Hz:7,000Hz=4:1 SMPTE method)

OVERALL (from 4-CHANNEL AUX)
 less than 0.3%

POWER BANDWIDTH (IHF) ..10 to 30,000Hz

LOAD IMPEDANCE4 to 16Ω

DAMPING FACTOR40 (8Ω)

INPUT SENSITIVITY AND IMPEDANCE (1,000Hz, for rated
 power output)

2-CHANNEL PHONO-1, 2 ..2.5mV 50kΩ
 (Max. input capability; 150mV at rated distortion)

2-CHANNEL TAPE
 PLAY Pin Jacks100mV 50kΩ
 REC/PLAY DIN Socket ..100mV 50kΩ

4-CHANNEL AUX-LOW ..100mV 50kΩ
 AUX-HIGH ..200mV 100kΩ

4-CHANNEL TAPE-1, 2
 PLAY Pin Jacks100mV 50kΩ

RECORDING OUTPUT
 2-CHANNEL TAPE
 REC Pin Jacks100mV
 REC/PLAY DIN Socket ..30mV

4-CHANNEL TAPE-1, 2
 REC Pin Jacks100mV

FREQUENCY RESPONSE (at 1 Watt output)
 OVERALL (from 4-CHANNEL AUX)
 30 to 30,000Hz ^{+1.0}_{-1.5} dB

EQUALIZATION (RIAA curve) 30 to 15,000Hz ±1.0dB

CROSSTALK (FUNCTION control: 2-CH, 1,000Hz)
 better than 50dB

HUM AND NOISE (IHF)
 2-CHANNEL PHONObetter than 70dB
 4-CHANNEL AUXbetter than 80dB

SWITCHES AND CONTROLS
 BASS+12dB, -12dB at 50Hz
 TREBLE+12dB, -12dB at 15,000Hz
 LOUDNESS+8dB at 50Hz,
 +3dB at 10,000Hz

LOW FILTER-10dB at 50Hz (6dB/oct.)
 HIGH FILTER-10dB at 10,000Hz
 (6dB/oct.)

SYNTHESIZER/DECODERQS regular matrix system
 with QS vario-matrix circuit.

CD-4 DEMODULATOR

Input Sensitivity.....2.5mV (1 to 10mV adjustable)
 Input Impedance50kΩ
 Frequency Response (STD test signal)
 Main-Channel.....30 to 15,000Hz ^{+0.5}_{-3.0}dB
 Sub-Channel30 to 10,000Hz ^{+1.0}_{-5.0}dB

TUNER SECTION

<FM>
 TUNING RANGE.....88 to 108MHz
 SENSITIVITY (IHF)1.9μV
 (Max. input capability: 120dB)
 SIGNAL TO NOISE RATIO (mono)
 better than 65dB

CAPTURE RATIO (IHF)less than 2.0dB

IMAGE REJECTIONbetter than 75dB

IF REJECTIONbetter than 90dB

SPURIOUS RESPONSE REJECTION
 better than 80dB

SELECTIVITYbetter than 60dB

TOTAL HARMONIC DISTORTION
 Monoless than 0.3%
 Stereoless than 0.5%

STEREO SEPARATIONbetter than 37dB

FREQUENCY RESPONSE30 to 15,000Hz ^{+1.0}_{-3.0} dB

ANTENNA IMPEDANCE300Ω balanced,
 75Ω unbalanced

<AM>
 TUNING RANGE535 to 1,605kHz
 SENSITIVITY (bar antenna) ..50dB/m
 IMAGE REJECTIONbetter than 80dB
 IF REJECTIONbetter than 80dB
 SELECTIVITY25dB

OTHERS

SEMICONDUCTORS
 TRANSISTORS159
 DIODES94
 FETs13
 ICs5
 ZENER DIODES9

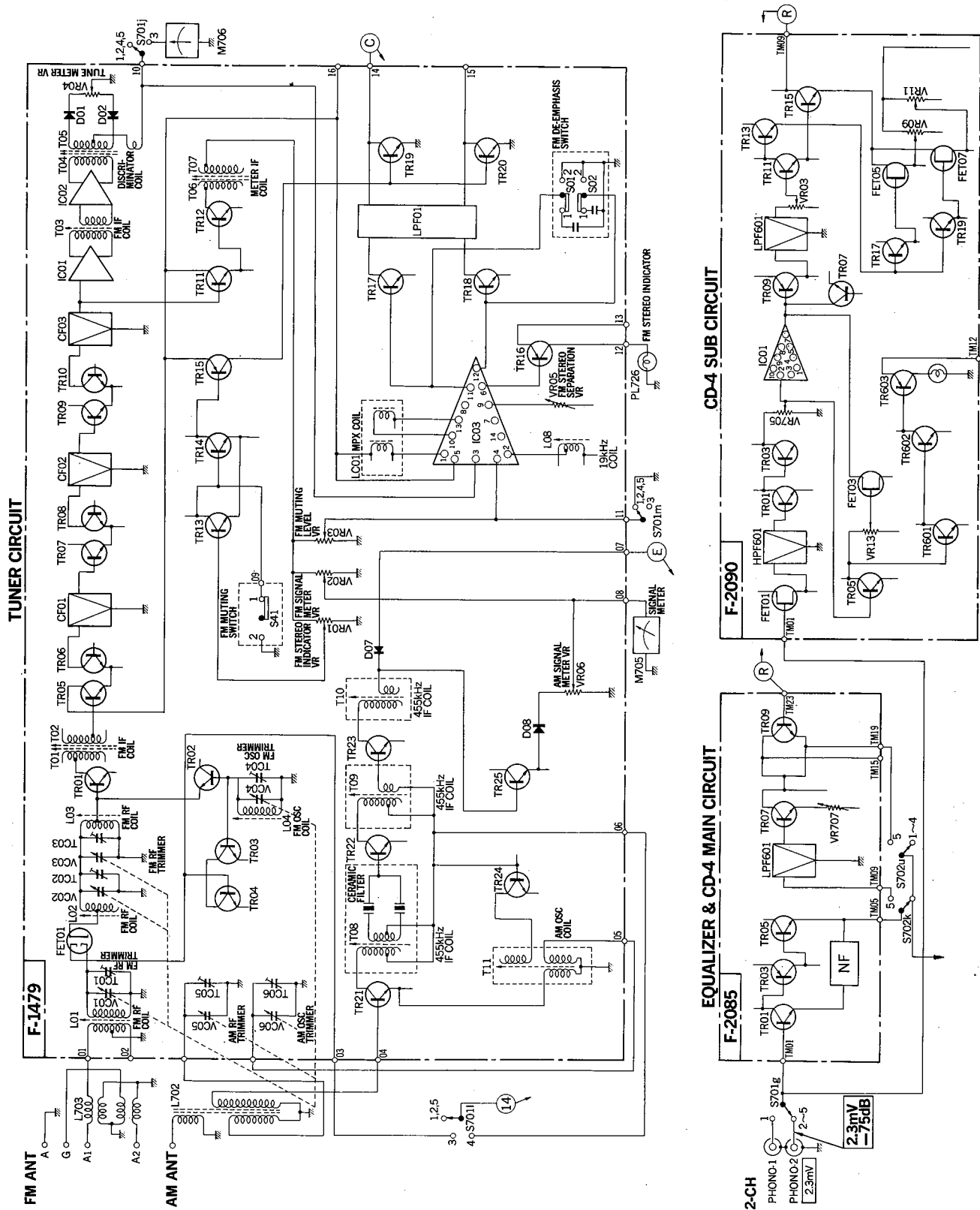
POWER REQUIREMENTS
 Voltage.....100, 117, 220, 240V 50/60Hz
 Consumption140W (rated), 400VA (max.)

DIMENSIONS594mm (23 3/8")W,
 203mm (8")H,
 370mm (14 5/16")D

WEIGHT21.8kg (48.0 lbs.) Net
 25.0kg (55.0 lbs.) Packed

* Design and specifications subject to change without notice for improvements.

2. BLOCK DIAGRAM AND VALUE OF EACH LEVEL



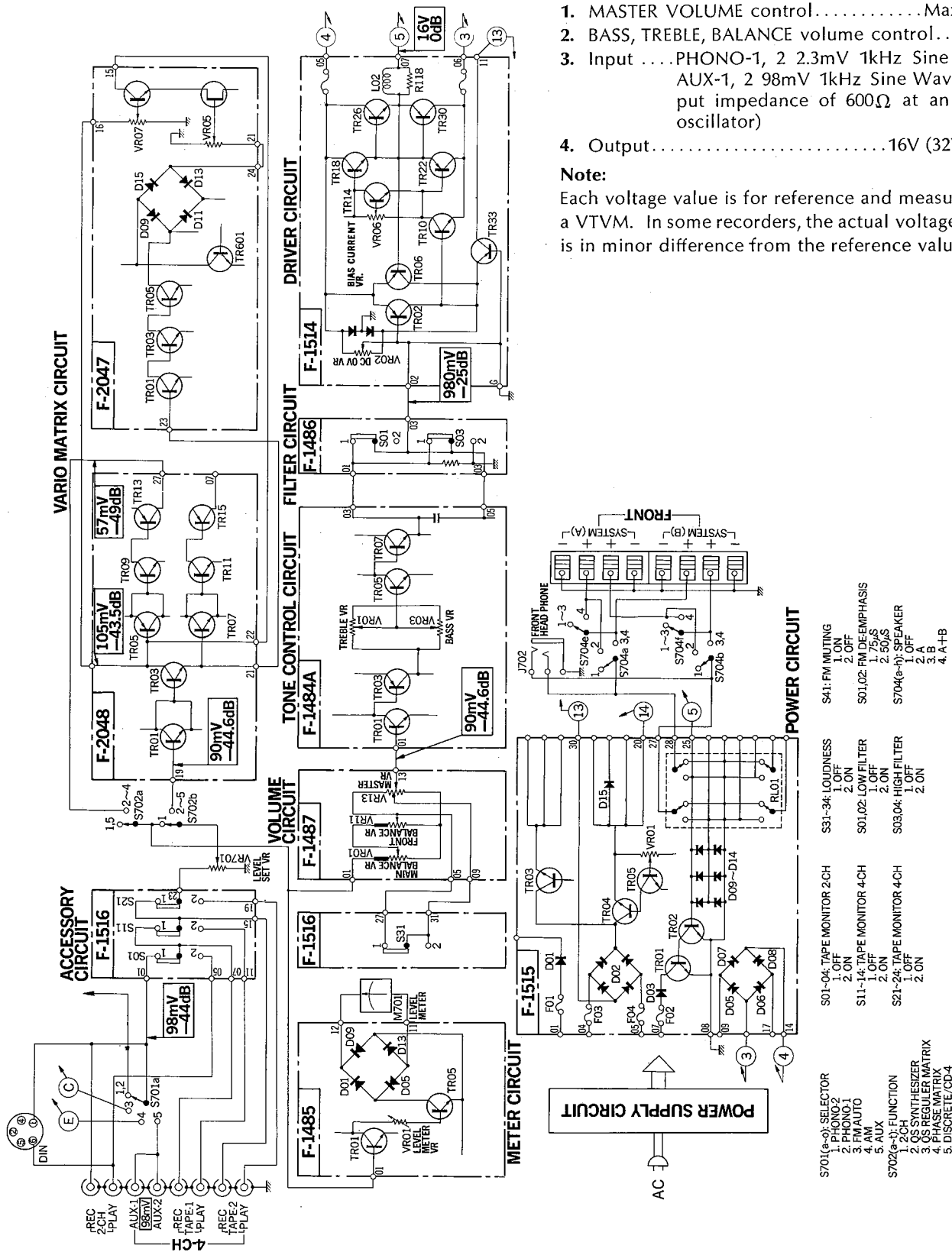
Conditions of Level Measuring

*Value of each level in block diagram was measured by the followings.

1. MASTER VOLUME control.....Maximum
2. BASS, TREBLE, BALANCE volume control..Center
3. InputPHONO-1, 2 2.3mV 1kHz Sine Wave
AUX-1, 2 98mV 1kHz Sine Wave (output impedance of 600Ω at an audio oscillator)
4. Output.....16V (32W) 8Ω

Note:

Each voltage value is for reference and measured by a VTVM. In some recorders, the actual voltage value is in minor difference from the reference value.



- S701(a-o) SELECTOR
1. PHONO-2
2. PHONO-1
3. FM AUTO
4. AM
5. AUX
- S702(a-b) FUNCTION
1. 2CH
2. OS SYNTHESIZER
3. OS REGULATOR MATRIX
4. PHASE MATRIX
5. DISCRETE/CD4
- S01-04: TAPE MONITOR 2-CH
1. OFF
2. ON
- S11-14: TAPE MONITOR 4-CH
1. OFF
2. ON
- S21-24: TAPE MONITOR 4-CH
1. OFF
2. ON
- S31-34: LOUDNESS
1. OFF
2. ON
- S01.02: LOW FILTER
1. OFF
2. ON
- S03.04: HIGH FILTER
1. OFF
2. ON
- S41: FM MUTING
1. ON
2. OFF
- S01.02 FM DEEMPHASIS
1. 75μS
2. 50μS
- S704(a-h) SPEAKER
1. OFF
2. A
3. B
4. A+B

3. ALIGNMENTS AND ADJUSTMENTS

Abbreviation

Equipment

AM FM Generator Oscilloscope..... Genescope
 AM Standard Signal Generator AM SSG
 FM Standard Signal Generator FM SSG
 FM Stereo Generator..... Stereo SG
 Oscilloscope Scope
 Audio Oscillator Audio Osci.
 Distortion Meter Dist. Meter

Others

ClockwiseCW.
 Counterclockwise CCW.
 AntennaANT.
 Modulation.....MOD.

3-1. Regulated Power Supply Board Adjustment (See Fig. 3-1)

Note: 1. Function.....QS Synthesizer
 2. Master Volume.....Minimum
 3. Confirm the AC Power Supply voltage.

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	Regulated Power Supply	DC volt meter	F-1515 terminal 18	F-1515 VR01	25±0.1V	

3-2. Level Meter Adjustment (See Fig. 3-2)

Note: 1. FunctionDiscrete
 2. Selector.....AUX-1
 3. Master VolumeMinimum
 4. Level Set VolumeMaximum
 5. For adjustment, run the unit for more than 2 minutes after the power is switched on.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	Level Meter	1kHz Output : 100mV Audio Osci.	FRONT, REAR AUX-1 L, R-ch	Level Meter	F-1485 VR01 (front L-ch) VR02 (front R-ch) VR03 (rear L-ch), VR04 (rear R-ch)	0 level	o Feed signal to 4-CH (both FRONT and REAR)

Fig. 3-1

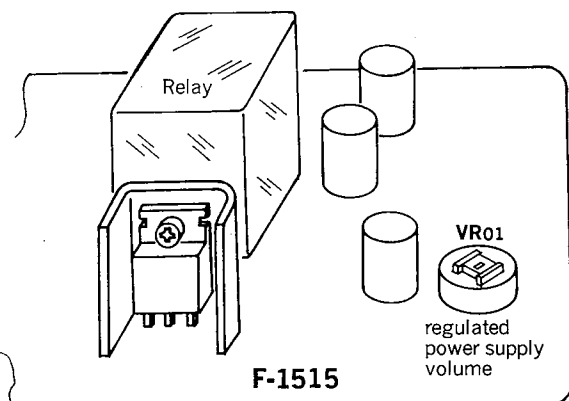
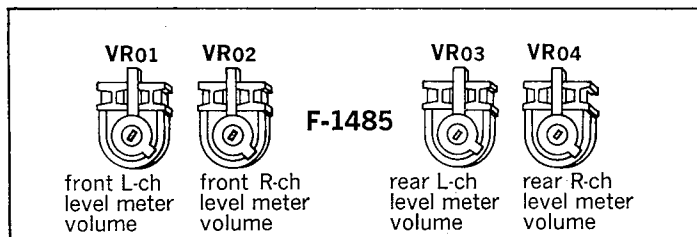


Fig. 3-2



3-3. Driver Circuit Board Adjustment (See Figs. 3-3 and 3-4)

- Note:** 1. Master Volume.....Minimum
 2. Make the SP terminals free (no load).
 3. Confirm the AC Power Supply voltage.
 4. After adjustment, run the unit for more than 5 minutes, then check and readjust necessary.
 5. Room temperature should be 18~28° (65~83°F) for bias current adjustment.

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	DC 0V Front R	DC volt meter	Speaker terminal Front R-ch Fig. 3-4	F-1514 VR01	0V ±10mV	○ Step down meter's range accordingly
2	DC 0V Front L	Same as above	Speaker terminal Front L-ch Fig. 3-4	F-1514 VR02	Same as above	Same as above
3	DC 0V Rear R	Same as above	Speaker terminal Rear R-ch Fig. 3-4	F-1514 VR03	Same as above	Same as above
4	DC 0V Rear L	Same as above	Speaker terminal Rear L-ch Fig. 3-4	F-1514 VR04	Same as above	Same as above
5	Bias current Front R	DC milliammeter	F-1482 F01 Fig. 3-3	F-1514 VR05	25±1mA	○ Step down meter's range accordingly
6	Bias current Front L	Same as above	F-1482 F02 Fig. 3-3	F-1514 VR06	Same as above	Same as above
7	Bias current Rear R	Same as above	F-1482 F03 Fig. 3-3	F-1514 VR07	Same as above	Same as above
8	Bias current Rear L	Same as above	F-1482 F04 Fig. 3-3	F-1514 VR08	Same as above	Same as above

Fig. 3-3

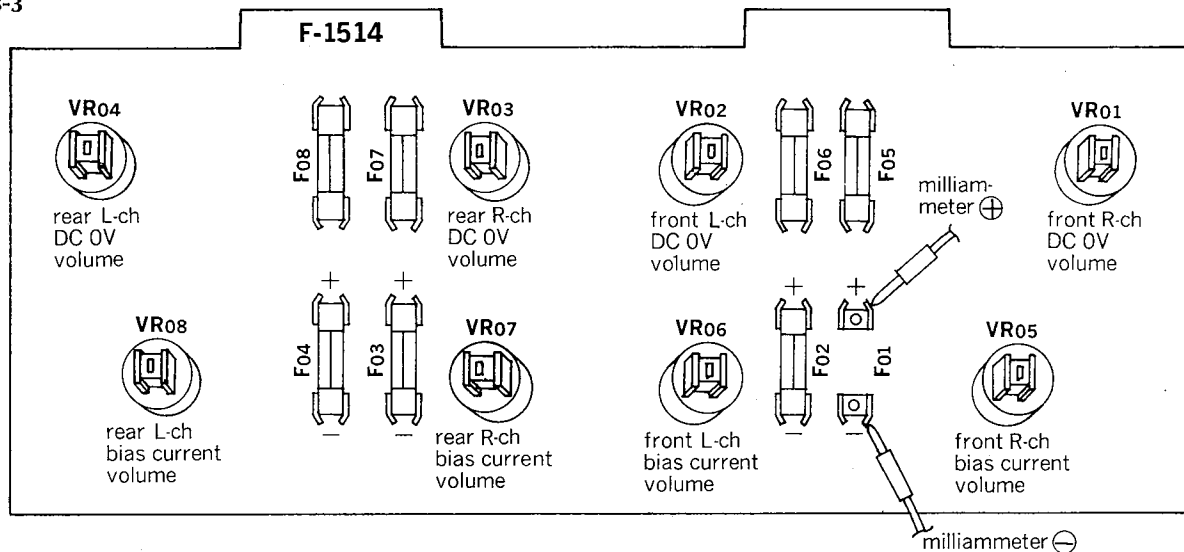
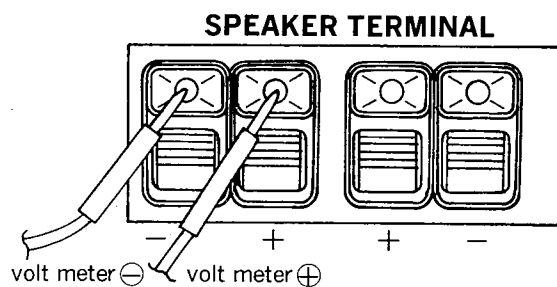


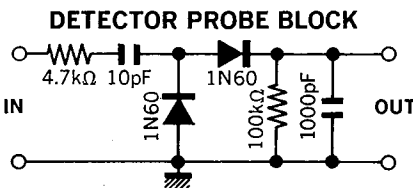
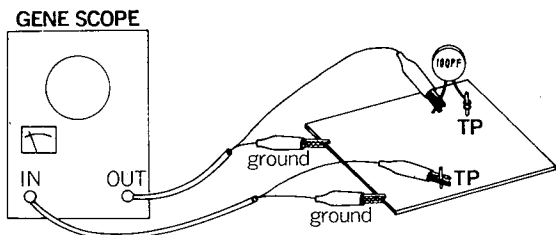
Fig. 3-4



3-4. FM IF Alignment (See Fig. 3-10 on page 10)

- Note:** 1. Selector.....FM AUTO
 2. Master VolumeMinimum
 3. Output lever of genescopeAfter attenuator
 4. Sweepwidth.....1.5~2cm/150kHz
 5. Frequency band9.5~11.5MHz

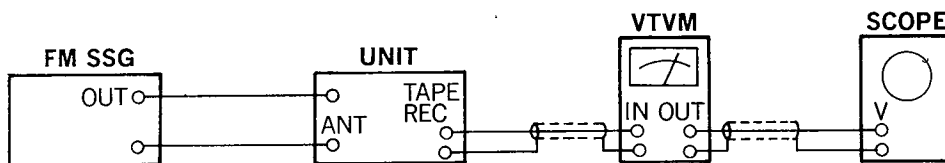
6. ConnectionConnect the output of genescope to TP.A through 100pF ceramic capacitor.
 7. Before adjustment, turn both VR01 and VR02 CCW (Max.), VR03 CW (Max.) and VR04 to center.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	IF coil	Output 55dB Genescope	Base of TR01 on F-1479 (Fig. 3-10 TP.A)	Connected Point between R48 & R50 on F-1479 (Fig. 3-10 TP.B) Use Detector Probe	T01, T02	Max. IF waveform 1 as Fig. 3-9	○Turn core of T06 CCW.
2	Meter coil	Same as above	Same as above	Connected point between R62 & VR02 on F-1479 (Fig. 3-10 TP.D) Direct from Genescope	T06, T07	Max. IF waveform 2 Set the center of waveform 2 with waveform 1 as Fig. 3-9	
3	Discriminator coil	Same as above	Same as above	Connected point between R67 & R68 on F-1479 (Fig. 3-10 TP.C) Direct from Genescope	T04 T05	Max. linearity of S curve Set the center of S curve waveform 1 & 2 as Fig. 3-9	
4	IF coil	Same as above	Same as above	Same as above	T03	Max. noise	

3-5. FM Dial Calibration and RF Alignment (See Fig. 3-10 on page 10)

- Note:** 1. Selector.....FM AUTO
 2. Master VolumeMinimum
 3. FM Muting switchOFF (pushed in)
 4. Confirm start point of dial pointer before alignment.
 5. In Step 3, 4 and 5, 1 and 2 are readjusted, repeat 3, 4 and 5 again.

