



SERVICE MANUAL

AM/FM STEREO RECEIVER **SANSUI EIGHT-DELUXE**



Sansui

SANSUI ELECTRIC CO., LTD.

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

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1. SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT (at rated distortion)

MUSIC POWER (IHF)200W into 4 Ω
160W into 8 Ω

CONTINUOUS POWER (1kHz, each channel driven)
.....80/80W into 4 Ω
60/60W into 8 Ω

CONTINUOUS POWER (1kHz, both channels driven)
.....55W +55W into 8 Ω

CONTINUOUS POWER (both channels driven, from
20 to 20,000Hz).....50W +50W into 8 Ω

TOTAL HARMONIC DISTORTION

POWER AMPLIFIER ONLY

.....less than 0.2% at rated output

PRE AMPLIFIER ONLY (PHONO to PRE output)

.....less than 0.1% at rated output
(VR-30dB)

PRE AMPLIFIER ONLY (AUX to PRE output)

.....less than 0.1% at rated output

OVERALL (AUX to POWER output)

.....less than 0.2% at rated output

INTERMODULATION DISTORTION (70Hz: 7,000Hz =4:1 SMPTE method)

POWER AMPLIFIER ONLY

.....less than 0.3% at rated output

OVERALL (AUX to POWER output)

.....less than 0.3% at rated output

POWER BANDWIDTH (IHF) ..5 to 40,000Hz

LOAD IMPEDANCE4 to 16 Ω

DAMPING FACTORapproximately 60 at 8 Ω load

INPUT SENSITIVITY AND IMPEDANCE (1kHz, for rated output)

PHONO-12.5mV 50k Ω

PHONO-22.5mV 30k Ω , 50k Ω

Max. Input capabilitymore than 300mV at
0.2% distortion

AUX100mV 50k Ω

TAPE MONITOR-1, 2.....100mV 50k Ω

N.R. ADAPTOR100mV 50k Ω

4-CH ADAPTOR.....100mV 50k Ω

POWER AMPLIFIER INPUT ..800mV 100k Ω

OUTPUT LEVEL

TAPE MONITOR (DIN).....30mV

TAPE MONITOR (PIN)100mV

TAPE MONITOR (PHONE type) ..100mV

PRE AMPLIFIER800mV

Max. Output3V at 0.2% distortion

FREQUENCY RESPONSE

POWER AMPLIFIER ONLY

.....5 to 50,000Hz ± 0.5
 -1.0 dB

OVERALL (AUX to POWER output)

.....10 to 40,000Hz ± 1.0
 -1.5 dB

EQUALIZATION (at REC OUT) RIAA Curve

.....30 to 15,000Hz ± 1 dB

CHANNEL SEPARATION (1kHz, at rated output)

POWER AMPLIFIER ONLYbetter than 60dB

OVERALL (PHONO to POWER output)

.....better than 50dB

OVERALL (AUX to POWER output)

.....better than 50dB

HUM AND NOISE (IHF)

POWER AMPLIFIER ONLYbetter than 90dB

OVERALL (PHONO to POWER output)

.....better than 70dB

OVERALL (AUX to POWER output) better than 80dB

SWITCHES AND CONTROL

BASS ± 15 dB at 50Hz (3dB step)

MIDRANGE ± 5 dB at 1,000Hz (1dB step)

TREBLE ± 15 dB at 15,000Hz (3dB step)

LOUDNESS+10dB at 50Hz, +8dB at 10,000Hz

LOW FILTER-10dB at 50Hz (12dB/oct.)

HIGH FILTER-10dB at 15,000Hz (12dB/oct.)

TUNER SECTION

<FM>

TUNING RANGE.....88 to 108MHz

SENSITIVITY (IHF)1.7 μ V

TOTAL HARMONIC DISTORTION

MONOless than 0.3%

STEREO.....less than 0.5%

SIGNAL TO NOISE RATIObetter than 65dB

SELECTIVITYbetter than 80dB

CAPTURE RATIO1.5dB

IMAGE REJECTIONbetter than 100dB at 98MHz

IF REJECTIONbetter than 100dB at 98MHz

SPURIOUS RESPONSE REJECTION

.....better than 100dB at 98MHz

STEREO SEPARATIONbetter than 35dB at 400Hz

FREQUENCY RESPONSE30 to 12,000Hz ± 0.5
 -1.5 dB

ANTENNA IMPEDANCE300 Ω balanced,
75 Ω unbalanced

<AM>

TUNING RANGE.....535 to 1605kHz

SENSITIVITY (bar antenna) ..48dB/m at 1,000Hz

IMAGE REJECTIONbetter than 100dB/m at 1,000kHz

IF REJECTIONbetter than 100dB/m at 1,000kHz

SELECTIVITYbetter than 30dB at 1,000Hz

OTHERS

SEMICONDUCTORS

TRANSISTORS.....85

FETs3

ICs.....3

DIODES44

ZENER DIODES4

POWER REQUIREMENTS

VOLTAGE100V, 117V, 220V, 240V 50/60Hz

CONSUMPTION140W (rated), 420VA (max)

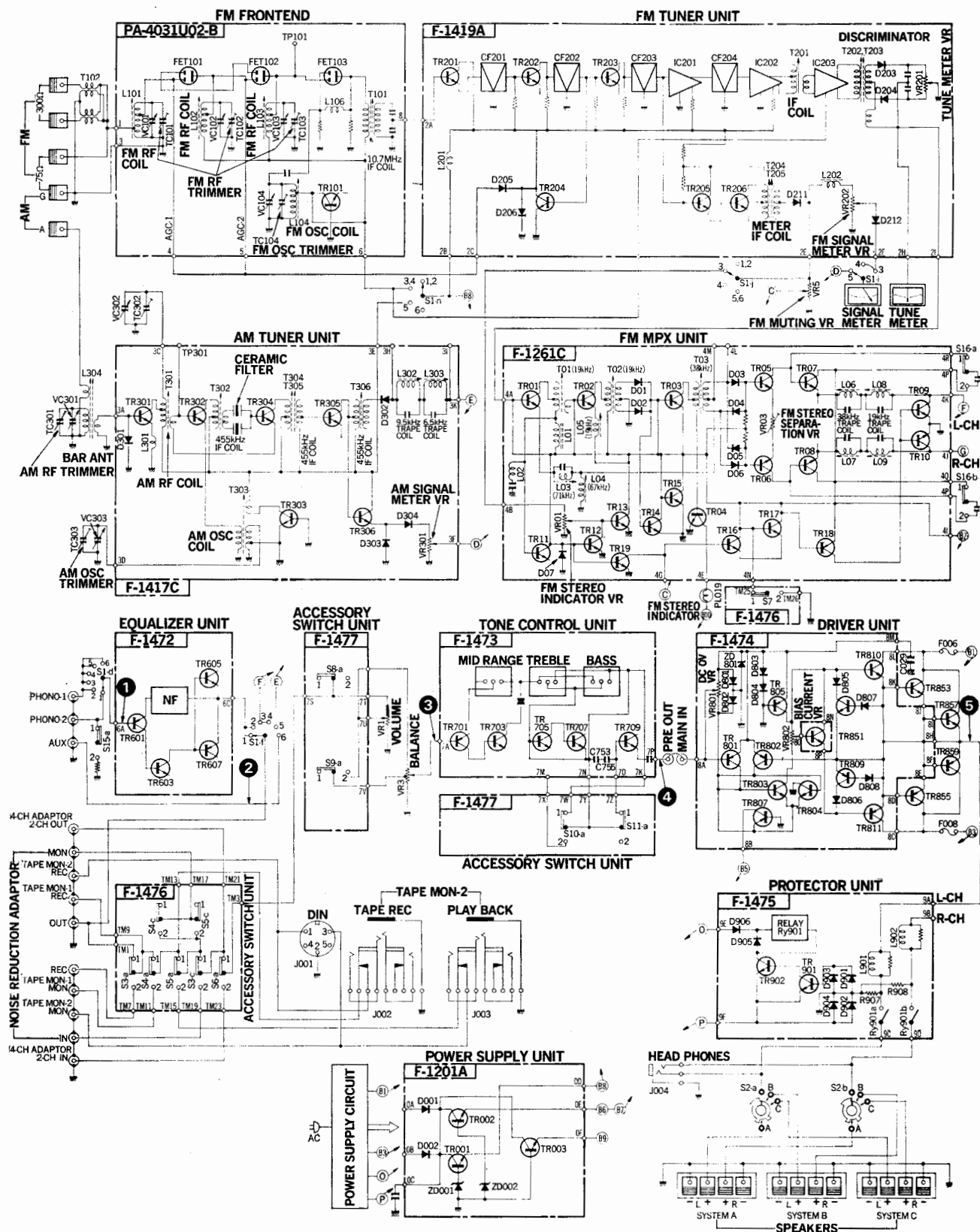
DIMENSIONS.....140mm(5 $\frac{5}{16}$ "H, 447mm(17 $\frac{5}{16}$ "W,
328mm (12 $\frac{5}{16}$ "D)

WEIGHT16.2kg (35.7 lbs.) net,
19.1kg (42.1 lbs.) shipping

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

2. BLOCK DIAGRAM AND LEVEL DIAGRAM

2-1. Block Diagram

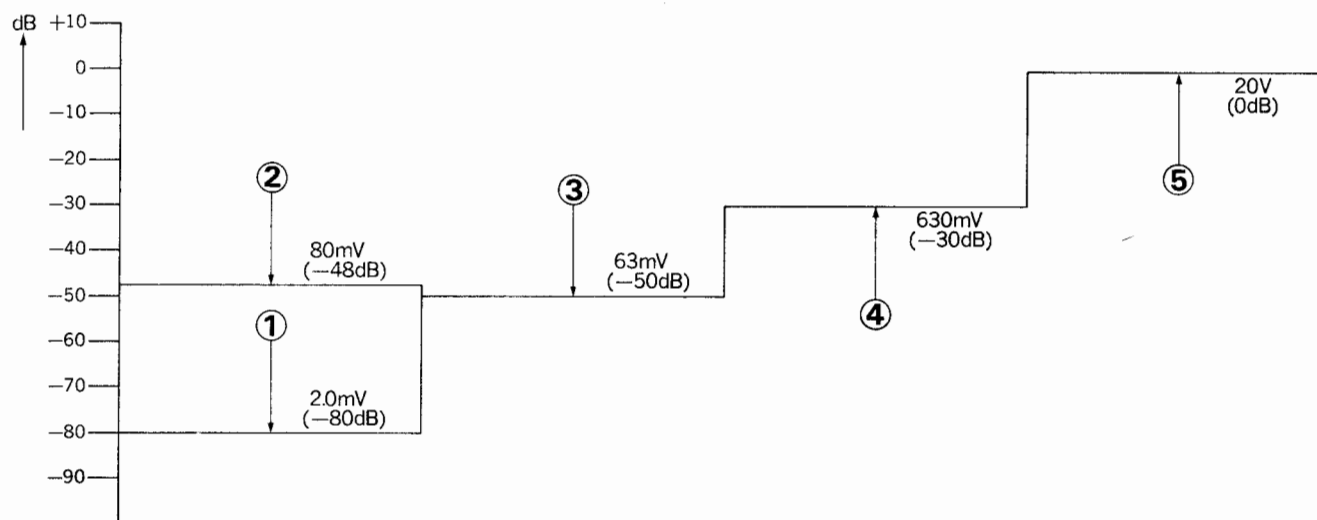


2-2. Level Diagram

* Each number (①, ②, ③....) indicated in Level Diagram corresponds to the number in Block Diagram.

1. VOLUME control.....Maximum
2. BASS, TREBLE, BALANCE volume controlCenter
3. Input.....PHONO-1 2.0mV 1kHz sine wave
AUX 80mV 1kHz sine wave
(output impedance of 600Ω at an audio oscillator)
4. Output20V (50W) 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.



S 1a~j : SELECTOR

1. PHONO-2
2. PHONO-1
3. FM-AUTO
4. FM-MONO
5. AM
6. AUX

S 2a~b : SPEAKER SELECTOR

1. OFF
2. A
3. B
4. A+B
5. A+C

S 3a~b : N.R. ADAPTOR

1. OUT
2. REC

S 4a~b : TAPE MONITOR-1

1. REC
2. MON

S 5a~b : TAPE MONITOR-2

1. OUT
2. IN

S 6a~b : 4-CH ADAPTOR

1. OUT
2. IN

S 7 : FM MUTING

1. ON
2. OFF

S 8a~b : MODE

1. STEREO
2. MONO

S 9a~b : LOUDNESS

1. OFF
2. ON

S 10a~b : HIGH FILTER

1. OFF
2. ON

S 11a~b : LOW FILTER

1. OFF
2. ON

S 15a~b : PHONO-2 PICK UP ROAD

1. 50kΩ
2. 30kΩ

S 16a~b : FM DE-EMPHASIS

1. 75μS
2. 50μS

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

Clockwise CW.
 Counterclockwise CCW.
 Antenna ANT.
 Modulation MOD.

3-1. Driver Circuit Board Adjustment (See Figs. 3-1 and 3-2)

- Note:** 1. Master Volume Minimum
 2. Make the SP terminal 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 if necessary.
 5. Room temperature should be 18~28°C (65~83°F) for bias current adjustment.

STEP	SUBJECT	EQUIPMENT	OUTPUT	MEASURE ADJUST	ADJUST FOR	CONDITION
1	DC 0 V L-ch	DC Volt meter	F-1475 terminal 9A	F-1474 (left side board) VR801	0 V	oChange lead's porarity if meter swings backward oStep down meter's range accordingly
2	DC 0 V R-ch	Same as above	F-1475 terminal 9B	F-1474 (right side board) VR801	Same as above	Same as above
3	Bias current L-ch	DC miliam meter	F006 Fig. 3-1	F-1474 (left side board) VR802	15mA	oLeave fuse of minus side in the holder oStep down meter's rengen accordingly
4	Bias current R-ch	Same as above	F007 Fig. 3-1	F-1474 (right side board) VR802	Same as above	Same as above

Fig. 3-1

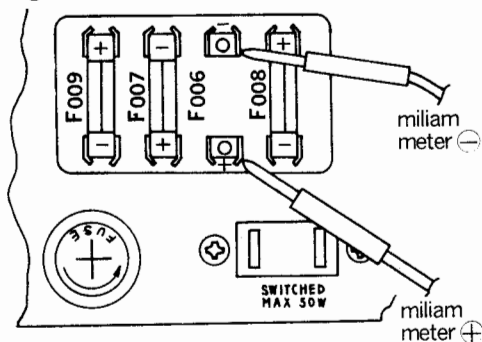
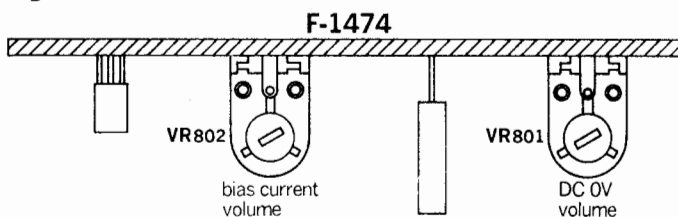
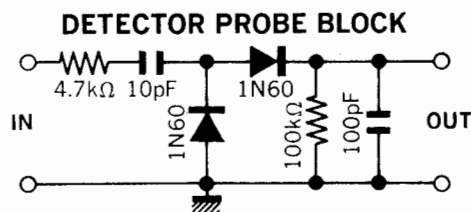
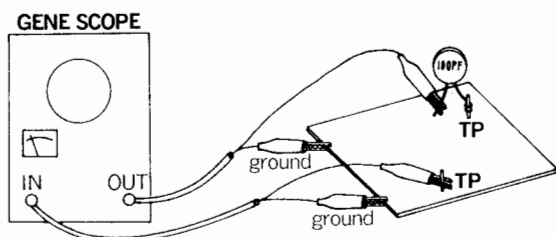


Fig. 3-2



3-2. FM IF Alignment (See Figs. 3-8, 3-9 and 3-10 on page 10)

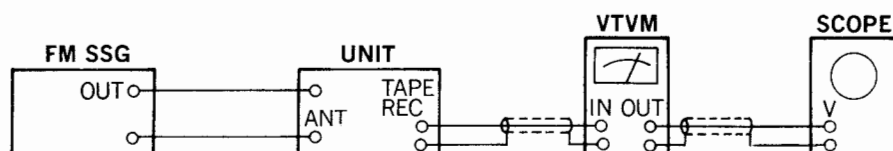
- Note:** 1. Selector FM AUTO
 2. Master Volume Minimum
 3. Output level of genescope After attenuator
 4. Sweepwidth 1.5~2cm/150kHz
 5. Frequency band 9.5~11.5MHz
 6. Connection Connect the output of genescope to TP101 through 100pF ceramic capacitor.
 7. After IF adjustment, proceed adjustments of VR201 and VR202 certainly.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	IF coil	Output 60dB Genescope	TP101 Fig. 3-9	F-1419A IC202 (terminal 3 Fig. 3-8) Detector probe	T101 upper & lower cores	Max. IF waveform 1 as Fig. 3-10	- Turn VR201 center - Turn VR202 fully CCW.
2	Meter coil	Same as above	Same as above	F-1419A terminal 2E Genescope (Direct)	T204, T205	Max. IF waveform 2 Set the center of waveform 2 with waveform 1 as Fig. 3-10	
3	Discriminator coil	Same as above	Same as above	F-1419A terminal 2I Genescope (Direct)	T202 T203	Max. linearity of S curve Set the center of S curve with waveforms 1 & 2 as Fig. 3-10	
4	IF coil			Same as above	T201	Max. noise	

3-3. FM Dial Calibration and RF Alignment (See Fig. 3-9 on page 10)

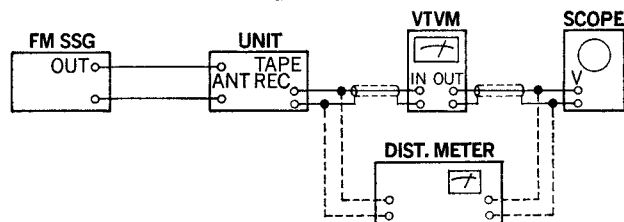
- Note:**
1. SelectorFM AUTO
 2. Master VolumeMinimum
 3. FM MUTING switchOFF (pushed in)
 4. Confirm start point of dial pointer before alignment.
 5. In Step 3 and 4, if Step 1 and 2 are readjusted, repeat Step 3 and 4 again.
 6. Nonmetric, plastic alignment tools should be used for RF alignment.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	88MHz Dial Calibration	88MHz ANT input 10dB 1kHz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-ch VTVM & Scope	L104	Max. output	Set Dial on 88MHz
2	108MHz Dial Calibration	108MHz ANT input 10dB 1kHz (100% MOD) FM SSG	Same as above	Same as above	TC104	Same as above	Set Dial on 108MHz
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 108MHz Dial Calibration	Same as Step 2	Same as above	Same as above		Confirm 108MHz Dial Calibration	If not, repeat from Step 2
5	90MHz RF Adj.	90MHz ANT input 10dB 1kHz (100% MOD) FM SSG	Same as above	Same as above	L101 L102 L103	Max. output	Tune FM SSG (Max. indication of Signal Meter)
6	106MHz RF Adj.	106MHz ANT input 10dB 1kHz (100% MOD) FM SSG	Same as above	Same as above	TC101 TC102 TC103	Same as above	Same as above

3-4. FM Signal Meter, Mono Distortion, Tune Meter and Muting Adjustment (See Figs. 3-8 and 3-11 on page 10)

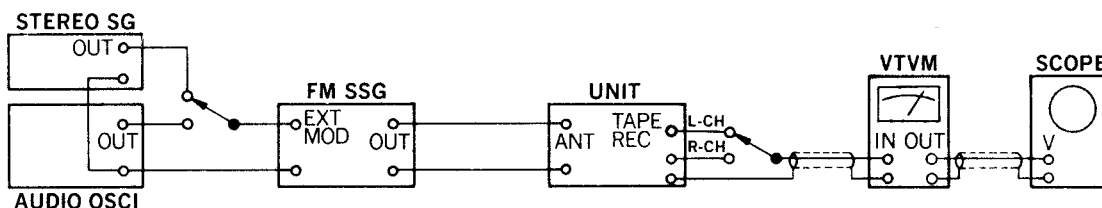
Note: 1. Selector FM AUTO
2. Master Volume Minimum



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	Signal Meter	98MHz ANT input 60dB 1kHz (100% MOD) FM SSG	ANT terminal 300Ω	Signal meter	VR202	4.3 on meter 	◦Tune FM SSG (Max. indication of Signal Meter) ◦Before adjustment, if meter swang out or not enough, preadjust VR202 until the reasonable point
2	Distortion	Same as above	Same as above	Tune meter	T203	Center on Tune meter 	◦Tune FM SSG (Max. indication of Signal Meter) ◦Turn VR201 center
3	Distortion	Same as above	Same as above	REC OUT L or R-ch Dist. meter & Scope	T202	Min. distortion	◦Tune FM SSG (Max. indication of Signal Meter)
4	Tune Meter	Same as above	Same as above	Tune meter	VR201	Center on Tune meter 	◦Set FM MUTING switch to OFF (pushed in) ◦Tune interstation noise
5	Confirm Distortion	Same as above	Same as above	REC OUT L or R-ch VTVM & Scope		Min. distortion	◦Tune FM SSG (Center indication of Tune Meter)
6	Muting Level	98MHz ANT input 14dB 1kHz (100% MOD) FM SSG	Same as above	REC OUT L or R-ch VTVM & Scope	VR5	Audio signal just muted	◦Set FM MUTING switch to OFF (pushed in) ◦Tune the Tune Meter to center and make the muting switch to on (pushed out)

3-5. MPX Alignment (See Fig. 3-3 on page 8)

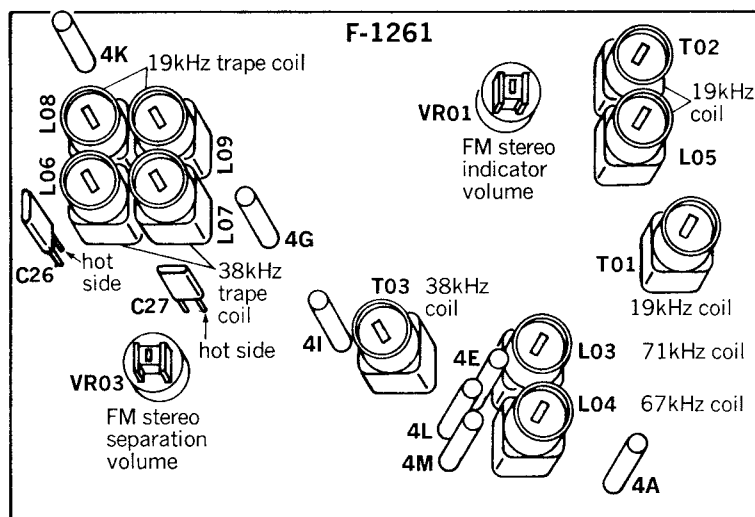
Note: 1. Selector..... FM AUTO
2. Master Volume Minimum
3. FM MUTING switch OFF (pushed in)



