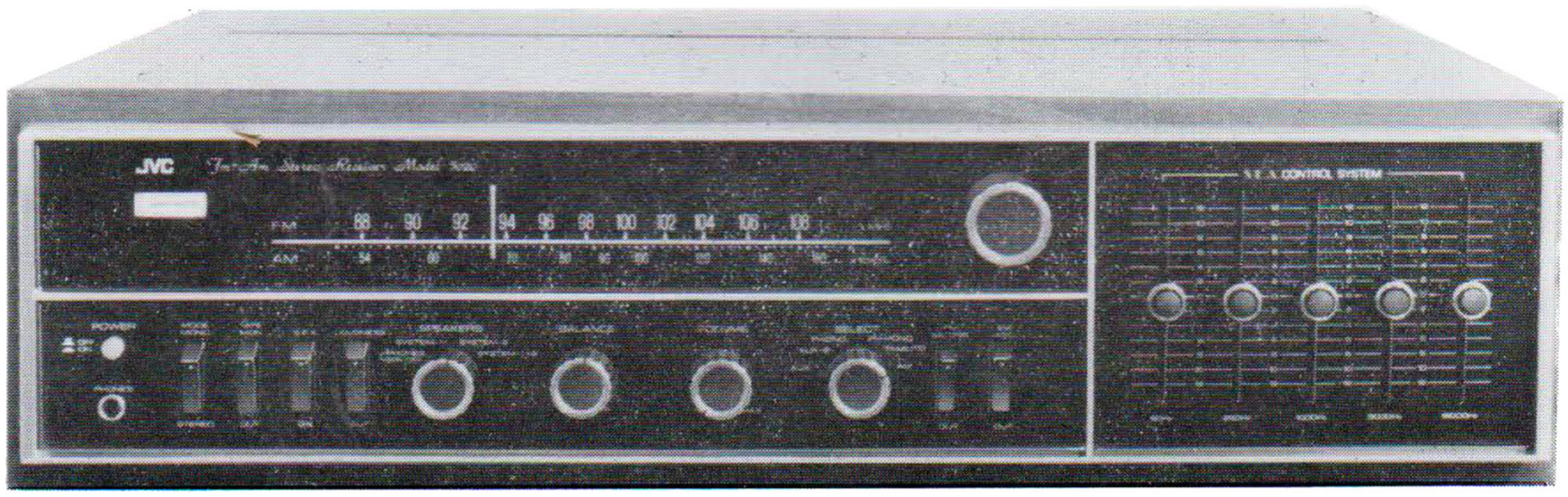
JVC NIVICO

No. 2177

SERVICE MANUAL



MODEL 5020/5020U

SOLID STATE AM/FM STEREO RECEIVER

DIMENSIONS : H-5⅞″, W-20¾″, D-13¼″ **WEIGHT :** 28.6 lbs.

SPECIFICATIONS

〈Trensistor and Dioce〉

Tuner Section

FET ····· 1 Field Effect Transistor
Transistors ····· 13 Transistors
Diodes ····· 20 Diodes

Audio Section

Transistors ····· 22Transistors

Protector Section

Transistors ····· 2 Transistors
Diodes ····· 6 Diodes

〈FM Tuner Section〉

Frequency Range :	88～108 MHz
Intermediate Frequency :	10.7 MHz
Usable Sensitivity :	2.5μV (IHF Standard)
Image Rejection :	60dB at 98MHz
IF Stages :	5 Stages
FM Distortion :	0.8% at 1kHz, 100% Modulation
Frequency Response :	20～20kHz ± 1dB
Interstation Muting :	Semi Variable

〈Multiplex Section〉

Circuit :	Switching System
Channel Separation :	Better than 35dB at 1kHz
Distortion :	0.8%
Detector Type :	Balanced Type
Filter :	SCA Filter

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〈AM Tuner Section〉

Frequency Range :	535～1605 kHz
Intermediate Frequency :	455 kHz
Usable Sensitvity :	30μV
Image Rejection :	45dB at 600kHz
IF Stages :	3 Stages
Antenna :	Built-in Ferrite Bar Antenna