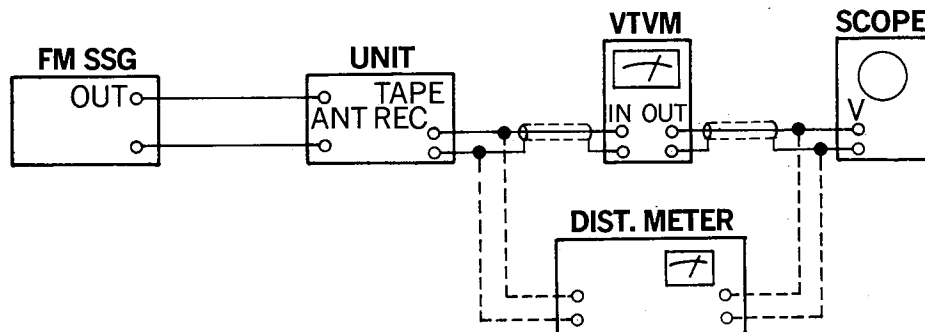


STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	88MHz Dial Calibration	88MHz ANT input 60dB 1kHz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-ch VTVM & Scope	L04	Max. output	○Set Dial on 88MHz
2	108MHz Dial Calibration	108MHz ANT input 60dB 1kHz (100% MOD) FM SSG	Same as above	Same as above	Trimmer Cap. TC04	Same as above	○Set Dial on 108MHz

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
3	Confirm 88MHz Dial Calibration	Same as Step 1	Same as above	Same as above		Confirm 88MHz Dial Calibration	◦If not, repeat from Step 1
4	Confirm 98MHz Dial Calibration	98MHz ANT input 60dB 1kHz (100% MOD) FM SSG	Same as above	Same as above		Confirm 98MHz Dial Calibration	
5	Confirm 108MHz Dial Calibration	Same as Step 2	Same as above	Same as above		Confirm 108MHz Dial Calibration	◦If not, repeat from Step 2
6	88MHz RF Adj.	88MHz ANT input 10dB 1kHz (100% MOD) FM SSG	Same as above	Same as above	L01, L02, L03	Max. output	◦Tune FM SSG (Max. indication of Signal Meter)
7	108MHz RF Adj.	108MHz ANT input 10dB 1kHz (100% MOD) FM SSG	Same as above	Same as above	Trimmer Cap. TC01, TC02, TC03	Same as above	Same as above

3-6. FM Signal Meter, Mono Distortion, Tune Meter and Muting Adjustment (See Fig. 3-10 on page 10)

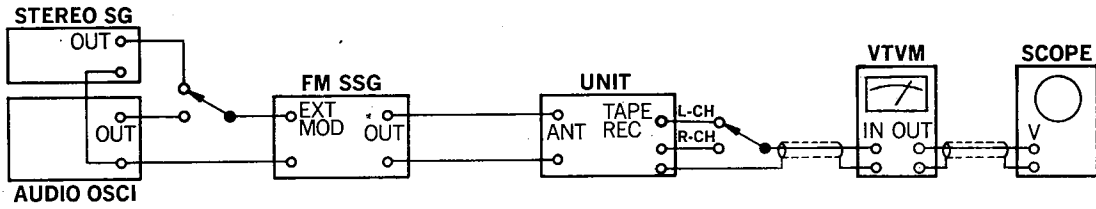
Note: 1. Selector.....FM AUTO
2. Master VolumeMinimum



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	Signal Meter	98MHz ANT input 66dB 1kHz (100% MOD) FM SSG	ANT terminal 300Ω	Signal Meter	VR02	4.3 on meter 	◦Tune FM SSG (Max. indication of Signal Meter) ◦Before adjustment, if meter swings out or not enough, preadjust VR02 until the reasonable point
2	Distortion	Same as above	Same as above	REC OUT L or R-ch Dist. meter & Scope	T05	Min. distortion	◦Set VR04 to center ◦Tune FM SSG (Max. indication of Signal Meter)
3	Tune Meter			Tune Meter	VR04	Center on Tune meter 	◦Tune interstation noise
4	Muting Level	98MHz ANT input 25dB 1kHz (100% MOD) FM SSG	Same as above	REC OUT L or R-ch VTVM & Scope	VR03	Audio signal just muted 	◦Set FM MUTING switch to OFF (pushed in) ◦Tune the Tune Meter to center and set the muting switch to ON (pushed out)

3-7. MPX Alignment (See Fig. 3-10 on page 10)

- Note:** 1. SelectorFM AUTO
 2. Master Volume.....Minimum
 3. FM MUTING switchOFF (pushed in)
 4. Before adjustment, turn VR01 CW (Max.) and VR05 to center.

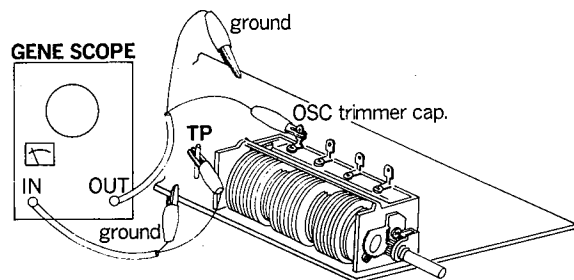
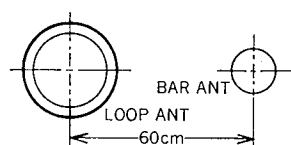


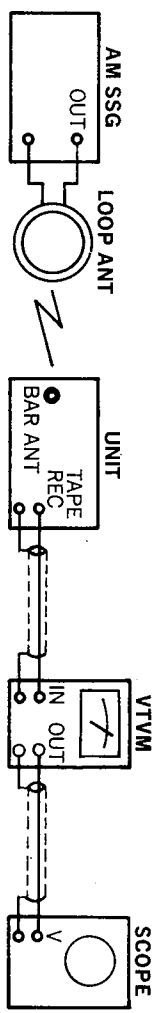
STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	19kHz coil	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) L-ch 1kHz (45% MOD) R-ch (0% MOD) Stereo SG	ANT terminal 300Ω	REC OUT L-ch VTVM & Scope	L08	Max. output	o Tune FM SSG (Center indication of Tune Meter)
2	Separation	Same as above	Same as above	REC OUT R-ch VTVM & Scope	VR05	Min. output	
3	Cofirm Separation	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) L-ch (0% MOD) R-ch 1kHz (45% MOD) Stereo SG	Same as above	REC OUT L-ch VTVM & Scope		Min. output	o If less the 37dB adjust VR05
4	Indicator (Lighting level)	98MHz ANT input 31dB FM SSG Pilot 19kHz (10% MOD) Stereo SG	Same as above	Stereo indicator lamp	VR01	Lighting Point	o Tune FM SSG (Center indication of Tune Meter)

3-8. AM IF, Dial Calibration, RF and Signal Meter Alignment (See Figs. 3-6, 3-7, 3-8 and 3-10 on page 10)

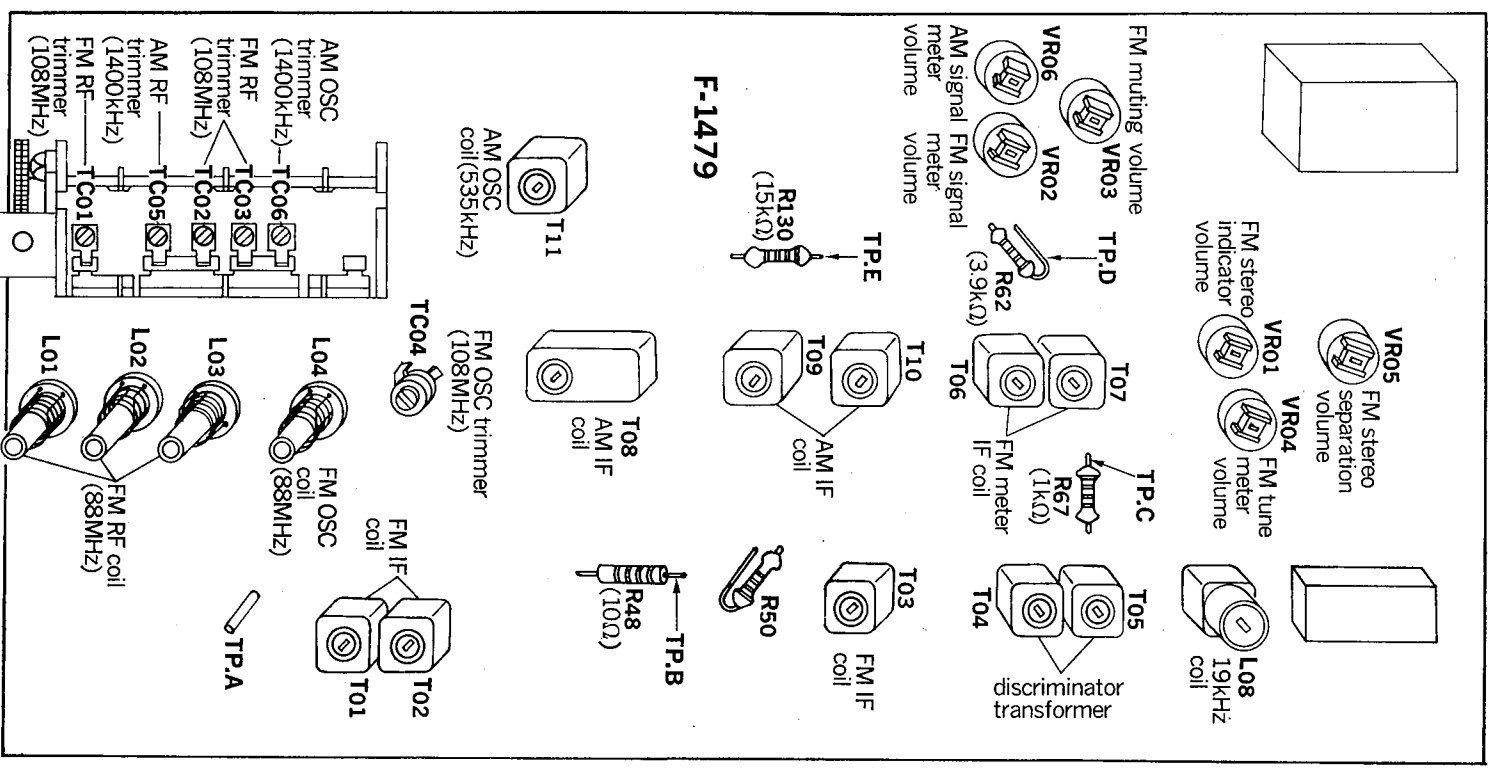
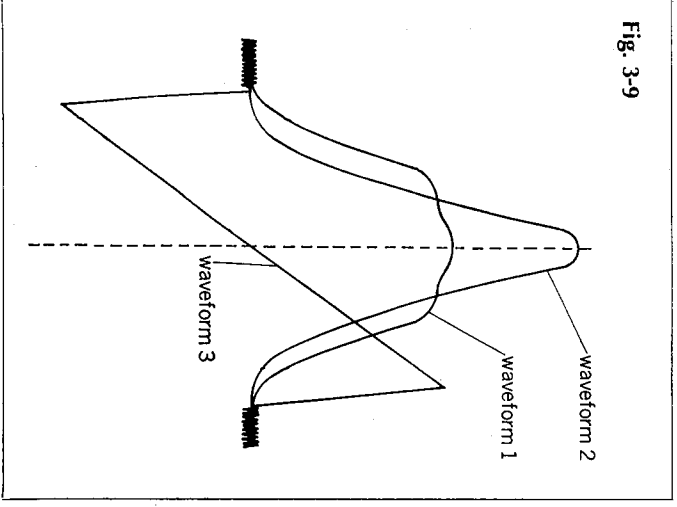
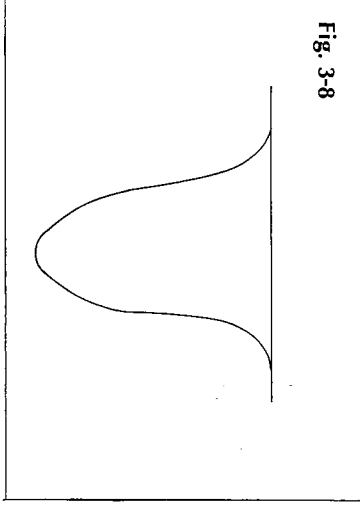
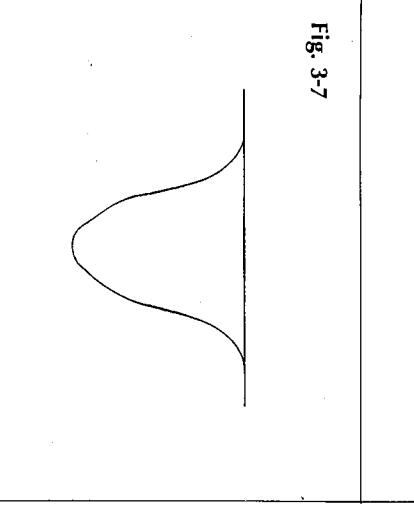
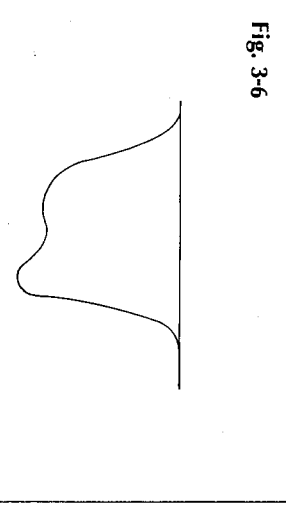
- Note:** 1. Selector.....AM
 2. Master VolumeMinimum
 3. Confirm start point of dial pointer before alignment.
 4. In case of using loop antenna, increase output of AM SSG for 26dB than bar antenna's direct input as it attenuates input sensitivity for 26dB. (See Fig. 3-5)
 5. After adjustment of signal meter, confirm the meter's swing on FM. (If meter swang out or not enough, readjust VR02.) (See Page 3-8)

Fig. 3-5





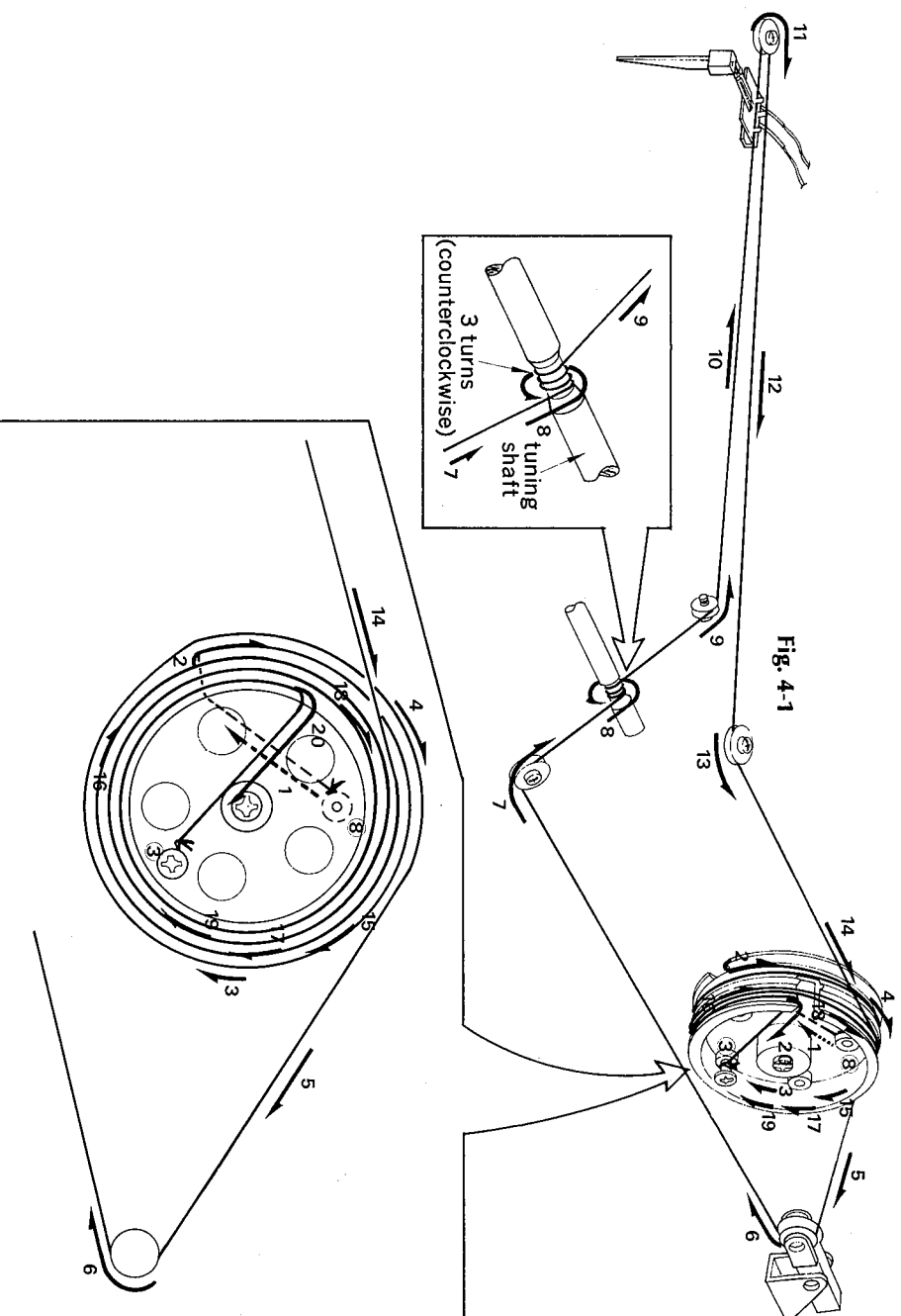
STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	IF coil	Output 70dB Genescope	OSC trimmer cap. (TC06) Fig. 3-10	Connected Point between R130 & R136 on F-1479 (Fig. 3-10 TP-E)	T08	Max. IF waveform 1 Fig. 3-6	Turn core T09 & T10 CCW.
2	IF coil	Output 55dB Genescope	Same as above		T09	Max. IF waveform 2 Fig. 3-7	If not, readjust T08 & T09 slightly
3	IF coil	Output 45dB Genescope	Same as above		T10	Max. IF waveform 3 Fig. 3-8	If broadcasting station is near, it might be used
4	535KHz Dial calibration	535KHz ANT input 60dB AM SSG Use Loop ANT	BAR ANT	REC OUT L or R-ch VTVM & Scope	T11	Max. output	Same as above
5	1400KHz Dial Calibration	1400KHz ANT input 60dB AM SSG Use Loop ANT	Same as above	Same as above	Trimmer Cap. TC06	Same as above	Same as above
6	Confirm 600KHz Dial Calibration	600KHz ANT input 60dB AM SSG Use Loop ANT	Same as above	Same as above		Confirm 600KHz Dial Calibration	If not, repeat from Step 4
7	Confirm 1000KHz Dial Calibration	1000KHz ANT input 60dB AM SSG Use Loop ANT	Same as above	Same as above		Confirm 1000KHz Dial Calibration	
8	Confirm 1400KHz Dial Calibration	Same as Step 5	Same as above	Same as above		Confirm 1400KHz Dial Calibration	If not, repeat from Step 5
9	600KHz RF Adj.	600KHz ANT input 50dB AM SSG Use Loop ANT	Same as above	Same as above	Bar ANT L702	Max. output	
10	1400KHz RF Adj.	1400KHz ANT input 50dB AM SSG Use Loop ANT	Same as above	Same as above	Trimmer Cap. TC05	Same as above	
11	Signal Meter	1000KHz ANT input 100dB AM SSG Use Loop ANT	Same as above	Same as above	F-1479 VR06	4 on meter	Tune AM SSG (Max. indication of signal meter) Before adjustment, if meter swang out or not enough, preadjust VR06 until the reasonable point



4. THREADING OF DIAL CORD

* If dial cord is or slips, replace cord by following procedures. As QRX-7500 is using 0.6mm ϕ cord, please it with same type certainly.

* Length of dial cord.....approx. 210cm (82.7 inch)



- 1. How to Thread Dial Cord**
 - * Thread dial cord in numerical order from 1 to 20 as shown in Fig. 4-1.
 - 1) Close the variable capacitor completely (Maximum capacitance).
 - 2) Tie cord to number ⑨ screw of the dial pulley and thread cord in direction of arrow from 1 to 7 toward tuning shaft 8.
 - 3) After 8, wind cord three turns around the tuning shaft counterclockwise and thread it in direction of arrow from 9 to 19.
 - 4) After 20, tie cord to number ⑩ screw of the pulley.

* In order to proceed with the above procedure 4) successfully, please follow the instruction under-mentioned.

- (1) To strengthen the dial cord's tension, hold around the end of cord and pull it toward the Front Panel.
- (2) Then, turn the tuning shaft counterclockwise, as cord's tension will be more constantly obtained.
- (3) Tie the cord to number ⑩ screw of the pulley (same as procedure 4).

- 5) After these procedures, lock the knots of cord with paint.

2. Attachment of Dial Pointer

- 1) Close the variable capacitor completely (Maximum capacitance).
- 2) Set the dial pointer to "0" on dial scale and tighten the dial pointer ass'y. (See Fig. 4-2)

* Make sure that the dial mechanism operates smoothly by turning the Tuning knob.