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	67kHz SCA coil	98MHz ANT input 60dB FM SSG 67kHz(100% MOD) Audio Osci.	ANT terminal 300Ω	F-1261C terminal 4M VTVM & Scope	L404	Min. 67kHz	

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
2	71kHz SCA coil	98MHz ANT input 60dB FM SSG 71kHz (100% MOD) Audio Osci.	Same as above	Same as above	L403	Min. 71kHz	
3	19kHz Trape coil (low pass filter)	19kHz Output 5V Audio Osci.	F-1261C terminal 4A	REC OUT L & R-ch VTVM & Scope	L408(L-ch) L409(R-ch)	Min. 19kHz	oL408 is for L-ch REC OUT oL409 is for R-ch REC OUT
4	38kHz Trape coil (low pass filter)	38kHz Output 5V Audio Osci.	F-1261C C26 Hot Side (L-ch) C27 Hot Side (R-ch)	Same as above	L406(L-ch) L407(R-ch)	Min. 38kHz	oL406 is for L-ch REC OUT oL407 is for R-ch REC OUT
5	19kHz & 38kHz coil	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) Stereo SG	ANT terminal 300Ω	F-1261C terminal 4L VTVM & Scope	T401 L405 T402 T403	Max. 19kHz, 38kHz	oTurn VR401 fully CW. oTurn VR403 fully CCW.
6	Indicator (Lighting level)	98MHz ANT input 22dB FM SSG Pilot 19kHz (10% MOD) Stereo SG	Same as above	Stereo inde. lamp	VR401	Lighting point	oTune FM SSG (Center indication of Tune Meter)
7	Separation	98MHz ANT input 60dB FM SSG Pilot 19kHz (10% MOD) L-ch 1kHz (45% MOD) R-ch (0% MOD) Stereo SG	Same as above	REC OUT R-ch VTVM & Scope	L405	Min. output	
8	Separation	Same as above	Same as above	Same as above	VR403	Same as above	
9	Distortion	Same as above	Same as above	REC OUT L-ch Dist. meter & Scope	L405	Min. distortion	
10-1	Confirm Separation	Same as above	Same as above	REC OUT L-ch VTVM & Scope		Confirm the output level	
10-2	Confirm Separation	Same as above	Same as above	REC OUT R-ch VTVM & Scope		Confirm the output of R-ch which should be more than 35dB against 0dB	oIf less than 35dB, adjust VR403

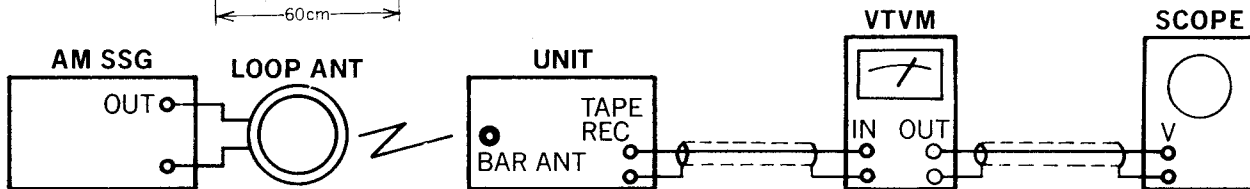
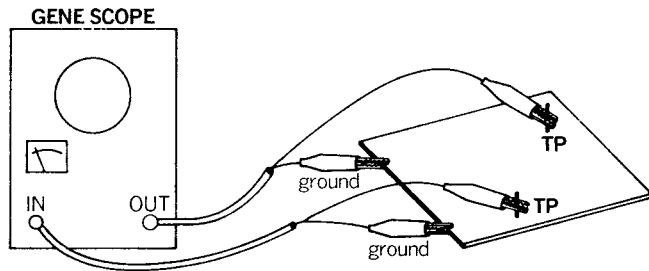
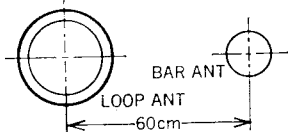
Fig. 3-3



3-6. AM IF, Dial Calibration, RF and Signal Meter Alignment (See Figs. 3-5, 3-6 and 3-7 on page 10)

- Note:**
1. SelectorAM
 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 input as it attenuates input sensitivity for 26dB. (See Fig. 3-4)
 5. Nonmetric, plastic alignment tools should be used for RF alignment.

Fig. 3-4



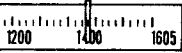
STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
		FROM	TO				
1	IF coil	Output 60dB Genescope	OSC trimmer cap. (TC303) Fig. 3-6	F-1417C terminal 3G Genescope input	T302 T304 T305 T306	Max. IF wave-form Fig. 3-7	oBetter to adjust T304 at last for easiness
2	535kHz Dial Calibration	545kHz ANT input 60dB 400Hz (30% MOD) AM SSG Use loop ANT	Bar ANT	REC OUT L or R-ch VTVM & Scope	T303	Max. output	oIf broadcasting station is near, it might be used 
3	1400kHz Dial Calibration	1400kHz ANT input 60dB 400Hz (30% MOD) AM SSG Use loop ANT	Same as above	Same as above	TC303	Same as above	Same as above 
4	Confirm 535kHz Dial Calibration	Same as Step 2	Same as above	Same as above		Confirm 535kHz Dial Calibration	oIf not, repeat from Step 2
5	Confirm 1400kHz Dial Calibration	Same as Step 3	Same as above	Same as above		Confirm 1400kHz Dial Calibration	oIf not, repeat from Step 3
6	600kHz RF Adj.	600kHz ANT input 60dB 400Hz (30% MOD) AM SSG Use loop ANT	Same as above	Same as above	L304 T301	Max. output	
7	1400kHz RF Adj.	Same as Step 3	Same as above	Same as above	TC301 TC302	Same as above	
8	Signal meter	1000kHz ANT input 74dB 400Hz (30% MOD) AM SSG Use loop ANT	Same as above	Signal Meter	VR301	3.3 on meter 	oTune AM SSG (Max. indication of signal meter) oBefore adjustment, if meter swung out or not enough, pre-adjust VR301 until the reasonable point
9	6.5kHz Trape coil (low pass filter)	6.5kHz Output 1V Audio Osci.	F-1417C terminal 3G	REC OUT L or R-ch VTVM & Scope	L303	Min. 6.5kHz	
10	9.5kHz Trape coil (low pass filter)	9.5kHz Output 1V Audio Osci.	Same as above	Same as above	L302	Min. 9.5kHz	

Fig. 3-5

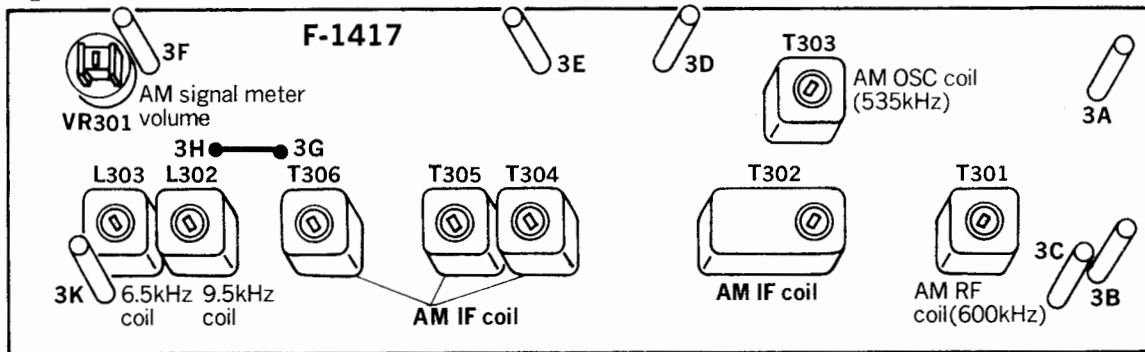


Fig. 3-6

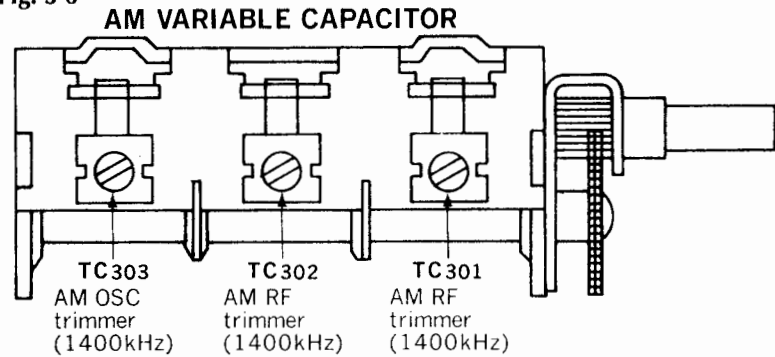


Fig. 3-7

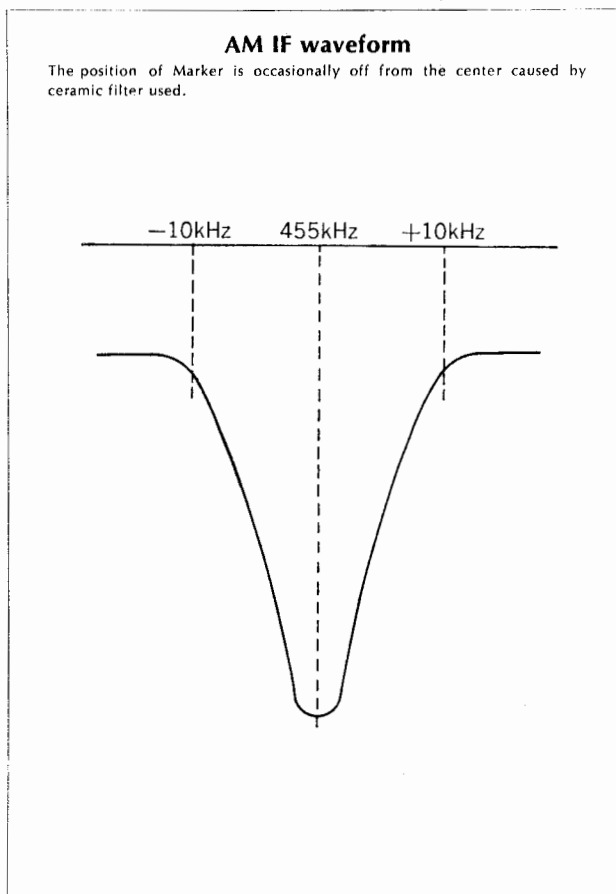


Fig. 3-8

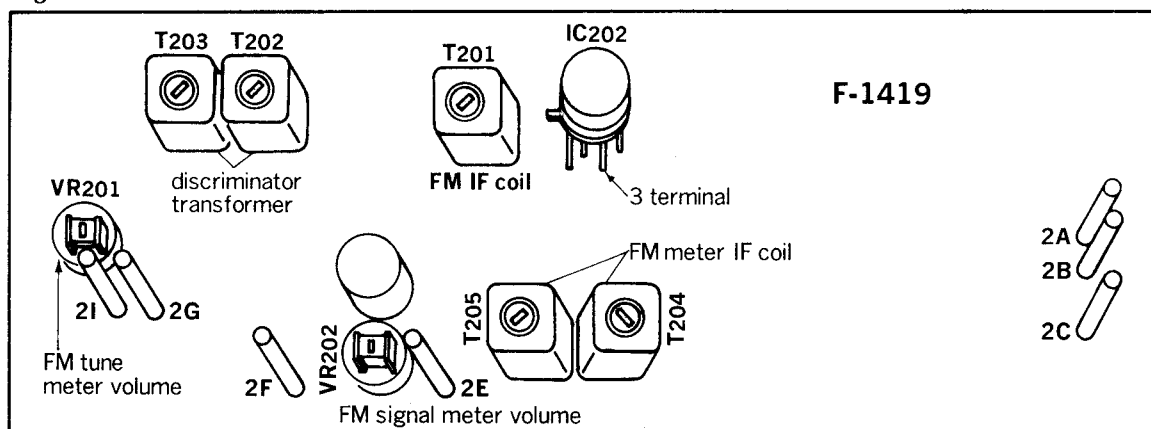


Fig. 3-9

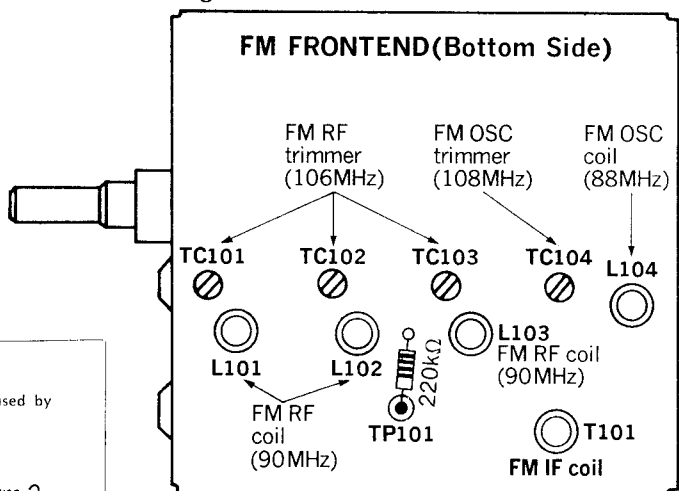


Fig. 3-10

M IF and S curve waveform

The position of Marker is occasionally off from the center caused by ceramic filter used.

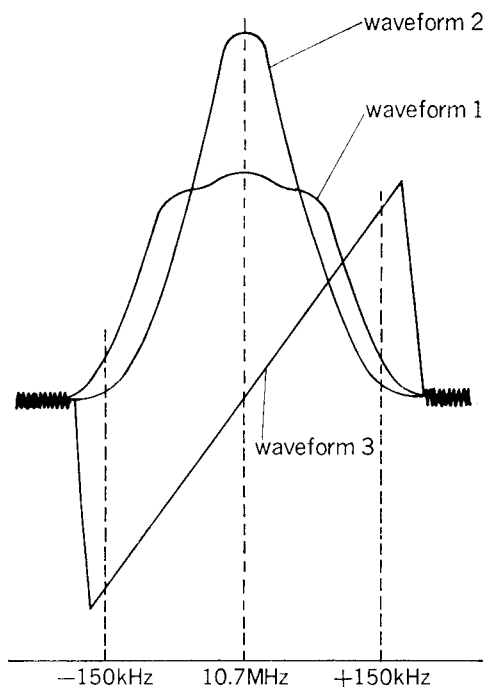
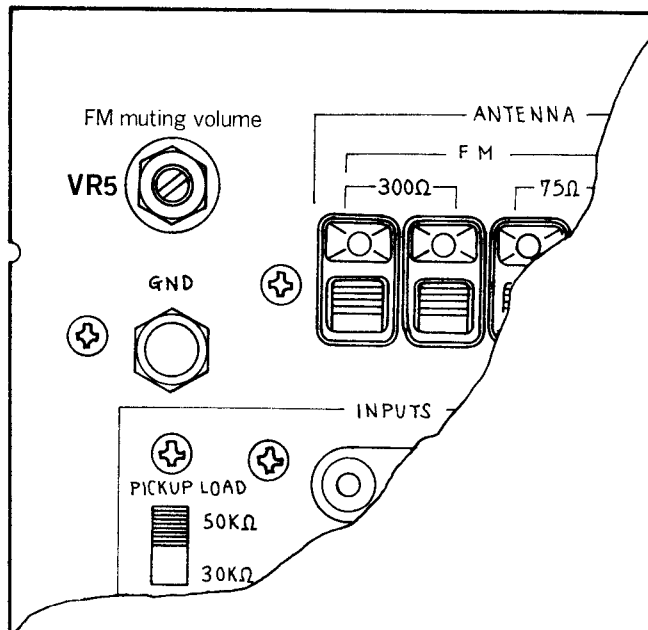


Fig. 3-11



4. THREADING OF DIAL CORD

If dial cord is cut or slips, replace cord by following procedures. As EIGHT-DELUXE is using 0.5mm ϕ cord at both dial pointer-driving and variable capacitor-driving mechanisms, please replace it with same type certainly.

* Length of dial cord:

Dial pointer side200cm (78.7 in.)

Variable capacitor side150cm (59 in.)

1. Dial Pointer-Driving Mechanism

* Proceed the threading by using inside groove of dial pulley 1 and 2.

* Proceed from 1 to 19 in numerical order as shown in Fig. 4-2.

- 1) Close AM and FM variable capacitors completely (maximum capacitance) and tie cord to B of dial pulley 2.
- 2) Thread cord in the direction of arrow from 1 to 5.
- 3) After 6, pass cord through dial spring and thread it in the direction of arrow from 7 to 13.
- 4) Thread from 13 to 18, then pass cord through dial spring and go to 19.
- 5) Give a tension to cord by holding the end of cord and tie it to B of dial pulley 2.

2. Variable Capacitor-Driving Mechanism

* Proceed the threading by using outside groove of dial pulley 1 and 2.

* Proceed from 1 to 14 in numerical order as shown in Fig. 4-1.

- 1) Close AM and FM variable capacitors completely (maximum capacitance) and tie cord to A of dial pulley 2.
- 2) Thread cord in the direction of arrow from 1 to 4.
- 3) After 4, wind cord two and half turns around the tuning shaft clockwise and toward the TUNING knob, then go on to 12.
- 4) After 13, pass cord through dial spring and go on to 14.
- 5) Give a tension to cord by holding the end of cord and turning the TUNING knob clockwise, then tie cord to B of dial pulley 2.

* Make sure that the dial mechanism operates correctly by turning the TUNING knob.

* After procedures, lock the knots of cord with paint certainly.

3. Attachment of Dial Pointer

- 1) Turn the TUNING knob and close the variable capacitors completely (maximum capacitance).
 - 2) Set the dial pointer to "0" on dial scale (starting point) and tighten the dial pointer ass'y. (See Fig. 4-3)
- * Make sure that the dial mechanism operates correctly by turning the TUNING knob.

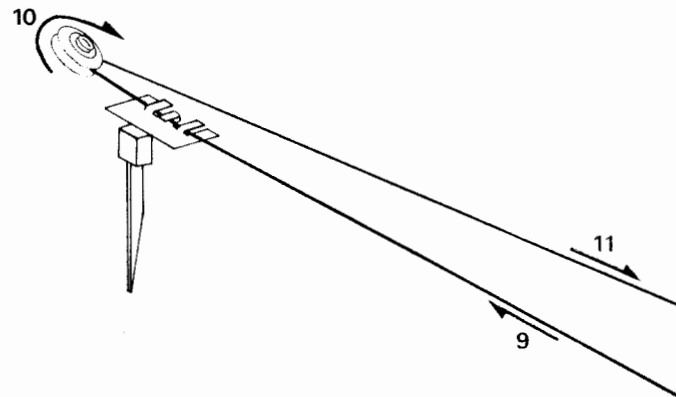
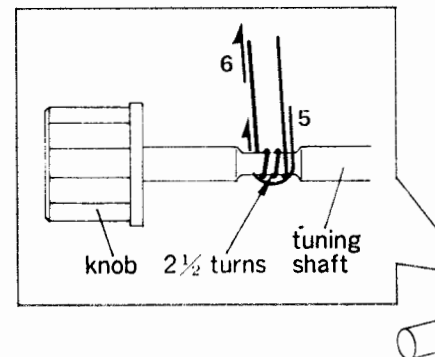
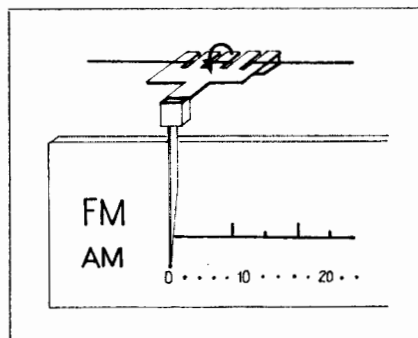
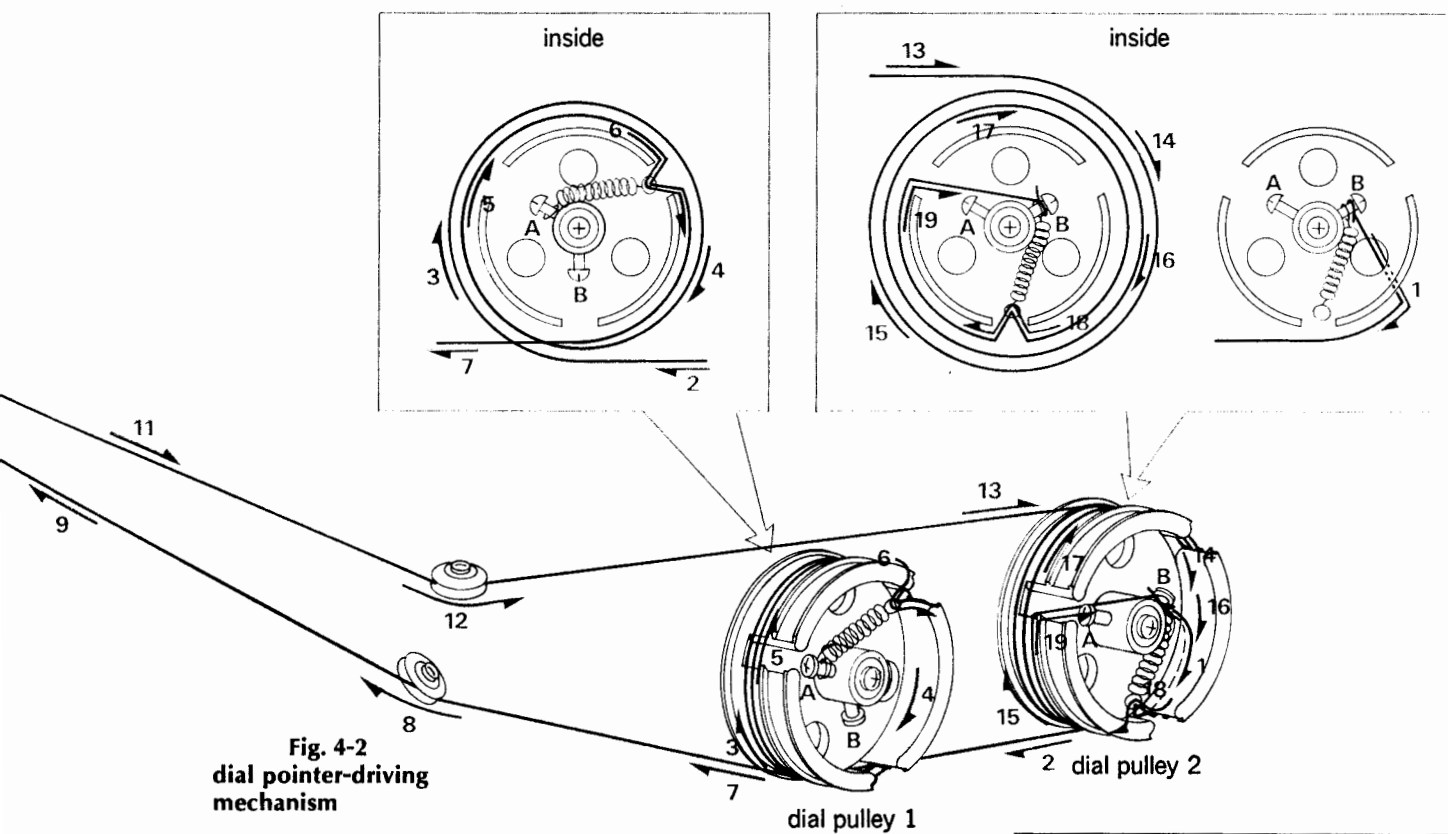
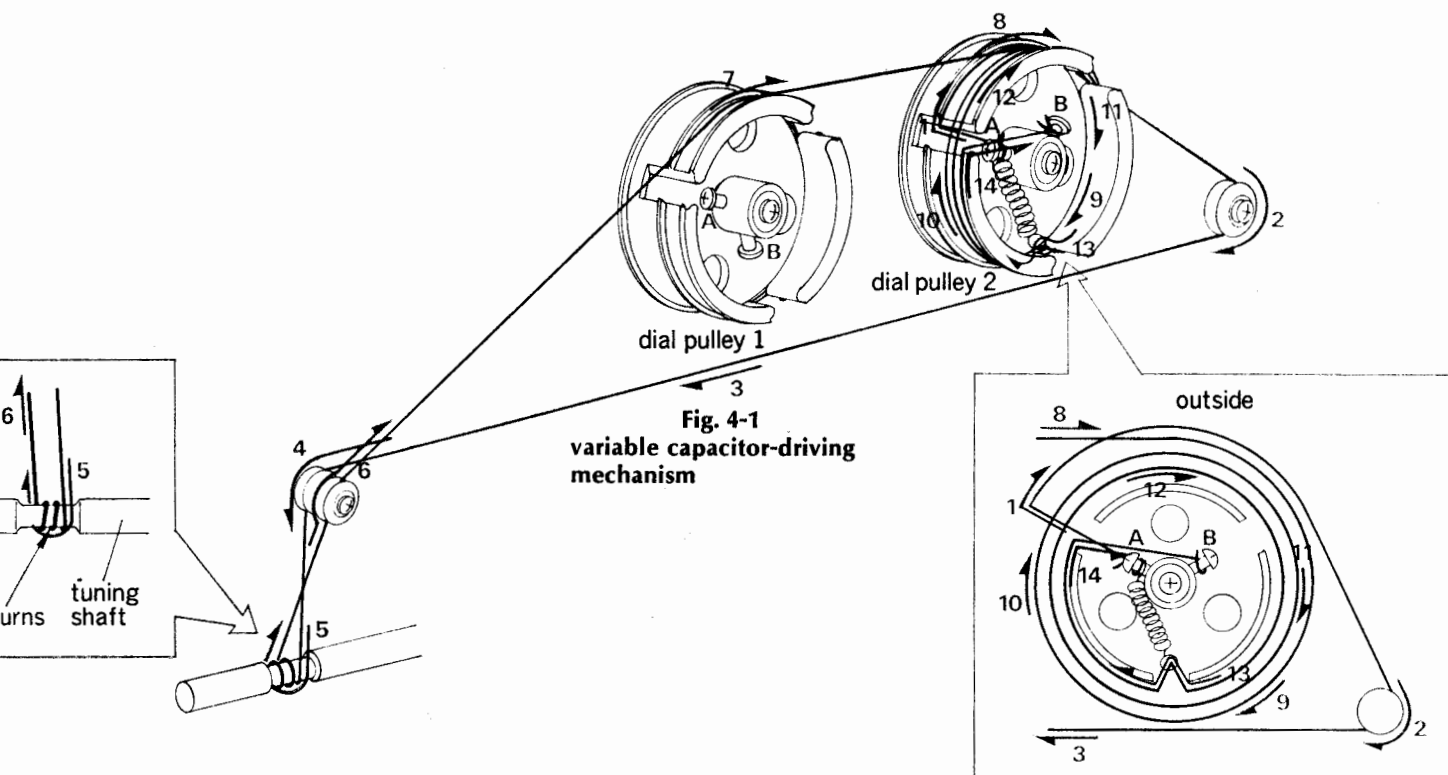