〈Audio Section〉

Total Dynamic Power :	75W (37.5W+37.5W) 4Ω IHF Standard	
	60W (30W+30W) 8Ω IHF Standard	
Continuous Power :	56W (28W+28W) 4Ω IHF Standard	
	50W (25W+25W) 8Ω IHF Standard	
Matching Impedance :	4～16Ω	
THD at Rated Power :	0.5% at 1kHz	
IM Distortion at Rated Power :	0.8%	
Frequency Response :	30Hz～30kHz -2dB	
Input Sensitivity for Rated Output :	Phono (Mag.) :	1.5mV
	Tape Play :	125mV
	Aux. 1 :	125mV
	Aux. 2 :	125mV
Equalizer :	Mag. :	RIAA
Signal to Noise Ratio :	Mag. :	65dB
	Aux. :	70dB
	Tape Play :	70dB
	Aux. 1 :	70dB

〈S. E. A. Section〉

S. E. A. Center Frequency :	60Hz, 250Hz, 1kHz, 5kHz, 15kHz
S. E. A. Control Range :	±12dB

〈Indicators〉 : Tuning Meter

〈Power Supply, Line Requirements〉

Power Source :	AC 120V 50Hz or 60Hz (100V, 120V, 220V, 240V Selectable)
Power Consumption :	30W at Non Signal
	130W at Non Clip Maximum Output

HOW TO REMOVE THE WOODEN CASE

1. Remove 6 locking screws ① from the bottom of case. (Fig. 1-a)
2. Pull out the chassis ass'y in arrow direction lifting it up slightly with both hands. Also lift up with both hands in case of closing chassis into the cabinet. (Fig. 1-b)