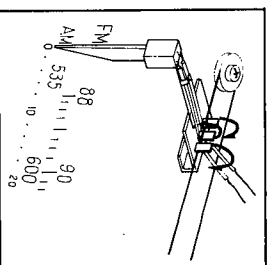


Fig. 4-2

5. TROUBLESHOOTING CHART

5-1. Troubleshooting on Power Supply Section

1. No power supplied to each section

Symptom	Check Point	Cause & What to Do
1-1. Each lamp not lighted		1. Imperfect contact of power supply plug
		2. Power fuse open
		3. Defective power switch S705
		4. F01 on F-1515 open
		5. Defective power transformer PT001

1-2. Each lamp lighted

1) +31V not supplied to terminal ⑤ on F-1514	6. Defective D07, D08 on F-1515
2) -31V not supplied to terminal ⑥ on F-1514	7. Defective D05, D06 on F-1515
3) +30V not supplied to terminal ① on F-2085	8. F02, F03 on F-1515 open
	9. Defective D02 on F-1515
	10. Defective TR03, TR04 on F-1515
	11. Defective TR05 on F-1515
	12. Imperfect contact of VR01 on F-1515
4) +25V not supplied to terminal ② on F-2047	13. Defective D15 on F-1515

5-2. Troubleshooting on Audio Section

1. Quick acting fuse open

1-1. After replacement, fuse not open	1. Set the bias current to 25mA
1-2. After replacement, fuse open again	2. Defective TR25, TR29 (TR26, TR30) on F-1514
	3. Defective TR17, TR21 (TR18, TR22) on F-1514
	4. Defective TR13 (TR14) on F-1514

2. 2-CH of FUNCTION inoperative

2-1. Both channels inoperative	5. Defective power supply section (See 5-1)
2-2. One channel inoperative	6. Imperfect contact of TAPE MONITOR switch S01 (S02) on F-1489
	7. Defective TR01, TR03, TR05, TR07 (TR02, TR04, TR06, TR08) on F-1484
	8. Imperfect contact of Low Filter switch S01 (S02) on F-1486
	9. Imperfect contact of High Filter switch S03 (S04) on F-1486
	10. Defective F-1514 printed board

Stock No. Description

6036050 Dial Cord 0.6mm ϕ

3. PHONO inoperative

Symptom	Check Point	Cause & What to Do
3-1. Both channels inoperative		11. Defective power supply section (See 5-1)
3-2. One channel inoperative		
1. Reverse the output cords of L and R-ch from turntable		
1-1. Inoperative channel reverses		12. Imperfect contact of turntable output cord 13. Defective turntable
1-2. Inoperative channel not reverses		14. Defective TR01, TR03, TR05 (TR02, TR04, TR06) on F-2085 15. Imperfect contact of SELECTOR switch S701a (S701b), S701i (S701j)

4. Level Meter inoperative

4-1. 4-channels inoperative		16. Defective power supply section (See 5-1) 17. Defective F-2048, F-2047
1) Front L or R channel inoperative		18. Defective TR01, TR05 (TR02, TR06) on F-1485 19. Defective D01, D05, D09, D13 (D02, D06, D10, D14) on F-1485 20. Defective VR01 (VR02) on F-1485 21. Defective Meter
2) Rear L or R channel inoperative		22. Defective TR03, TR07 (TR04, TR08) on F-1485 23. Defective D03, D07, D11, D15 (D04, D08, D12, D16) on F-1485 24. Defective Meter 25. Defective VR03 (VR04)

5. QS SYNTHESIZER or QS REGULAR MATRIX of FUNCTION Switch inoperative

*QS Regular Matrix circuit consists of both F-2047 and F-2048 printed boards.
(2-CH of FUNCTION switch operative)

- | | |
|---------------------------------------|---|
| 5-1. Both Front and Rear inoperative | <ul style="list-style-type: none"> 26. Defective power supply section (See 5-1) 27. Defective TR01, TR03 (TR02, T04) on F-2048 |
| 5-2. Front L or R channel inoperative | <ul style="list-style-type: none"> 28. Defective TR01, TR03, TR05 (TR02, TR04, TR06) on F-2047 29. Defective D09, D11, D13, D15 (D10, D12, D14, D16) on F-2047 30. Defective FET01 (FET02) on F-2047 31. Defective TR07 (TR08, TR09) on F-2047 32. Defective TR05, TR09, TR13 (TR06, TR10, TR14) on F-2048 33. Defective FUNCTION switch S702a~t, SELECTOR switch S701a~o |
| 5-3. Rear L or R channel inoperative | <ul style="list-style-type: none"> 34. Defective TR07, TR11, TR15 (TR08, TR12, TR16) on F-2048 35. Defective FUNCTION switch S702a~t, SELECTOR switch S701a~o |

5-3. Troubleshooting on RF Section

Symptom	Check Point	Cause & What to Do
1. Both FM and AM inoperative (PHONO operative)		
1-1. Both channels inoperative		
<ul style="list-style-type: none"> 1) +13V not supplied at terminal [03], [06], [16] on F-1479 2) +13V not supplied to terminal [03], [06], on F-1479 	<ul style="list-style-type: none"> 1. Defective power supply section (F-1515) 2. Imperfect contact of SELECTOR switch S701I 	<ul style="list-style-type: none"> 1. Defective power supply section (F-1515) 2. Imperfect contact of SELECTOR switch S701I
1-2. One channel inoperative		
<ul style="list-style-type: none"> 1) AM section inoperative 2) FM section inoperative 	<ul style="list-style-type: none"> 3. Defective SELECTOR switch S701a (701b) 4. Defective SELECTOR switch S701a (701b) 5. Defective TR17 (TR18) on F-1479 6. Defective Low Pass Filter LPF01 	<ul style="list-style-type: none"> 3. Defective SELECTOR switch S701a (701b) 4. Defective SELECTOR switch S701a (701b) 5. Defective TR17 (TR18) on F-1479 6. Defective Low Pass Filter LPF01

2. FM Section

*Before check, set MUTING switch to OFF (Pushed in)

2-1. FM inoperative only

1. Tune FM signal or FM broadcasting station

- | | |
|---|--|
| 1-1. Signal meter operative
(Interstation noise too low compared with proper unit) | <ul style="list-style-type: none"> 7. Defective IC01, IC02 on F-1479 8. Defective T03~T05 on F-1479 9. Defective D01, D02 on F-1479 10. Defective IC03 on F-1479 11. Defective LC01 on F-1479 |
| 1-2. Signal meter inoperative | <ul style="list-style-type: none"> 12. Defective CF01~CF03 on F-1479 13. Defective FET01, TR01~TR04 on F-1479 14. Defective TR05~TR10 on F-1479 15. Defective L01~L04 on F-1479 16. Defective T01~T02 on F-1479 |
| 2-2. Signal meter inoperative
(FM broadcasting sound can be heard) | <ul style="list-style-type: none"> 17. IF, RF out of adjustment on F-1479 18. Defective TR11, TR12 on F-1479 19. Defective T06, T07 on F-1479 20. Defective D03, D04 on F-1479 21. Defective VR02 on F-1479 22. Defective signal meter |
| 2-3. Tune meter inoperative
(FM broadcasting sound can be heard) | <ul style="list-style-type: none"> 23. T04, T05, out of adjustment on F-1479 24. IF out of adjustment on F-1479 25. Discriminator coil out of adjustment on F-1479 26. Defective Tune meter 27. Defective SELECTOR switch S701j |
| 2-4. Muting circuit inoperative
(Signal meter operative) | <ul style="list-style-type: none"> 28. Defective D01, D02 on F-1479 29. Defective TR13~TR15 on F-1479 30. Defective TR19, TR20 on F-1479 31. Defective D05 on F-1479 32. Defective VR03 on F-1479 33. Imperfect contact of MUTING switch S41 |

Symptom	Check Point	Cause & What to Do
2-5. No channel separation on FM stereo broadcasting	*Confirm that SELECTOR switch is set to FM AUTO. *Confirm signal meter operates	
1. Indicator lamp not lighted		34. Defective the indicator lamp PL726 35. Defective TR16 on F-1479 36. Defective L08 on F-1479 37. Defective IC03 on F-1479 38. Defective VR01 for indicator lamp on F-1479 39. Defective VR05 for FM stereo separation on F-1479 40. Defective F-1515
2. Indicator lamp lighted		41. Defective TR16 on F-1479

3. AM Section

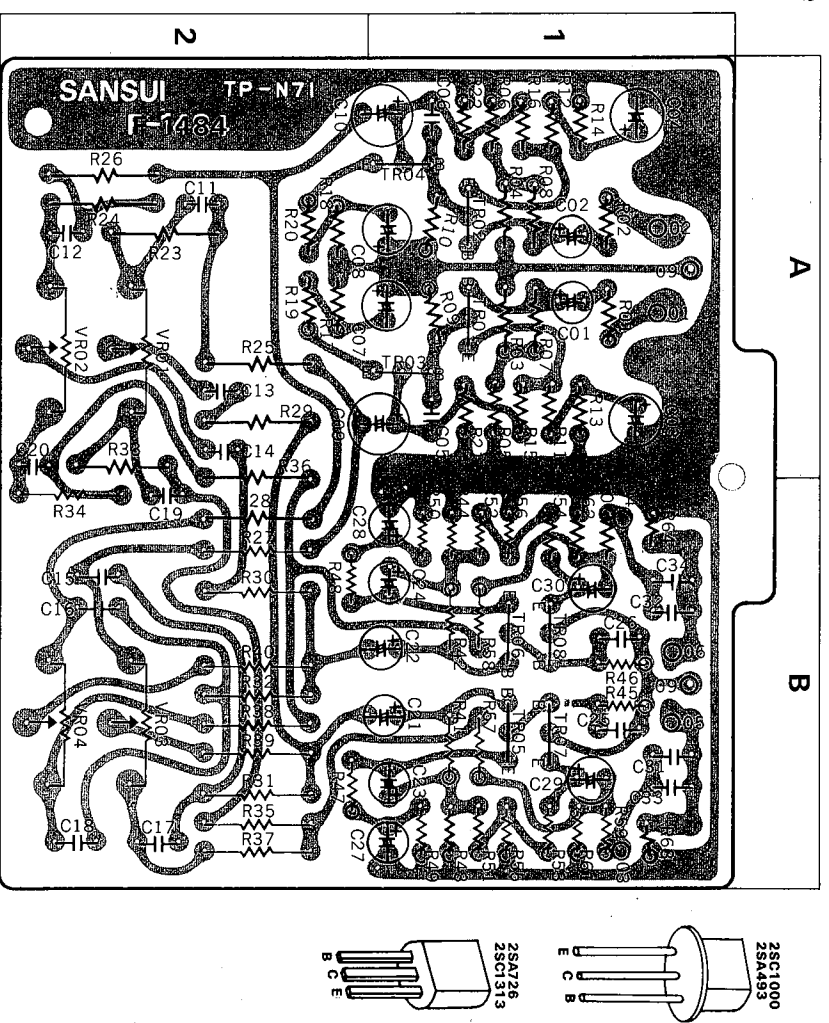
3-1. AM inoperative

1. Interstation noise changes by touching the terminal 04 on F-1479

1-1. Increase		42. Defective bar antenna 43. Deective TR24 on F-1479 44. Defective T11 on F-1479 45. Variable capacitor shorted
1-2. No change		46. Defected D07 on F-1479 47. Defective TR21~TR23 on F-1479 48. Defective T08~T10 on F-1479
3-2. Distortion		49. Defective D06, D07 on F-1479 50. IF out of adjustment on F-1479
3-3. Signal meter inoperative (AM broadcasting sound can be heard)		51. IF, RF out of adjustment on F-1479 52. Defective TR25 on F-1479 53. Defective D08, D09 on F-1479 54. Imperfect contact of VR06 on F-1479 55. Defective signal meter

6. PARTS LOCATIONS AND PARTS LIST

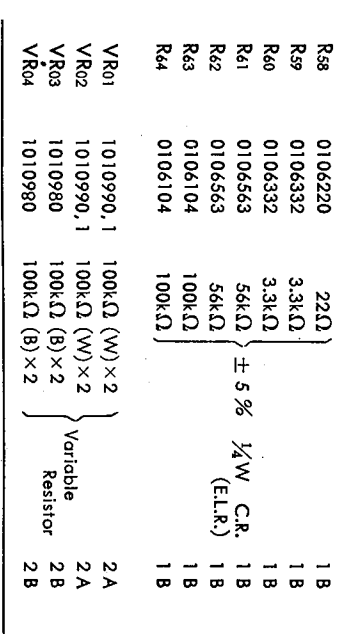
6-1. F-1484 Tone Control Circuit Board (Stock No. 7560740 Complete Circuit Board F-1484)



Parts No.	Stock No.	Description	Position
TR01	0305880, 1 or 0306071, 2	2SC1000 (GR, BL) or 2SC1313 (G, H)	1A
TR02	0305880, 1 or 0336071, 2	2SC1000 (GR, BL) or 2SC1313 (G, H)	1A
TR03	0300450 or 0300410, 1	2SA493 (GR) or 2SA726 (F, G)	1A
TR04	0300450 or 0300410, 1	2SA493 (GR) or 2SA726 (F, G)	1A
TR05	0305880 or 0306071, 2	2SC1000 (GR, BL) or 2SC1313 (G, H)	1B
TR06	0305880 or 0306071, 2	2SC1000 (GR, BL) or 2SC1313 (G, H)	1B
TR07	0305880 or 0306071, 2	2SC1000 (GR, BL) or 2SC1313 (G, H)	1B
TR08	0306071, 2 or 0306071, 2	2SC1313 (G, H) or 2SC1000 (GR, BL)	1B
C01	0573109	1/μF 25V T.C.	1A

Parts No.	Stock No.	Description	Position
C29	0519101	1/μF	1B
C30	0519101	1/μF	1B
C33	0600227	0.022/μF	1B
C34	0600227	0.022/μF	1B
R01	0106102	1kΩ	1A
R02	0106102	1kΩ	1A
R03	0106474	470kΩ	1A
R04	0106474	470kΩ	1A
R05	0106274	270kΩ	1A
R06	0106274	270kΩ	1A
R07	0106394	390kΩ	1A
R08	0106394	390kΩ	1A
R09	0106183	18kΩ	1A
R10	0106183	18kΩ	1A
R11	0106102	1kΩ	1A
R12	0106102	1kΩ	1A
R13	0106123	12kΩ	1A
R14	0106123	12kΩ	1A
R15	0106123	12kΩ	1A
R16	0106123	12kΩ	1A
R17	0106821	820Ω	2A
R18	0106821	820Ω	2A
R19	0106221	220Ω	2A
R20	0106221	220Ω	2A
R21	0106682	6.8kΩ	1A
R22	0106682	6.8kΩ	1A
R23	0107224	220kΩ	2A
R24	0107224	220kΩ	2A
R25	0107222	2.2kΩ	2A
R26	0107222	2.2kΩ	2A
R27	0107183	18kΩ	2B
R28	0107183	18kΩ	2B
R29	0107222	2.2kΩ	2A
R30	0107222	2.2kΩ	2B
R31	0107472	4.7kΩ	2B
R32	0107472	4.7kΩ	2B
R33	0107224	220kΩ	2A
R34	0107224	220kΩ	2B
R35	0107222	2.2kΩ	2B
R36	0107222	2.2kΩ	2A, B
R37	0107183	18kΩ	2B
R38	0107183	18kΩ	2B
R39	0107472	4.7kΩ	2B
R40	0107472	4.7kΩ	2B
R41	0106683	6.8kΩ	1B
R42	0106683	6.8kΩ	1B
R43	0106394	390kΩ	1B
R44	0106394	390kΩ	1B
R45	0106563	56kΩ	1B
R46	0106563	56kΩ	1B
R47	0106561	560Ω	2B
R48	0106561	560Ω	2B
R49	0106562	5.6kΩ	1B
R50	0106562	5.6kΩ	1B
R51	0106154	150kΩ	1B
R52	0106154	150kΩ	1B
R53	0106682	6.8kΩ	1B
R54	0106682	6.8kΩ	1B
R55	0106821	820Ω	1B
R56	0106821	820Ω	1B
R57	0106220	22Ω	1B

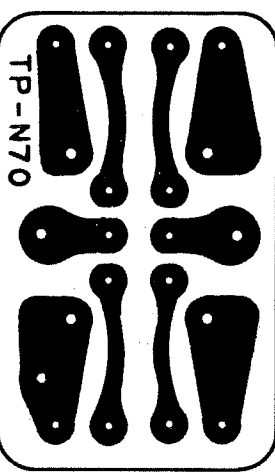
6-2. F-1490 De-emphasis Circuit Board (Stock No. 7591880 Complete Circuit Board F-1490)



Parts No.	Stock No.	Description	Position
R8	0106220	22Ω	1B
R9	0106332	3.3kΩ	1B
R10	0106332	3.3kΩ	1B
R11	0106563	56kΩ	1B
R12	0106563	56kΩ	1B
R13	0106104	100kΩ	1B
R14	0106104	100kΩ	1B
VR01	1010990, 1	100kΩ (W) × 2	2A
VR02	1010990, 1	100kΩ (W) × 2	2A
VR03	1010980	100kΩ (B) × 2	2B
VR04	1010980	100kΩ (B) × 2	2B

Parts List

Parts No.	Stock No.	Description
C01	0600826	0.0082μF ± 5% 50V M.C.
C02	0600826	0.0082μF ± 5% 50V M.C.
S01, 02	1110240	Slide Switch

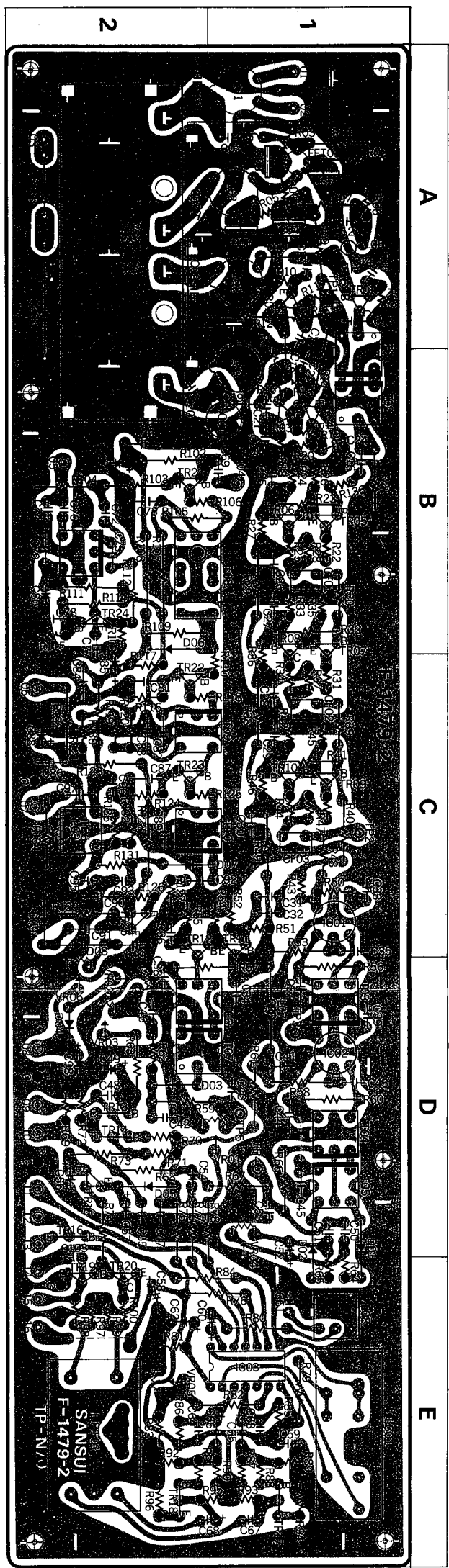


Parts List

Parts No.	Stock No.	Description
C01	0600826	0.0082μF ± 5% 50V M.C.
C02	0600826	0.0082μF ± 5% 50V M.C.
S01, 02	1110240	Slide Switch

- Abbreviations**
- C.R. : Carbon Resistor
 - S.R. : Solid Resistor
 - Co.R. : Cement Resistor
 - M.R. : Metallized Film Resistor
 - M.C. : Mylar Capacitor
 - E.C. : Electrolytic Capacitor
 - BP.E.C. : Bi-Polar Electrolytic Capacitor
 - C.C. : Ceramic Capacitor
 - M.C. : Mica Capacitor
 - O.C. : Oil Capacitor
 - P.C. : Polystyrene Capacitor
 - T.C. : Tantalum Capacitor

6-3. F-1479A Tuner Circuit Board (Stock No. 7520700 Complete Circuit Board F-1479A)
Conductor Side



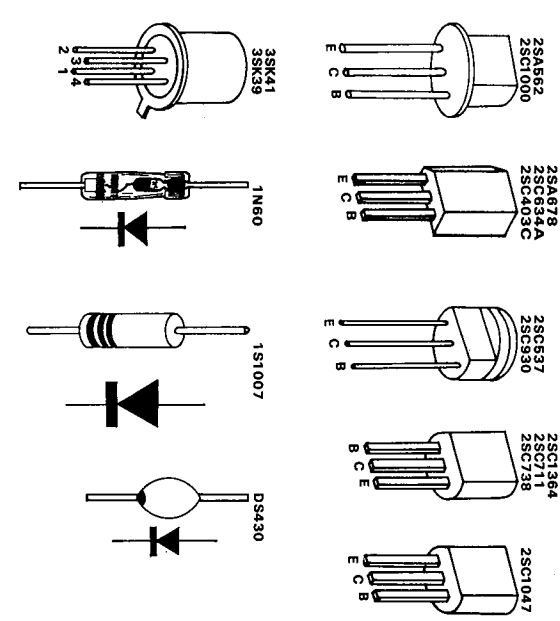
Parts List

Parts No.	Stock No.	Description	Position
TR01	0305801	2SC1047 (B)	1A
TR02	0305802	2SC1047 (C)	1A
TR03	0305790, 1	2SC930 (C,D)	1B
TR04	0305440	2SC537 (E)	1B
TR05	0306113	2SC738 (D)	1B
TR06	0306113	2SC738 (D)	1B
TR07	0306113	2SC738 (D)	1B, C
TR08	0306113	2SC738 (D)	1B, C
TR09	0306113	2SC738 (D)	1C
TR10	0306113	2SC738 (D)	1C
TR11	0305791	2SC930 (D)	1C
TR12	0305791	2SC930 (D)	1, 2C
TR13	0305733	2SC711 (G)	2D
TR14	0305733	2SC711 (G)	2D
TR15	0300291, 2	2SA678 (6, 7)	2D
TR16	0300221	2SA562 (Y)	2D
TR17	0306132	2SC1364 (7)	1E
TR18	0306132	2SC1364 (7)	2E
TR19	0305891	2SC634A (6)	2E
TR20	0305891	2SC634A (6)	2E
TR21	0305992	2SC403C (4)	2B
TR22	0305992	2SC403C (4)	2C
TR23	0305992	2SC403C (4)	2C
TR24	0305991	2SC403C (3)	2B
TR25	0305991	2SC403C (3)	2C
IC01	0360070	μpc555A	1C
IC02	0360070	μpc555A	1D
IC03	0360080	HA1120	1E
FET01	0370132, 1	3SK41 (K, L)	1A
	or		
	0370080, 1	3SK39 (R, Q)	1A
D01	0311016	1N60	1D, E
D02	0311016	1N60	1D, E
D03	0310331	1N60	2D

Parts No.	Stock No.	Description	Position
D04	0340090	DS430	2D
D05	0340090	DS430	2D
D06	0310331	1N60	2B
D07	0311090	1S1007-J	1, 2C
D08	0310331	1N60	2C
D09	0310331	1N60	2C
T01	4235890	10.7MHz (WHITE)	1A, B
T02	4235900	10.7MHz (BLACK)	1B
T03	4235860	10.7MHz (BLACK)	1D
T04	4235750	10.7MHz (PINK)	1D
T05	4235760	10.7MHz (BLUE)	1D
T06	4235840	10.7MHz (BLUE)	1D
T07	4235920	10.7MHz (BLACK)	1, 2D
T08	0910180	YEL-455E2 (CRW-455B)	1, 2B
T09	4230610	455KHz (BLACK)	1, 2C
T10	4230580	455KHz (BLUE)	1, 2C
T11	4220380	AM OSC Coil	2B
CF01	0910150	SFE-10.7MA-M	1B
CF02	0910150	SFE-10.7MA-M	1C
CF03	0910150	SFE-10.7MA-M	1C
L01	4200560	FM ANT Coil	1A
L02	4210300	FM RF Coil	1, 2A
L03	4210300	FM RF Coil	1A
L04	4220530	OSC Coil	1A, B
L05	4220110	Choke Coil	1D
L07	4290111	3.5μH Choke Coil	1A
L08	4240720	19kHz Coil	1E
L09	4290030	Peaking Coil	2C
LC01	4240710	MPX Coil	1E
LPF01	0910210	Low Pass Filter	2E
VC01-04	1220130	Variable Capacitor	2A, B