Fig. 4-3





Stock No.	Description
6036030	Dial Cord (0.5mm ϕ)
6906041	Spring G
6906010	Spring E

5. TROUBLESHOOTING CHART

5-1. Troubleshooting on Power Supply Section

Symptom	Check Point	Cause & What to Do
1. No power supplied to each section		
1-1. Each lamp not lighted		1. Imperfect contact of power supply cord 2. Power fuse F ₀₀₁ open 3. Imperfect contact of voltage selector 4. F ₀₀₅ fuse open 5. Imperfect contact of power switch S ₁₇
1-2. Each lamp lighted		
1) +44V not supplied to terminal 8L on F-1474		6. F ₀₀₆ , F ₀₀₇ quick acting fuse open 7. Defective D ₀₀₉
2) -44V not supplied to terminal 8C on F-1474		8. F ₀₀₈ , F ₀₀₉ quick acting fuse open 9. Defective D ₀₀₉
3) -49V not supplied to terminal 8B on F-1474		10. Defective D ₀₀₇ , D ₀₀₈
4) +14V not supplied to terminal OD on F-1201A		11. F ₀₀₄ wired-in fuse open 12. Defective D ₀₀₂ on F-1201A 13. Defective TR ₀₀₁ on F-1201A 14. Defective ZD ₀₀₁ on F-1201A
5) +24V not supplied to terminal OE on F-1201A		15. F ₀₀₃ wired-in fuse open 16. Defective D ₀₀₁ on F-1201A 17. Defective TR ₀₀₂ on F-1201A 18. Defective ZD ₀₀₂ on F-1201A
6) +47V not supplied to terminal OF on F-1201A		19. Defective TR ₀₀₃ on F-1201A
7) +8V not supplied to terminal OH on F-1201A		20. F ₀₀₅ wired-in fuse open 21. Defective D ₀₀₄ on F-1201A

5-2. Troubleshooting on Audio Section

1. Quick acting fuse not open

1-1. Correct voltage not supplied to collector of each power transistor (TR ₈₅₃ , TR ₈₅₄ , TR ₈₅₇ , TR ₈₅₈ +44V; TR ₈₅₅ , TR ₈₅₆ , TR ₈₅₉ , TR ₈₆₀ -44V)		1. Defective power supply section
1-2. Correct voltage supplied to collector of each power transistor (Same as above)		
1) Center voltage not adjustable by VR ₈₀₁ on F-1474		2. Defective TR ₈₀₁ ~TR ₈₀₃ on F-1474 3. Defective D ₈₀₁ , D ₈₀₂ on F-1474 4. Imperfect contact of VR ₈₀₁ on F-1474
2) Center voltage adjustable by VR ₈₀₁ on F-1474		5. Driver circuit F-1474 normal

2. Quick acting fuse open

Symptom	Check Point	Cause & What to Do
2-1. After replacement, fuse open again		6. Defective TR₈₅₇, TR₈₅₉ (TR₈₅₈, TR₈₆₀) 7. Defective TR₈₅₃, TR₈₅₅ (TR₈₅₄, TR₈₅₆) 8. Defective TR₈₀₅~TR₈₁₁ on F-1474 9. Defective D₈₀₅~D₈₀₈ on F-1474 10. Defective TR₈₅₁ (TR₈₅₂)
2-2. After replacement, fuse not open		
1) Center voltage adjustable to 0V by VR ₈₀₁ on F-1474	1-1) Bias current adjustable to 15mA by VR₈₀₂ on F-1474 1-2) Bias current not adjustable to 15mA by VR₈₀₂ on F-1474	11. Set the bias current to 15mA (See page 6) 12. Defective TR₈₀₃, TR₈₀₃ and imperfect contact of VR₈₀₂ 13. Defective D₈₀₃, D₈₀₄ on F-1474
2) Center voltage not adjustable to 0V by VR ₈₀₁ on F-1474		14. Defective TR₈₀₁, TR₈₀₂ on F-1474 15. Defective TR₈₀₈ on F-1474 16. Defective D₈₀₁, D₈₀₂ on F-1474 17. Defective TR₈₀₇ on F-1474 18. Imperfect contact of VR₈₀₁ on F-1474

3. AUX inoperative

3-1. Both channels inoperative		
1) +23V supplied to terminal 7Q on F-1473		1. Defective auxiliary unit, or connecting cord 2. Defective protector circuit F-1475 3. Defective power supply circuit F-1201A 4. F₀₀₂ wired-in fuse open
2) +23V not supplied to terminal 7Q on F-1473		5. Defective power supply section
3-2. One channel inoperative		
1) +23V supplied to terminal 7Q on F-1473		6. Imperfect contact of S_{1-r} on SELECTOR switch 7. Imperfect contact of S_{8-n} on MODE switch 8. Imperfect contact of switch circuit F-1476 9. Defective TR₇₀₁, TR₇₀₃, TR₇₀₅, TR₇₀₇, TR₇₀₉ (TR₇₀₂, TR₇₀₄, TR₇₀₆, TR₇₀₈, TR₇₁₀) on F-1473 10. Imperfect contact of VR₁, VR₃ (VR₂, VR₄) 11. Imperfect contact of S_{2-n} (S_{2-l}) on SPEAKER SELECTOR switch
2) +23V not supplied to terminal 7Q on F-1473		12. Defective power supply section

4. PHONO inoperative

Symptom	Check Point	Cause & What to Do
4-1. Both channels inoperative		
1) +47V supplied to terminal 6F on F-1472		1. Defective turntable
2) +47V not supplied to terminal 6F on F-1472		2. Defective power supply section
4-2. One channel inoperative		
1) Reverse the output cord of L and R-ch from turntable		
1-1) Inoperative channel reverse		3. Defective turntable
1-2) Inoperative channel not reverse		4. Defective TR ₆₀₁ , TR ₆₀₃ , TR ₆₀₅ , TR ₆₀₇ (TR ₆₀₂ , TR ₆₀₄ , TR ₆₀₆ , TR ₆₀₈) on F-1472
		5. Imperfect contact of S _{1-d, e} on SELECTOR switch
		6. Imperfect contact of S _{1-f, g} on SELECTOR switch

5-3. Troubleshooting on RF Section

1. FM inoperative

* Before check, set FM MUTING switch to OFF.

* Confirm DC 13.5V supplied to terminal 2B on F-1419A.

* Confirm DC 12V supplied to terminal 6 on FM Frontend (PA-4031U02-B).

1-1. Signal meter operative		
1) Tune meter operative		1. Defective MPX circuit on F-1261C
2) Tune meter not operative		2. Defective IC ₂₀₁ ~IC ₂₀₃ on F-1419A
		3. Defective CF ₂₀₄ on F-1419A
		4. Defective T ₂₀₁ ~T ₂₀₃ on F-1419A
1-2. Signal meter not operative		
1) Broadcasting sound can be heard (Tune meter operative)		5. Defective TR ₂₀₅ , TR ₂₀₆ on F-1419A
		6. Defective T ₂₀₄ , T ₂₀₅ on F-1419A
		7. Imperfect contact of S _{1-j} on SELECTOR switch
		8. Imperfect contact of VR ₂₀₂ on F-1419A
		9. Defective Signal meter (AM too)
2) Broadcasting sound can not be heard (Tune meter not operative)		10. Defective TR ₂₀₁ ~TR ₂₀₃ on F-1419A
		11. Defective CF ₂₀₁ ~CF ₂₀₄ on F-1419A
		12. Defective IC ₂₀₁ ~IC ₂₀₃ on F-1419A
		13. Defective T ₂₀₁ ~T ₂₀₃ on F-1419A
		14. Defective FM Frontend
2. FM Muting circuit inoperative		
		1. Defective TR ₄₁₆ ~TR ₄₁₈ on F-1261C
		2. Defective TR ₄₀₉ , TR ₄₁₀ on F-1261C
		3. Imperfect contact of VR ₅
		4. Imperfect contact of S ₇ on FM MUTING switch

3. No channel separation on FM stereo broadcasting

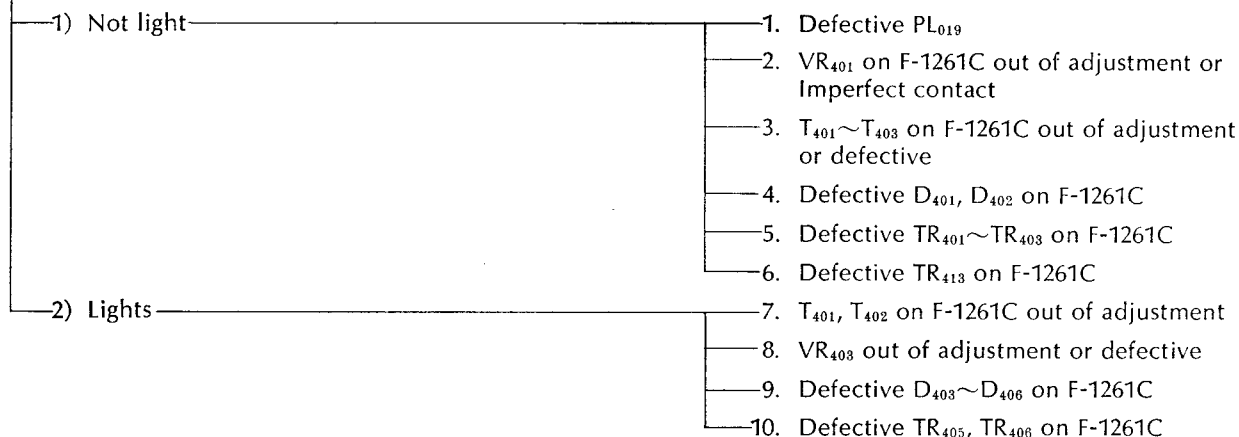
Symptom

Check Point

Cause & What to Do

* Confirm that SELECTOR switch is set to FM AUTO.

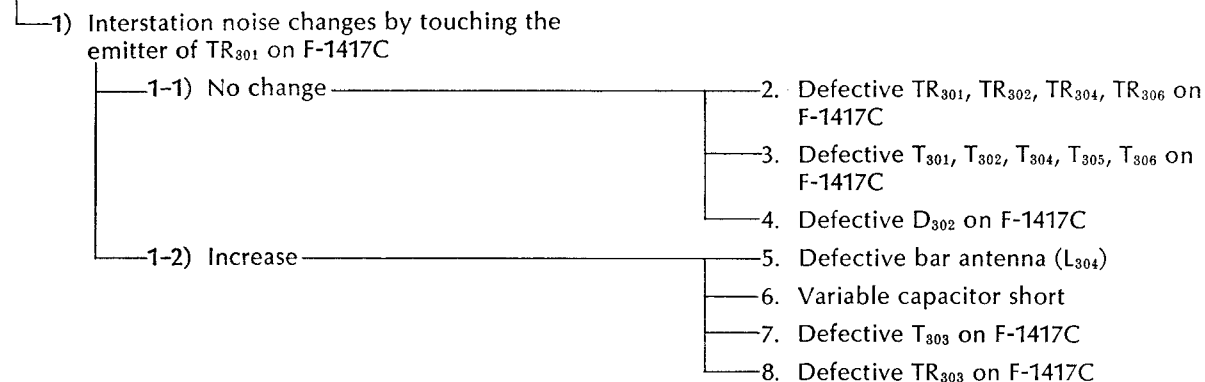
3-1. Stereo Indicator Lamp



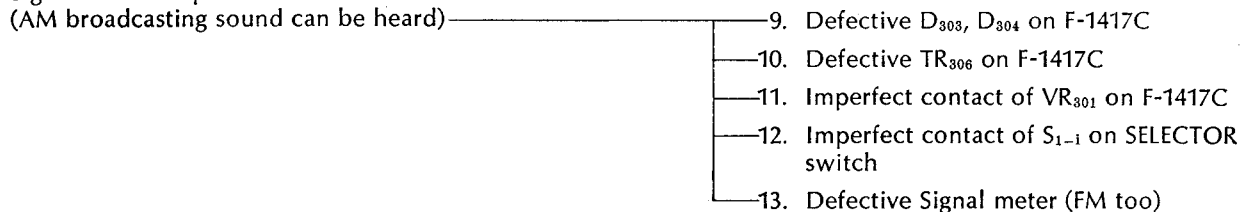
4. AM inoperative

1-1. +13.5V not supplied to terminal 3E on F-1417C ————— 1. Defective power supply section

1-2. +13.5V supplied to terminal 3E on F-1417C



1-3. Signal meter inoperative

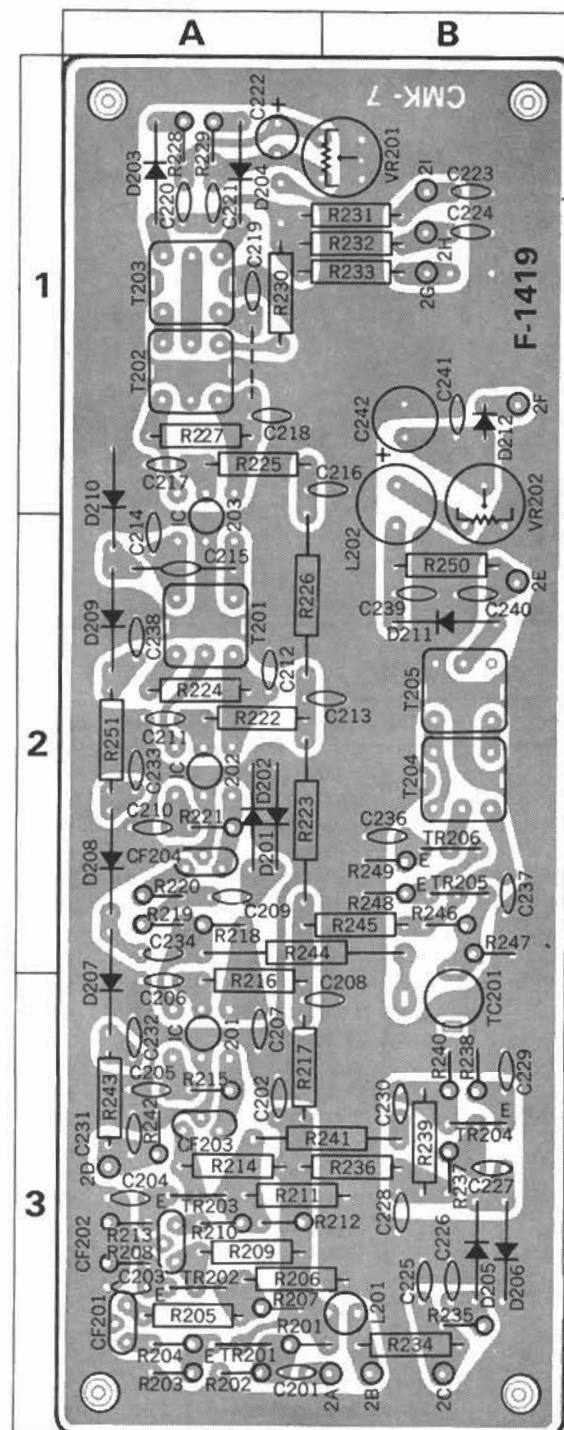


6. PARTS LOCATIONS AND PARTS LIST

6-1. F-1419A FM IF Circuit Board

(Stock No. 7520600 Complete Circuit Board F-1419A)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR201	0305571	2SC380A-0	3 A
TR202	0306113	2SC738D	3 A
TR203	0306113	2SC738D	3 A
TR204	0306112	2SC738C	3 B
TR205	0305791	2SC930D	2 B
TR206	0305791	2SC930D	2 B
IC201	0360070	μ PC555A	3 A
IC202	0360070	μ PC555A	2 A
IC203	0360070	μ PC555A	1, 2 A
D203	0311060	1N60P	1 A
D204	0311060	1N60P	1 A
D205	0310330	1N60	3 B
D206	0310330	1N60	3 B
D211	0310330	1N60	2 B
D212	0340090	DS430	1 B
CF201	0910200	SFE-10.7MD	3 A
CF202	0910200	SFE-10.7MD	3 A
CF203	0910200	SFE-10.7MD	3 A
CF204	0910200	SFE-10.7MD	2 A
T201	4235860	MTKAC-22641N	2 A
T202	4235750	MTKAC-21238QAS	1 A
T203	4235760	MTKAC-21239SBS	1 A
T204	4235840	MTKAC-22478DZK	2 B
T205	4235920	MTKAC-22558N	2 B
L201	4900100	LF43R3K (3.3 μ H)	3 B
L202	4900180	LF5333J (33mH)	1, 2 B
C201	0657102	0.001 μ F 50V	3 A
C202	0657223	0.022 μ F 50V	3 A
C203	0657223	0.022 μ F 50V	3 A
C204	0657223	0.022 μ F 50V	3 A
C205	0657223	0.022 μ F 50V	3 A
C206	0657223	0.022 μ F 50V	3 A
C207	0657223	0.022 μ F 50V	3 A
C208	0657223	0.022 μ F 50V	3 A
C211	0657223	0.022 μ F 50V	2 A
C212	0657223	0.022 μ F 50V	2 A
C213	0657223	0.022 μ F 50V	2 A, B
C214	0657223	0.022 μ F 50V	1, 2 A
C216	0657223	0.022 μ F 50V	1 A, B
C217	0657223	0.022 μ F 50V	1 A
C218	0657223	0.022 μ F 50V	1 A
C220	0660101	100pF 50V	1 A
C221	0660101	100pF 50V	1 A
C222	0512100	10 μ F 16V E.C.	1 A
C223	0660470	47pF 50V	1 B

to be continued

Abbreviations

C.R.	: Carbon Resistor	BP.E.C.:	Bi-Pola 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