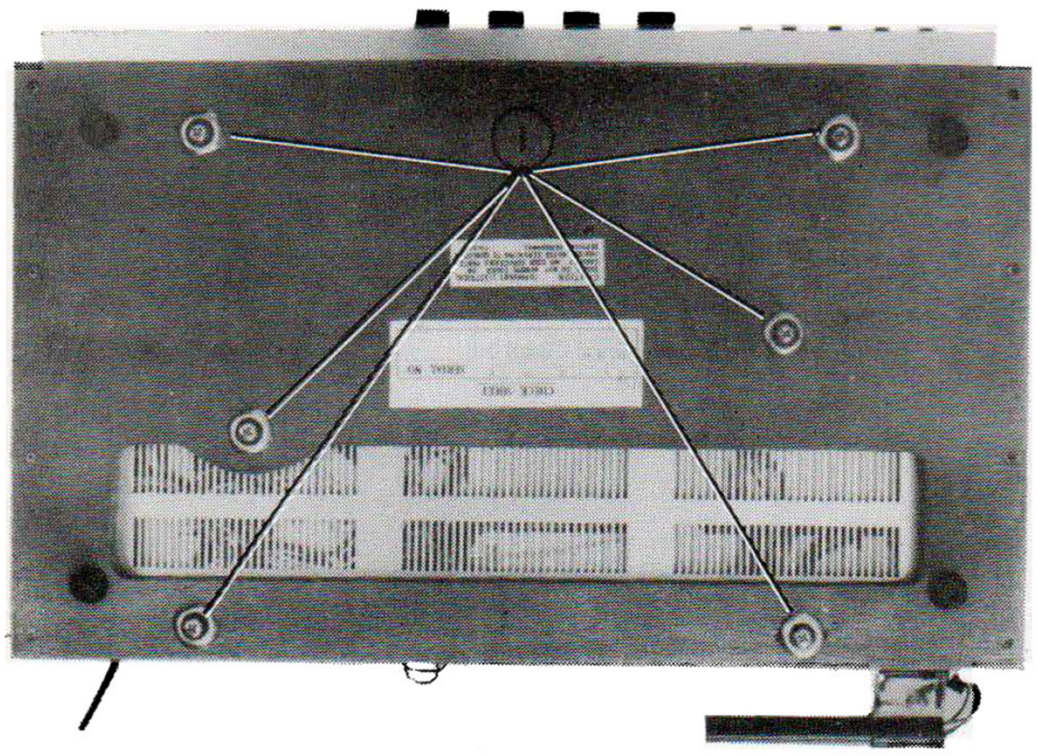

Fig. 1-a

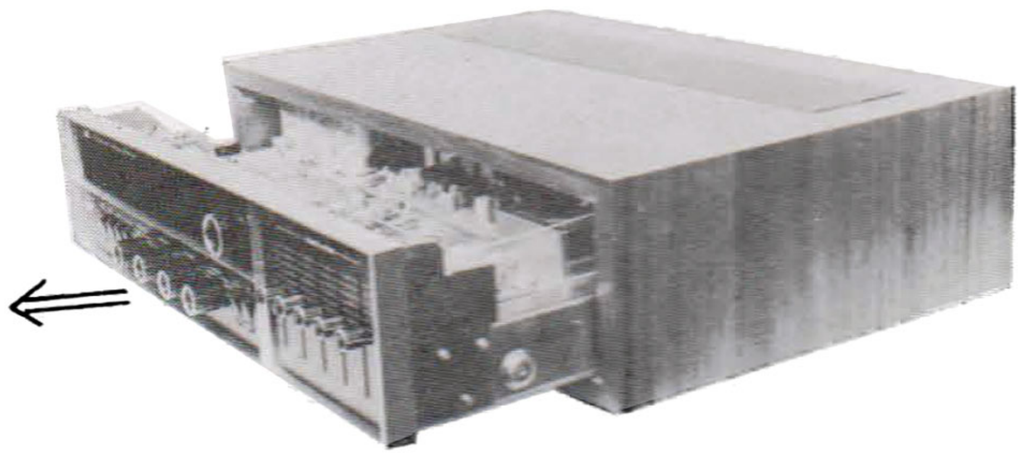

Fig. 1-b

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MAIN PARTS ARRANGEMENT

PARTS ARRANGEMENT OF FRONT VIEW

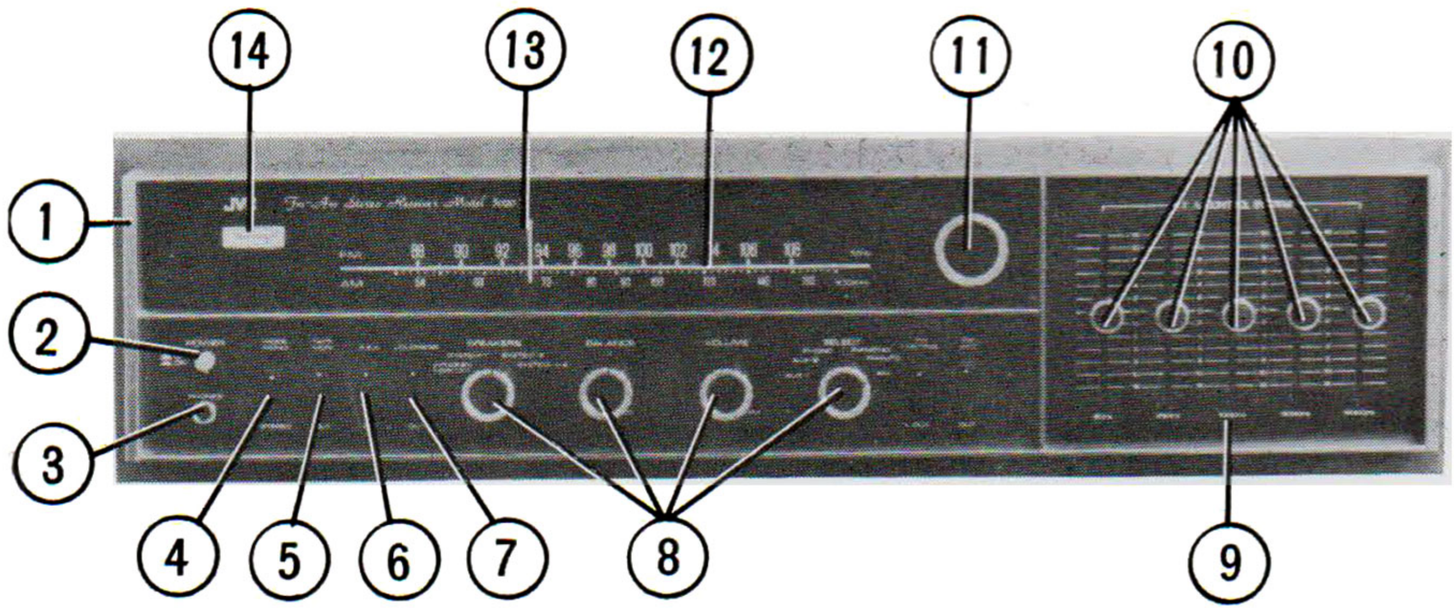

Fig. 2

Dwg. No.	Parts No.	Parts Name	Dwg. No.	Parts No.	Parts Name
1	E20207-003	Front Panel Base	8	E45320-001	Select Knob
2	Q03885-1S	Power Switch	9	E20252-004	Front Panel Sub Ass'y
3	Q03963-001	Head Phone Jack	10	E43581-001	Slide Knob
4	Q30025-1	Seesaw Switch	11	E45303-001	Tuning Knob
5	〃	〃	12	E32258-001	Dial Scale
6	〃	〃	13	E44619-001	Needle
7	〃	〃	14	E0359-D	Tuning Indicator