Parts No.	Stock No.	Description	Position
C01	0669368	6.8pF ±0.25pF 50V C.C.	2A
C02	0657102	0.001μF 50V C.C.	1A
C03	0659015	2200pF 50V C.C.	1A
C04	0659015	2200pF 50V C.C.	1A
C05	0659015	2200pF 50V C.C.	1A
C06	0659015	2200pF 50V C.C.	1A
C07	0669370	10pF ±5pF 50V C.C.	1, 2A
C08	0679023	0.39pF ±5% 50V C.C.	2A
C09	0669370	10pF ±5pF 50V C.C.	2A
C10	0669209	8.2pF ±0.25pF 50V C.C.	1A
C11	0669209	8.2pF ±0.25pF 50V C.C.	1A
C12	0660221	220pF ±10% 50V C.C.	1A
C14	0669209	8.2pF ±0.25pF 50V C.C.	1A
C15	0657223	0.022μF ±5% 50V C.C.	1A
C16	0657223	0.022μF ±5% 50V C.C.	1B
C17	0657223	0.022μF ±5% 50V C.C.	1A
C18	0669204	3.3pF ±0.25pF 50V C.C.	1A, B
C19	0669370	10pF ±5pF 50V C.C.	1A, B
C20	0669382	12pF ±5% 50V C.C.	2B
C21	0669369	8.2pF ±0.25pF 50V C.C.	1B
C22	0657223	0.022μF ±5% 50V C.C.	1B
C23	0669375	15pF ±5% 50V C.C.	1B
C24	0657223	0.022μF ±5% 50V C.C.	1B
C25	0657223	0.022μF ±5% 50V C.C.	1B
C26	0657223	0.022μF ±5% 50V C.C.	1B
C27	0657223	0.022μF ±5% 50V C.C.	1B
C28	0657223	0.022μF ±5% 50V C.C.	1C
C29	0657223	0.022μF ±5% 50V C.C.	1C
C30	0657223	0.022μF ±5% 50V C.C.	1C
C31	0669218	18pF ±5% 50V C.C.	1C
C32	0669224	33pF ±5% 50V C.C.	1C
C33	0657223	0.022μF ±5% 50V C.C.	1C
C34	0657223	0.022μF ±5% 50V C.C.	1D
C35	0657223	0.022μF ±5% 50V C.C.	1C
C36	0657223	0.022μF ±5% 50V C.C.	2C
C37	0657223	0.022μF ±5% 50V C.C.	1D
C38	0657223	0.022μF ±5% 50V C.C.	2D

Parts No.	Stock No.	Description	Position
C39	0657223	0.022μF ±5% 50V C.C.	1D
C40	0657223	0.022μF ±5% 50V C.C.	1D
C41	0657223	0.022μF ±5% 50V C.C.	1D
C42	0669226	47pF ±5% 50V C.C.	2D
C43	0657223	0.022μF ±5% 50V C.C.	1D
C44	0657473	0.047μF ±5% 50V C.C.	1D
C46	0657223	0.022μF ±5% 50V C.C.	2D
C47	0657223	0.022μF ±5% 50V C.C.	2D
C48	0657223	0.022μF ±5% 50V C.C.	2D
C49	0573108	0.1μF ±20% 25V T.C.	2D
C50	0660101	100pF ±10% 50V C.C.	1D
C51	0660101	100pF ±10% 50V C.C.	1D
C52	0519001	10μF ±10% 25V E.C.	1D
C53	0660101	100pF ±10% 50V C.C.	1D
C54	0513479	4.7μF ±20% 25V E.C.	2D
C55	0657223	0.022μF ±5% 50V C.C.	2D
C56	0519104	1.5μF ±20% 50V E.C.	2D
C57	0515339	3.3μF ±20% 50V E.C.	2D
C58	0512221	220μF ±20% 16V E.C.	2E
C59	0657223	0.022μF ±5% 50V C.C.	1E
C60	0515339	3.3μF ±20% 50V E.C.	1E
C61	0629001	6800pF ±5% 50V P.C.	1E
C62	0512100	10μF ±20% 16V E.C.	2E
C63	0600187	0.018μF ±5% 50V M.C.	1E
C64	0600187	0.018μF ±5% 50V M.C.	2E



Parts No.	Stock No.	Description	Position
C39	0657223	0.022μF ±5% 50V C.C.	1D
C40	0657223	0.022μF ±5% 50V C.C.	1D
C41	0657223	0.022μF ±5% 50V C.C.	1D
C42	0669226	47pF ±5% 50V C.C.	2D
C43	0657223	0.022μF ±5% 50V C.C.	1D
C44	0657473	0.047μF ±5% 50V C.C.	1D
C46	0657223	0.022μF ±5% 50V C.C.	2D
C47	0657223	0.022μF ±5% 50V C.C.	2D
C48	0657223	0.022μF ±5% 50V C.C.	2D
C49	0573108	0.1μF ±20% 25V T.C.	2D
C50	0660101	100pF ±10% 50V C.C.	1D
C51	0660101	100pF ±10% 50V C.C.	1D
C52	0519001	10μF ±10% 25V E.C.	1D
C53	0660101	100pF ±10% 50V C.C.	1D
C54	0513479	4.7μF ±20% 25V E.C.	2D
C55	0657223	0.022μF ±5% 50V C.C.	2D
C56	0519104	1.5μF ±20% 50V E.C.	2D
C57	0515339	3.3μF ±20% 50V E.C.	2D
C58	0512221	220μF ±20% 16V E.C.	2E
C59	0657223	0.022μF ±5% 50V C.C.	1E
C60	0515339	3.3μF ±20% 50V E.C.	1E
C61	0629001	6800pF ±5% 50V P.C.	1E
C62	0512100	10μF ±20% 16V E.C.	2E
C63	0600187	0.018μF ±5% 50V M.C.	1E
C64	0600187	0.018μF ±5% 50V M.C.	2E

Abbreviations

- C.R. : Carbon Resistor
- S.R. : Solid Resistor
- Ce.R. : Cement Resistor
- M.R. : Metalized Film Resistor
- M.C. : Mylar Capacitor
- E.C. : Electrolytic Capacitor
- BP.E.C. : Bi-Polar Electrolytic Capacitor
- C.C. : Ceramic Capacitor
- Mi.C. : Mica Capacitor
- O.C. : Oil Capacitor
- P.C. : Polystyrene Capacitor
- T.C. : Tantalum Capacitor

Parts No.	Stock No.	Description	Position
C65	0519105	2.2μF	1 E
C66	0519105	2.2μF	1 E
C67	0519105	2.2μF	1 E
C68	0519105	2.2μF	1, 2 E
C69	0657223	0.022μF	1 B
C70	0657473	0.47μF	2 B
C71	0519002	3.3μF ±20%	25V E.C. 2 B
C72	0600107	0.01μF ±5%	50V M.C. 2 B
C73	0657473	0.047μF	50V C.C. 2 B
C74	0669215	15pF	2 B
C75	0600107	0.01μF ±5%	50V M.C. 2 B
C76	0620361	360pF ±5%	50V P.C. 2 B
C77	0669223	27pF ±5%	50V C.C. 2 B, C
C78	0657473	0.047μF	50V C.C. 2 B
C79	0657473	0.047μF	50V C.C. 2 B
C80	0512470	47μF	16V E.C. 2 B
C81	0657473	0.047μF	2 C
C82	0657473	0.047μF	50V C.C. 2 C
C83	0657473	0.047μF	2 C
C84	0657473	0.047μF	2 C
C85	0512100	10μF	16V E.C. 2 C
C86	0657473	0.047μF	50V C.C. 2 C
C87	0601108	0.1μF ±10%	50V M.C. 2 C
C88	0512470	47μF	16V E.C. 2 C
C89	0657473	0.047μF	2 C
C90	0657473	0.047μF	50V C.C. 2 C
C91	0657473	0.047μF	2 C
C92	0669226	47pF ±5%	50V C.C. 1, 2 C
C93	0600476	0.0047μF	±5% 50V M.C. 2 C
C95	0600476	0.0047μF	±5% 50V M.C. 2 C
C96	0600107	0.01μF ±5%	50V M.C. 2 C
C97	0601477	0.047μF ±10%	50V M.C. 2 C
C98	0510101	100μF	6.3V E.C. 2 D
C99	0657473	0.047μF	50V C.C. 2 C
C100	0502100	10μF	16V E.C. 2A, B
C103	0620221	220pF ±5%	50V P.C. 2D, E
C104	0669215	15pF ±5%	50V C.C.
R01	0107104	100kΩ	±5% ¼W C.R. 1A
R02	0107181	180Ω	1A
R03	0106104	100kΩ	1A
R04	0106224	220kΩ	±5% ¼W 1A
R05	0106220	22Ω	C.R. (E.L.R.) 1A
R06	0106562	5.6kΩ	1A
R07	0107123	12kΩ ±5%	¼W C.R. 1A
R08	0106272	2.7kΩ ±5%	¼W C.R. (E.L.R.) 1A
R09	0107220	22Ω ±5%	¼W C.R. 1A
R10	0106221	220Ω	±5% ¼W C.R. 1A
R11	0106121	120Ω	(E.L.R.) 1A
R12	0107682	6.8kΩ ±5%	¼W C.R. 1A
R13	0106473	47kΩ ±5%	¼W C.R. (E.L.R.) 1A
R14	0107222	2.2kΩ ±5%	¼W C.R. 1A, B
R15	0106152	1.5kΩ	1B
R16	0106270	27Ω	1B
R17	0106222	2.2kΩ	±5% ¼W C.R. 1B
R18	0106122	1.2kΩ	(E.L.R.) 1B
R19	0106123	12kΩ	1B
R20	0106272	2.7kΩ	1B
R21	0107222	2.2kΩ ±5%	¼W C.R. 1B
R22	0106151	150Ω ±5%	¼W C.R. (E.L.R.) 1B

Parts No.	Stock No.	Description	Position
R23	0107182	1.8kΩ ±5%	¼W C.R. 1B
R24	0106182	1.8kΩ	1B
R25	0106151	150Ω	±5% ¼W C.R. 1B
R26	0106101	100Ω	(E.L.R.) 1B
R27	0106153	15kΩ	1B
R28	0106331	330Ω	1B
R29	0107479	4.7Ω ±5%	¼W C.R. 1B
R30	0113101	100Ω ±5%	¼W S.R. 1B
R31	0106151	150Ω ±5%	¼W C.R. (E.L.R.) 1C
R32	0107182	1.8kΩ ±5%	¼W C.R. 1B
R33	0106472	4.7kΩ	1B
R34	0106151	150Ω	±5% ¼W C.R. 1C
R35	0106224	220kΩ	(E.L.R.) 1B, C
R36	0106153	15kΩ	1B, C
R37	0106471	470Ω	1C
R38	0107479	4.7Ω ±5%	¼W C.R. 1C
R39	0113101	100Ω ±5%	¼W S.R. 1C
R40	0106151	150Ω ±5%	¼W C.R. (E.L.R.) 1C
R41	0107182	1.8kΩ ±5%	¼W C.R. 1C
R42	0106472	4.7kΩ ±5%	¼W C.R. (E.L.R.) 1C
R43	0107222	2.2kΩ ±5%	¼W C.R. 1C
R44	0106151	150Ω	1C
R45	0106224	220kΩ	±5% ¼W 1C
R46	0106153	15kΩ	C.R. (E.L.R.) 1C
R47	0106471	470Ω	1C
R48	0113100	10Ω ±5%	¼W S.R. 1C
R49	0107479	4.7Ω ±5%	¼W C.R. 1C
R50	0106331	330Ω	1C
R51	0106473	47kΩ	±5% ¼W C.R. (E.L.R.) 1C
R52	0106153	15kΩ	1C
R53	0107100	10Ω ±5%	¼W C.R. 1C
R54	0106222	2.2kΩ ±5%	¼W C.R. 1C
R55	0106821	820Ω	(E.L.R.) 2C
R56	0107562	5.6kΩ	1D
R57	0107101	100Ω	1, 2D
R58	0107100	10Ω	1D
R59	0107103	10kΩ	±5% ¼W C.R. 1, 2D
R60	0107682	6.8kΩ	1D
R61	0107479	4.7Ω	1D
R62	0106392	3.9kΩ ±5%	¼W C.R. (E.L.R.) 2D
R63	0107683	68kΩ ±5%	¼W C.R. 2D
R64	0106102	1kΩ ±5%	¼W C.R. 1D, E
R65	0106102	1kΩ	(E.L.R.) 1D, E
R66	0107100	10Ω	1D
R67	0107102	1kΩ ±5%	¼W C.R. 1, 2D
R68	0107153	15kΩ	2D
R69	0106152	1.5kΩ	2D
R70	0106105	1MΩ ±5%	¼W C.R. 2D
R71	0106153	15kΩ	(E.L.R.) 2D
R72	0106560	56Ω	2D
R73	0107473	47kΩ	2D
R74	0107472	4.7kΩ	2D, E
R75	0107479	4.7Ω	2D, E
R76	0107104	100kΩ	±5% ¼W C.R. 1, 2E
R77	0107100	10Ω	2D, E
R78	0107104	100kΩ	2D, E
R79	0107221	220Ω	1E
R80	0107479	4.7Ω	1E
R81	0106472	4.7kΩ ±5%	¼W C.R. (E.L.R.) 2E

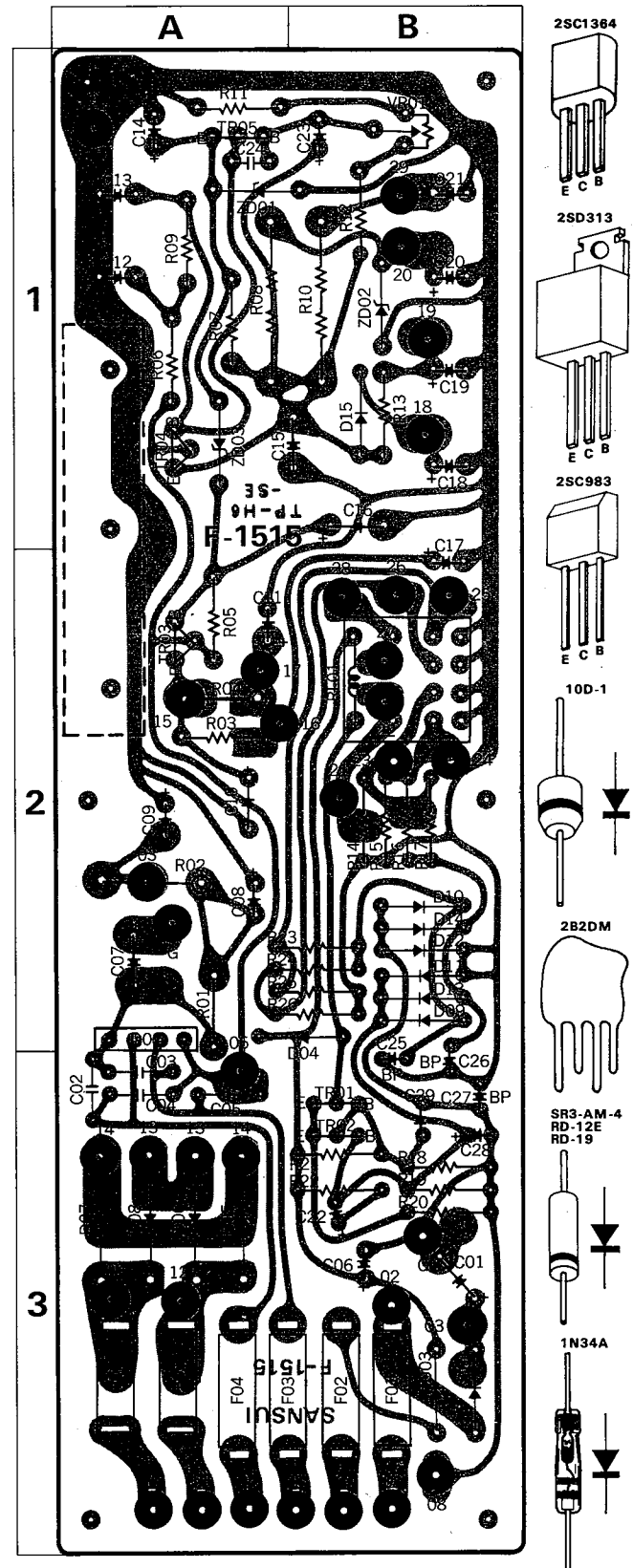
to be continued

F-1479A Parts List

Parts No.	Stock No.	Description	Position
R82	0107151	150Ω ± 5% ¼W C.R.	1, 2 E
R83	0106561	560Ω ± 5% ¼W C.R. (E.L.R.)	2 E
R84	0107822	8.2kΩ ± 5% ¼W C.R.	1, 2 E
R85	0106332	3.3kΩ	1 E
R86	0106332	3.3kΩ	2 E
R87	0106184	180kΩ	1 E
R88	0106332	3.3kΩ	1 E
R89	0106273	27kΩ	1 E
R90	0106184	180kΩ	1 E
R91	0106332	3.3kΩ	2 E
R92	0106273	27kΩ	2 E
R93	0106332	3.3kΩ ± 5% ¼W C.R. (E.L.R.)	1 E
R94	0106391	390Ω	1 E
R95	0106332	3.3kΩ	1, 2 E
R96	0106391	390Ω	2 E
R97	0106332	3.3kΩ	2 E
R98	0106562	5.6kΩ	2 E
R99	0106332	3.3kΩ	2 E
R100	0106562	5.6kΩ	2 E
R102	0107103	10kΩ	2 B
R103	0107220	22Ω	2 B
R104	0107102	1kΩ ± 5% ¼W C.R.	2 B
R105	0107224	220kΩ	1, 2 B
R106	0106561	560Ω ± 5% ¼W C.R. (E.L.R.)	1, 2 B
R107	0107561	560Ω	2 B
R108	0107392	3.9kΩ ± 5% ¼W C.R.	2 B
R109	0107123	12kΩ	2 B
R110	0106332	3.3kΩ ± 5% ¼W C.R. (E.L.R.)	1 B, C
R111	0107272	2.7kΩ ± 5% ¼W C.R.	2 B
R112	0107100	10Ω ± 5% ¼W C.R.	2 B
R113	0106102	1kΩ ± 5% ¼W C.R. (E.L.R.)	2 B
R114	0107223	22kΩ ± 5% ¼W C.R.	2 B
R115	0106332	3.3kΩ	2 B
R116	0106102	1kΩ	2 C
R117	0106124	120kΩ	2 C
R118	0106681	680Ω ± 5% ¼W C.R. (E.L.R.)	1, 2 C
R119	0106562	5.6kΩ	2 C
R120	0106822	8.2kΩ	2 C
R121	0106470	47Ω	2 C
R122	0107470	47Ω	2 C
R123	0107101	100Ω ± 5% ¼W C.R.	2 C
R124	0106102	1kΩ	2 C
R125	0106471	470Ω ± 5% ¼W C.R. (E.L.R.)	1, 2 C
R126	0106223	22kΩ	2 C
R127	0106103	10kΩ	2 C
R128	0107101	100Ω	2 C
R129	0107272	2.7kΩ ± 5% ¼W C.R.	2 C
R130	0107153	15kΩ	2 C
R131	0106102	1kΩ ± 5% ¼W C.R.	2 C
R132	0106472	4.7kΩ ± 5% ¼W C.R. (E.L.R.)	2 C
R134	0107473	47kΩ ± 5% ¼W C.R.	2 C
R135	0107100	10Ω ± 5% ¼W C.R.	2 C
R136	0106101	100Ω ± 5% ¼W C.R. (E.L.R.)	1 B, 2 C
VR01	1035190	100kΩ(B)	1, 2 D
VR02	1035170	47kΩ(B)	2 D
VR03	1035190	100kΩ(B) Semi-Variable Resistor	2 D
VR04	1035130	10kΩ(B) (Solid Type)	1 D
VR05	1035070	1kΩ(B)	2 E
VR06	1035170	47kΩ(B)	2 D

6-4. F-1515 Protector & Power Circuit Board

(Stock No. 7598140 Complete Circuit Board F-1515)



Parts No.	Stock No.	Description	Position
TR01	0306132, 3	2SC1364 (7, 8)	Transistor 3 B
TR02	0306132, 3	2SC1364 (7, 8)	
TR03	0308392, 3	2SD313 (E, F)	
TR04	0308392, 3	2SD313 (E, F)	
TR05	0306020, 1	2SC983 (O, R)	
D01	0310340	10D-1	Diode 3 B
D02	0311070	2B2DM	
D03	0310340	10D-1	
D04	0310340	10D-1	
D05	0311240	SR3-AM-4	
D06	0311240	SR3-AM-4	
D07	0311240	SR3-AM-4	
D08	0311240	SR3-AM-4	
D09	0310400	1N-34A	
D10	0310400	1N-34A	
D11	0310400	1N-34A	
D12	0310400	1N-34A	
D13	0310400	1N-34A	
D14	0310400	1N-34A	
D15	0310340	10D-1	
ZD01	0316300	RD-12E (C)	Zener Diode 1 A
ZD02	0316300	RD-12E (C)	
ZD03	0315410	RD-19 (A, L)	
	or 0315650	or EQB01-18	
C01	0511102	1000 μ F 10V E.C.	3 B
C06	0515330	33 μ F 50V E.C.	3 B
C07	0519903	100 μ F } 80V E.C.	2 A
C08	0519903	100 μ F }	2 A
C09	0515330	33 μ F 50V E.C.	2 A
C10	0514331	330 μ F 35V E.C.	2 A
C11	0515101	100 μ F } 50V E.C.	2 A
C12	0515330	33 μ F }	1 A
C13	0514331	330 μ F 35V E.C.	1 A
C14	0512101	100 μ F 16V E.C.	1 A
C15	0515101	100 μ F 50V E.C.	1 A
C16	0514331	330 μ F 35V E.C.	1 B
C17	0515101	100 μ F }	2 B
C18	0515101	100 μ F } 50V E.C.	1 B
C19	0515101	100 μ F }	1 B
C20	0512101	100 μ F } 16V E.C.	1 B
C21	0512101	100 μ F }	1 B
C22	0519103	0.47 μ F } 50V E.C.	3 B
C23	0515100	10 μ F }	1 B
C25	0530470	47 μ F } 6.3V BP.E.C.	3 B
C26	0530470	47 μ F }	2, 3 B
C27	0535109	1 μ F 50V BP.E.C.	3 B
C28	0515109	1 μ F 50V E.C.	3 B
C29	0510471	470 μ F 6.3V E.C.	3 B
C30	0660221	220 pF 50V C.C.	
C31	0659011	0.01 μ F 500V C.C.	
R03	0107470	47 Ω $\frac{1}{4}$ W C.R.	2 A
R04	0103820	82 Ω 1 W C.R.	2 A
R05	0107392	3.9k Ω	2 A
R06	0107152	1.5k Ω } $\frac{1}{4}$ W C.R.	1 A
R07	0107562	5.6k Ω }	1 A
R08	0162561	560 Ω 2 W Ce.R.	1 A
R09	0107152	1.5k Ω $\frac{1}{4}$ W C.R.	1 A
R10	0162181	180 Ω 2 W Ce.R.	1 B