F-1419A Parts List

Parts No.	Stock No.	Description	Position
C224	0657223	0.022 μ F 50V	1 B
C225	0657223	0.022 μ F 50V	3 B
C226	0657223	0.022 μ F 50V	3 B
C227	0657102	0.001 μ F 50V	3 B
C228	0657223	0.022 μ F 50V	3 B
C229	0657223	0.022 μ F 50V	3 B
C230	0669210	10pF 50V $\pm 0.25\mu$ F C.C.	3 B
C236	0657223	0.022 μ F 50V	2 B
C237	0657223	0.022 μ F 50V	2 B
C239	0657223	0.022 μ F 50V	2 B
C240	0657223	0.022 μ F 50V	2 B
C241	0657223	0.022 μ F 50V	1 B
C243	0669232	47pF 50V $\pm 10\%$ C.C.	
R201	0106682	6.8k Ω	3 A
R202	0106332	3.3k Ω	3 A
R203	0106102	1k Ω	3 A
R204	0106221	220 Ω	3 A
R205	0107101	100 Ω	3 A
R206	0107152	1.5k Ω	3 A, B
R207	0106332	3.3k Ω	3 A
R208	0106102	1k Ω	3 A
R209	0107681	680 Ω	3 A
R210	0106101	100 Ω	3 A
R211	0107152	1.5k Ω	3 A, B
R212	0106332	3.3k Ω	3 A
R213	0106102	1k Ω	3 A
R214	0107681	680 Ω	3 A
R215	0106681	680 Ω	3 A
R216	0107101	100 Ω	3 A
R217	0107100	10 Ω	3 A
R218	0106681	680 Ω	2 A
R221	0106681	680 Ω	2 A
R222	0107101	100 Ω	2 A
R223	0107100	10 Ω	2 A
R224	0107103	10k Ω	2 A
R225	0107101	100 Ω	1 A
R227	0107682	6.8k Ω	1 A
R228	0106102	1k Ω	1 A
R229	0106102	1k Ω	1 A
R230	0107100	10 Ω	1 A
R231	0107102	1k Ω	1 A, B
R232	0107183	18k Ω	1 A, B
R234	0107105	1M Ω	3 B
R235	0106333	33k Ω	3 B
R236	0107101	100 Ω	3 A, B
R237	0106222	2.2k Ω	3 B
R238	0106102	1k Ω	3 B
R239	0107473	47k Ω	3 B
R240	0106153	15k Ω	3 B
R241	0107102	1k Ω	3 A, B
R245	0107101	100 Ω	2 A, B
R246	0106473	47k Ω	2 B
R247	0106153	15k Ω	2 B
R248	0106222	2.2k Ω	2 B
R249	0106681	680 Ω	2 B
R250	0107472	4.7k Ω	2 B
R252	0106182	1.8k Ω	2 B
R253	0107681	680 Ω	2 B

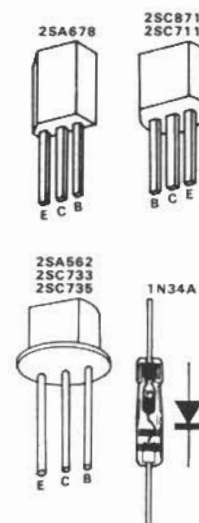
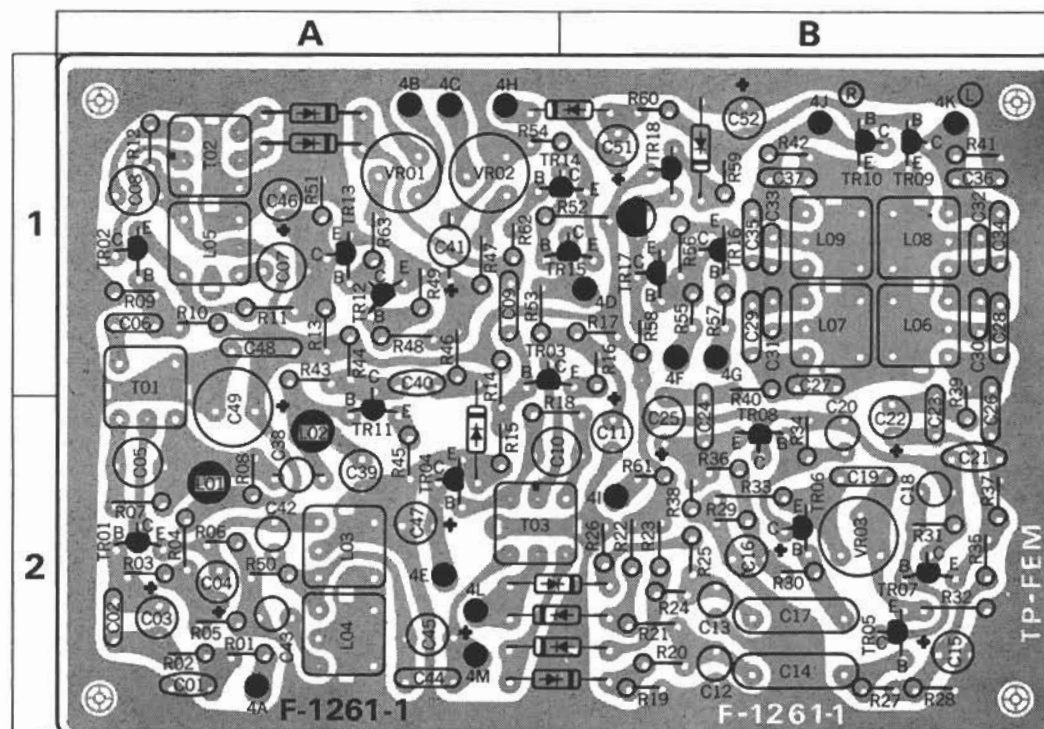
Parts No.	Stock No.	Description	Position
VR201	1035130	10k Ω (B)	1 B
VR202	1035170	47k Ω (B)	1, 2 B
	2260010	Test Pin	

Abbreviations

C.R. : Carbon Resistor	BP.E.C. : Bi-Pola 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

6-2. F-1261C FM MPX Circuit Board (Stock No. 7540760 Complete Circuit Board F-1261C)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01	0305475	2SC871 (F)	2 A	L01	4900090	2.2mH	2 A
TR02	0305731, 2	2SC711 (E, F)	1 A	L02	4900090	2.2mH	2 A
TR03	0300220, 1	2SA562 (O, Y)	1 A, B	L03	4240560	CAN1291HM2 71kHz MPX Coil	2 A
TR04	0305640, 1	2SC735 (O, Y)	2 A	L04	4240410	CAN1056HM2 67kHz MPX Coil	2 A
TR05	0305475	2SC871 (F)	2 B	L05	4240550	CAN1294AYC 19kHz MPX Coil	1 A
TR06	0305475	2SC871 (F)	2 B	L06	4240400	CAN1055HM2	1 B
TR07	0305475	2SC871 (F)	2 B	L07	4240400	CAN1055HM2	1 B
TR08	0305475	2SC871 (F)	2 B	L08	4240400	CAN1055HM2	1 B
TR09	0305370, 1	2SC733 (O, Y)	1 B	L09	4240400	CAN1055HM2	1 B
TR10	0305370, 1	2SC733 (O, Y)	1 B	C01	0660101	100pF 50V C.C.	2 A
TR11	0305731, 2	2SC711 (E, F)	1, 2 A	C02	0600107	0.01μF 50V M.C.	2 A
TR12	0305370, 1	2SC733 (O, Y)	1 A	C03	0515339	3.3μF 50V E.C.	2 A
TR13	0305731, 2	2SC711 (E, F)	1 A	C04	0515339	3.3μF 50V E.C.	2 A
TR14	0305370, 1	2SC733 (O, Y)	1 A, B	C05	0629001	6800pF 50V P.C.	2 A
TR15	0305370, 1	2SC733 (O, Y)	1 A, B	C06	0600227	0.022μF 50V M.C.	1 A
TR16	0305370, 1	2SC733 (O, Y)	1 B	C07	0629001	6800pF 50V P.C.	1 A
TR17	0305370, 1	2SC733 (O, Y)	1 B	C08	0629001	6800pF 50V P.C.	1 A
TR18	0300291, 2	2SA678 (6, 7)	1 B	C09	0600227	0.022μF 50V M.C.	1 A
TR19	0305731, 2	2SC711 (E, F)	1 B	C10	0629002	2700pF 50V P.C.	2 A, B
D01	0310400	1N34A	Diode	C11	0515339	3.3μF 50V E.C.	2 B
D02	0310400	1N34A		C12	0620821	820pF 50V P.C.	2 B
D03	0310401	1N34A (Yellow)		C13	9620821	820pF 50V P.C.	2 B
D04	0310401	1N34A (Yellow)		C14	0600228	0.22μF 50V M.C.	2 B
D05	0310401	1N34A (Yellow)		C15	0515339	3.3μF 50V E.C.	2 B
D06	0310401	1N34A (Yellow)		C16	0515339	3.3μF 50V E.C.	2 B
D07	0310400	1N34A		C17	0600228	0.22μF 50V M.C.	2 B
T01	4240520	CAN1290A 19kHz MPX Coil	1, 2 A	C18	0620102	1000pF 50V P.C.	2 B
T02	4240540	CAN1328YCB 19kHz MPX Coil	1 A	C19	0620561	560pF 50V P.C.	2 B
T03	4240530	CAN1327YCB 38kHz MPX Coil	2 A, B	C20	0620102	1000pF 50V P.C.	2 B
				C21	0657473	0.047μF 50V C.C.	2 B

to be continued

F-1261C Parts List

Parts No.	Stock No.	Description	Position
C22	0573339	3.3 μ F 25V	T.C. 2 B
C23	0600227	0.022 μ F 50V	M.C. 1, 2 B
C24	0600227	0.022 μ F 50V	
C25	0573339	3.3 μ F 25V	T.C. 2 B
C26	0600686	0.0068 μ F 50V	M.C. 1, 2 B
C27	0600686	0.0068 μ F 50V	
C28	0620561	560pF 50V	P.C. 1 B
C29	0620561	560pF 50V	
C30	0600226	0.0022 μ F 50V	1 B
C31	0600226	0.0022 μ F 50V	1 B
C32	0600226	0.0022 μ F 50V	1 B
C33	0600226	0.0022 μ F 50V	M.C. 1 B
C34	0600226	0.0022 μ F 50V	
C35	0600226	0.0022 μ F 50V	1 B
C36	0600226	0.0022 μ F 50V	1 B
C37	0600226	0.0022 μ F 50V	1 B
C38	0620221	220pF 50V	P.C. 2 A
C39	0620472	4700pF 50V	
C40	0657103	0.01 μ F 50V	C.C. 1 A
C41	0573688	0.68 μ F 25V	T.C. 1 A
C42	0620222	2200pF 50V	P.C. 2 A
C43	0620271	270pF 50V	
C44	0600227	0.022 μ F 50V	M.C. 2 A
C45	0513100	10 μ F 25V	2 A
C46	0515109	1 μ F 50V	E.C. 1 A
C47	0512100	10 μ F 16V	
C48	0600108	0.1 μ F 50V	M.C. 1 A
C49	0513101	100 μ F 25V	E.C. 1, 2 A
C53	0512100	10 μ F 16V	
C54	0600227	0.022 μ F 50V	M.C.
C55	0573109	1 μ F 25V	T.C.
R01	0106102	1k Ω	2 A
R02	0106102	1k Ω	2 A
R03	0106104	100k Ω	2 A
R04	0106104	100k Ω	2 A
R05	0106223	22k Ω	2 A
R06	0106222	2.2k Ω	2 A
R07	0106333	33k Ω	2 A
R08	0106103	10k Ω	2 A
R09	0106123	12k Ω	1 A
R10	0106104	100k Ω	1 A
R11	0106102	1k Ω	1 A
R12	0106333	33k Ω	1 A
R13	0106473	47k Ω	1 A
R14	0106104	100k Ω	1, 2 A
R15	0106104	100k Ω	2 A
R16	0106181	180 Ω	$\pm 5\% \frac{1}{4}W$ C.R. (E.L.R.) 1 B
R17	0106182	1.8k Ω	
R18	0106223	22k Ω	2 A, B
R19	0106334	330k Ω	2 B
R20	0106472	4.7k Ω	2 B
R21	0106472	4.7k Ω	2 B
R22	0106334	330k Ω	2 B
R23	0106334	330k Ω	2 B
R24	0106472	4.7k Ω	2 B
R25	0106472	4.7k Ω	2 B
R26	0106334	330k Ω	2 B
R27	0106104	100k Ω	2 B
R28	0106333	33k Ω	2 B
R29	0106333	33k Ω	2 B
R30	0106104	100k Ω	2 B
R31	0106563	56k Ω	2 B

Parts No.	Stock No.	Description	Position
R32	0106562	5.6k Ω	2 B
R33	0106562	5.6k Ω	2 B
R34	0106563	56k Ω	
R35	0106104	100k Ω	2 B
R36	0106104	100k Ω	2 B
R37	0106392	3.9k Ω	2 B
R38	0106392	3.9k Ω	2 B
R39	0106472	4.7k Ω	1, 2 B
R40	0106472	4.7k Ω	1 B
R41	0106562	5.6k Ω	1 B
R42	0106562	5.6k Ω	1 B
R43	0106105	1M Ω	1 A
R44	0106332	3.3k Ω	1 A
R45	0106680	68 Ω	2 A
R46	0106332	3.3k Ω	$\pm 5\% \frac{1}{4}W$ C.R. (E.L.R.) 1 A
R47	0106224	220k Ω	
R48	0106224	220k Ω	1 A
R49	0106473	47k Ω	1 A
R50	0106222	2.2k Ω	2 A
R51	0106473	47k Ω	1 A
R52	0106473	47k Ω	1 A, B
R53	0106821	820 Ω	1 A
R54	0106560	56 Ω	1 A, B
R55	0106473	47k Ω	1 B
R57	0106473	47k Ω	1 B
R58	0106103	10k Ω	1 B
R59	0106472	4.7k Ω	1 B
R61	0106470	47 Ω	2 B
R62	0106473	47k Ω	1 A
R63	0106473	47k Ω	1 A
R64	0107153	15k Ω	$\pm 5\% \frac{1}{4}W$ C.R. (E.L.R.)
R65	0106103	10k Ω	
R66	0107222	2.2k Ω	$\pm 5\% \frac{1}{4}W$ C.R. (E.L.R.)
R67	0107222	2.2k Ω	
R68	0106560	56 Ω	$\pm 5\% \frac{1}{4}W$ C.R. (E.L.R.)
VR01	1035210	220k Ω (B)	Semi-Variable 1 A
VR02	1035170	47k Ω (B)	Resistor (Solid Type) 1 A
	2260010	Test Pin	

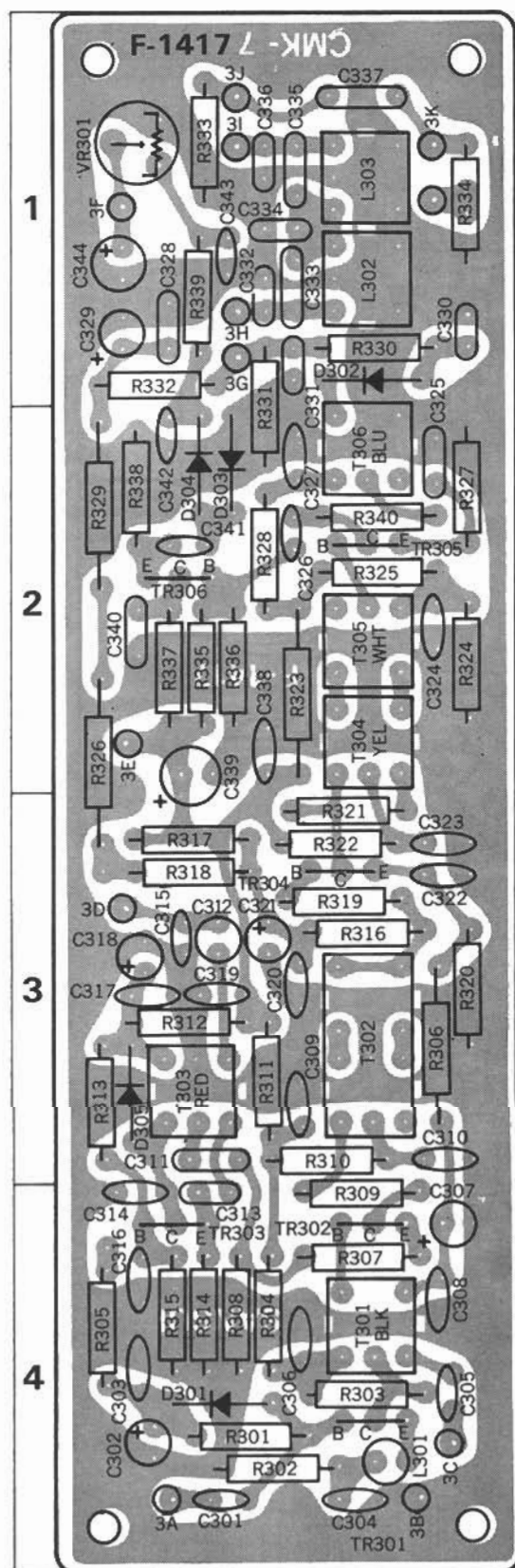
Abbreviations

C.R. : Carbon Resistor	BP.E.C. : Bi-Pola 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

6-3. F-1417D AM Circuit Board

(Stock No. 7530270 Complete Circuit Board F-1417D)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR301	0305992	2SC403C(4)	4
TR302	0305992	2SC403C(4)	4
TR303	0305991	2SC403C(3)	4
TR304	0305992	2SC403C(4)	3
TR305	0305992	2SC403C(4)	2
TR306	0305991	2SC403C(3)	2
D301	0310332	1N60	4
D302	0311090	1S1007	1
D303	0310332	1N60	2
D304	0310332	1N60	2
T301	4210180	1G-054 AM RF Coil	4
T302	0910180	YEL-455E2 Ceramic Filter	3
T303	4220480	2G-017 AM OSC Coil	3
T304	4230590	1G-058 AM IF Coil	2
T305	4230600	1G-059 AM IF Coil	2
T306	4230580	2G-006 AM IF Coil	2
L301	4900100	3.3μH Ferri-Inductor	4
L302	4290200	59mH Filter Coil	1
L303	4290200	59mH Filter Coil	1
R301	0107103	10kΩ	4
R302	0107102	1kΩ	4
R303	0107332	3.3kΩ	4
R304	0107101	100Ω	4
R305	0107103	10kΩ	4
R306	0107103	10kΩ	3
R307	0107220	22Ω	4
R308	0107102	1kΩ	4
R309	0107471	470Ω	4
R310	0107101	100Ω	3
R311	0107470	47Ω	3
R312	0107102	1kΩ	3
R313	0107223	22kΩ	3
R314	0107102	1kΩ	4
R315	0107332	3.3kΩ	4
R316	0107102	1kΩ	3
R317	0107154	150kΩ	3
R318	0107562	5.6kΩ	3
R319	0107103	10kΩ	3
R320	0107152	1.5kΩ	3
R321	0107104	100kΩ	3
R322	0107101	100Ω	3
R323	0107470	47Ω	2
R324	0107472	4.7kΩ	2
R325	0107103	10kΩ	2
R326	0107182	1.8kΩ	2, 3
R327	0107102	1kΩ	2
R328	0107101	100Ω	2
R329	0107182	1.8kΩ	2
R330	0107102	1kΩ	1
R331	0107103	10kΩ	1, 2
R332	0107183	1.8kΩ	1
R333	0107103	10kΩ	1
R335	0107153	1.5kΩ	2
R336	0107223	22kΩ	2
R337	0107101	100Ω	2
R338	0107222	2.2kΩ	2
R339	0107102	1kΩ	1
R340	0107101	100Ω	2

to be continued

F-1417D Parts List

Parts No.	Stock No.	Description	Position
R341	0106682	6.8k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	
R342	0106473	47k Ω (E.L.R.)	
R343	0107829	8.2 Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	
C301	0657223	0.022 μ F 50V C.C.	4
C302	0515109	1 μ F 50V E.C.	4
C303	0657473	0.047 μ F 50V	4
C304	0657473	0.047 μ F 50V	4
C305	0657223	0.022 μ F 50V	4
C306	0657473	0.047 μ F 50V	4
C307	0515109	1 μ F 50V E.C.	4
C308	0657473	0.047 μ F 50V	4
C309	0657473	0.047 μ F 50V	3
C310	0657473	0.047 μ F 50V	3
C311	0601107	0.01 μ F 50V M.C.	3
C312	0620471	470 pF 50V P.C.	3
C313	0601107	0.01 μ F 50V M.C.	4
C314	0660100	10 pF 50V	4
C315	0660150	15 pF 50V	3
C316	0657473	0.047 μ F 50V	4
C317	0657473	0.047 μ F 50V	3
C318	0512100	10 μ F 16V E.C.	3
C319	0657473	0.047 μ F 50V	3
C320	0657473	0.047 μ F 50V	3
C321	0515109	1 μ F 50V E.C.	3
C322	0657473	0.047 μ F 50V	3
C323	0657473	0.047 μ F 50V	3
C324	0657473	0.047 μ F 50V	2
C325	0657473	0.047 μ F 50V	2
C326	0660470	47 pF 50V	2
C327	0657473	0.047 μ F 50V	2
C328	0657473	0.047 μ F 50V	1
C329	0513479	4.7 μ F 25V E.C.	1
C330	0601476	0.0047 μ F 50V	1
C332	0601107	0.01 μ F 50V	1
C333	0601476	0.0047 μ F 50V	1
C334	0601107	0.01 μ F 50V	1
C335	0601107	0.01 μ F 50V	1
C336	0601107	0.01 μ F 50V	1
C337	0601477	0.047 μ F 50V	1
C338	0657473	0.047 μ F 50V C.C.	2
C339	0512470	47 μ F 16V E.C.	2, 3
C340	0657473	0.047 μ F 50V	2
C341	0657223	0.022 μ F 50V	2
C342	0657223	0.022 μ F 50V	2
C343	0657223	0.022 μ F 50V	1
VR301	1035130	10k Ω (B) Semi-Variable Resistor	1
	2260010	} Test Pin	
	2260020		

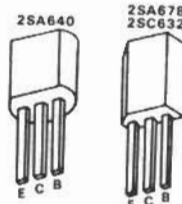
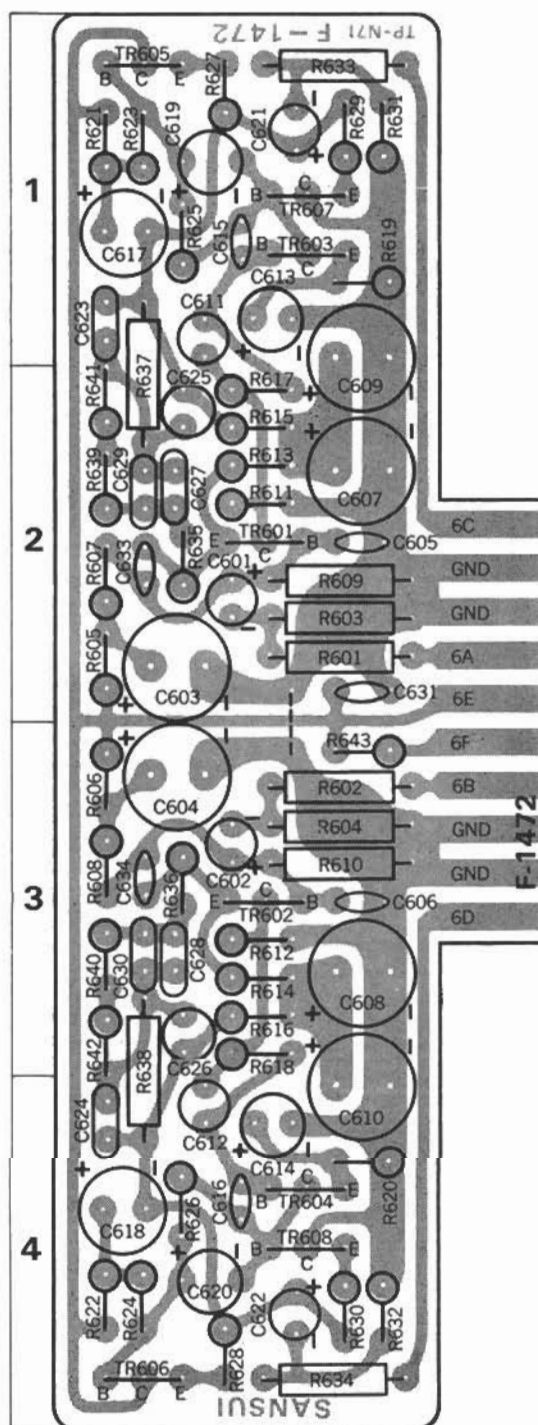
Abbreviations