Parts No.	Stock No.	Description	Position
R11	0107682	6.8k Ω } $\frac{1}{4}$ W C.R.	1 A
R12	0107682	6.8k Ω }	1 B
R13	0103220	22 Ω $\frac{1}{2}$ W C.R.	1 B
R14	0107332	3.3k Ω }	2 B
R15	0107332	3.3k Ω }	2 B
R16	0107473	47k Ω } $\frac{1}{4}$ W C.R.	2 B
R17	0107473	47k Ω }	2 B
R18	0103271	270 Ω } $\frac{1}{2}$ W C.R.	3 B
R19	0103271	270 Ω }	3 B
R20	0107479	4.7 Ω }	3 B
R21	0107823	82k Ω }	3 A, B
R22	0107394	390k Ω }	2 A, B
R23	0107473	47k Ω } $\frac{1}{4}$ W C.R.	2 A, B
R24	0107473	47k Ω }	2 A, B
R25	0107332	3.3k Ω }	2 A, B
R26	0107332	3.3k Ω }	2 A, B
R27	0107474	470k Ω }	
VR01	1035090	2.2k Ω (B) Semi-Variable Resistor (Solid Type)	1 B
RL01	1150101	MY4-O-US-SA Relay	2 B
F01	0432900, 1	5 A } Fuse	3 B
F02	0432830, 1	1 A }	3 B
F03	0432850, 1	2 A }	3 A
F04	0432850, 1	2 A }	3 A

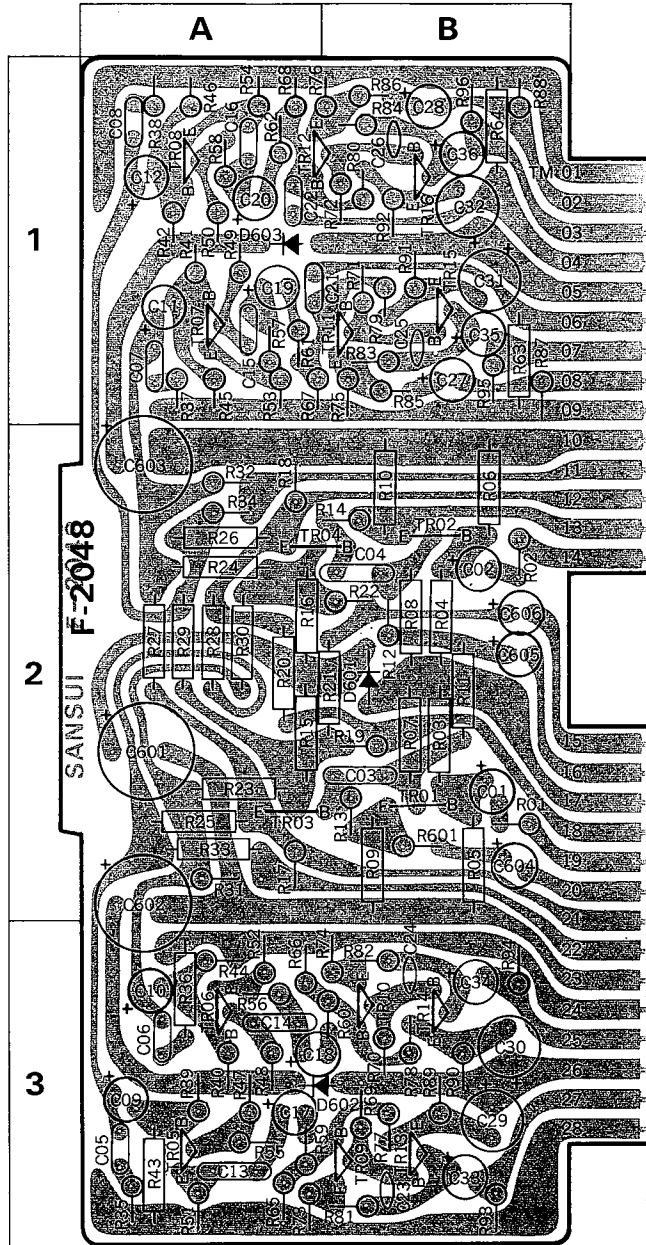
Abbreviations

C.R. : Carbon Resistor	BP.E.C.: Bi-Polar Electrolytic Capacitor
S.R. : Solid Resistor	C.C. : Ceramic Capacitor
Ce.R. : Cement Resistor	Mi.C. : Mica Capacitor
M.R. : Metallized Film Resistor	O.C. : Oil Capacitor
M.C. : Mylar Capacitor	P.C. : Polystyrene Capacitor
E.C. : Electrolytic Capacitor	T.C. : Tantalum Capacitor

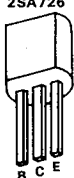
6-5. F-2048 Vario-Matrix Circuit Board

(Stock No. 7650120 Complete Circuit Board F-2048)

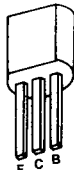
Conductor Side



2SC1312
2SA726



2SC1222



SR-1-FM2



10D-1



Parts List

Parts No.	Stock No.	Description	Position
TR01,02	0306011, 2	2SC1222 (E, F)	2 B
	or	or	
TR03,04	0306091, 2	2SC1312® (G, H)	2 A, B
	or	or	
TR05	0306011, 2	2SC1222 (E, F)	3 A
	0300470	2SA726® (F)	
TR06,07	0300410, 1	2SA726® (F, G)	3 A, 1 A
	0306011, 2	2SC1222 (E, F)	
TR08	0306091, 2	2SC1312® (G, H)	Transistor 1 A
	0300470	2SA726® (F)	
TR09,10	0300410, 1	2SA726® (F, G)	3 B
	0306011, 2	2SC1222 (E, F)	
TR11,12	0306091, 2	2SC1312® (G, H)	1 B
	0300470	2SA726® (F)	
TR13,14	0300410, 1	2SA726® (F, G)	3 B
	0300470	2SA726® (F)	
TR15,16	0300410, 1	2SA726® (F, G)	1 B
	or	or	
D601	0310870	SR-1-FM2	2 B
	or	or	
D602	0310340	10D-1	Diode 3 A, B
	0300470	SR-1-FM2	
D603	0300340	10D-1	1 A
	0310870	SR-1-FM2	
C01	0519102	3.3µF	50V E.C. 2 B
	C02	0519102	
C03	0600107	0.01µF	2 B
C04	0600107	0.01µF	2 B
C05	0600157	0.015µF	50V M.C. 3 A
C06	0600157	0.015µF	3 A
C07	0600107	0.01µF	1 A
C08	0600107	0.01µF	1 A
C09	0519105	2.2µF	50V E.C. 3 A
C10	0519105	2.2µF	3 A
C11	0573108	0.1µF	25V T.C. 1 A
C12	0573108	0.1µF	1 A
C13	0600607	0.06µF	3 A
C14	0600607	0.06µF	50V M.C. 3 A
C15	0600126	0.0012µF	1 A
C16	0600686	0.0068µF	1 A
C17	0573228	0.22µF	3 A
C18	0573228	0.22µF	25V T.C. 3 A, B
C19	0573228	0.22µF	1 A
C20	0573228	0.22µF	1 A
C21	0600106	0.001µF	± 5% 50V M.C. 1 A
C22	0600156	0.0015µF	1 A
C23	0660470	47 pF	3 B
C24	0660470	47 pF	50V C.C. 3 B
C25	0660470	47 pF	1 B
C26	0660470	47 pF	1 B
C27	0513100	10µF	25V E.C. 1 B

Parts No.	Stock No.	Description	Position
C28	0513100	10 μ F 25V E.C.	1 B
C29	0510101	100 μ F	3 B
C30	0510101	100 μ F	3 B
C31	0510101	100 μ F	1 B
C32	0510101	100 μ F	1 B
C33	0573478	0.47 μ F	3 B
C34	0573478	0.47 μ F	3 B
C35	0573478	0.47 μ F	1 B
C36	0573478	0.47 μ F	1 B
C37	0660151	150 pF	
C38	0660151	150 pF	
C39	0660151	150 pF	
C40	0660151	150 pF	
C601	0513221	220 μ F	2 A
C602	0513221	220 μ F	2, 3 A
C603	0513221	220 μ F	1, 2 A
C604	0513100	10 μ F	2 B
C605	0573108	0.1 μ F	2 B
C606	0573108	0.1 μ F	2 B
R01	0106222	2.2k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 B
R02	0106222	2.2k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 B
R03	0107224	220k Ω	2 B
R04	0107224	220k Ω	2 B
R05	0107104	100k Ω	2 B
R06	0107104	100k Ω	2 B
R07	0107222	2.2k Ω \pm 5% $\frac{1}{4}$ W C.R.	2 B
R08	0107222	2.2k Ω	2 B
R09	0107222	2.2k Ω	2 B
R10	0107222	2.2k Ω	2 B
R11	0107224	220k Ω	2 B
R12	0106224	220k Ω	2 B
R13	0106223	22k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 B
R14	0106223	22k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 B
R15	0107152	1.5k Ω \pm 5% $\frac{1}{4}$ W C.R.	2 A
R16	0107152	1.5k Ω \pm 5% $\frac{1}{4}$ W C.R.	2 A
R17	0106152	1.5k Ω	2 A
R18	0106152	1.5k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 A
R19	0106224	220k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 B
R20	0107224	220k Ω \pm 5% $\frac{1}{4}$ W C.R.	2 A
R21	0107224	220k Ω \pm 5% $\frac{1}{4}$ W C.R.	2 B
R22	0106224	220k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 B
R23	0107104	100k Ω	2 A
R24	0107104	100k Ω	2 A
R25	0107104	100k Ω	2 A
R26	0107104	100k Ω \pm 5% $\frac{1}{4}$ W C.R.	2 A
R27	0107104	100k Ω	2 A
R28	0107104	100k Ω	2 A
R29	0107104	100k Ω	2 A
R30	0107104	100k Ω	2 A
R31	0106563	56k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 A
R32	0106563	56k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 A
R33	0107563	56k Ω \pm 5% $\frac{1}{4}$ W C.R.	2 A
R34	0106563	56k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	2 A
R35	0106563	56k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	3 A
R36	0107563	56k Ω \pm 5% $\frac{1}{4}$ W C.R.	3 A
R37	0106563	56k Ω	1 A
R38	0106563	56k Ω	1 A
R39	0106104	100k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	3 A
R40	0106224	220k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	3 A
R41	0106224	220k Ω	1 A
R42	0106104	100k Ω	1 A

Parts No.	Stock No.	Description	Position
R43	0107224	220k Ω \pm 5% $\frac{1}{4}$ W C.R.	3 A
R44	0106104	100k Ω	3 A
R45	0106104	100k Ω	1 A
R46	0106224	220k Ω	1 A
R47	0106682	6.8k Ω	3 A
R48	0106682	6.8k Ω	3 A
R49	0106682	6.8k Ω	1 A
R50	0106682	6.8k Ω	1 A
R51	0106682	6.8k Ω	3 A
R52	0106682	6.8k Ω	3 A
R53	0106682	6.8k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	1 A
R54	0106682	6.8k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	1 A
R55	0106223	22k Ω	3 A
R56	0106223	22k Ω	3 A
R57	0106153	15k Ω	1 A
R58	0106153	15k Ω	1 A
R59	0106223	22k Ω	3 A
R60	0106223	22k Ω	3 B
R61	0106223	22k Ω	1 A
R62	0106223	22k Ω	1 A
R63	0107104	100k Ω \pm 5% $\frac{1}{4}$ W C.R.	1 B
R64	0107104	100k Ω \pm 5% $\frac{1}{4}$ W C.R.	1 B
R65	0106154	150k Ω	3 A
R66	0106154	150k Ω	3 A
R67	0106154	150k Ω	1 A, B
R68	0106154	150k Ω	1 A
R69	0106124	120k Ω	3 B
R70	0106124	120k Ω	3 B
R71	0106124	120k Ω	1 B
R72	0106124	120k Ω	1 B
R73	0106392	3.9k Ω	3 A
R74	0106392	3.9k Ω	3 B
R75	0106392	3.9k Ω	1 B
R76	0106392	3.9k Ω	1 A, B
R77	0106824	820k Ω	3 B
R78	0106824	820k Ω	3 B
R79	0106824	820k Ω	1 B
R80	0106824	820k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	1 B
R81	0106123	12k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	3 B
R82	0106123	12k Ω \pm 5% $\frac{1}{4}$ W C.R. (E.L.R.)	3 B
R83	0106123	12k Ω	1 B
R84	0106123	12k Ω	1 B
R85	0106123	12k Ω	1 B
R86	0106123	12k Ω	1 B
R87	0106104	100k Ω	1 B
R88	0106104	100k Ω	1 B
R89	0106122	1.2k Ω	3 B
R90	0106122	1.2k Ω	3 B
R91	0106122	1.2k Ω	1 B
R92	0106122	1.2k Ω	1 B
R93	0106104	100k Ω	3 B
R94	0106104	100k Ω	3 B
R95	0106104	100k Ω	1 B
R96	0106104	100k Ω	1 B
R601	0106822	8.2k Ω	

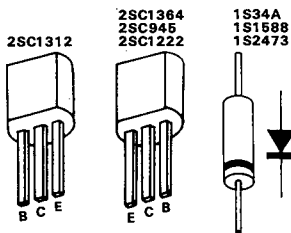
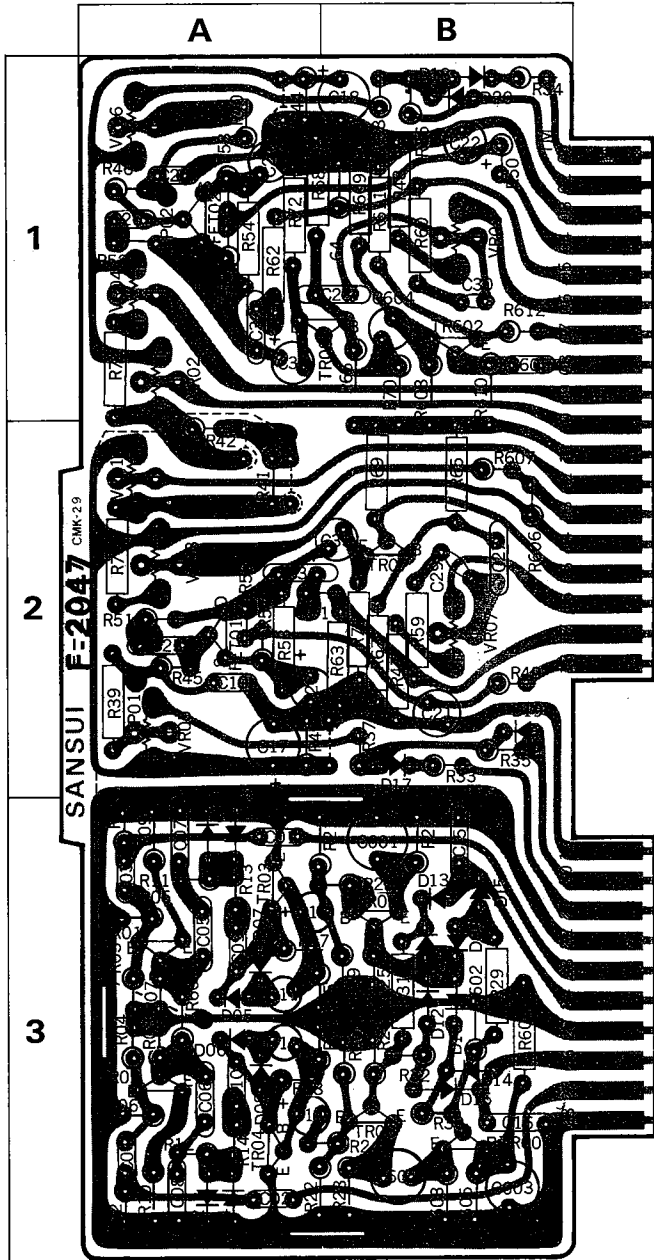
Abbreviations

C.R. : Carbon Resistor	BP.E.C. : Bi-Polar Electrolytic Capacitor
S.R. : Solid Resistor	C.C. : Ceramic Capacitor
Ce.R. : Cement Resistor	Mi.C. : Mica Capacitor
M.R. : Metallized Film Resistor	O.C. : Oil Capacitor
M.C. : Mylar Capacitor	P.C. : Polystyrene Capacitor
E.C. : Electrolytic Capacitor	T.C. : Tantalum Capacitor

6-6. F-2047 Vario-Matrix Circuit Board

(Stock No. 7850110 Complete Circuit Board F-2047)

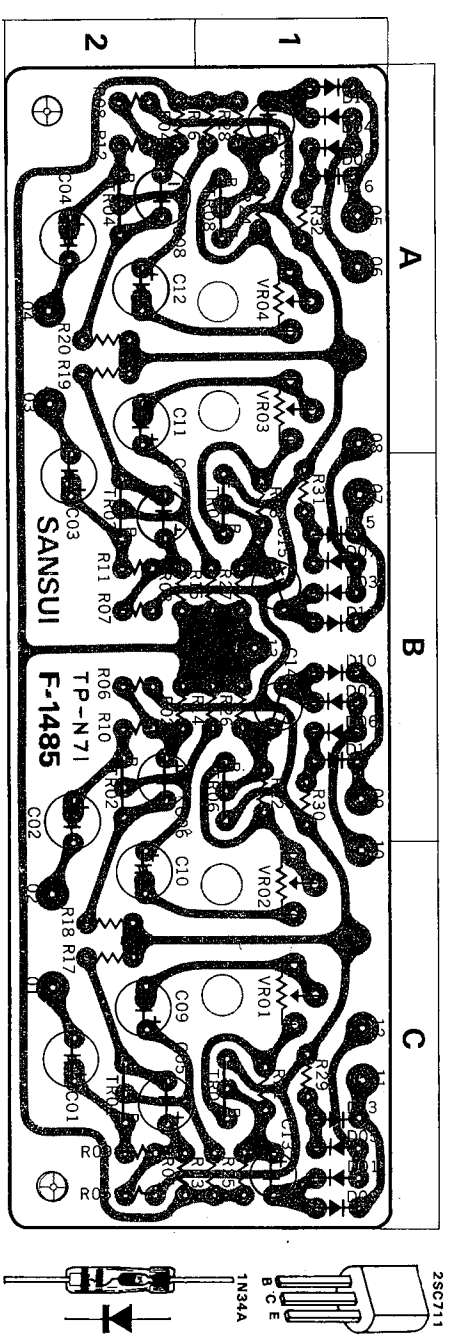
Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0306132, 3	2SC1364 (7, 8)	3 A
	or	or	
TR03, 04	0305953, 2	2SC945 (K, P)	3 A
	0306132, 3	2SC1364 (7, 8)	
TR05, 06	0305953, 2	2SC945 (K, P)	3 B
	0306132, 3	2SC1364 (7, 8)	
TR07, 08	036011, 2	2SC1222 (E)	1 B, 2 B
	035091, 2	2SC1312®(G, H)	
TR601	0306132, 3	2SC1364 (7, 8)	3 B
	or	or	
TR602	0305953, 2	2SC945 (K, P)	1 B
	036011, 2	2SC1222 (E)	
	036091, 2	2SC1312®(G, H)	
FET01, 02	0370140, 1	2K34 (E, D) FET	1 A, 2 A
D01-04	0311190	1S34	3 A
D06-08	0311180	1S1588	3 A
	or	or	
D09-16	0311160	1S2473D	3 B
	0311180	1S1588	
D17, 18	0311160	1S2473D	1 B, 2 B
	or	or	
C01	0600106	0.001 μF	3 A
C02	0600106	0.001 μF	3 A
C03	0600206	0.002 μF	3 A
C04	0600206	0.002 μF	3 A
C05	0600477	0.047 μF	3 A
C06	0600477	0.047 μF	3 A
C07	0600206	0.002 μF	3 A
C08	0600206	0.002 μF	3 A
C09	0600477	0.047 μF	3 A
C10	0600477	0.047 μF	2 A
C11	0573228	0.22 μF	3 A
C12	0573228	0.22 μF	25V T.C. 3 A
C13	0513479	4.7 μF	3 A, B
C14	0513479	4.7 μF	25V E.C. 3 A, B
C15	0600477	0.047 μF	3 B
C16	0600477	0.047 μF	3 B
C17	0513100	10 μF	2 A
C18	0513100	10 μF	25V E.C. 1 B
C19	0600397	0.039 μF	2 A
C20	0600187	0.018 μF	± 5 % 25V M.C. 1 A
C21	0513100	10 μF	2 B
C22	0513100	10 μF	1 B
C23	0513479	4.7 μF	25V E.C. 2 A, B
C24	0513479	4.7 μF	1 A
C25	0600226	0.0022 μF	2 A
C26	0600226	0.0022 μF	± 5 % 50V M.C. 1 A
C27	0600477	0.047 μF	2 B
C28	0600227	0.022 μF	1 A, B
C29	0620681	680 pF	± 5 % 50V P.C. 2 B
C30	0620681	680 pF	1 B
C31	0600397	0.039 μF	± 5 % 50V M.C. 2 A, B
C32	0600397	0.039 μF	1 A

6-7. F-1485 Meter Circuit Board (Stock No. 7591840 Complete Circuit Board F-1485)
Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR01	0305732	2SC711 (F)	2C
TR02	0305732	2SC711 (F)	2B
TR03	0305732	2SC711 (F)	2B
TR04	0305732	2SC711 (F)	2A
TR05	0305732	2SC711 (F)	1C
TR06	0305732	2SC711 (F)	1B
TR07	0305732	2SC711 (F)	1B
TR08	0305732	2SC711 (F)	1A