C.R. : Carbon Resistor	BP.E.C. : Bi-Pola 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

6-4. F-1472 Equalizer Circuit Board

(Stock No. 7550510 Complete Circuit Board F-1472)

Conductor Side



Parts List

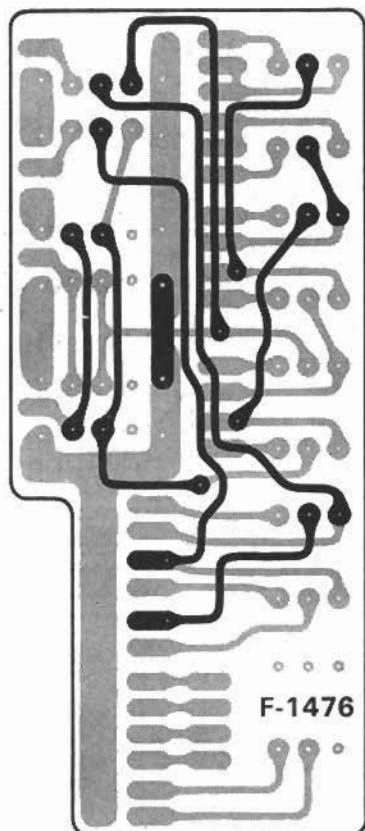
Parts No.	Stock No.	Description	Position
TR601	0300303	2SA640 (K)	2
TR602	0300303	2SA640 (K)	3
TR603	0305766	2SC632A (71 White)	1
TR604	0305766	2SC632A (71 White)	4
TR605	0305761	2SC632A (71)	1
TR606	0305761	2SC632A (71)	4
TR607	0300292	2SA678 (7)	1
TR608	0300292	2SA678 (7)	4
C601	0573229	2.2 μ F 25V	2
C602	0573229	2.2 μ F 25V	3
C603	0515330	33 μ F 50V	2
C604	0515330	33 μ F 50V	3
C605	0660330	33pF 50V	2
C606	0660330	33pF 50V	3
C607	0513470	47 μ F 25V	2
C608	0513470	47 μ F 25V	3
C609	0513470	47 μ F 25V	1, 2
C610	0513470	47 μ F 25V	3, 4
C611	0620681	680pF 50V	1
C612	0620681	680pF 50V	4
C613	0511330	33 μ F 10V	1
C614	0511330	33 μ F 10V	4
C615	0660220	22pF 50V	1
C616	0660220	22pF 50V	4
C617	0515100	10 μ F 50V	1
C618	0515100	10 μ F 50V	4
C619	0511330	33 μ F 10V	1
C620	0511330	33 μ F 10V	4
C621	0519101	1 μ F 50V	1
C622	0519101	1 μ F 50V	4
C623	0600226	0.0022 μ F 50V	1
C624	0600226	0.0022 μ F 50V	4
C625	0620751	750pF 50V	2
C626	0620751	750pF 50V	3
C629	0600107	0.01 μ F 50V	2
C630	0600107	0.01 μ F 50V	3
C631	0657223	0.022 μ F 50V	2
R601	0107222	2.2k Ω	2
R602	0107222	2.2k Ω	3
R603	0107683	68k Ω	2
R604	0107683	68k Ω	3
R605	0106184	180k Ω	2
R606	0106184	180k Ω	3
R607	0106334	330k Ω	2
R608	0106334	330k Ω	3
R609	0107394	390k Ω	2
R610	0107394	390k Ω	3
R611	0106223	22k Ω	2
R612	0106223	22k Ω	3
R613	0106821	820 Ω	2
R614	0106821	820 Ω	3
R615	0106563	56k Ω	2
R616	0106563	56k Ω	3
R617	0106224	220k Ω	2
R618	0106224	220k Ω	3
R619	0106222	2.2k Ω	1
R620	0106222	2.2k Ω	4
R621	0106103	10k Ω	1
R622	0106103	10k Ω	4
R623	0106473	47k Ω	1

Parts No.	Stock No.	Description	Position
R624	0106473	47k Ω	4
R625	0106332	3.3k Ω	1
R626	0106332	3.3k Ω	4
R627	0106680	68 Ω	1
R628	0106680	68 Ω	4
R629	0106680	68 Ω	1
R630	0106680	68 Ω	4
R631	0106104	100k Ω	1
R632	0106104	100k Ω	4
R633	0107681	680 Ω	1
R634	0107681	680 Ω	4
R635	0106101	100 Ω	2
R636	0106101	100 Ω	3
R637	0107273	27k Ω	1, 2
R638	0107273	27k Ω	3, 4
R639	0106274	270k Ω	2
R640	0106274	270k Ω	3
R641	0106223	22k Ω	2
R642	0106223	22k Ω	3
R643	0106101	100 Ω	3

6-5. Special Parts List in FM Frontend

Parts No.	Stock No.	Description
TR101	0305410	SE3001 Transistor
FET101	0370080	3SK39 (Q)
	or	
	0370081	3SK39 (R)
FET102	0370080	3SK39 (Q)
	or	
	0370081	3SK39 (R)
FET103	0370080	3SK39 (Q)
	or	
	0370081	3SK49 (R)

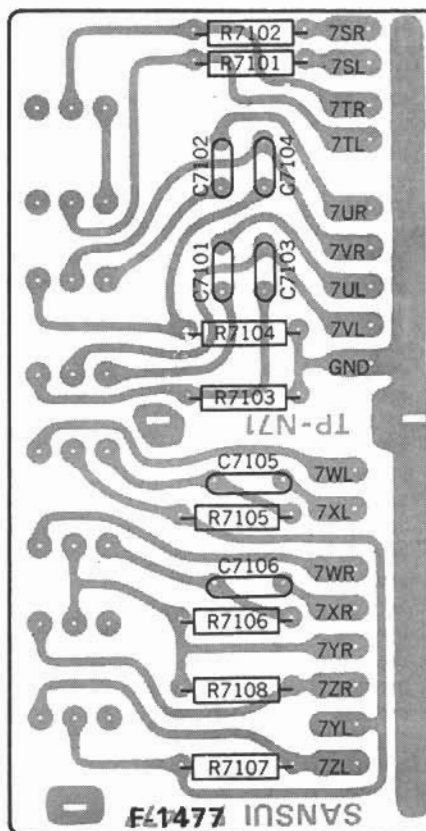
6-6. F-1476 Accessory Switch Circuit Board (Stock No. 7591650 Complete Circuit Board F-1476) Conductor Side



Parts List

Parts No.	Stock No.	Description
S3	1130310	Push Switch (5 Stage)
S4		
S5		
S6		
S7		
S3	1110210	Push Switch
S4	1110210	Push Switch
S5	1110210	Push Switch

6-7. F-1477 Accessory Switch Circuit Board (Stock No. 7591660 Complete Circuit Board F-1477) Conductor Side



Parts List

Parts No.	Stock No.	Description
C7101	0640391	390 pF 50V
C7102	0640391	390 pF 50V
C7103	0600227	0.022 μ F 50V
C7104	0600227	0.022 μ F 50V
R7101	0107103	10k Ω
R7102	0107103	10k Ω
R7103	0107223	22k Ω
R7104	0107223	22k Ω
R7105	0107474	470k Ω
R7106	0107474	470k Ω
R7107	0107474	470k Ω
R7108	0107474	470k Ω
S8	1130300	Push Switch (4 Stage)
S9		
S10		
S11		

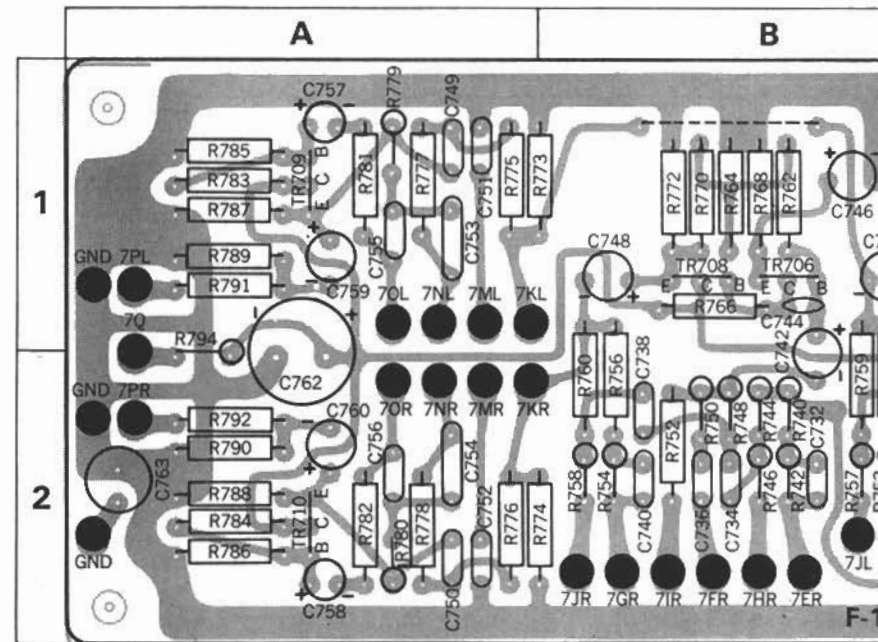
6-8. F-1473 Tone Control Circuit

Board (Stock No. 7560700 Complete Circuit Board F-1473)

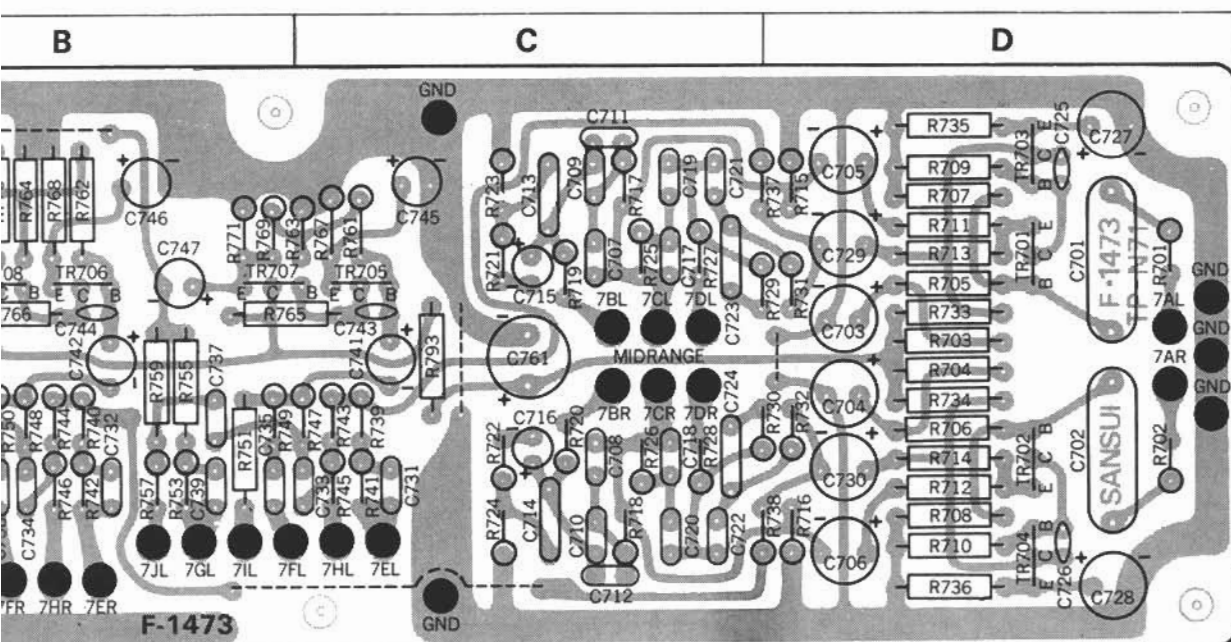
Parts List

Parts No.	Stock No.	Description	Position
TR701	0300305	2SA640 (L)	1 D
TR702	0300305	2SA640 (L)	2 D
TR703	0305766	2SC632A (71 White)	1 D
TR704	0305766	2SC632A (71 White)	2 D
TR705	0305761	2SC632A (71)	1 C
TR706	0305761	2SC632A (71)	1 B
TR707	0305761	2SC632A (71)	1 B, C
TR708	0305761	2SC632A (71)	1 B
TR709	0305761	2SC632A (71)	1 A
TR710	0305761	2SC632A (71)	2 A
Transistor			
C701	0601478	0.47 μ F 50V	1 D
C702	0601478	0.47 μ F 50V	2 D
C703	0515100	10 μ F 50V	1 D
C704	0515100	10 μ F 50V	2 D
C705	0519001	10 μ F 25V	1 D
C706	0519001	10 μ F 25V	2 D
C707	0600107	0.01 μ F 50V	1 C
C708	0600107	0.01 μ F 50V	2 C
C709	0600127	0.012 μ F 50V	1 C
C710	0600127	0.012 μ F 50V	2 C
C711	0600156	0.0015 μ F 50V	1 C
C712	0600156	0.0015 μ F 50V	2 C
C713	0600158	0.15 μ F 50V	1 C
C714	0600158	0.15 μ F 50V	2 C
C715	0573478	0.47 μ F 25V	1 C
C716	0573478	0.47 μ F 25V	2 C
C717	0600106	0.001 μ F 50V	1 C
C718	0600106	0.001 μ F 50V	2 C
C719	0600156	0.0015 μ F 50V	1 C
C720	0600156	0.0015 μ F 50V	2 C
C721	0600157	0.015 μ F 50V	1 C
C722	0600157	0.015 μ F 50V	2 C
C723	0600477	0.047 μ F 50V	1 C
C724	0600477	0.047 μ F 50V	2 C
C725	0660330	33pF 50V	1 D
C726	0660330	33pF 50V	2 D
C727	0510331	330 μ F 6.3V	1 D
C728	0510331	330 μ F 6.3V	2 D
C729	0513330	33 μ F 25V	1 D
C730	0513330	33 μ F 25V	2 D
C731	0600107	0.01 μ F 50V	2 C
C732	0600107	0.01 μ F 50V	2 B
C733	0600157	0.015 μ F 50V	2 C
C734	0600157	0.015 μ F 50V	2 B
C735	0600107	0.01 μ F 50V	2 B
C736	0600107	0.01 μ F 50V	2 B
C737	0600157	0.015 μ F 50V	2 B
C738	0600157	0.015 μ F 50V	2 B
C739	0600107	0.01 μ F 50V	2 B
C740	0600107	0.01 μ F 50V	2 B
C741	0515339	3.3 μ F 50V	1, 2 C
C742	0515339	3.3 μ F 50V	1, 2 B
C743	0660101	100pF 50V	1 C
C744	0660101	100pF 50V	1 B
C745	0511330	33 μ F 10V	1 C
C746	0511330	33 μ F 10V	1 B
C747	0573229	2.2 μ F 25V	1 B
C748	0573229	2.2 μ F 25V	1 B

Conductor Side



Parts No.	Stock No.	Description	Position	Parts No.
C749	0600127	0.012 μ F 50V	1 A	R723
C750	0600127	0.012 μ F 50V	2 A	R724
C751	0600686	0.0068 μ F 50V	1 A	R725
C752	0600686	0.0068 μ F 50V	2 A	R726
C753	0600827	0.082 μ F 50V	1 A	R727
C754	0600827	0.082 μ F 50V	2 A	R728
C755	0600397	0.039 μ F 50V	1 A	R729
C756	0600397	0.039 μ F 50V	2 A	R730
C757	0573109	1 μ F 25V	1 A	R731
C758	0573109	1 μ F 25V	2 A	R732
C759	0573339	3.3 μ F 25V	1 A	R733
C760	0573339	3.3 μ F 25V	2 A	R734
C761	0513101	100 μ F 25V	1, 2 C	R735
C762	0513221	220 μ F 25V	1, 2 A	R736
C763	0530470	47 μ F 6.3V BP. E.C.	2 A	R737
R701	0106222	2.2k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R. (E.L.R.)	1 D	R738
R702	0106222	2.2k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R. (E.L.R.)	2 D	R739
R703	0107224	220k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	1 D	R740
R704	0107224	220k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	2 D	R741
R705	0107105	1M Ω	1 D	R742
R706	0107105	1M Ω	2 D	R743
R707	0107184	180k Ω	1 D	R744
R708	0107184	180k Ω	2 D	R745
R709	0107103	10k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	1 D	R746
R710	0107103	10k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	2 D	R747
R711	0107479	4.7 Ω	1 D	R748
R712	0107479	4.7 Ω	2 D	R749
R713	0107683	68k Ω	1 D	R750
R714	0107683	68k Ω	2 D	R751
R715	0106682	6.8k Ω	1 D	R752
R716	0106682	6.8k Ω	2 D	R753
R717	0106471	470 Ω	1 C	R754
R718	0106471	470 Ω $\pm 5\%$ $\frac{1}{4}$ W C.R. (E.L.R.)	2 C	R755
R719	0106102	1k Ω	1 C	R756
R720	0106102	1k Ω	2 C	R757
R721	0106333	33k Ω	1 C	R758
R722	0106333	33k Ω	2 C	R759
				R760



2SA640



2SC632

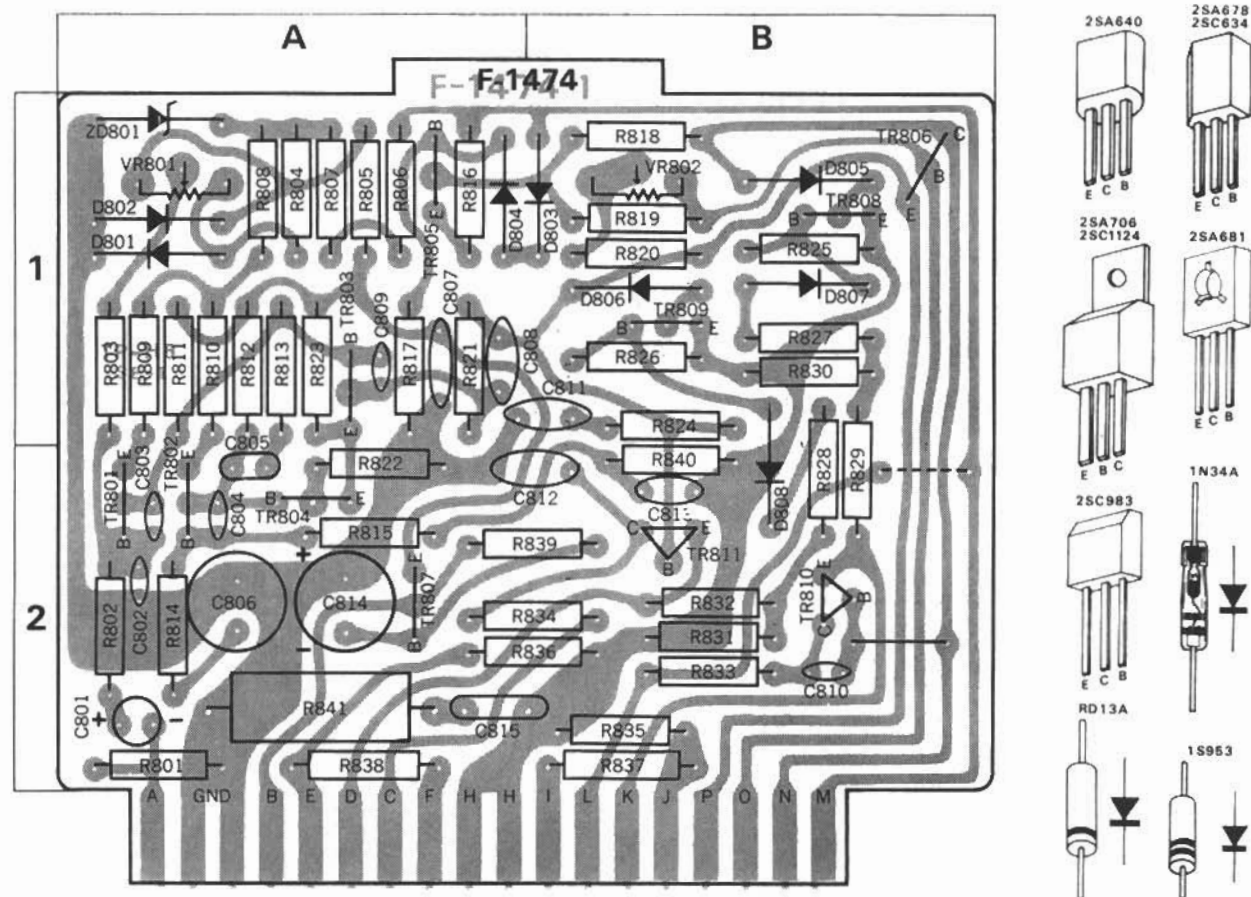


Parts No.	Stock No.	Description	Position
R723	0106152	1.5k Ω	1C
R724	0106152	1.5k Ω	2C
R725	0106472	4.7k Ω	1C
R726	0106472	4.7k Ω	2C
R727	0106822	8.2k Ω	1C
R728	0106822	8.2k Ω	2C
R729	0106334	330k Ω	1C, D
R730	0106334	330k Ω	2C, D
R731	0106153	15k Ω	1D
R732	0106153	15k Ω	2D
R733	0107392	3.9k Ω	1D
R734	0107392	3.9k Ω	2D
R735	0107101	100 Ω	1D
R736	0107101	100 Ω	2D
R737	0106330	33 Ω	1C, D
R738	0106330	33 Ω	2C, D
R739	0106102	1k Ω	2C
R740	0106102	1k Ω	2B
R741	0106224	220k Ω	2C
R742	0106224	220k Ω	2B
R743	0106123	12k Ω	2C
R744	0106123	12k Ω	2B
R745	0106152	1.5k Ω	2C
R746	0106152	1.5k Ω	2B
R747	0106472	4.7k Ω	2C
R748	0106472	4.7k Ω	2B
R749	0106102	1k Ω	2B
R750	0106102	1k Ω	2B
R751	0107332	3.3k Ω	2B
R752	0107332	3.3k Ω	2B
R753	0106224	220k Ω	2B
R754	0106224	220k Ω	2B
R755	0107102	1k Ω	1, 2B
R756	0107102	1k Ω	1, 2B
R757	0106332	3.3k Ω	2B
R758	0106332	3.3k Ω	2B
R759	0107123	12k Ω	1, 2B
R760	0107123	12k Ω	1, 2B

Parts No.	Stock No.	Description	Position
R761	0106104	100k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1C
R762	0107104	100k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1B
R763	0106683	68k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1C
R764	0107683	68k Ω	1B
R765	0107333	33k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1B, C
R766	0107333	33k Ω	1B
R767	0106222	2.2k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1C
R768	0107222	2.2k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1B
R769	0106474	470k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1B
R770	0107474	470k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1B
R771	0106472	4.7k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1B
R772	0107472	4.7k Ω	1B
R773	0107104	100k Ω	1A, B
R774	0107104	100k Ω	2A, B
R775	0107122	1.2k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1A
R776	0107122	1.2k Ω	2A
R777	0107332	3.3k Ω	1A
R778	0107332	3.3k Ω	2A
R779	0106223	22k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1A
R780	0106223	22k Ω	2A
R781	0107102	1k Ω	1A
R782	0107102	1k Ω	2A
R783	0107104	100k Ω	1A
R784	0107104	100k Ω	2A
R785	0107184	180k Ω	1A
R786	0107184	180k Ω	2A
R787	0107472	4.7k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1A
R788	0107472	4.7k Ω	2A
R789	0107104	100k Ω	1A
R790	0107104	100k Ω	2A
R791	0107100	10 Ω	1A
R792	0107100	10 Ω	2A
R793	0107101	100 Ω	1, 2C
R794	0106470	47 Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	1, 2A

6-9. F-1474 Driver Circuit Board (Stock No. 7570730 Complete Circuit Board F-1474)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR801	0300305	2SA640 (L)	2 A
TR802	0300305	2SA640 (L)	2 A
TR803	0306020, 1	2SC983 (R, O)	1 A
TR804	0306020, 1	2SC983 (R, O)	2 A
TR805	0300530, 1	2SA681 (O, Y)	1 A
TR807	0300291, 2	2SA678 (6, 7)	2 A
TR808	0305891, 2	2SC634A (6, 7)	1 B
TR809	0300291, 2	2SA678 (6, 7)	1 B
TR810	0305901, 2	2SC1124 (2, 3)	2 B
TR811	0300401, 2	2SA706 (2, 3)	2 B
D801	0311050	1S953	1 A
D802	0311050	1S953	1 A
D803	0311050	1S953	1 B
D804	0311050	1S953	1 A
D805	0311050	1S953	1 B
D806	0311050	1S953	1 B
D807	0310400	1N34A	1 B
D808	0310400	1N34A	1, 2 B
ZD801	0315290	RD13A (L) Zener Diode	1 A
C801	0573109	1 μ F 25V T.C.	2 A
C802	0660470	47 μ F 50V	2 A
C804	0660100	100pF 50V	2 A
C805	0600106	0.001 μ F 50V M.C.	2 A

Parts No.	Stock No.	Description	Position
C806	0531101	100 μ F 10V BP. E.C.	2 A
C807	0657473	0.047 μ F 50V	1 A
C808	0657223	0.022 μ F 50V	1 A
C809	0660330	33pF 50V	1 A
C810	0660470	47pF 50V	2 B
C811	0657473	0.047 μ F 50V	1 A, B
C812	0657473	0.047 μ F 50V	2 A, B
C813	0660100	10pF 50V	2 B
C814	0515330	33 μ F 50V E.C.	2 A
C815	0600108	0.1 μ F 50V M.C.	2 A, B
R801	0107684	680k Ω	2 A
R802	0107332	3.3k Ω	2 A
R803	0107124	120k Ω	1 A
R804	0107822	8.2k Ω	1 A
R805	0107473	47k Ω	1 A

to be continued

Abbreviations

C.R.	: Carbon Resistor	BP.E.C.:	Bi-Pola Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic Capacitor
Ce.R.	: Cement Resistor	Mi.C.	: Metallized Film 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

F-1474 Parts List

Parts No.	Stock No.	Description	Position
R806	0107392	3.9k Ω	1 A
R807	0107392	3.9k Ω	1 A
R808	0107822	8.2k Ω	1 A
R809	0107680	68 Ω	1 A
R810	0107680	68 Ω	1 A
R811	0107682	6.8k Ω	1 A
R812	0107682	6.8k Ω	1 A
R813	0107682	6.8k Ω	1 A
R814	0107332	3.3k Ω $\pm 5\%$ $\frac{1}{4}W$ C.R.	2 A
R815	0107183	18k Ω	2 A
R816	0107151	150 Ω	1 A
R817	0107473	47k Ω	1 A
R818	0107390	39 Ω	1 B
R819	0107822	8.2k Ω	1 B
R820	0107152	1.5k Ω	1 B
R821	0107101	100 Ω	1 A
R822	0107101	100 Ω	2 A
R823	0191471	470 Ω $\pm 5\%$ $\frac{1}{4}W$ F.R.	1 A
R825	0107271	270 Ω	1 B
R826	0107271	270 Ω	1 B
R827	0107470	47 Ω	1 B
R828	0107470	47 Ω	1, 2 B
R829	0107471	470 Ω	1, 2 B
R830	0107680	68 Ω	1 B
R831	0107680	68 Ω $\pm 5\%$ $\frac{1}{4}W$ C.R.	2 B
R832	0107471	470 Ω	2 B
R833	0107220	22 Ω	2 B
R834	0107220	22 Ω	2 A, B
R835	0107101	100 Ω	2 B
R836	0107101	100 Ω	2 A, B
R837	0171100	10 Ω	2 B
R838	0171100	10 Ω $\pm 10\%$ 1W M.R.	2 A
R839	0107472	4.7k Ω	2 A, B
R840	0107823	82k Ω	2 B
R841	0132100	10 Ω $\pm 10\%$ 2W Ce.R.	2 A
R842	0106220	22 Ω $\pm 5\%$ $\frac{1}{4}W$ C.R. (E.L.R.)	2 B
VR801	1033091	5k Ω (B) Semi-variable Resistor	1 A
VR802	1033051	1k Ω (B) (Stand Type)	1 B

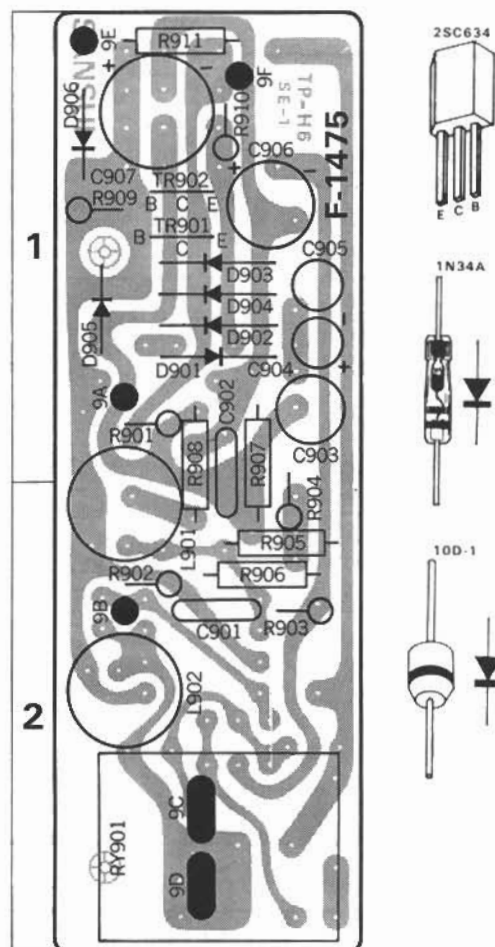
Abbreviations

C.R. : Carbon Resistor	BP.E.C.: Bi-Pola 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

6-10 F-1475 Protector Circuit Board

(Stock No. 7598120 Complete Circuit Board F-1475)

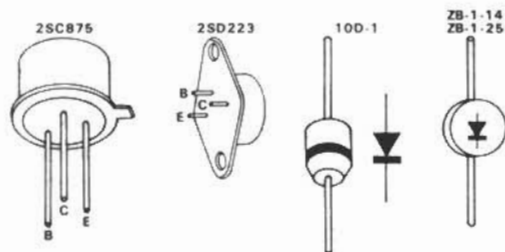
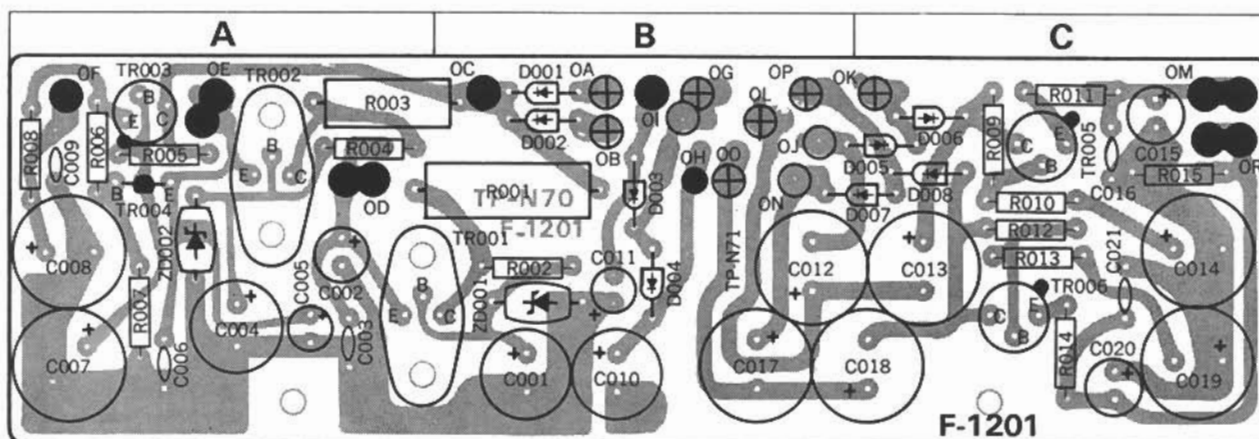
Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR901	0305891, 2	2SC634A(6, 7)	Transistor
TR902	0305891, 2	2SC634A(6, 7)	
D901	0310400	1N34A	Diode
D902	0310400	1N34A	
D903	0310400	1N34A	
D904	0310400	1N34A	
D905	0310340	10D-1	
D906	0310340	10D-1	
L901	4290210	2.5 μ H	Inductor
L902	4290210	2.5 μ H	
C901	0600477	0.047 μ F 50V	M.C.
C902	0600477	0.047 μ F 50V	
C903	0530470	57 μ F 6.3V	BP.E.C.
C904	0515109	1 μ F 50V	E.C.
C905	0535109	1 μ F 50V	BP.E.C.
C906	0510221	220 μ F 6.3V	E.C.
C907	0515101	100 μ F 50V	

6-11. F-1201A Power Supply Circuit Board (Stock No. 7500800 Complete Circuit Board F-1201A) Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
TR001	0308230, 2	2SD223(O,Y,G)	Transistor A, B
TR002	0308230, 2	2SD223(O,Y,G)	
TR003	0305981, 2	2SC875(E,F)	
D001	0310340	10D-1	Diode B
D002	0310340	10D-1	
D004	0310340	10D-1	
D007	0310340	10D-1	
D008	0310340	10D-1	
ZD001	0315071	ZB-1-14	Zener Diode B
ZD002	0315080	ZB-1-25	
C001	0512331	330 μ F 16V	E.C. B
C002	0512470	47 μ F 16V	
C003	0657473	0.047 μ F 50V	C.C. A
C004	0513221	220 μ F 25V	
C005	0513100	10 μ F 25V	E.C. A
C006	0657473	0.047 μ F 50V	
C007	0519301	100 μ F 75V	E.C. A
C008	0519301	100 μ F 75V	
C009	0657473	0.047 μ F 50V	C.C. A
C010	0511331	330 μ F 10V	
C017	0510102	1000 μ F 6.3V	E.C. B
C018	0510102	1000 μ F 6.3V	
C019	0519301	100 μ F 75V	C
C021	0651333	0.033 μ F 75V	
R001	0185391	390 Ω $\pm 10\%$ 5W Ce.R.	A, B
R002	0107152	1.5k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	
R003	0132101	100 Ω $\pm 10\%$ 2W Ce.R.	A, B
R004	0107392	3.9k Ω	
R005	0107472	4.7k Ω $\pm 5\%$ $\frac{1}{4}$ W C.R.	A
R008	0107101	100 Ω	
R014	0192680	68 Ω $\pm 5\%$ $\frac{1}{2}$ W	C
		Fuse Resistor	

F-1475 Part List

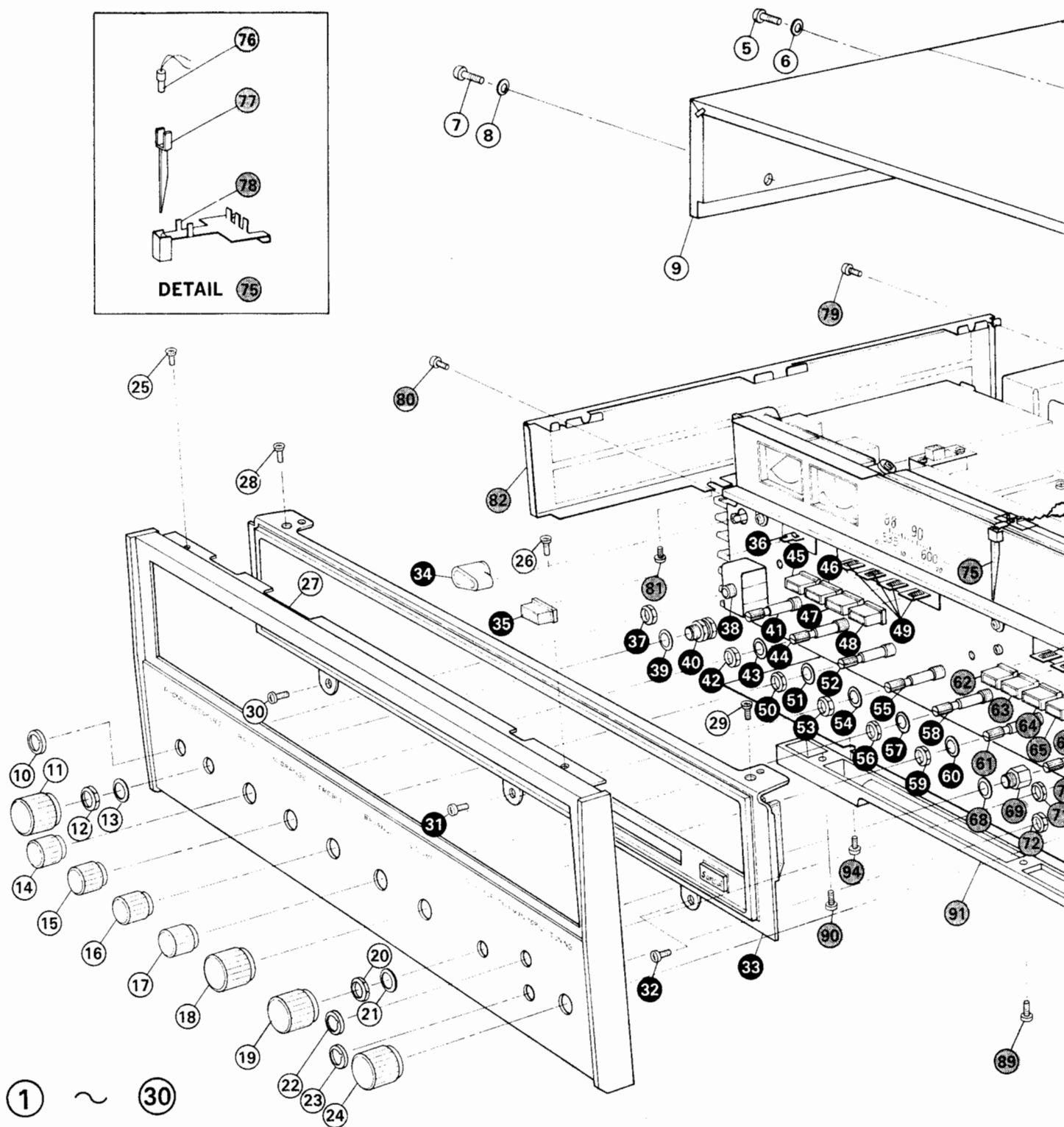
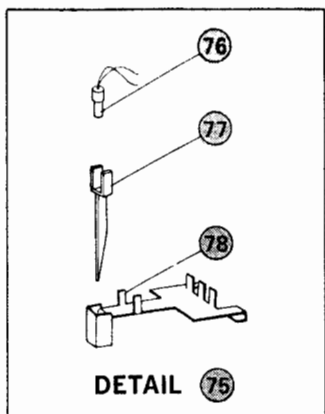
Parts No.	Stock No.	Description	Position
R901	0103689	6.8 Ω	1
R902	0103689	6.8 Ω	
R903	0103100	10 Ω	2
R904	0103100	10 Ω	
R905	0107332	3.3k Ω	2
R906	0107332	3.3k Ω	
R907	0107473	47k Ω	1, 2
R908	0107473	47k Ω	
R909	0106823	82k Ω	1
R910	0106562	5.6k Ω (E.L.R.)	
R911	0107100	10 Ω	1
RY001	1150101	MY4-0US-SA Relay	2

6-12. Other Parts (Front Side)

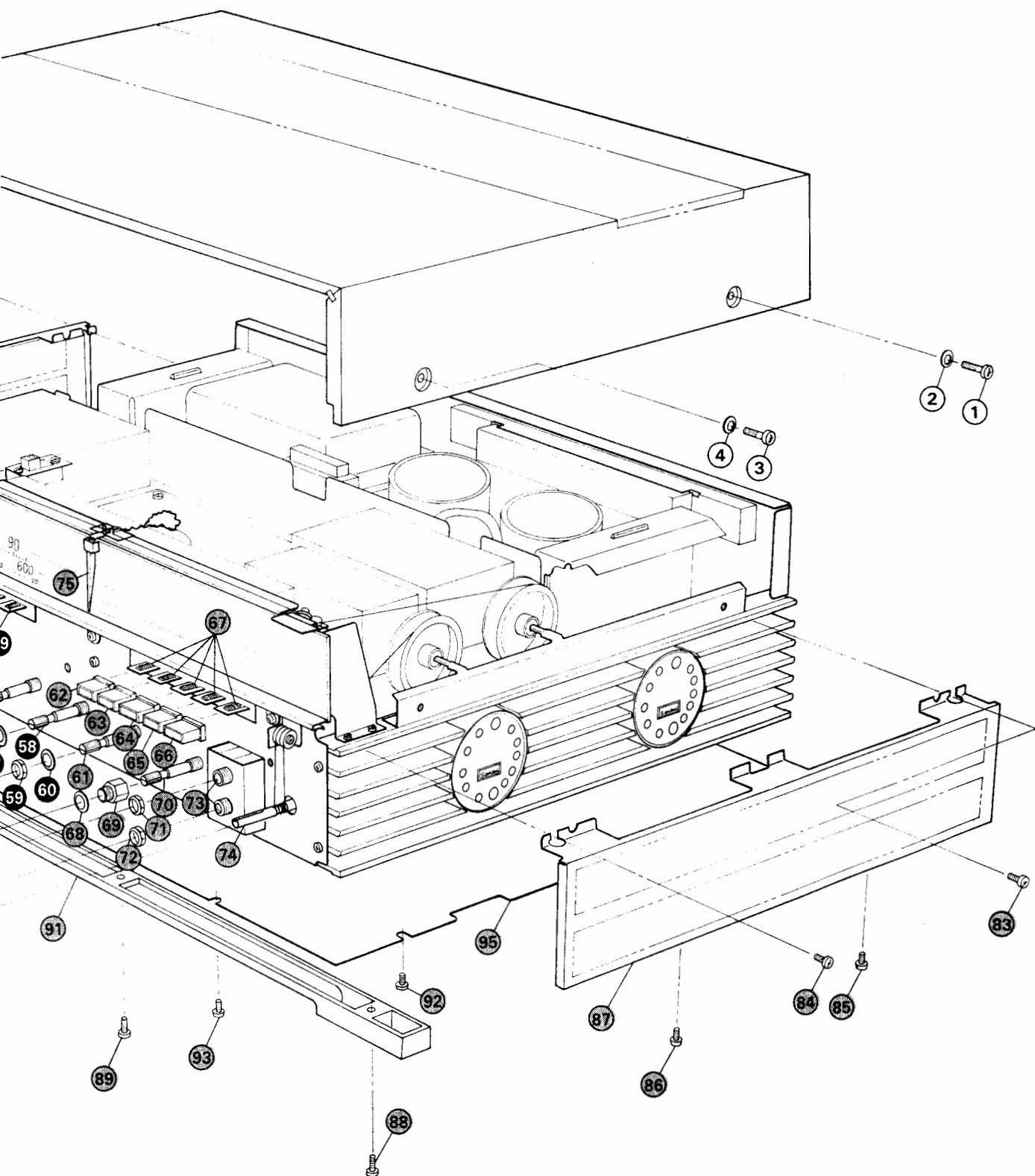
6-12-1. Section-1

Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	5100164	Binding Head Screw, M4×12	50		Hex. Nut, M9
2	5186110	Plane Washer, 4φ	51		Plane Washer, 9φ
3	5100164	Binding Head Screw, M4×12	52	1102410	Rotary Switch F-2-2-11, midrange
4	5186110	Plane Washer, 4φ	53		Hex. Nut, M9
5	5100164	Binding Head Screw, M4×12	54		Plane Washer, 9φ
6	5186110	Plane Washer, 4φ	55	1102410	Rotary Switch F-2-2-11, treble
7	5100164	Binding Head Screw, M4×12	56		Hex. Nut, M8
8	5186110	Plane Washer, 4φ	57		Plane Washer, 8φ
9	5726751	Wood Bonnet	58	1010830	250kΩ (MN)×2 Balance Volume
10	5176052	Jack Nut, headphone	59		Hex. Nut, M8
11	5317590	M-4 Type Knob, speaker	60		Plane Washer, 8φ
12		Hex. Nut, M9	61	1010820	250kΩ (B)×2 Volume
13		Plane Washer, 9φ	62	{	Button A Ass'y, noise reduction adaptor
14	5317580	S-4 Type Knob, midrange		5326091	Button A
15	5317580	S-4 Type Knob, treble		5369600	Name Plate, N.R ADAPTOR
16	5317580	S-4 Type Knob, balance			Button A Ass'y, tape monitor-1
17	5317580	S-4 Type Knob, volume	63	{	Button A
18	5317590	M-4 Type Knob, selector		5326091	Name Plate, TAPE MONITOR-1
19	5317590	M-4 Type Knob, tape monitor-2		5369691	Button A Ass'y, tape monitor-2
20		Hex. Nut, M9	64	{	Button A
21		Plane Washer, 9φ		5326091	Name Plate, TAPE MONITOR-2
22	5176052	Jack Nut, M9		5369701	Button A Ass'y, 4-ch adaptor
23	5176052	Jack Nut, M9	65	{	Button A
24	5316161	J-3 Type Knob, tuning		5369610	Name Plate, 4-CH ADAPTOR
25	5102643	Flat Countersunk Head Screw, M3×6			Button A Ass'y, fm muting off
26	5102643	Flat Countersunk Head Screw, M3×6	66	{	Button A
27	7006850	Front Panel		5326091	Name Plate, FM MUTING OFF
28	5102643	Flat Countersunk Head Screw, M3×6	67	1130310	Push Switch (5 Stage)
29	5102643	Flat Countersunk Head Screw, M3×6	68	5120184	Plane Washer 9φ, selector
30	5101043	Binding Head Screw, M3×6	69	5236491	Spacer Nut, M9
31	5101043	Binding Head Screw, M3×6	70	1106090	Rotary Switch Y-6-14-6, selector
32	5101043	Binding Head Screw, M3×6	71		Hex. Nut, M9
33		Smoked Plate Frame Ass'y	72		Hex. Nut, M9
34	5506522	Shield Cover, power indicator	73	2430210	Jack, tape monitor-2
		Button B Ass'y, power	74	7036341	Tuning Ass'y
35	{	Button B	75		Dial Pointer Ass'y
	5366240	Name Plate, POWER	76	0400200	Pilot Lamp, lead type (6.3V 75mA)
36	1130350	Push Switch, power	77	5416050	Dial Pointer
37		Hex. Nut, M9	78	5416331	Holder, dial pointer
38	2430200	Jack, headphone	79	5109222	Binding Head Tapping Screw, M3×8
39	5120184	Plane Washer, 9φ	80	5109222	Binding Head Tapping Screw, M3×8
40	5236491	Spacer Nut, M9	81	5109222	Binding Head Tapping Screw, M3×8
41	1102400	Rotary Switch Y-2-2-6, speaker	82	5057983	Cover, heat sink
42		Hex. Nut, M9	83	5109222	Binding Head Tapping Screw, M3×8
43		Plane Washer, 9φ	84	5109222	Binding Head Tapping Screw, M3×8
44	1102410	Rotary Switch, F-2-2-11, bass volume	85	5109222	Binding Head Tapping Screw, M3×8
		Button A Ass'y, low filter	86	5109222	Binding Head Tapping Screw, M3×8
45	{	Button A	87	5057983	Cover, heat sink
	5369630	Name Plate, LOW FILTER	88	5101161	Binding Head Screw, M4×6
		Button A Ass'y, high filter	89	5101161	Binding Head Screw, M4×6
46	{	Button A	90	5101161	Binding Head Screw, M4×6
	5369640	Name Plate, HIGH FILTER	91	5516171	Foot
		Button A Ass'y, loudness	92	5101161	Binding Head Screw, M4×6
47	{	Button A	93	5101161	Binding Head Screw, M4×6
	5369650	Name Plate, LOUDNESS	94	5101161	Binding Head Screw, M4×6
		Button A Ass'y, mono	95	5056220	Bottom Plate
48	{	Button A			
	5369660	Name Plate, MONO			
49	1130300	Push Switch (4 Stage)			