Parts No.	Stock No.	Description	Position
C33	0513479	4.7µF	2A, B
C34	0513479	4.7µF	1A
C601	0510101	100µF	3B
C602	0510101	100µF	3B
C603	0513479	4.7µF	3B
C604	0519102	3.3µF	1B
C605	0600476	0.0047µF	50V M.C.
R01	0106683	68kΩ	3A
R02	0106683	68kΩ	3A
R03	0106105	1MΩ	3A
R04	0106105	1MΩ	3A
R05	0106224	220kΩ	3A
R06	0106224	220kΩ	3A
R07	0106223	22kΩ	3A
R08	0106223	22kΩ	3A
R09	0106103	10kΩ	3A
R10	0106103	10kΩ	3A
R11	0106472	4.7kΩ	3A
R12	0106472	4.7kΩ	3A
R13	0106472	4.7kΩ	3A
R14	0106472	4.7kΩ	3A
R15	0106333	33kΩ	3A
R16	0106333	33kΩ	3A
R17	0110685	6.8MΩ	3A
R18	0110685	6.8MΩ	3A
R19	0106104	100kΩ	3A
R20	0106224	220kΩ	3B
R21	0106153	15kΩ	3A, B
R22	0106333	33kΩ	3A, B
R23	0106123	12kΩ	3A, B
R24	0106123	12kΩ	3A, B
R25	0106472	4.7kΩ	3B
R26	0106472	4.7kΩ	3B
R27	0106102	1kΩ	3B
R28	0106102	1kΩ	3B
R29	0107104	100kΩ	3B
R30	0106104	100kΩ	3B
R31	0107104	100kΩ	3B
R32	0106104	100kΩ	3B
R33	0106564	560kΩ	2B
R34	0106564	560kΩ	1B
R35	0106224	220kΩ	2B
R36	0106224	220kΩ	1B
R37	0106474	470kΩ	2B
R38	0106474	470kΩ	1B
R39	0107334	330kΩ	2A
R40	0106334	330kΩ	1A
R41	0106682	6.8kΩ	2A
R42	0106682	6.8kΩ	2A
R43	0106183	18kΩ	2A
R44	0106183	18kΩ	2A
R45	0106105	1MΩ	2A
R46	0106105	1MΩ	1A
R47	0107153	15kΩ	2B
R48	0107153	15kΩ	1B
R49	0106103	10kΩ	2B
R50	0106103	10kΩ	1B
R51	0106105	1MΩ	2A
R52	0106105	1MΩ	1A
R53	0107333	33kΩ	2A
R54	0107333	33kΩ	1A

Parts No.	Stock No.	Description	Position
R55	0106153	15kΩ	2A
R56	0106153	15kΩ	1A
R57	0106123	12kΩ	2A
R58	0106123	12kΩ	1A
R59	0107153	15kΩ	2B
R60	0107153	15kΩ	1B
R61	0106151	150Ω	2A, B
R62	0107151	150Ω	1A
R63	0107104	100kΩ	2B
R64	0106104	100kΩ	1B
R65	0107184	180kΩ	2B
R66	0106154	150kΩ	1B
R67	0107473	47kΩ	2B
R68	0107473	47kΩ	1A, B
R69	0107472	4.7kΩ	2B
R70	0106472	4.7kΩ	1B
R71	0107222	2.2kΩ	2B
R72	0107272	2.7kΩ	1A
R73	0107101	100Ω	2A
R74	0107101	100Ω	1A
R601	0106105	1MΩ	3A
R602	0106472	4.7kΩ	3B
R603	0106102	1kΩ	3B
R604	0107224	220kΩ	3B
R605	0106533	33kΩ	3B
R606	0106104	100kΩ	2B
R607	0106104	100kΩ	2B
R608	0106224	220kΩ	1B
R609	0107104	100kΩ	1B
R610	0106152	1.5kΩ	1B
R611	0107152	1.5kΩ	1B
R612	0106472	4.7kΩ	1B
VR01	1031120	20kΩ (B)	2A
VR02	1031120	20kΩ (B)	1A
VR03	1031120	20kΩ (B)	2A
VR04	1031120	20kΩ (B)	1A
VR05	1031180	1MΩ (B)	2A
VR06	1031180	1MΩ (B)	1A
VR07	1031140	100kΩ (B)	2B
VR08	1031140	100kΩ (B)	1B

Abbreviations

BP.E.C.: Bipolar Electrolytic Capacitor
C.C.: Carbon Resistor
C.E.R.: Cement Resistor
M.R.: Metallized Film Resistor
M.C.: Mylar Capacitor
E.C.: Electrolytic Capacitor

Test Pin

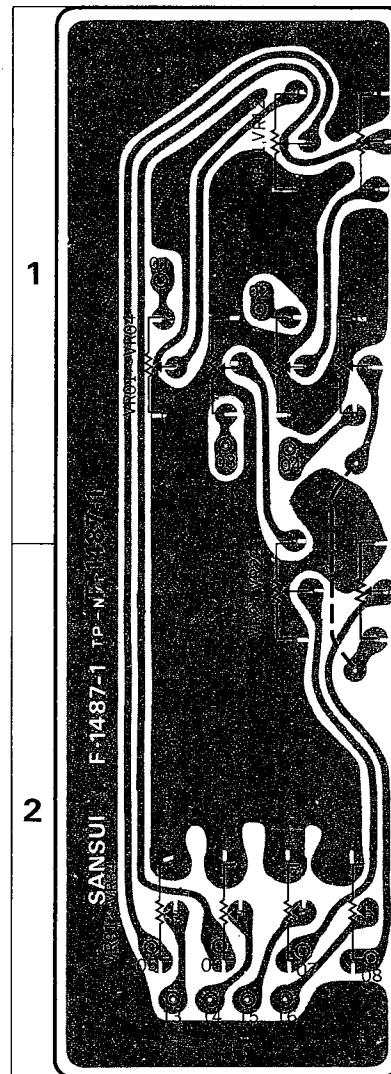
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Parts No.	Stock No.	Description	Position
R103, 104	0107689	6.8Ω ¼W C.R.	1 B . 1 A
R109, 110	0133478	0.47Ω	1 D . 1 C
R111, 112	0133478	0.47Ω	1 B . 1 A
R113, 114	0133478	0.47Ω	1 D . 1 C
R115, 116	0133478	0.47Ω	1 B . 1 A
R117, 118	0104479	4.7Ω	2 D . 2 C
R119, 120	0104479	4.7Ω	2 B . 2 A
R601	0107682	6.8kΩ	2 D
R602	0107682	6.8kΩ	2 A
VR01, 02	1035110	4.7kΩ (B)	2 D . 2 C
VR03, 04	1035110	4.7kΩ (B)	2 B . 2 A
VR05, 06	1035070	1.0kΩ (B)	1,2D,1,2C
VR07, 08	1035070	1.0kΩ (B)	1,2B,1,2A
F01, 02	0433680	3.5A	1,2D,1,2C
F03, 04	0433680	3.5A	1,2B,1,2A
F05, 06	0433680	3.5A	2 D . 2 C
F07, 08	0433680	3.5A	2 B . 2 A

6-10. F-1487 Volume Circuit Board

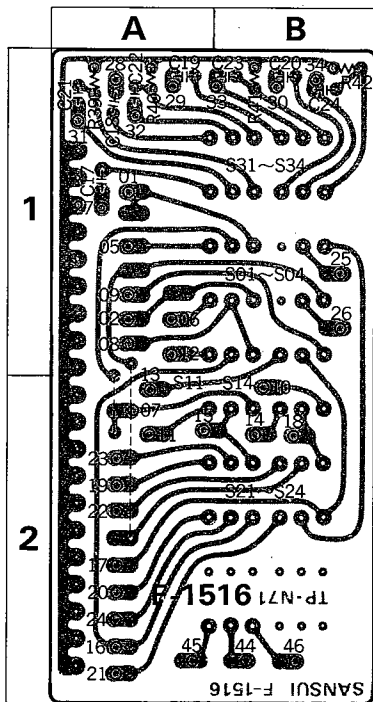
(Stock No. 7591850 Complete Circuit Board F-1487)

Conductor Side



6-9 F-1516 Accessory Circuit Board

(Stock No. 7592060 Complete Circuit Board F-1516)



Parts No.	Stock No.	Description	Position
C17, 18	0620151	150pF	1 A . 1 A
C19, 20	0620151	150pF	1 A . 1 B
C21, 22	0600227	0.022μF	1 A . 1 A
C23, 24	0600227	0.022μF	1 B . 1 B
R39, 40	0106333	33kΩ	1 A . 1 A
R41, 42	0106333	33kΩ	1 B . 1 B
S31~34	1130750	SPM055D Push Switch	1 B

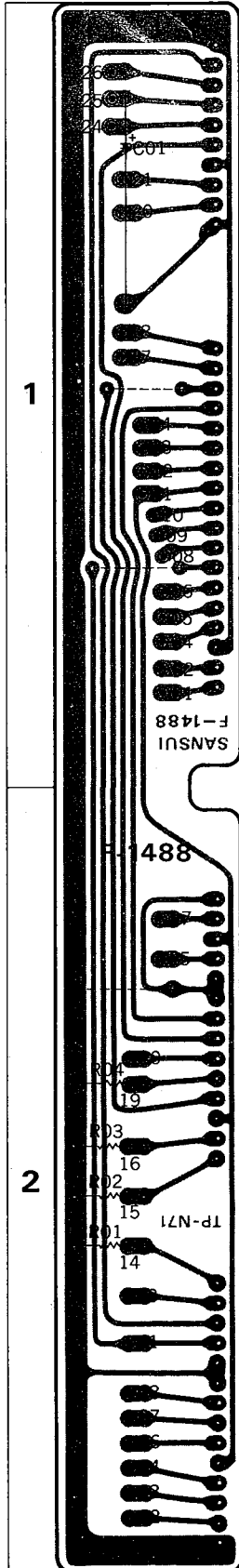
Parts List

Parts No.	Stock No.	Description	Position
VR01~04	1060250, 1	250kΩ (HB) × 4	1
VR11, 12	1010400, 1	250kΩ (HB)	1
VR21, 22	1010400, 1	250kΩ (HB)	1, 2
VR31~34	1060240, 1	250kΩ (B) × 4	2

Abbreviations

C.R. : Carbon Resistor	BP.E.C.: Bi-Polar Electrolytic Capacitor
S.R. : Solid Resistor	C.C. : Ceramic Capacitor
Ce.R. : Cement Resistor	Mi.C. : Mica Capacitor
M.R. : Metallized Film Resistor	O.C. : Oil Capacitor
M.C. : Mylar Capacitor	P.C. : Polystyrene Capacitor
E.C. : Electrolytic Capacitor	T.C. : Tantalum Capacitor

6-11. F-1488 Connector Joint Circuit Board
 (Stock No. 7591860 Complete Circuit Board F-1488)
Conductor Side



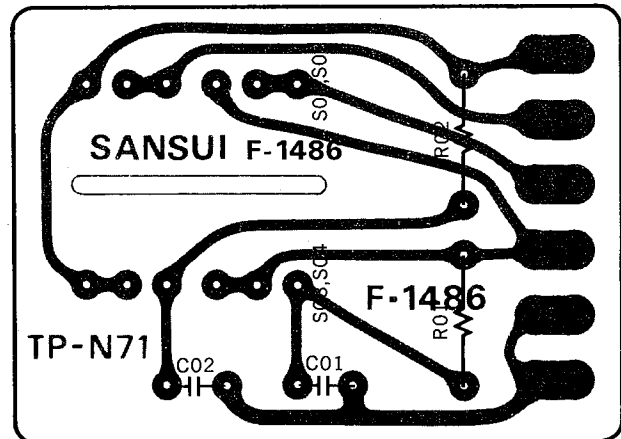
Parts List

Parts No.	Stock No.	Description	Position
C01	0504221	220 μ F 35V E.C.	1
R01	0107474	470k Ω	} $\pm 5\%$ $\frac{1}{4}$ W C.R.
R02	0107474	470k Ω	
R03	0107474	470k Ω	
R04	0107474	470k Ω	
	2420150	10P Connector	
	2420160	14P Connector	
	2420170	18P Connector	

6-12. F-1486 Filter Circuit Board

(Stock No. 7591830 Complete Circuit Board F-1486)

Conductor Side



Parts List

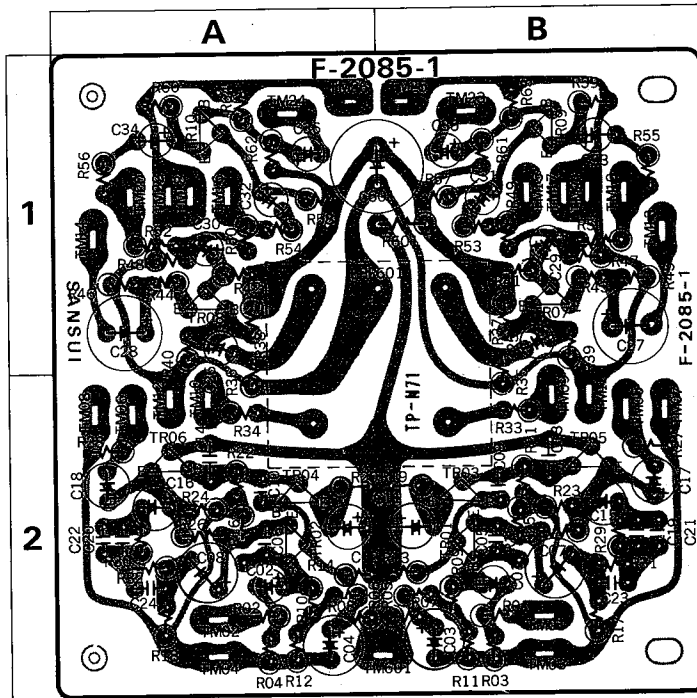
Parts No.	Stock No.	Description
C01	0600187	0.018 μ F } $\pm 5\%$ 50V M.C.
C02	0600187	
R01	0107824	820k Ω } $\pm 5\%$ $\frac{1}{4}$ W C.R.
R02	0107824	
S01-04	1130760	Push Switch

Abbreviations

C.R.	: Carbon Resistor	BP.E.C.:	Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic Capacitor
Ce.R.	: Cement Resistor	Mi.C.	: Mica Capacitor
M.R.	: Metallized Film Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C.	: Tantalum Capacitor

6-13. F-2085 Equalizer & CD-4 Main Circuit Board

(Stock No. 7650210 Complete Circuit Board F-2085)



2SC1312
2SA726



2SA640
2SC1222



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	
TR01,02	0306090, 1	2SC1312 (F, G)	2 B . 2 A	R01,02	0106332	3.3kΩ	2 B . 2 A	
TR03,04	0300410, 1	2SA726® (F, G)		2 B . 2 A	R03,04	0106823		82kΩ
	or	or		R05,06	0106184	180kΩ	2 B . 2 A	
	0300301,3,5	2SA640 (M, K, L)		R07,08	0106274	270kΩ	2 B . 2 A	
TR05,06	0306090, 1	2SC1312 (F, G)	2 B . 2 A	R09,10	0106473	47kΩ	2 B . 2 A	
	or	or			R11,12	0106104	100kΩ	2 B . 2 A
	0306011, 2	2SC1222 (E, F)		Transistor	R13,14	0106273	27kΩ	2 B . 2 A
TR07,08	0306090, 1	2SC1312 (F, G)	1 B . 1 A	R15,16	0106104	100kΩ	2 B . 2 A	
	or	or			R17,18	0106681	680Ω	2 B . 2 A
	0306011, 2	2SC1222 (E, F)		R19,20	0106152	1.5kΩ	2 B . 2 A	
TR09,10	0306090, 1	2SC1312 (F, G)	1 B . 1 A	R21,22	0106683	68kΩ	2 B . 2 A	
	or	or			R23,24	0106332	3.3kΩ	2 B . 2 A
	0306011, 2	2SC1222 (E, F)		R25,26	0106824	820kΩ	2 B . 2 A	
LPF601	0910230	VSL-200-3 Low Pass Filter		R27,28	0106333	33kΩ	2 B . 2 A	
C01,02	0573229	2.2μF 25V T.C.	2 B . 2 A	R29,30	0106474	470kΩ	2 B . 2 A	
C03,04	0512330	33μF 16V E.C.	2 B . 2 A	R31,32	0106223	22kΩ	2 B . 2 A	
C05,06	0660470	47 pF 50V C.C.	2 B . 2 A	R33,34	0106472	4.7kΩ	1/4 W C.R. (E.L.R.)	
C07,08	0510470	47μF 6.3V E.C.	2 B . 2 A	R35,36	0106472	4.7kΩ		
C09,10	0660220	22 pF 50V C.C.	2 B . 2 A	R37,38	0106184	180kΩ	1 B . 1 A	
C11,12	0511330	33μF 10V E.C.	2 B . 2 A	R39,40	0106823	82kΩ	1 B . 1 A	
C15,16	0513100	10μF 25V E.C.	2 B . 2 A	R41,42	0106822	8.2kΩ	1 B . 1 A	
C17,18	0519102	3.3μF 50V E.C.	2 B . 2 A	R43,44	0106271	270Ω	1 B . 1 A	
C19,20	0600107	0.01μF	2 B . 2 A	R45,46	0106472	4.7kΩ	1 B . 1 A	
C21,22	0601106	0.001μF } 50V M.C.	2 B . 2 A	R47,48	0106124	120kΩ	1 B . 1 A	
C23,24	0600336	0.0033μF	2 B . 2 A	R49,50	0106123	12kΩ	1 B . 1 A	
C25,26	0515109	1μF 50V E.C.	1 B . 1 A	R51,52	0106103	10kΩ	1 B . 1 A	
C27,28	0511101	100μF 10V E.C.	1 B . 1 A	R53,54	0106103	10kΩ	1 B . 1 A	
C29,30	0519105	2.2μF	1 B . 1 A	R55,56	0106103	10kΩ	1 B . 1 A	
C31,32	0519102	3.3μF } 50V E.C.	1 B . 1 A	R57,58	0106102	1kΩ	1 B . 1 A	
C33,34	0519102	3.3μF	1 B . 1 A	R59,60	0106102	1kΩ	1 B . 1 A	
C35,36	0515109	1μF	1 B . 1 A	R61,62	0106394	390kΩ	1 B . 1 A	
C601	0513101	100μF 25V E.C.	1 A, B	R63,64	0106274	270kΩ	1 B . 1 A	
				R601	0106561	560Ω	1 B	

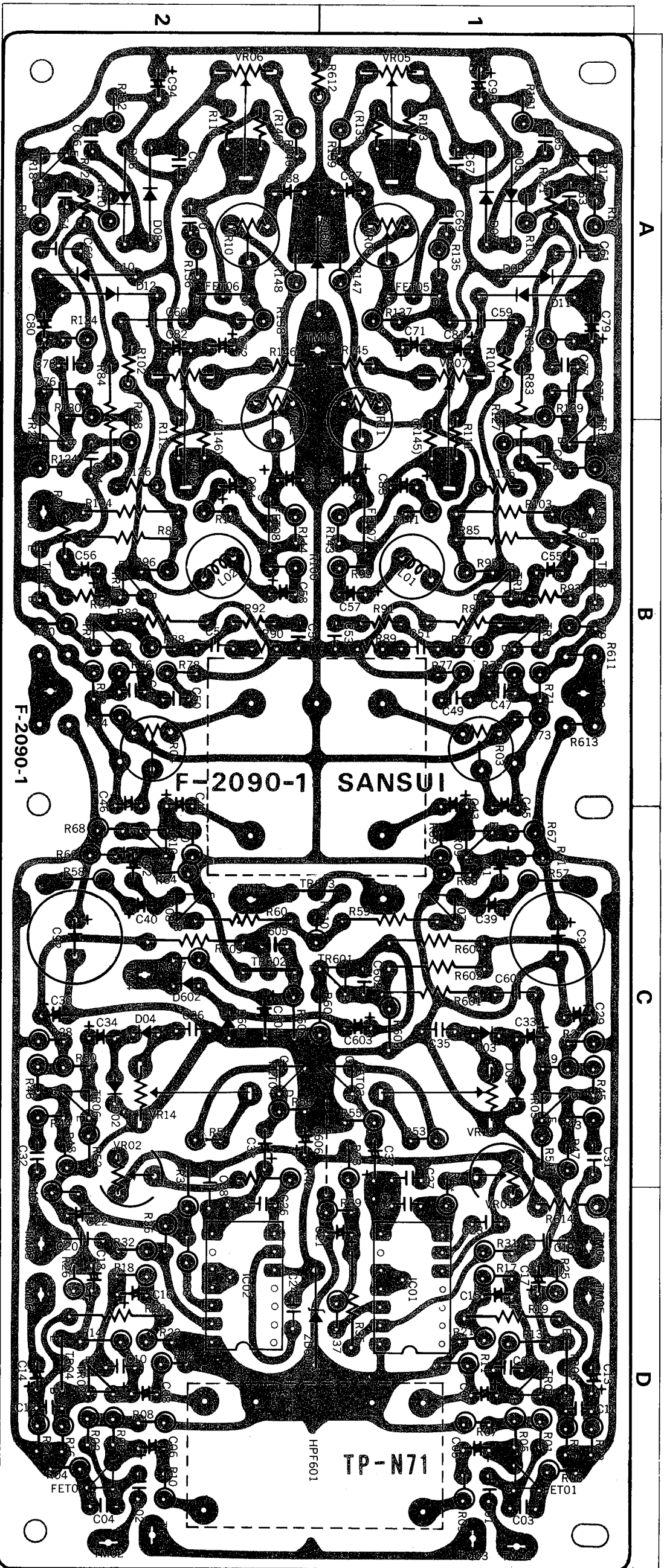
6-14. F-2090 CD-4 Sub Channel Unit Circuit Board

(Stock No. 7650220 Complete Circuit Board F-2090)

Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	
TR01, 02	0306160, 1	2SC1312 (F, G)	1 D. 2 D	C29, 30	0512100	10 μ F 16V E.C.	1 C. 2 C	
	or	or		C31, 32	0601476	0.047 μ F 50V M.C.	1 C. 2 C	
TR03, 04	0306011, 2	2SC1222 (E, F)	1 D. 2 D	C33, 34	0515109	1 μ F 50V E.C.	1 C. 2 C	
	0306160, 1	2SC1312 (F, G)		C35, 36	0601157	0.015 μ F 50V M.C.	1 C. 2 C	
TR05, 06	0306011, 2	2SC1222 (E, F)	1 C. 2 C	C37, 38	0512330	33 μ F 16V E.C.	1 C. 2 C	
	0305951-3	2SC945 (Q, P, K)		C39, 40	0515339	3.3 μ F } 50V E.C.	1 C. 2 C	
TR07, 08	0305951-3	2SC945 (Q, P, K)	1 C. 2 C	C41, 42	0515339	3.3 μ F } 50V E.C.	1 C. 2 C	
	0300301, 3.5	2SA640 (M, K, L)		C43, 44	0513479	4.7 μ F 25V E.C.	1B, C. 2B, C	
TR09, 10	or	or	1 C. 2 C	C45, 46	0515109	1 μ F 50V E.C.	1B, C. 2B, C	
	0300410, 1	2SA726 (F, G)		C47, 48	0620331	330pF 50V P.C.	1 B. 2 A	
TR11, 12	0306160, 1	2SC1312 (F, G)	1 B. 2 B	C49, 50	0600476	0.0047 μ F } 50V C.C.	1 B. 2 A	
	or	or		C51, 52	0600827	0.082 μ F } 50V C.C.	1 B. 2 A	
TR13, 14	0306011, 2	2SC1222 (E, F)	1 B. 2 B	C53, 54	0620331	330pF 50V P.C.	1 B. 2 A	
	0306160, 1	2SC1312 (F, G)		C55, 56	0515109	1 μ F 50V E.C.	1 B. 2 A	
TR15, 16	0306011, 2	2SC1222 (E, F)	1 B. 2 A	C57, 58	0573688	0.68 μ F 25V T.C.	1 B. 2 A	
	0306160, 1	2SC1312 (F, G)		C59, 60	0600158	0.15 μ F 50V M.C.	1 A. 2 A	
TR17, 18	0306011, 1	2SC1222 (F, G)	1 A. 2 A	C61, 62	0600686	0.0068 μ F } 50V E.C.	1 A. 2 A	
	0305951-3	2SC945 (Q, P, K)		C63, 64	0600686	0.0068 μ F } 50V E.C.	1 A. 2 A	
TR19, 20	0305951-3	2SC945 (Q, P, K)	1 B. 2 B	C65, 66	0600226	0.0022 μ F 50V E.C.	1 A. 2 A	
	TR601, 602	0305951-3		2SC945 (Q, P, K)	C67, 68	0601227	0.022 μ F 50V M.C.	1 A. 2 A
TR603	0300510, 1	2SA733 (Q, P)	1. 2 C	C69, 70	0601476	0.0047 μ F 50V M.C.	1 A. 2 A	
				C71, 72	0512100	10 μ F 16V E.C.	1 A. 2 A	
IC01, 02	0360110	CD894A	IC	1 D. 2 D	C73, 74	0600127	0.012 μ F 50V M.C.	1 B. 2 A
FET01, 02	0370150, 1	2SK34 (B, C)	F.E.T	C75, 76	0600157	0.015 μ F } 50V M.C.	1 A. 2 A	
FET03, 04	0370150	2SK34 (B)		1 D. 2 D	C77, 78	0600157	0.015 μ F } 50V M.C.	1 A. 2 A
FET05, 06	0370151	2SK34 (C)		1 C. 2 C	C79, 80	0573338	0.33 μ F } 25V T.C.	1 A. 2 A
FET07, 08	0370151	2SK34 (C)		1 B. 2 B	C81, 82	0573338	0.33 μ F } 25V T.C.	1 A. 2 A
D01, 02	0311160	1S2473D	Diode	C83, 84	0573338	0.33 μ F } 25V T.C.	1 B. 2 A	
D03, 04	0311160	1S2473D		1 C. 2 C	C85, 86	0511330	33 μ F 10V E.C.	1 B. 2 A
D05, 06	0310403	1N34A		1 A. 2 A	C87, 88	0510470	47 μ F 6.3V E.C.	1 A. 2 A
D07, 08	0310403	1N34A		1 A. 2 A	C91, 92	0513221	220 μ F 25V E.C.	1 C. 2 C
D09, 10	0310403	1N34A		1 A. 2 A	C93, 94	0513101	100 μ F 25V E.C.	1 A. 2 A
D11, 12	0310403	1N34A		1 A. 2 A	C601	0601106	0.001 μ F 50V M.C.	1 C
D601, 602	0310330	1N60		2 C. 2 C	C602	0660220	22pF 50V C.C.	1 C
ZD601	0310290	RD12E (B)		Zener Diode	C603	0515109	1 μ F 50V E.C.	1 C
ZD602	0315530	RD6A (K)	1. 2 A		C604	0513479	4.7 μ F 25V E.C.	2 C
HPF601, 602	0910250	VSL-400-3	High Pass Filter	C605	0657223	0.022 μ F 50V C.C.	2 C	
LPF601, 602	0910240	VSL-200-6	Low Pass Filter	C606	0512100	10 μ F 16V E.C.	2 C	
L01, 02	4900191	100mH	Feri Inductor	R01, 02	0106105	1M Ω	1 D. 2 D	
C01, 02	0601106	0.001 μ F 50V M.C.	1 D. 2 D	R03, 04	0106102	1k Ω	1 D	
C03, 04	0660509	5pF 50V C.C.	1 D. 2 D	R05, 06	0106221	220 Ω	1 D. 2 D	
C05, 06	0515109	1 μ F } 50V E.C.	1 D. 2 D	R07, 08	0106123	12k Ω	1 D. 2 D	
C07, 08	0515109	1 μ F } 50V E.C.	1 D. 2 D	R09, 10	0106272	2.7k Ω	1 D. 2 D	
C09, 10	0660680	68pF } 50V C.C.	1 D. 2 D	R11, 12	0106332	3.3k Ω	1 D. 2 D	
C11, 12	0660150	15pF } 50V C.C.	2 D	R13, 14	0106394	390k Ω	1 D	
C13, 14	0515109	1 μ F } 50V E.C.	2 D	R15, 16	0106184	180k Ω	1 D. 2 D	
C15, 16	0515109	1 μ F } 50V E.C.	1 D. 2 D	R17, 18	0106472	4.7k Ω	1 D. 2 D	
C17, 18	0515109	1 μ F } 50V E.C.	1 D. 2 D	R19, 20	0107104	100k Ω	1 D. 2 D	
C19, 20	0601477	0.047 μ F 50V M.C.	1 D. 2 D	R21, 22	0106331	330 Ω	1 D. 2 D	
C21, 22	0515109	1 μ F 50V E.C.	1 D. 2 D	R23, 24	0106472	4.7k Ω	1 D. 2 D	
C23, 24	0600276	0.0027 μ F 50V M.C.	1 D. 2 D	R25, 26	0106471	470 Ω	1 D. 2 D	
C25, 26	0657102	0.001 μ F 50V C.C.	1 D. 2 D	R27	0106332	3.3k Ω	1 C	
C27, 28	0600336	0.0033 μ F 50V M.C.	1 C. 2 C, D	R28	0106472	4.7k Ω	2 C	
				R31, 32	0106222	2.2k Ω	1 D. 2 D	
				R33, 34	0106103	10k Ω	1C, D, 2C, D	
				R35	0107472	4.7k Ω	1 D	
				R36	0106472	4.7k Ω	2 D	
				R37, 38	0106472	4.7k Ω	1 D. 2 D	
				R39, 40	0106103	10k Ω	1 D. 2 D	
				R41, 42	0106272	2.7k Ω	1C, D, 2C, D	
				R43, 44	0106821	820 Ω	1 C. 2 C	

Conductor Side



Parts No.	Stock No.	Description	Position
R45, 46	0106564	560kΩ	1C.2C
R47, 48	0106473	47kΩ	1C.2C
R49, 50	0106682	6.8kΩ	1C.2C
R51, 52	0106680	68Ω	1C.2C
R53, 54	0106683	68kΩ	1C.2C
R55, 56	0106104	100kΩ	1C.2C
R57, 58	0106562	5.6kΩ	1C.2C
R59, 60	0107223	22kΩ	1C.2C
R61, 62	0106333	33kΩ	1C.2C
R63, 64	0106474	470kΩ	1C.2C
R67, 68	0106221	220Ω	1C.2C
R69, 70	0106472	4.7kΩ	1C.2C
R71, 72	0106474	470kΩ	1C.2C
R73, 74	0106473	47kΩ	1B.2B
R75, 76	0106333	33kΩ	1B.2B
R77, 78	0106472	4.7kΩ	1B.2B
R79, 80	0106273	27kΩ	1B.2B
R81, 82	0107272	2.7kΩ	1B.2B
R83, 84	0107479	4.7Ω	1A.B.2A
R85, 86	0107103	10kΩ	1B.2B

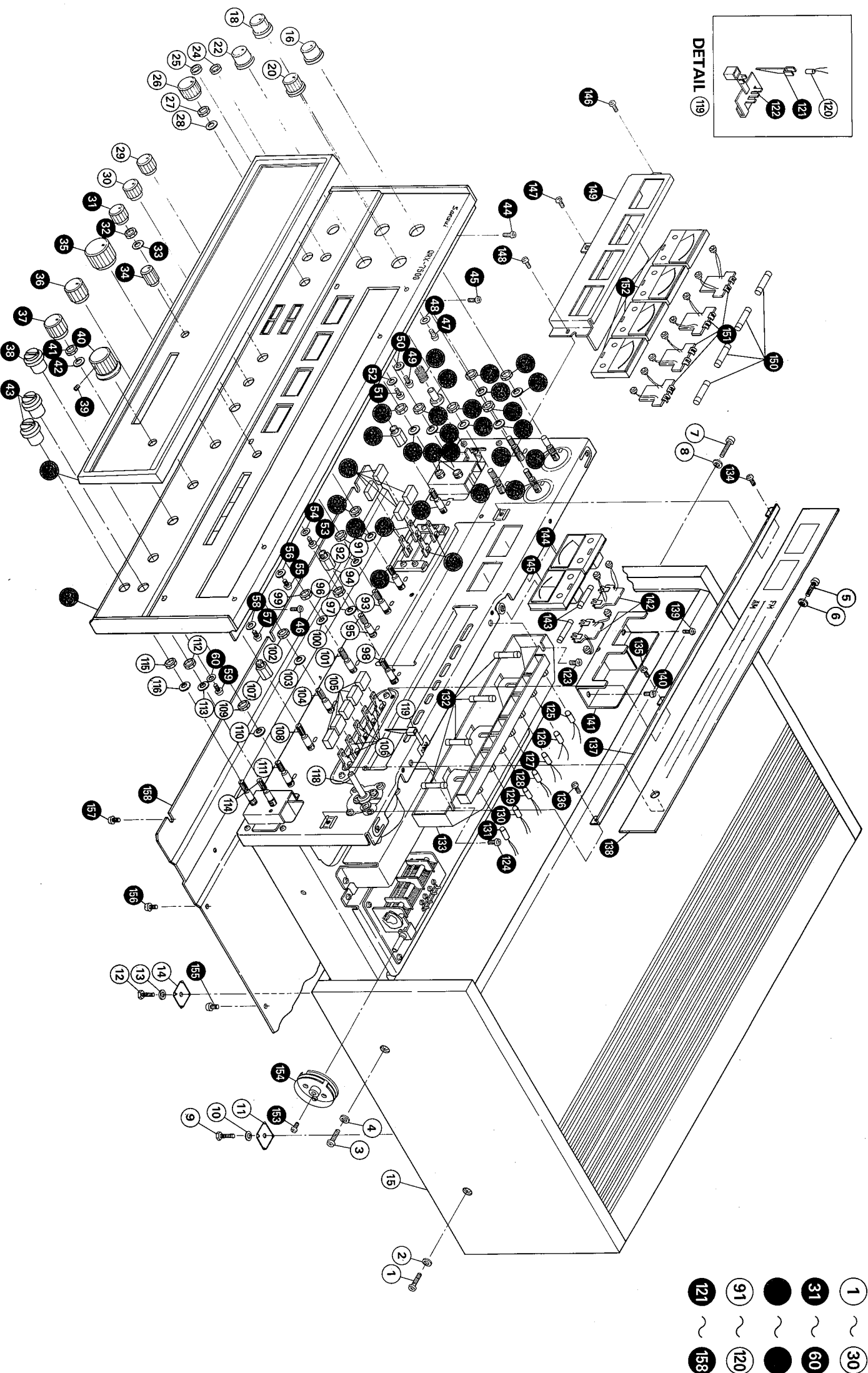
Parts No.	Stock No.	Description	Position
R87, 88	0106473	47kΩ	1B.2B
R89, 90	0106103	10kΩ	1B.2B
R91, 92	0106223	22kΩ	1B.2B
R93, 94	0106103	10kΩ	1B.2B
R95, 96	0106392	3.9kΩ	1B.2B
R97, 98	0106183	18kΩ	1B.2B
R99, 100	0106271	270Ω	1B.2B
R101, 102	0106561	560Ω	1A.2A
R103, 104	0107333	33kΩ	1B.2A
R107, 108	0106473	47kΩ	1A.2A
R109, 110	0106823	82kΩ	1A.2A
R111, 112	0106473	47kΩ	1B.2B
R113, 114	0106274	270kΩ	1A.2A
R121, 122	0106274	270kΩ	1A.2A
R123, 124	0106473	47kΩ	1B.2B
R125, 126	0106473	47kΩ	1B.2B
R127, 128	0106103	10kΩ	1A.B.2A,B
R129, 130	0106103	10kΩ	1A.B.2A,B
R131, 132	0106682	6.8kΩ	1A.2A
R133, 134	0106682	6.8kΩ	1A.2A

Parts No.	Stock No.	Description	Position
R135, 136	0106104	100kΩ	1A.2A
R137, 138	0106183	18kΩ	1A.2A
R139, 140	0106274	270kΩ	1A.2A
R141, 142	0106104	100kΩ	1B.2B
R143, 144	0106183	18kΩ	1B.2B
R145, 146	0106394	390kΩ	1A.2A
R147, 148	0106102	1kΩ	1A.2A
R601	0107562	5.6kΩ	1C
R602	0107684	860kΩ	1C
R603	0106104	100kΩ	1C
R604	0107332	3.3kΩ	1C
R605	0106331	330Ω	1.2C
R607	0106222	2.2kΩ	2C
R608	0106472	4.7kΩ	2C
R609	0107562	5.6kΩ	2C
R610	0106183	18kΩ	1.2C
R611	0106820	82Ω	1B
R612	0104681	680Ω	1.2
R613	0106680	68Ω	1B
R614	0104331	330Ω	1D

Parts No.	Stock No.	Description	Position
VR01, 02	1035090	2.2kΩ (B)	1C.B.2C.B
VR03, 04	1035110	4.7kΩ (B)	1B.2B
VR09, 10	1035150	22kΩ (B)	1A.2A
VR11, 12	1035150	22kΩ (B)	1A.B.2A,B
VR13, 14	1032520, 1	100kΩ (B)	1C.2C

- Abbreviations**
- C.R. : Carbon Resistor
 - S.R. : Solid Resistor
 - C.R. : Cement Resistor
 - M.R. : Metallized Film Resistor
 - M.C. : Mylar Capacitor
 - E.C. : Electrolytic Capacitor
 - BP.E.C. : Bi-Polar Electrolytic Capacitor
 - C.C. : Ceramic Capacitor
 - Mi.C. : Mica Capacitor
 - O.C. : Oil Capacitor
 - P.C. : Polystyrene Capacitor
 - T.C. : Tantalum Capacitor

6-15. Other Parts (Front Side)



Parts List

Parts No.	Stock No.	Description
1	5100173	Binding Head Screw, M4 x 25
2	5186110	Plain Washer, 4φ
3	5100173	Binding Head Screw, M4 x 25
4	5186110	Plain Washer, 4φ
5	5100173	Binding Head Screw, M4 x 25
6	5186110	Plain Washer, 4φ
7	5100173	Binding Head Screw, M4 x 25

Parts No.	Stock No.	Description
8	5186110	Plain Washer, 4φ
9	5104571	Hexagon Head Bolts, M4 x 23
10	5121260	Spring Washer, 4φ
11	5186091	Nail Washer
12	5104571	Hexagon Head Bolts, M4 x 23
13	5121260	Spring Washer, 4φ
14	5186091	Nail Washer

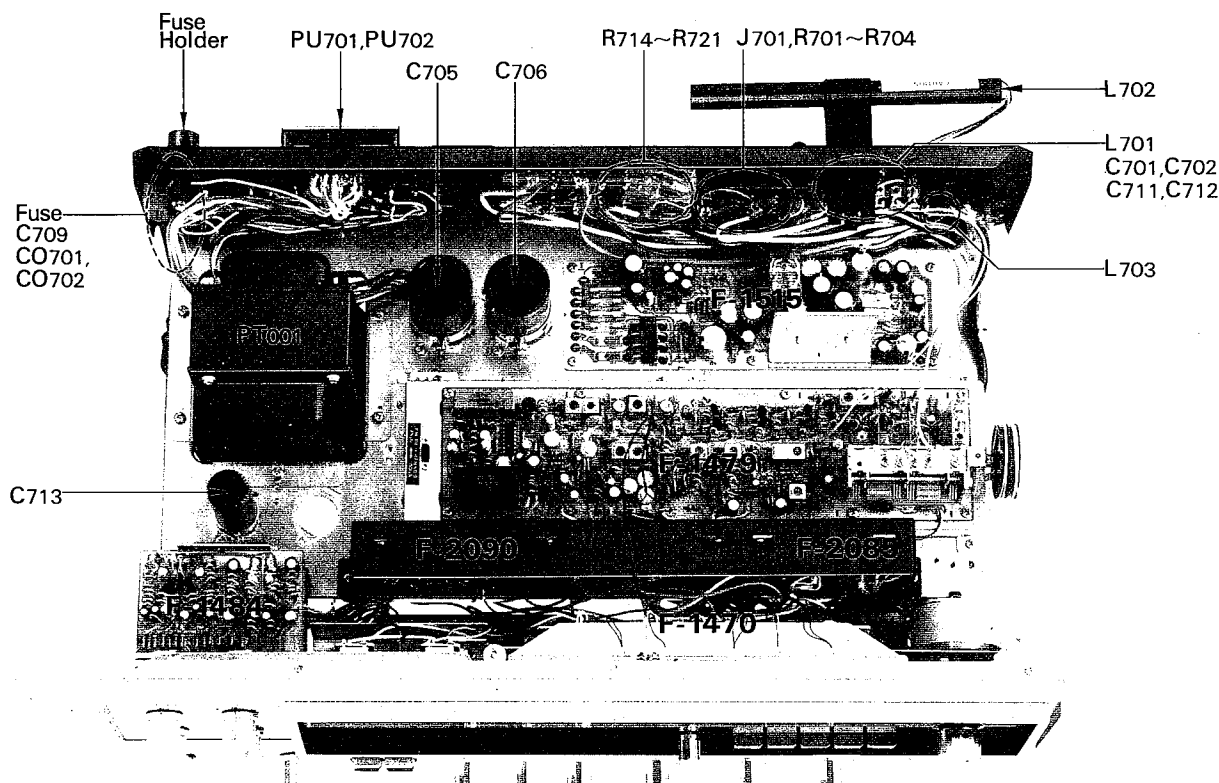
Parts No.	Stock No.	Description
15	5726821	Wood Case
16	5317850	S-2-S Type Knob, BASS volume
18	5317850	S-2-S Type Knob, BASS volume
20	5317850	S-2-S Type Knob, TREBLE volume
22	5317850	S-2-S Type Knob, TREBLE volume
24	5176052	Jack Nut
25	5176052	Jack Nut

Parts No.	Stock No.	Description
26	5317642	M-2 Type Knob, SPEAKER switch
27		Hex. Nut, M9
28		Plain Washel, 9φ
29	5317652	S-2 Type Knob, BALANCE volume
30	5317652	S-2 Type Knob, BALANCE volume
31	5317652	S-2 Type Knob, BALANCE volume
32		Hex. Nut, M9

Parts No.	Stock No.	Description
33		Plain Washer, 9 ϕ
34	5317811	P-5 Type Knob, LEVEL SET volume
35	5317632	L-2 Type Knob, VOLUME
36	5317642	M-2 Type Knob, FUNCTION switch
37	5317642	M-2 Type Knob, DIRECTION switch
38	5317860	Q-5 Type Knob, CD-4 LEVEL Volume
39	5106061	Hex. Socket Setscrew, M4 \times 6
40	5317780	N-5 Type Knob, TUNING
41		Hex. Nut, M9
42		Plain Washer, 9 ϕ
43	5317860	Q-5 Type Knob, CD-4 SEPARATION Volume
44	5101043	Binding Head Screw, M3 \times 6
45	5101043	Binding Head Screw, M3 \times 6
46	5101043	Binding Head Screw, M3 \times 6
47	5101042	Binding Head Screw, M3 \times 5
48	5120141	Plain Washer, 3 ϕ
49	5101042	Binding Head Screw, M3 \times 5
50	5120141	Plain Washer, 3 ϕ
51	5101042	Binding Head Screw, M3 \times 5
52	5120141	Plain Washer, 3 ϕ
53	5101042	Binding Head Screw, M3 \times 5
54	5120141	Plain Washer, 3 ϕ
55	5101042	Binding Head Screw, M3 \times 5
56	5120141	Plain Washer, 3 ϕ
57	5101042	Binding Head Screw, M3 \times 5
58	5120141	Plain Washer, 3 ϕ
59	5101042	Binding Head Screw, M3 \times 5
60	5120141	Plain Washer, 3 ϕ
61	5308891	Smoked Plate Frame
	5047680	Smoked Plate
62	7006930	Front Panel
63	7106083	Push Button, POWER switch
64	6906031	Spring, POWER switch
65		Hex. Nut, M11
66		Plain Washer, 11 ϕ
67	1010980, 1	100k Ω (B) \times 2 BASS Volume
68		Hex. Nut, M11
69		Plain Washer, 11 ϕ
70	1010980, 1	100k Ω (B) \times 2 BASS Volume
71		Hex. Nut, M11
72		Plain Washer, 11 ϕ
73	1010990, 1	100k Ω (W) \times 2 TREBLE Volume
74		Hex. Nut, M11
75		Plain Washer, 11 ϕ
76	1010990, 1	100k Ω (W) \times 2 TREBLE Volume
77	1130350	Push Switch, POWER switch
78		Hex. Nut, M9
79		Plain Washer, 9 ϕ
80		Hex. Nut, M9
81		Plain Washer, 9 ϕ
82	2430200	Headphone Jack
83	5236491	Spacer Nut, M9
84	1102500, 1	Rotary Switch Y-2-2-4, SPEAKER switch
85	5326380	Push Button, LOW & HIGH FILTER switch
86	1130760	Push Switch (2 Stage)
87	1130760	Push Switch (2 Stage)
88		Hex. Nut, M8
89		Plain Washer, 8 ϕ
90	1010400, 1	250k Ω (HB) BALANCE Volume
91		Hex. Nut, M8
92		Plain Washer, 8 ϕ
93	1060250, 1	250k Ω (HB) \times 4 BALANCE Volume
94	5236461	Spacer Nut, M8
95	1010400, 1	250 (HB) BALANCE Volume

Parts No.	Stock No.	Description
96		Hex. Nut, M8
97		Plain Washer, 8 ϕ
98	1060260, 1	250k Ω (B) \times 4 LEVEL SET Volume
99		Hex. Nut, M9
100		Plain Washer, 9 ϕ
101	1060240, 1	250k Ω (B) \times 4 VOLUME
102		Hex. Nut, M9
103		Plain Washer, 9 ϕ
104	1106130	Rotary Switch Y-6-21-5, FUNCTION switch
105	5326380	Push Button, accessory switch
106	1130750	Push Switch (5 Stage)
107	5236491	Spacer Nut, M9
108	1105200	Rotary Switch Y-5-13-5, SELECTOR switch
109		Hex. Nut, M8
110		Plain Washer, 8 ϕ
111	1010970, 1	10k Ω (B) \times 2 CARRIER LEVEL Volume
112		Hex. Nut, M8
113		Plain Washer, 8 ϕ
114	1005110, 1	50k Ω (B) SEPARATION Volume
115		Hex. Nut, M8
116		Plain Washer, 8 ϕ
118	7036361	Tuning Ass'y
119		Dial Pointer Ass'y
120	0400200	Pilot Lamp, lead type (6.3V 75mA)
121	5416050	Dial Pointer
122	5416300	Holder, dial pointer
123	5109122	Binding Head Tapping Screw, M3 \times 8
124	5109122	Binding Head Tapping Screw, M3 \times 8
125	0400300	Lead Type Lamp (7V 100mA), STEREO indicator
126	0400310	Lead Type Lamp (7V 100mA), PHONO-2 indicator
127	0400330	Lead Type Lamp (7V 100mA), PHONO-1 indicator
128	0400300	Lead Type Lamp (7V 100mA), FM indicator
129	0400290	Lead Type Lamp (7V 100mA), AM indicator
130	0400320	Lead Type Lamp (7V 100mA), AUX indicator
131	0400310	Lead Type Lamp (7V 100mA), CD-4 indicator
132	0420040	Fuse Type Lamp (7V 300mA)
133	5066211	Indicator Box
134	5109122	Binding Head Tapping Screw, M3 \times 8
135	5109122	Binding Head Tapping Screw, M3 \times 8
136	5109122	Binding Head Tapping Screw, M3 \times 8
137	5269240	Stopper, dial scale
138	5407610	Dial Scale
139	5109122	Binding Head Tapping Screw, M3 \times 8
140	5109122	Binding Head Tapping Screw, M3 \times 8
141	5269260	Holder, tuning & signal meter
142	7726050	Meter Lamp Unit
143	0420040	Fuse Type Lamp (7V 300mA)
144	4300610	Signal Meter
145	4300600	Tuning Meter
146	5109122	Binding Head Tapping Screw, M3 \times 8
147	5109122	Binding Head Tapping Screw, M3 \times 8
148	5109122	Binding Head Tapping Screw, M3 \times 8
149	5269250	Holder, level meter
150	0420040	Fuse Type Lamp (7V 300mA)
151	7726050	Meter Lamp Unit
152	4300620	Level Meter
153	5101123	Binding Head Screw, M2, 6 \times 6
154	6146651	Dial Pulley
155	5101161	Binding Head Screw, M4 \times 6
156	5101161	Binding Head Screw, M4 \times 6
157	5101161	Binding Head Screw, M4 \times 6
158	5058100	Bottom Plate