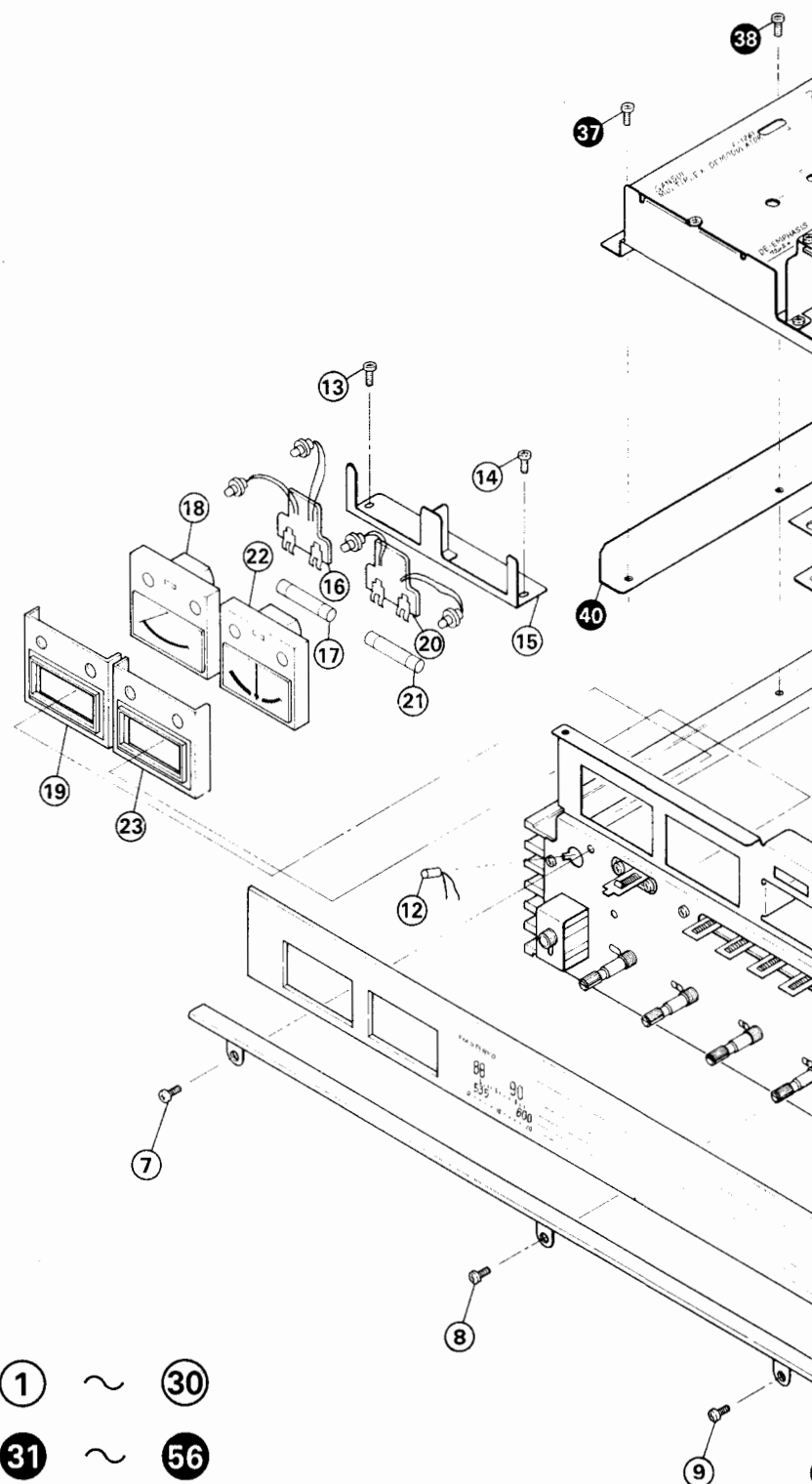
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| 31 | ~ | 60 |
| 61 | ~ | 95 |



6-12-2. Section-2

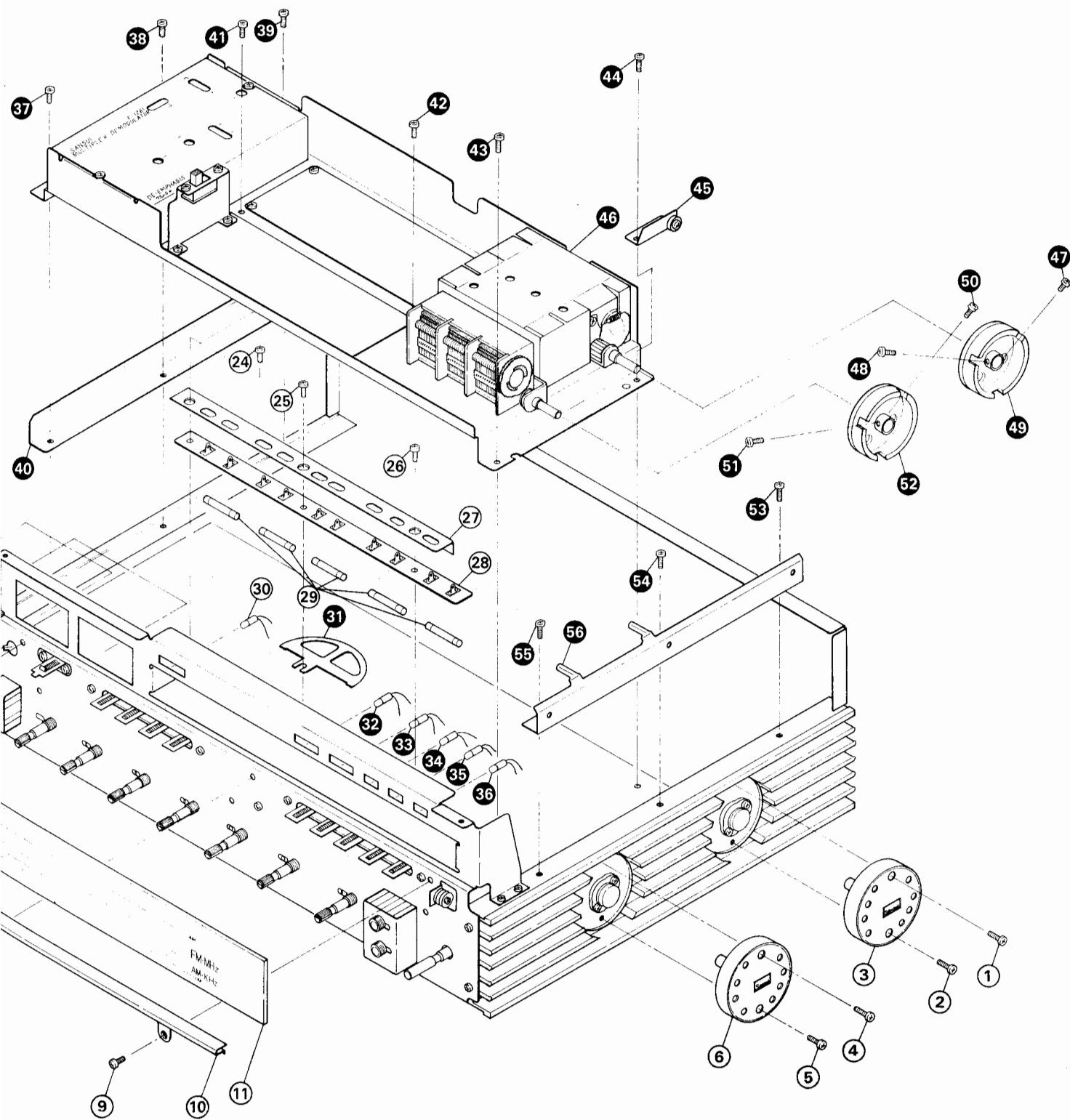
Parts List

Parts No.	Stock No.	Description
1	5109222	Binding Head Tapping Screw, M3×8
2	5109222	Binding Head Tapping Screw, M3×8
3	5066031	Transistor Cover
4	5109222	Binding Head Tapping Screw, M3×8
5	5109222	Binding Head Tapping Screw, M3×8
6	5066031	Transistor Cover
7	5101043	Binding Head Screw, M3×6
8	5101043	Binding Head Screw, M3×6
9	5101043	Binding Head Screw, M3×6
10	5246520	Stopper, dial scale
11	5407421	Dial Scale
12	0400170	Lead Type Lamp (7V 160mA), POWER indicator
13	5101043	Binding Head Screw, M3×6
14	5101043	Binding Head Screw, M3×6
15	5249720	Holder, signal & tune meter
16	7726050	Tuning Lamp Ass'y A
17	0420040	Fuse Type Lamp (7V 300mA), signal meter
18	4300610	Signal Meter
19	5066200	Meter Cover
20	7726050	Tuning Lamp Ass'y A
21	0420040	Fuse Type Lamp (7V 300mA), tune meter
22	4300600	Tune Meter
23	5066200	Meter Cover
24	5101043	Binding Head Screw, M3×6
25	5101043	Binding Head Screw, M3×6
26	5101043	Binding Head Screw, M3×6
27	5246892	Holder, printed circuit board
28		Printed Circuit Board F-1205
29	0420040	Fuse Type Lamp (7V 300mA)
30	0400161	Lead Type Lamp (6V 100mA), STEREO indicator
31	5249590	Guide Plate, lead
32	0400155	Lead Type Lamp (7V 160mA), PHONO-2 indicator
33	0400154	Lead Type Lamp (7V 160mA), PHONO-1 indicator
34	0400170	Lead Type Lamp (7V 160mV), AUX indicator
35	0400153	Lead Type Lamp (7V 160mA), FM indicator
36	0400141	Lead Type Lamp (7V 160mA), AM indicator
37	5109124	Binding Head Tapping Screw, M3×12
38	5109124	Binding Head Tapping Screw, M3×12
39	5109124	Binding Head Tapping Screw, M3×12
40	5246500	Retainer L, wood bonnet
41	5109124	Binding Head Tapping Screw, M3×12
42	5109124	Binding Head Tapping Screw, M3×12
43	5109124	Binding Head Tapping Screw, M3×12
44	5109124	Binding Head Tapping Screw, M3×12
45	5269200	Holder, pulley
46		Tuner Ass'y
47	5100244	Binding Head Screw, M3×8
48	5100244	Binding Head Screw, M3×8
49	6146640	Dial Pulley E
50	5100244	Binding Head Screw, M3×8
51	5100244	Binding Head Screw, M3×8
52	6146343	Dial Pulley C
53	5109122	Binding Head Tapping Screw, M3×8
54	5109122	Binding Head Tapping Screw, M3×8
55	5109122	Binding Head Tapping Screw, M3×8
56	5246490	Retainer R, wood bonnet

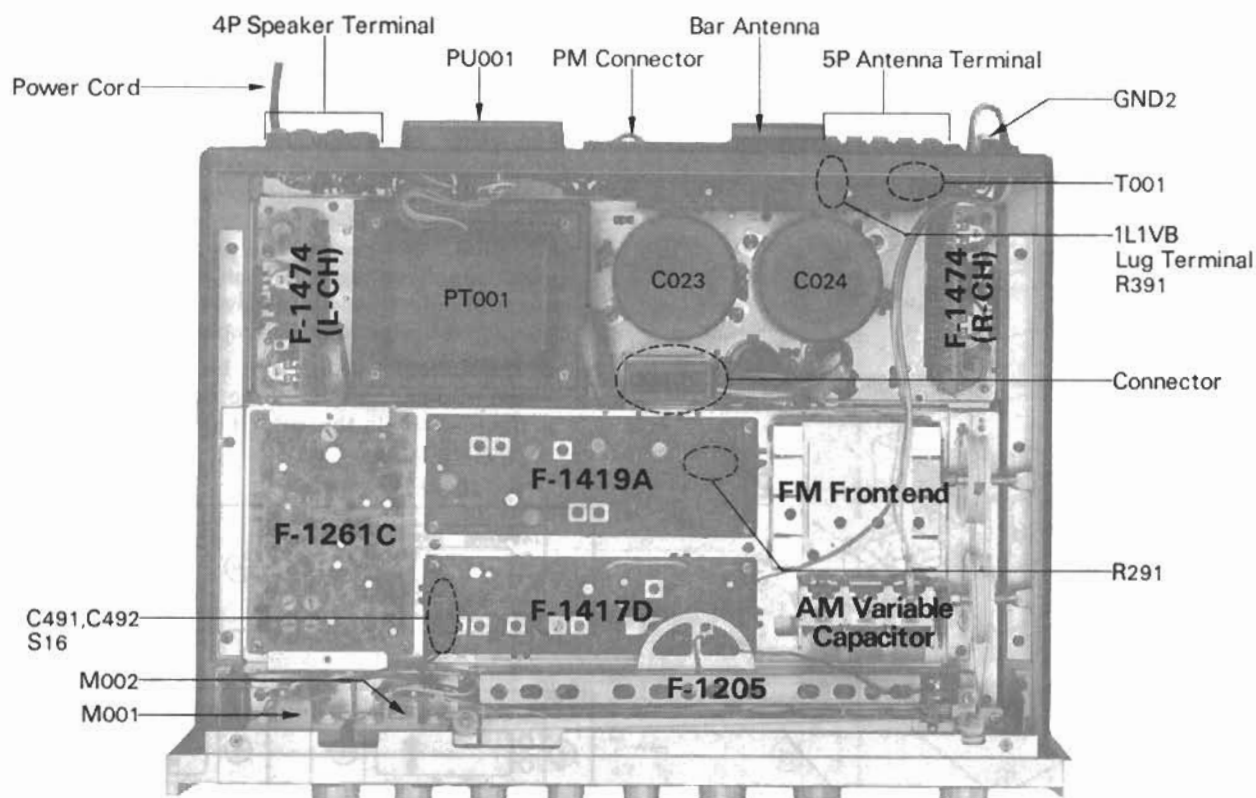


① ~ ③①

③① ~ ⑤⑥



6-13. Other Parts (Top Side)



Top Side Parts List

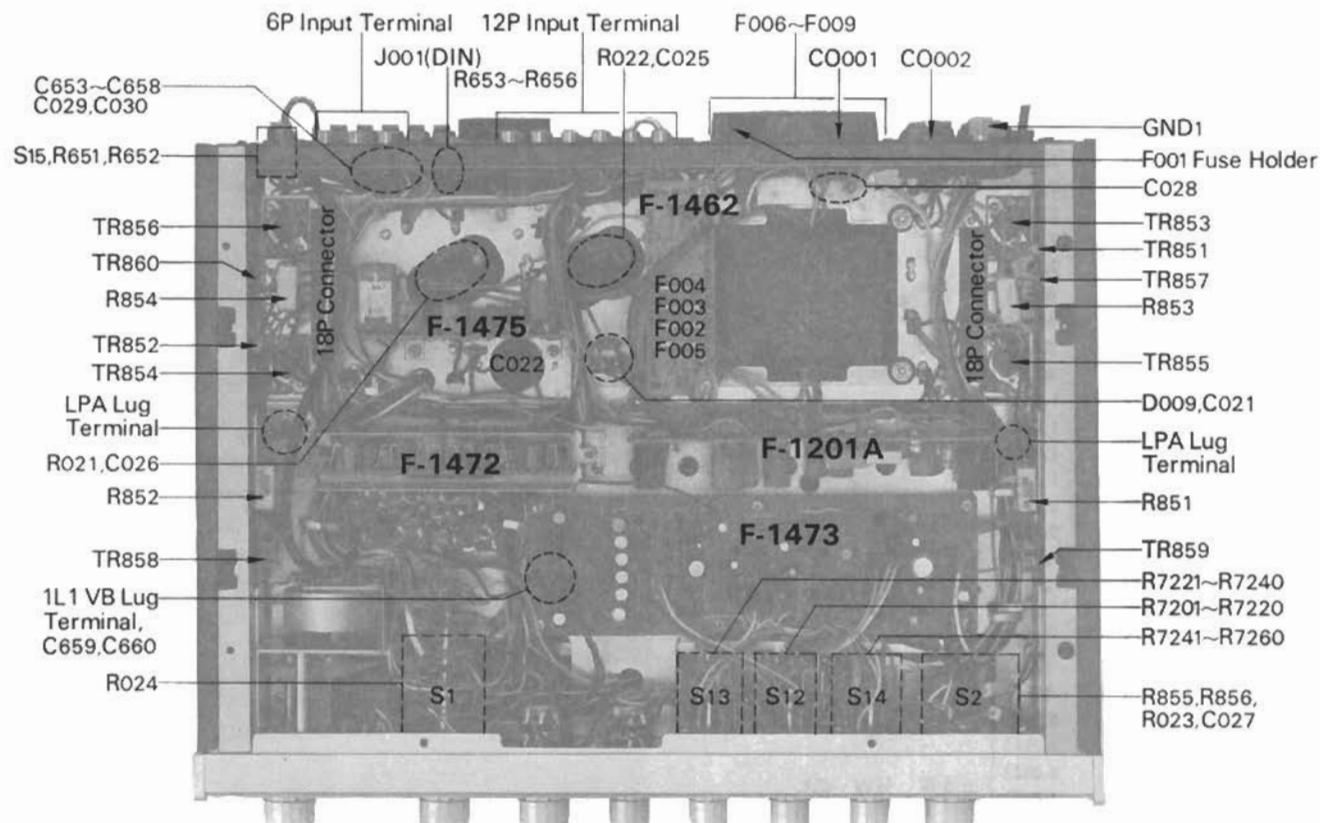
Parts No.	Stock No.	Description
	7510353	FM Frontend
	1200050	AM Variable Capacitor
C023	0559312	8000 μ F } 50V E.C.
C024	0559312	8000 μ F }
C491	0620471	470pF } $\pm 5\%$ 50V P.C.
C492	0620471	470pF }
R291	0107473	47k Ω } $\pm 5\%$ 1/4W C.R.
R391	0107152	1.5k Ω }
	3800020	Power Cord
S16	1110040	Slide Switch
PU001	{ 2410080	Voltage Selector, socket
	{ 2410090	Voltage Selector, plug
M001	4300610	Signal Meter
M002	4300600	Tune Meter
T001	4290021	75 Ω : 300 Ω FM Balun
PT001	4001300	Power Transformer
GND2	2230050	Ground Terminal
	4200380	AM Bar Antenna
	2290100	4P Speaker Terminal

Parts No.	Stock No.	Description
	2290110	5P Antenna Terminal
	2460010	PM Connector
	{ 2420070	Connector, socket
	{ 2420060	Connector, plug
	2110060	1L1VB Lug Terminal

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

6-14. Other Parts (Bottom Side)



Bottom Side Parts List

Parts No.	Stock No.	Description
TR851	0305871	2SC984 (B)
TR852	0305871	2SC984 (B)
TR853	0300151, 2	2SA566 (B, C)
TR854	0300151, 2	2SA566 (B, C)
TR855	0305621, 2	2SC680 (B, C)
TR856	0305621, 2	2SC680 (B, C)
TR857	0300520-2	2SA747 (R, O, Y)
TR858	0300520-2	2SA747 (R, O, Y)
TR859	0305840-2	2SC1116 (R, O, Y)
TR860	0305840-2	2SC1116 (R, O, Y)
D009	0310660	5B2 Diode
C021	0659011	0.01 μ F 500V C.C.
C022	0559501	1000 μ F 63V E.C.
C025	0657473	0.047 μ F 50V
C026	0657473	0.047 μ F 50V
C027	0659802	0.0047 μ F 1.4kV
C028	0659802	0.0047 μ F 1.4kV
C029	0657473	0.047 μ F 50V
C030	0657473	0.047 μ F 50V
C653~656	0800121	0.047 μ F $\times$ 4 50V
C657	0657473	0.047 μ F 50V
C658	0657473	0.047 μ F 50V
C659	0657473	0.047 μ F 50V
C660	0657473	0.047 μ F 50V