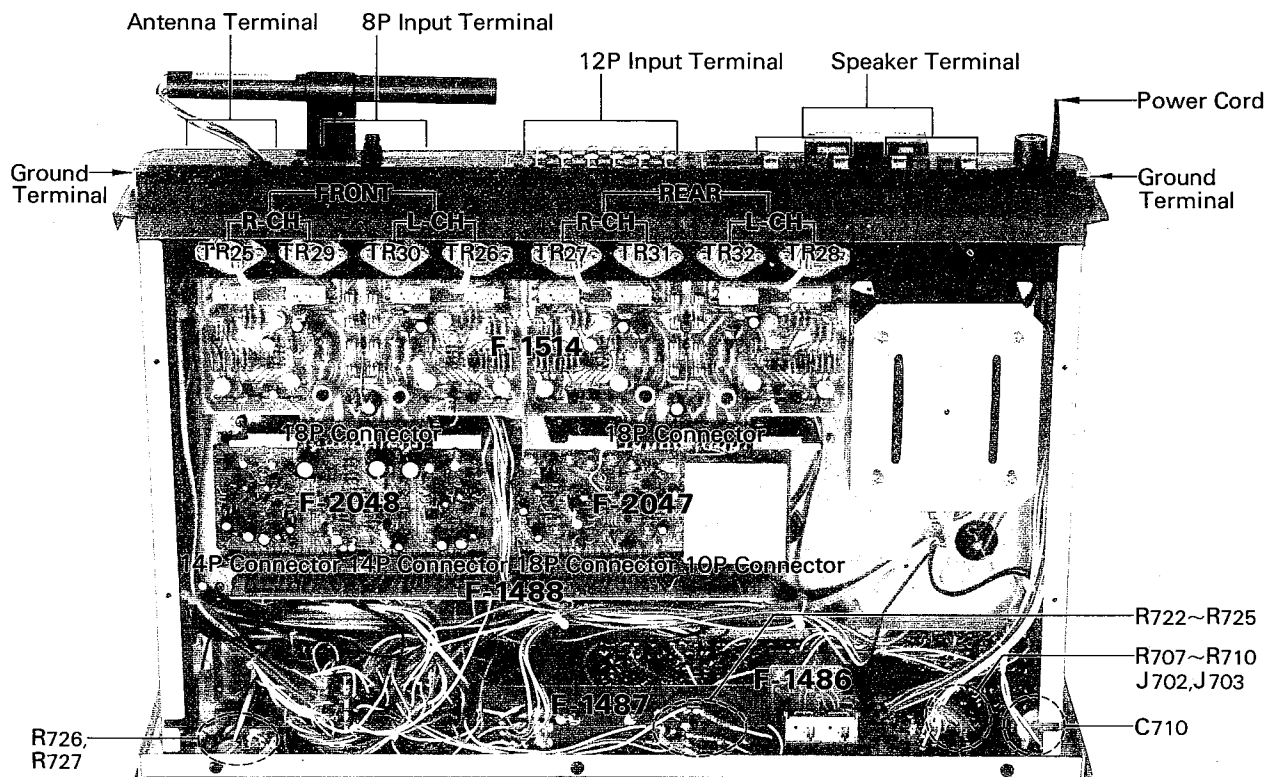
6-16. Other Parts (Top Side)



Top Side Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
C701	0657473	0.047 μ F } 50V C.C.	J701	2430040	DIN Connector
C702	0657473		L701	4290030	1 μ H Coil
C705	0559107	10000 μ F } 35V E.C.	L702	4200550	Bar Antenna
C706	0559107		L703	4290021	75 Ω : 300 Ω FM Balun
C709	0605477	0.047 μ F 250V M.C.	CO701	2450040	AC Outlet
C711	0657473	0.047 μ F } 50V C.C.	CO702	2450040	AC Outlet
C712	0657473		PT001	4002010	Power Transformer
C713	0559501	1000 μ F 63V E.C.	PU701	2410090	Voltage Selector, Plug
R701	0107104	100k Ω } $\frac{1}{4}$ W C.R.	PU702	2410080	Voltage Selector, Socket
R702	0107184		180k Ω		
R703	0107184		180k Ω		
R704	0107104		100k Ω		
R714	0107332		3.3k Ω		
R715	0107563		56k Ω		
R716	0107332		3.3k Ω		
R717	0107563		56k Ω		
R718	0107332		3.3k Ω		
R719	0107563		56k Ω		
R720	0107332	3.3k Ω			
R721	0107563	56k Ω			
	0431310	3.5A Power Fuse (220V~240V)			
	0431290	6A Power Fuse (100V~117V)			
	2300060	Fuse Holder			

6-17. Other Parts (Bottom Side)



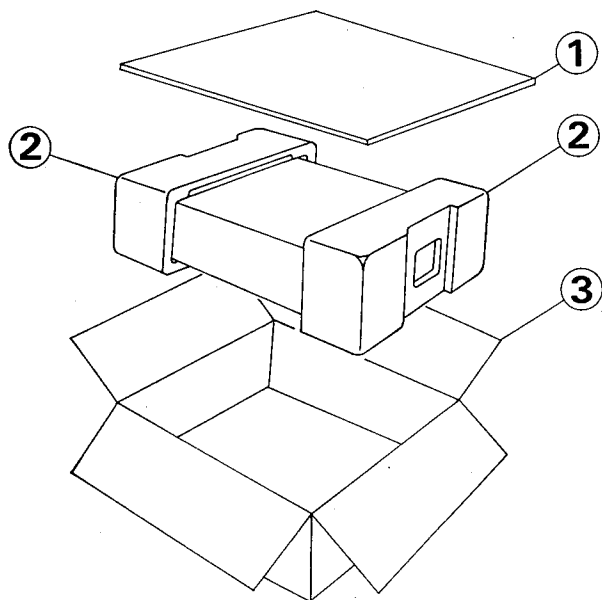
Bottom Side Parts List

Parts No.	Stock No.	Description
TR25	0305631, 2	2SC1030 (B, C)
	or	or
	0305830, 1	2SC1111 (O, R)
TR26	0305631, 2	2SC1030 (B, C)
	or	or
	0305830, 1	2SC1111 (O, R)
TR27	0305631, 2	2SC1030 (B, C)
	or	or
	0305830, 1	2SC1111 (O, R)
TR28	0305631, 2	2SC1030 (B, C)
	or	or
	0305830, 1	2SC1111 (O, R)
TR29	0300551, 2	2SA756 (B, C)
	or	or
	0300580, 1	2SA744 (O, R)
TR30	0300551, 2	2SA756 (B, C)
	or	or
	0300580, 1	2SA744 (O, R)
TR31	0300551, 2	2SA756 (B, C)
	or	or
	0300580, 1	2SA744 (O, R)
TR32	0300551, 2	2SA756 (B, C)
	or	or
	0300580, 1	2SA744 (O, R)
C710	0659801	0.01 μ F 1.4kV C.C.

Parts No.	Stock No.	Description
R707	0172331	220 Ω
R708	0172331	220 Ω
R709	0172331	220 Ω
R710	0172331	220 Ω
R722	0107104	100k Ω
R723	0107104	100k Ω
R724	0107104	100k Ω
R725	0107104	100k Ω
R726	0107102	1k Ω
R727	0107102	1k Ω
J702	2430200	Headphone Jack
J703	2430200	Headphone Jack
	3800020	Power Cord (KP-200)
	2200340	8P Input Terminal
	2200360	12P Input Terminal
	2290100	Speaker Terminal
	2290110	Antenna Terminal
	2230050	Ground Terminal
	2420020	18P Connector
	2420030	10P Connector
	2420150	14P Connector

7. PACKING LIST

Parts No.	Stock No.	Description
1	9017310	Inner Packing
2	9027750	Stylofoam Packing
3	9007770	Carton Case

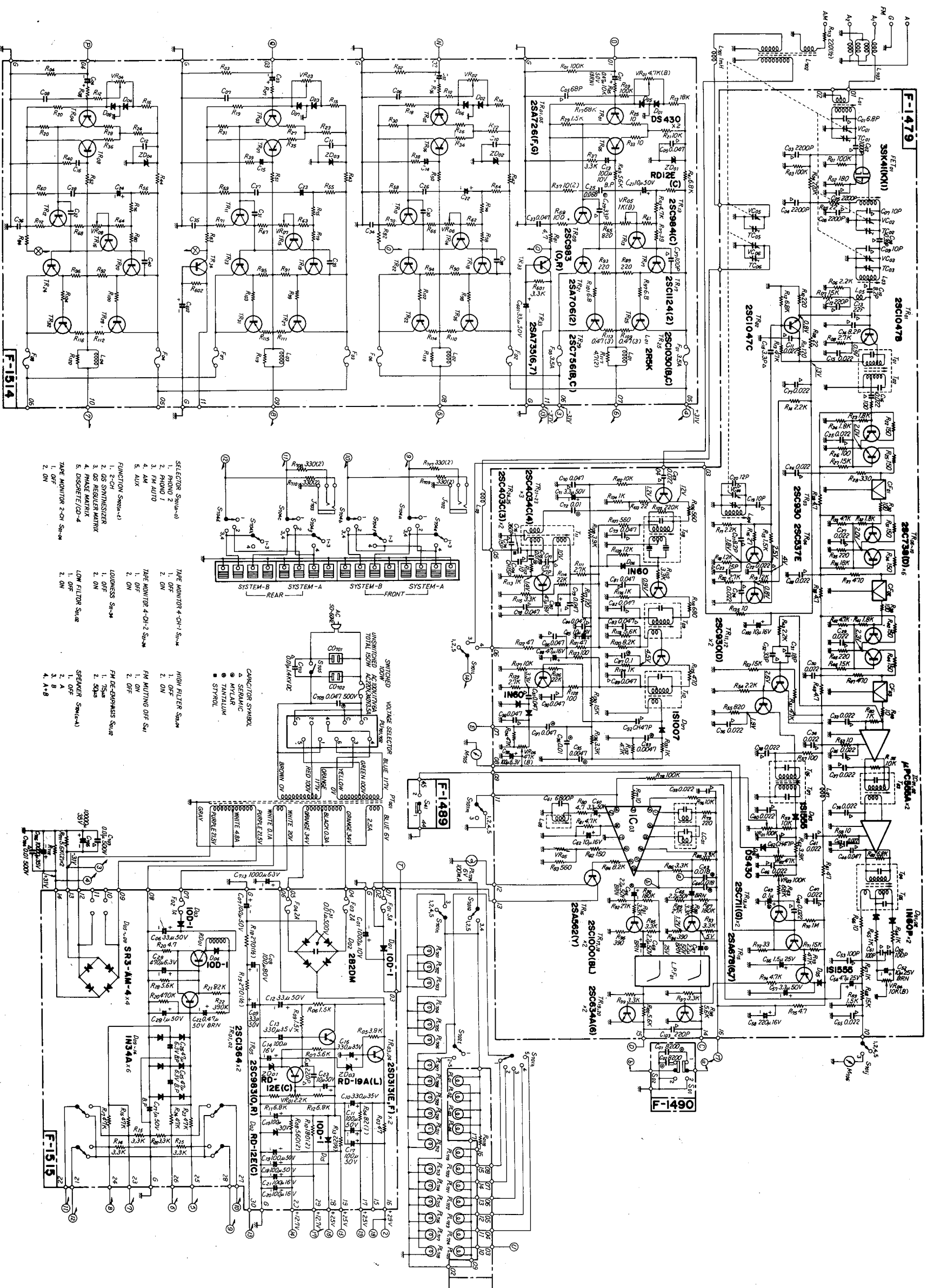


8. ACCESSORY PARTS LIST

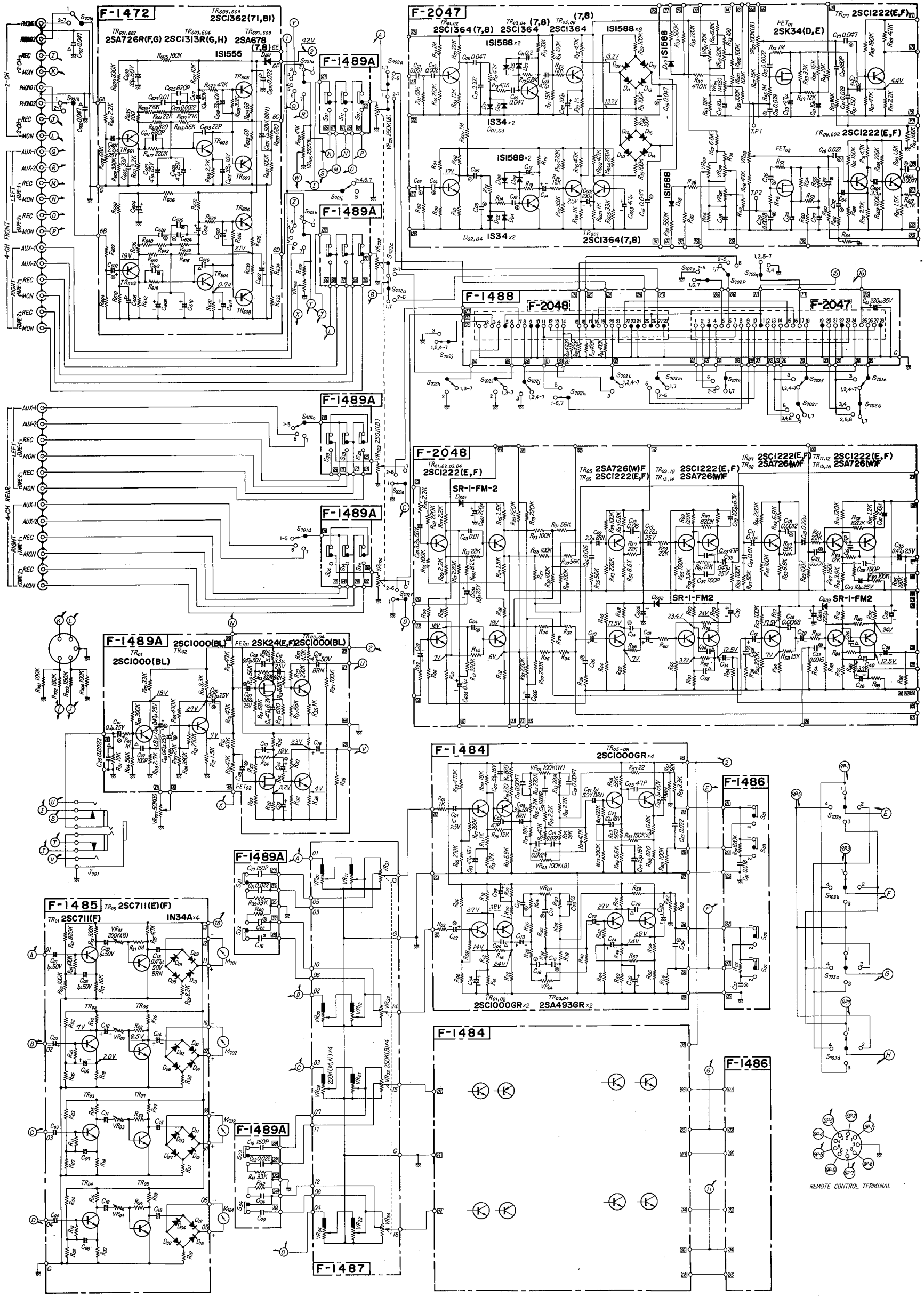
Stock No.	Description
9406020	Polishing Cloth
0433680	3.5A Quick Acting Fuse
3820040	FM Antenna
9207620	Operating Instruction
9207620	Operating Instruction Sheet

9. SCHEMATIC DIAGRAM OF TUNER SECTION

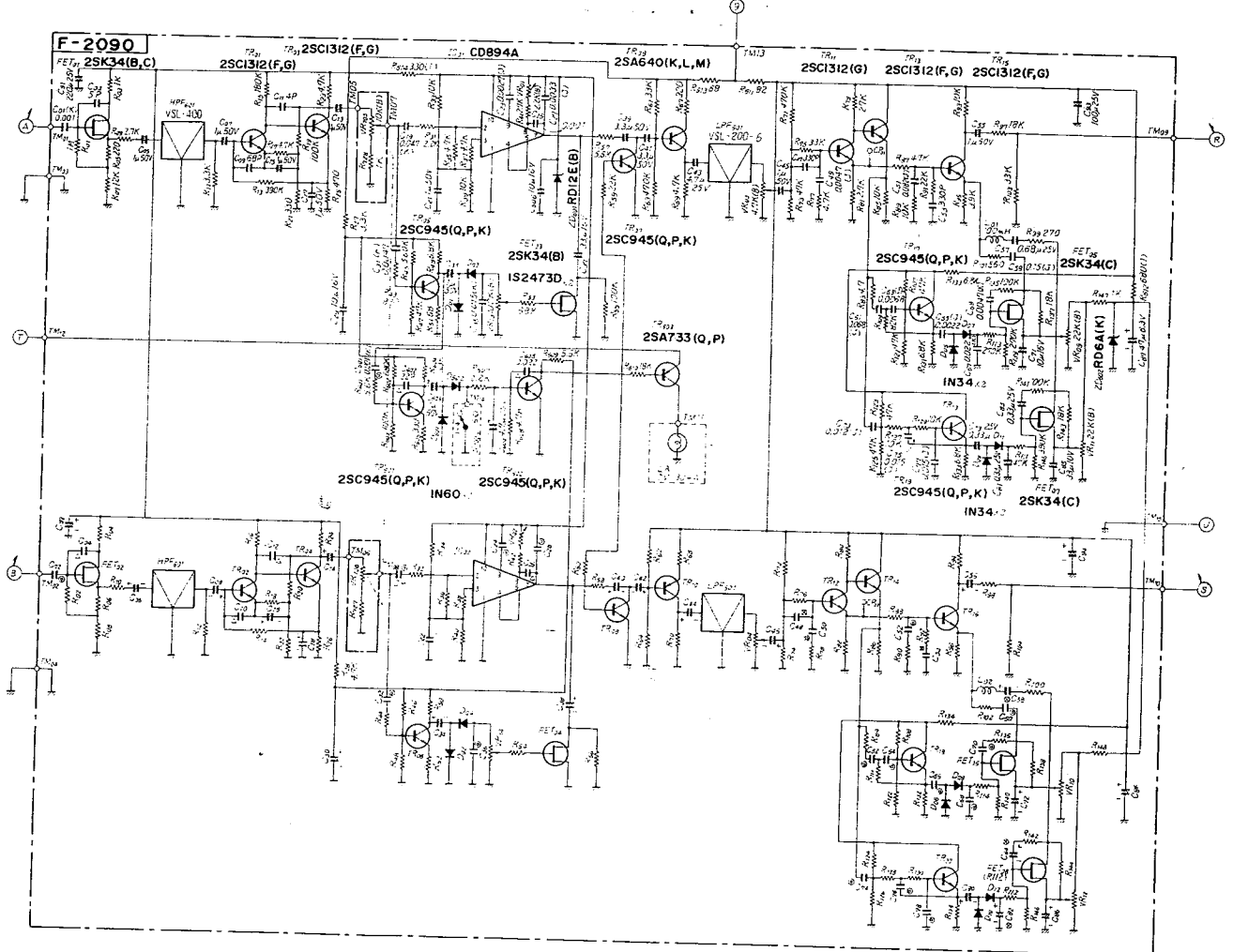
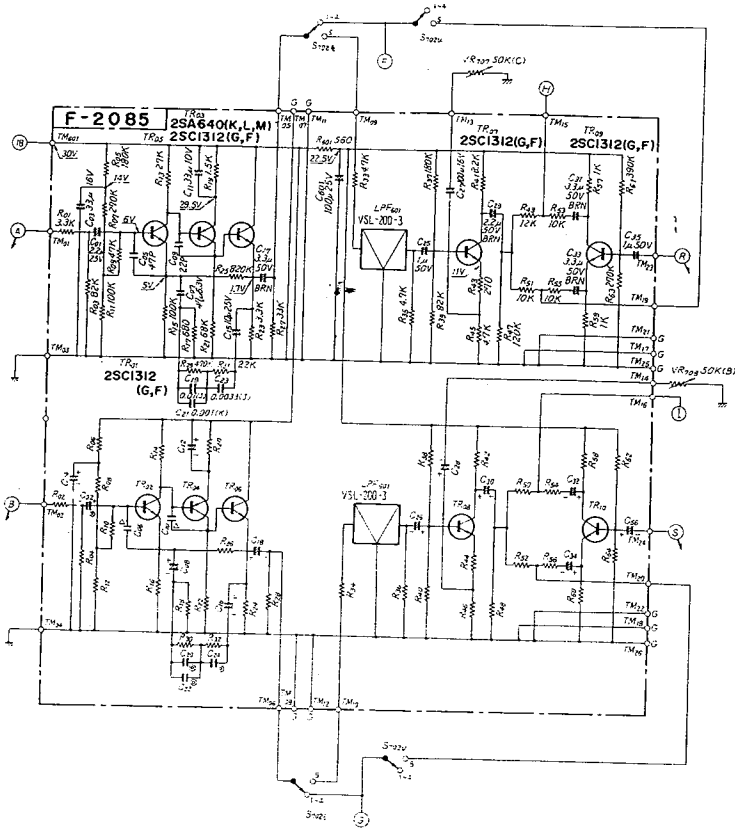
* Design and specifications subject to change without notice for improvements.



10. SCHEMATIC DIAGRAM OF AUDIO SECTION



* Design and specifications subject to change without notice for improvements.





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