Parts No.	Stock No.	Description
R021	0162562	5.6k Ω
R022	0162562	5.6k Ω
R023	0110220	22 Ω
R024	0110220	22 Ω
R651	0107104	100k Ω
R652	0107104	100k Ω
R653	0107184	180k Ω
R654	0107184	180k Ω
R655	0107104	100k Ω
R656	0107104	100k Ω
R851	0155478	0.47 Ω
R852	0155478	0.47 Ω
R853	0155478	0.47 Ω
R854	0155478	0.47 Ω
R855	0162681	680 Ω
R856	0162681	680 Ω
R7201	0107222	2.2k Ω
R7202	0107222	2.2k Ω
R7203	0107272	2.7k Ω
R7204	0107272	2.7k Ω
R7205	0107562	5.6k Ω
R7206	0107562	5.6k Ω
R7207	0107123	12k Ω
R7208	0107123	12k Ω
R7209	0107273	27k Ω
R7210	0107273	27k Ω

to be continued

Bottom Side Parts List

Parts No.	Stock No.	Description
R7211	0107273	27k Ω
R7212	0107273	27k Ω
R7213	0107123	12k Ω
R7214	0107123	12k Ω
R7215	0107562	5.6k Ω
R7216	0107562	5.6k Ω
R7217	0107272	2.7k Ω
R7218	0107272	2.7k Ω
R7219	0107222	2.2k Ω
R7220	0107222	2.2k Ω
R7221	0107681	680 Ω
R7222	0107681	680 Ω
R7223	0107821	820 Ω
R7224	0107821	820 Ω
R7225	0107122	1.2k Ω
R7226	0107122	1.2k Ω
R7227	0107182	1.8k Ω
R7228	0107182	1.8k Ω
R7229	0107272	2.7k Ω
R7230	0107272	2.7k Ω
R7231	0107273	27k Ω
R7232	0107273	27k Ω
R7233	0107183	18k Ω
R7234	0107183	18k Ω
R7235	0107123	12k Ω
R7236	0107123	12k Ω
R7237	0107822	8.2k Ω
R7238	0107822	8.2k Ω
R7239	0107682	6.8k Ω
R7240	0107682	6.8k Ω
R7241	0107682	6.8k Ω
R7242	0107682	6.8k Ω
R7243	0107822	8.2k Ω
R7244	0107822	8.2k Ω
R7245	0107103	10k Ω
R7246	0107103	10k Ω
R7247	0107123	12k Ω
R7248	0107123	12k Ω
R7249	0107153	15k Ω
R7250	0107153	15k Ω
R7251	0107153	15k Ω
R7252	0107153	15k Ω
R7253	0107123	12k Ω
R7254	0107123	12k Ω
R7255	0107103	10k Ω
R7256	0107103	10k Ω
R7257	0107822	8.2k Ω
R7258	0107822	8.2k Ω
R7259	0107682	6.8k Ω
R7260	0107682	6.8k Ω
$\pm 5\% \frac{1}{4}W$ C.R.		
$\pm 5\% \frac{1}{4}W$ C.R.		
F001	0431280	5A Power Fuse (100V~117V)
	0431260	3A Power Fuse (220V~240V)
	2300060	Power Fuse Holder
F002	0432830	Wired-In Fuse (1A 250V)
F003	0432850	Wired-In Fuse (2A 250V)
F004	0432850	Wired-In Fuse (2A 250V)
F005	0432900	Wired-In Fuse (5A 250V)
F006	0433280	Quick-Acting Fuse (5A 250V)
F007	0433280	Quick-Acting Fuse (5A 250V)
F008	0433280	Quick-Acting Fuse (5A 250V)
F009	0433280	Quick-Acting Fuse (5A 250V)

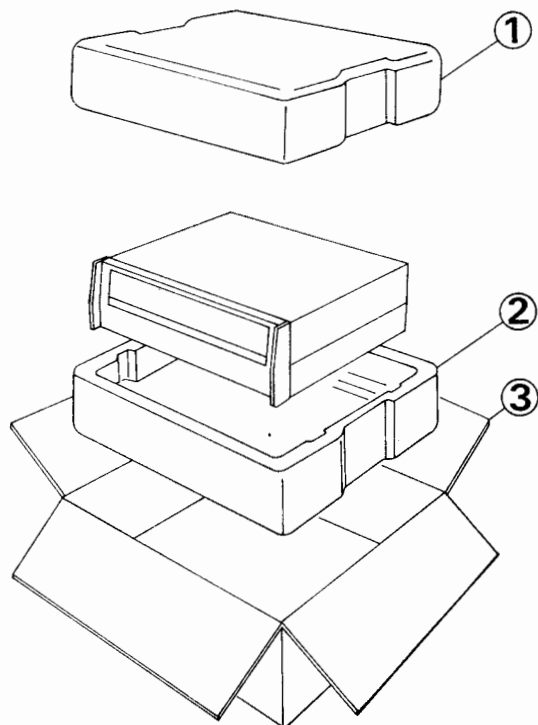
Parts No.	Stock No.	Description
S1	1106090	Rotary Switch, Selector Y-6-14-6
S2	1102400	Rotary Switch, speakers Y-2-2-6
S12	1102410	Rotary Switch, midrange F-2-2-11
S13	1102410	Rotary Switch, treble F-2-2-11
S14	1102410	Rotary Switch, bass F-2-2-11
S15	1110040	Slide Switch
CO001,2	2450040	AC Outlet
J001	2430040	DIN Connector
GND1	2230050	Ground Terminal
	2200330	6P Input Terminal
	2200360	12P Input Terminal
	2420020	18P Connector
	2110100	LPA Lug Terminal
	2110060	1L1VB Lug Terminal

Abbreviations

C.R.	: Carbon Resistor	BP.E.C.:	Bi-Pola 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

7. PACKING LIST

Parts No.	Stock No.	Description
1	9026101	Styrofoam Packing
2	9026101	Styrofoam Packing
3	9007361	Carton Case



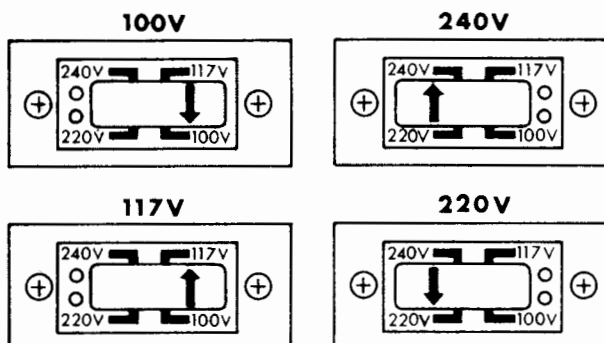
9. MAINTENANCE

9-1. Voltage Adjustment

The Voltage Selector on the rear panel enables you to operate at correct voltage in any areas. The voltage has been preadjusted at the factory, but can be easily changed as follows.

- 1) Remove the two screws securing the name plate on the unit's rear panel, then remove the name plate.
- 2) Unplug the Voltage Selector plug once, and reset it so that the arrow mark on it faces the correct voltage indication. Also change the power fuse when the power supply voltage has changed. For 100/117 volt operation, use a 5-ampere glass-tubed fuse. For 220/240 volt operation, use a 3-ampere one.

Note: The Voltage Selector can be used to eliminate the trouble caused by the considerable voltage fluctuation. In this case, it should be set to the peak voltage.

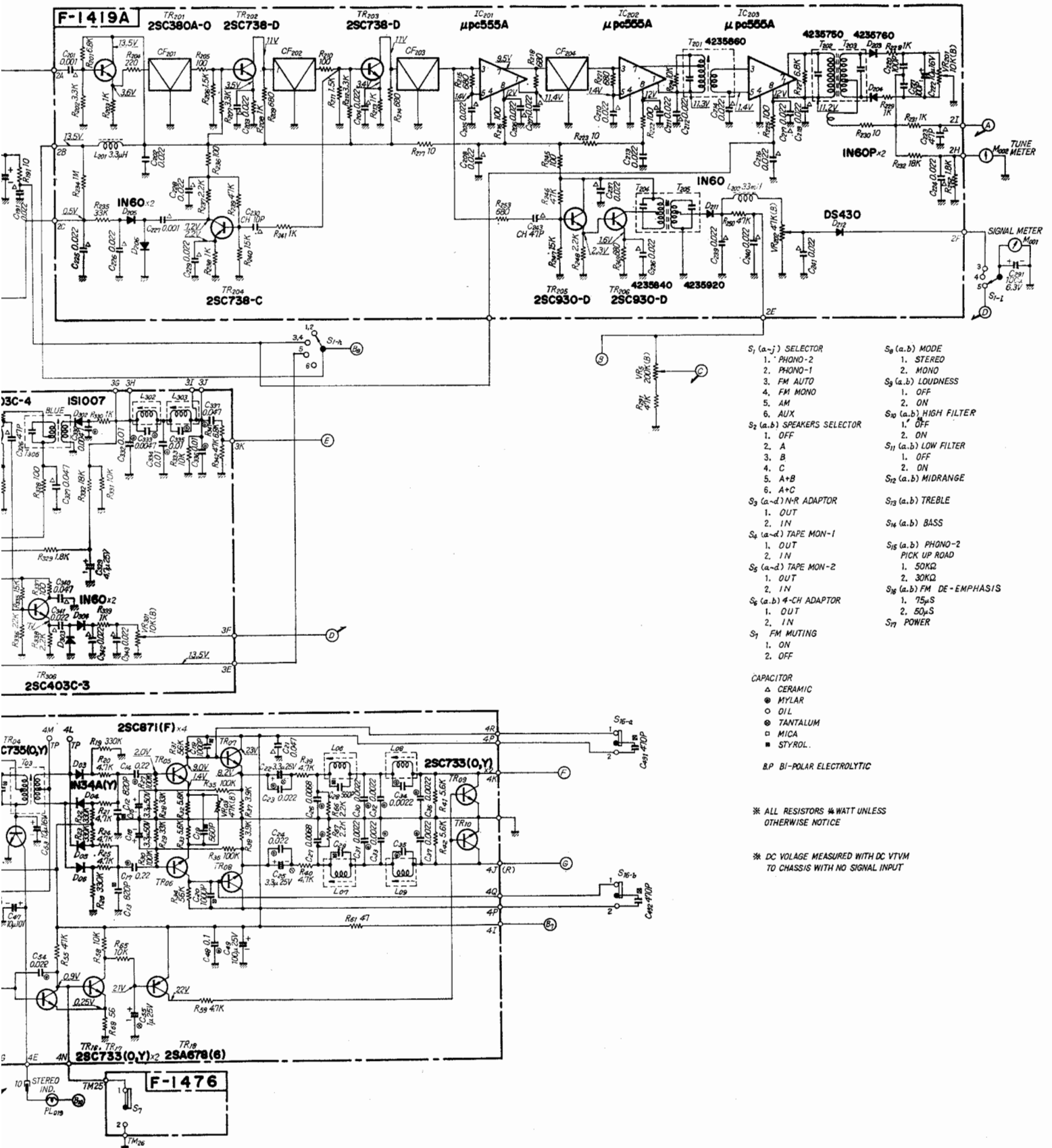


8. ACCESSORY PARTS LIST

Stock No.	Description
9406020	Polishing Cloth
0433280	5A Quick Acting Fuse
3820040	AM/FM ANT
9207550	Operating Instructions
9227550	Operating Instruction Sheet

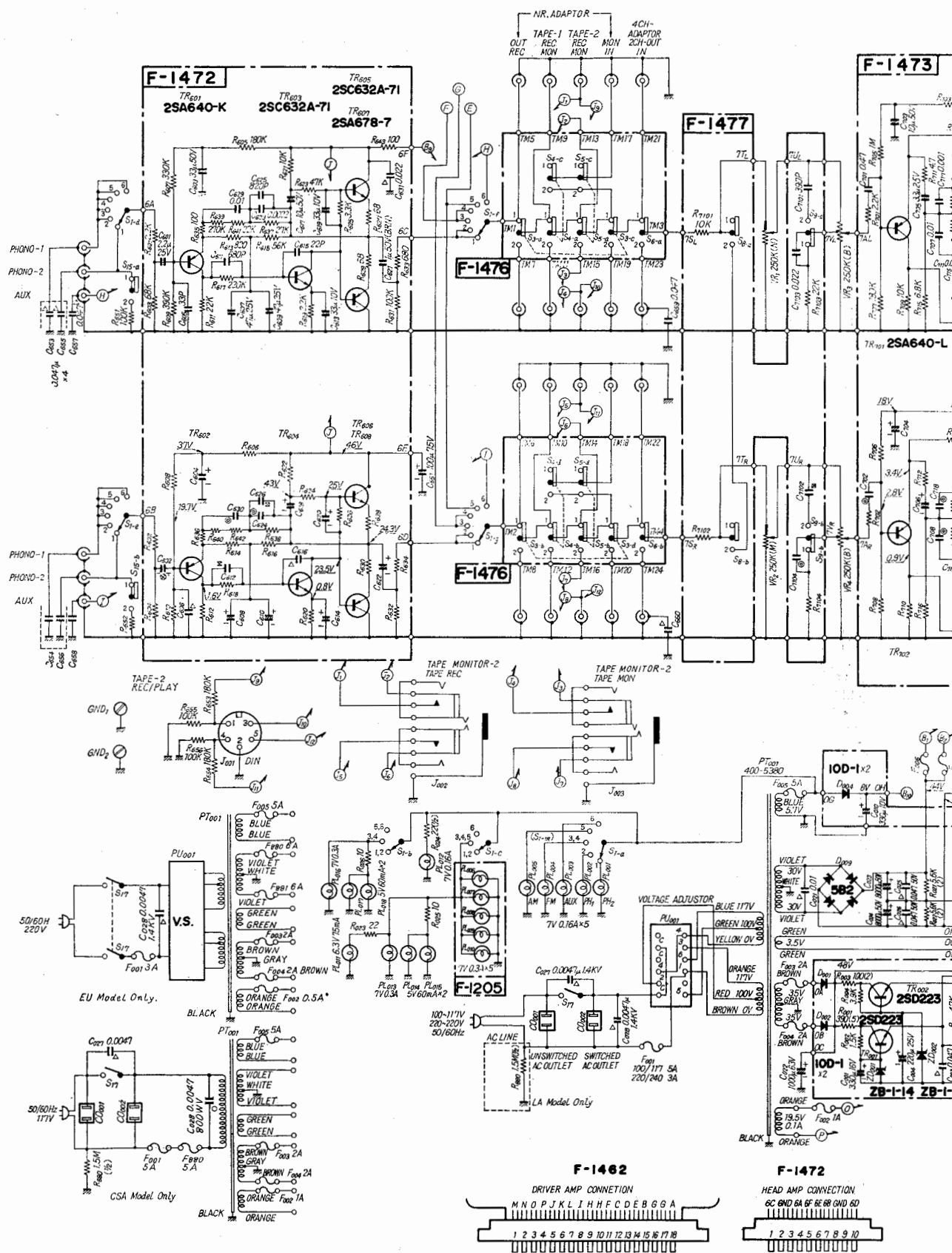
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* Design and specifications subject to change without notice for improvements.

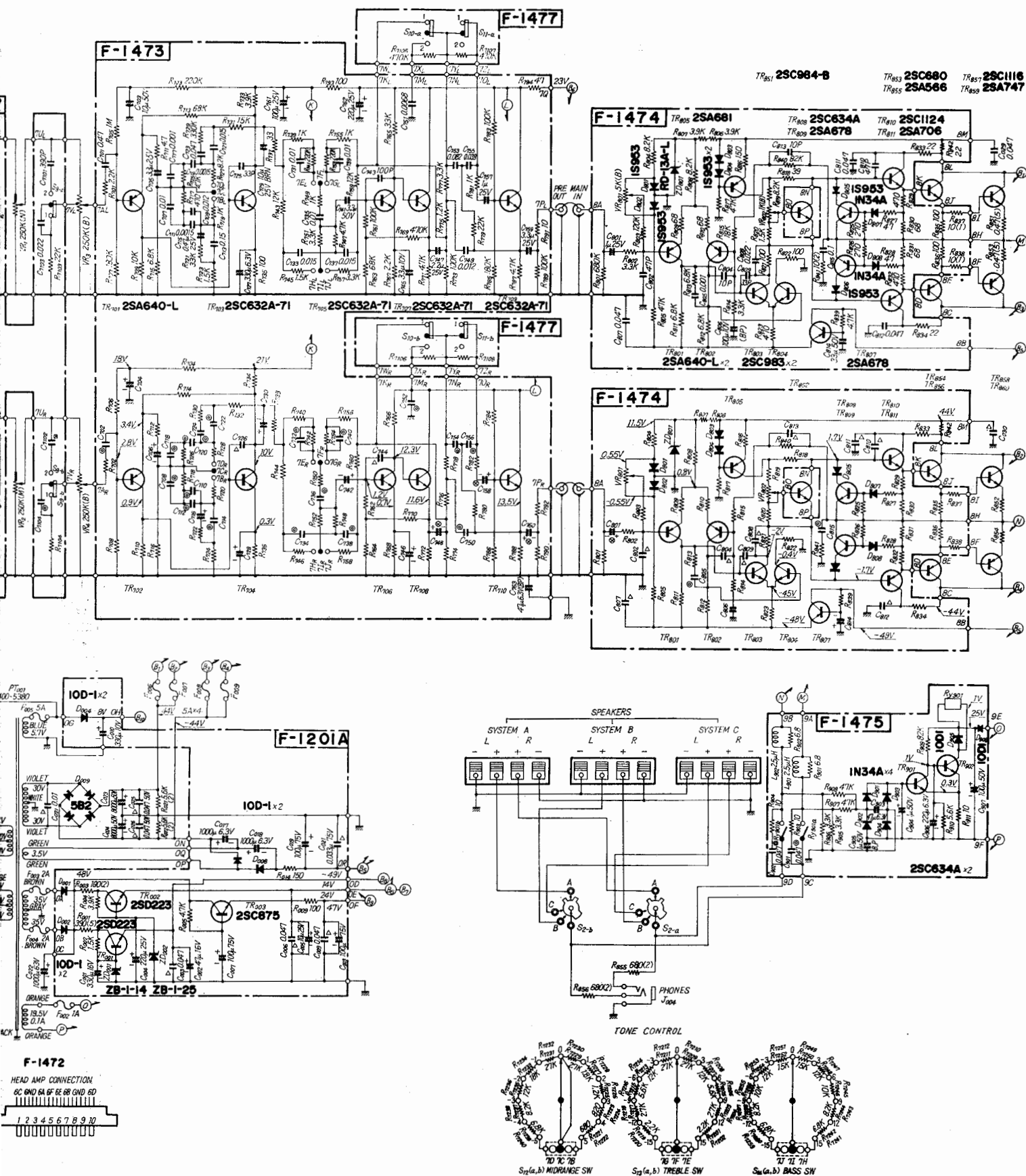


11. SCHEMATIC DIAGRAM OF AUDIO SECTION

* Design



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



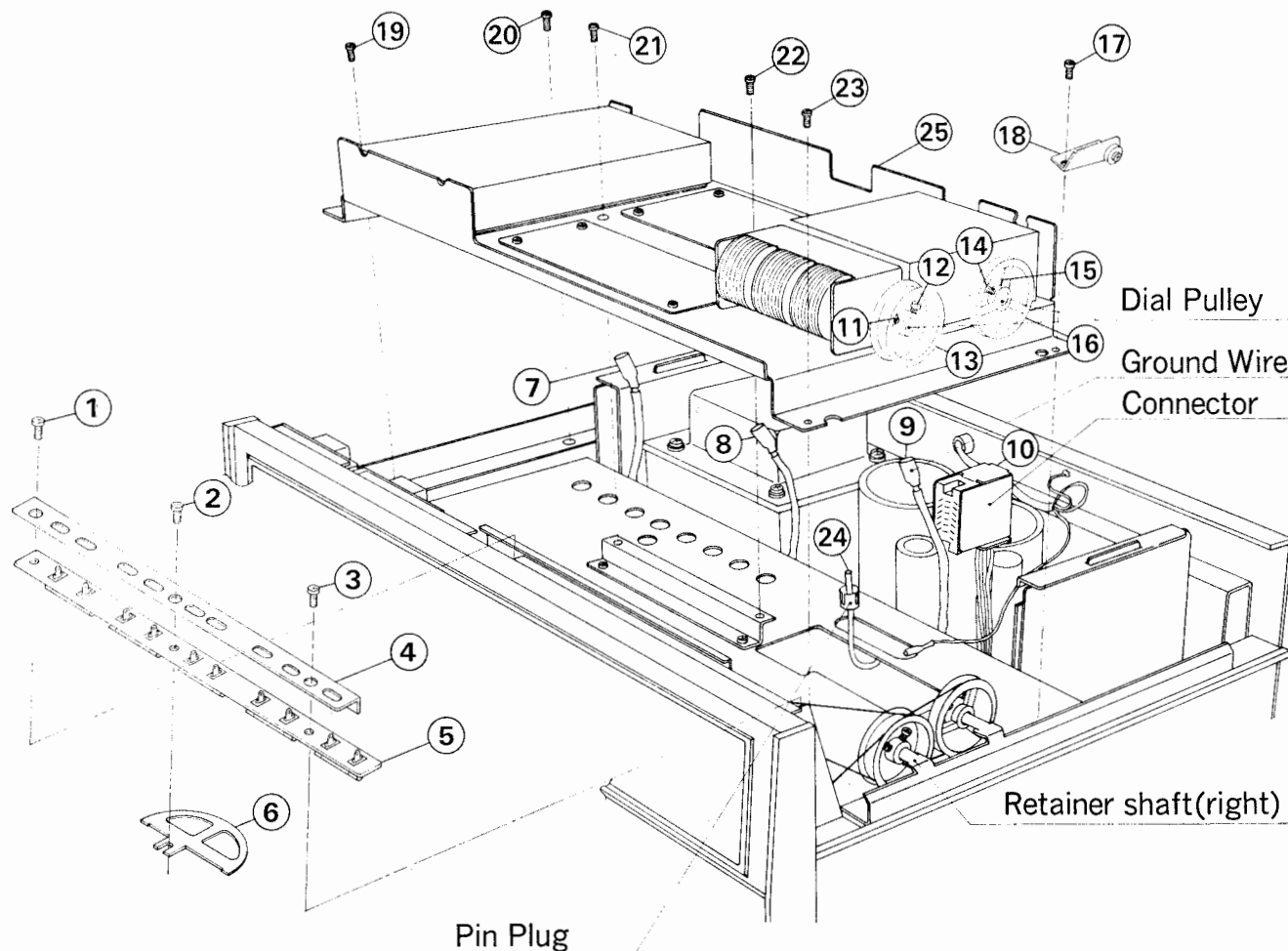
12. REPLACEMENT OF MAIN PARTS

12-1. Tuner Section

- 1) Remove wood bonnet.
- 2) Remove screw ①, ② and ③, then remove P. C. Board holder ④, P. C. Board ⑤ and guide plate ⑥.
- 3) Remove ground wire ⑦, ⑧ and ⑨, then remove connector ⑩.
- 4) Remove screw ⑪, ⑫, ⑬ and ⑭, then remove dial pulley ⑮ and ⑯.
When removing, fix the dial pulley to retainer shaft

- (right) so that the cord does not slip off from dial pulley.
- 5) Remove screw ⑰ and pulley holder ⑱.
When removing, fix the dial cord with vinyl tape (or masking tape) so that the cord does not slip off.
- 6) Remove screw ⑲, ⑳, ㉑, ㉒ and ㉓, then remove pin plug ㉔, and tuner section.

*After attachment, confirm AM and FM Dial Calibration certainly.





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