PARTS ARRANGEMENT OF BACK VIEW

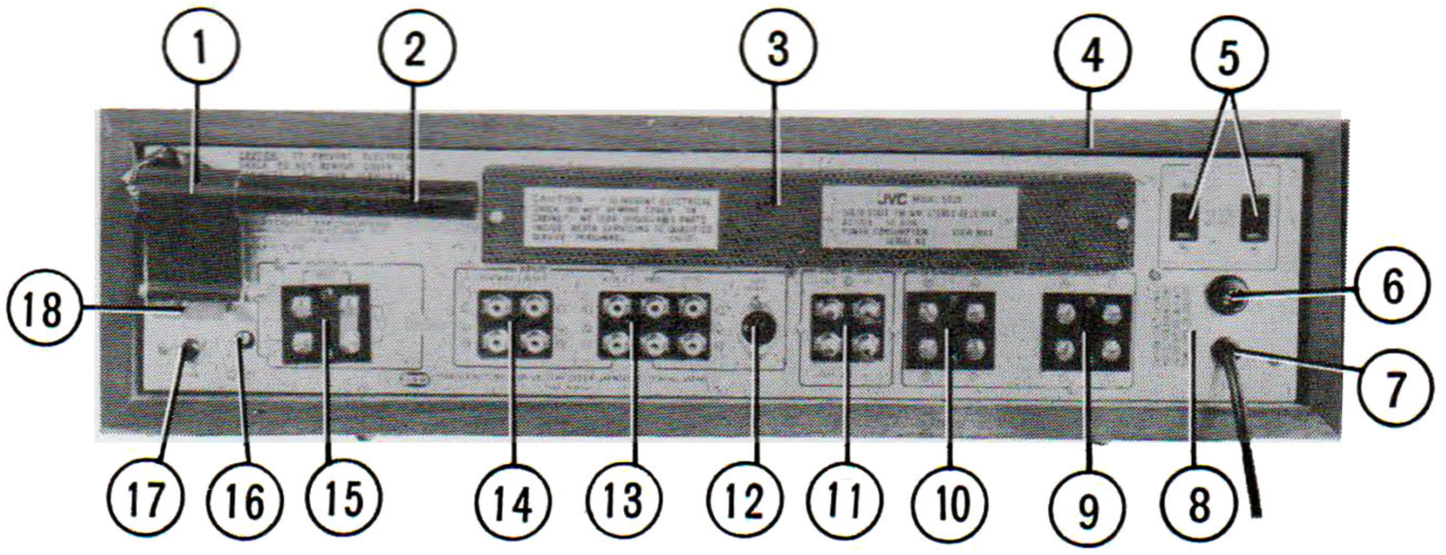

Fig. 3

Dwg. No.	Parts No.	Parts Name	Dwg. No.	Parts No.	Parts Name
1	E41021	Bar Antenna Holder	10	Q30156-001	Speaker Terminal Board
2	E03037-18	Bar Antenna Coil	11	E0778-40	Four Pin Jack Ass'y
3	E42564-002	Power Transistor Cover	12	Q03967-S	DIN Socket Ass'y
4	D91005	Wooden Case	13	E0778-60	Six Pin Jack Ass'y
5	Q30120-001	AC Outlet	14	E0778-40	Four Pin Jack Ass'y
6	Q30210-001	Fuse Socket Ass'y	15	Q30156-006	Antenna Terminal
7	E31704-001	Power Cord Stopper	16	Q04833-7	Muting Adjust V. Resistor
8	E20209-005	Rear Panel	17	E04069	Push Terminal
9	Q30156-001	Speaker Terminal Board	18	E50634-002	Bar Antenna Bracket

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PARTS ARRANGEMENT OF TOP VIEW

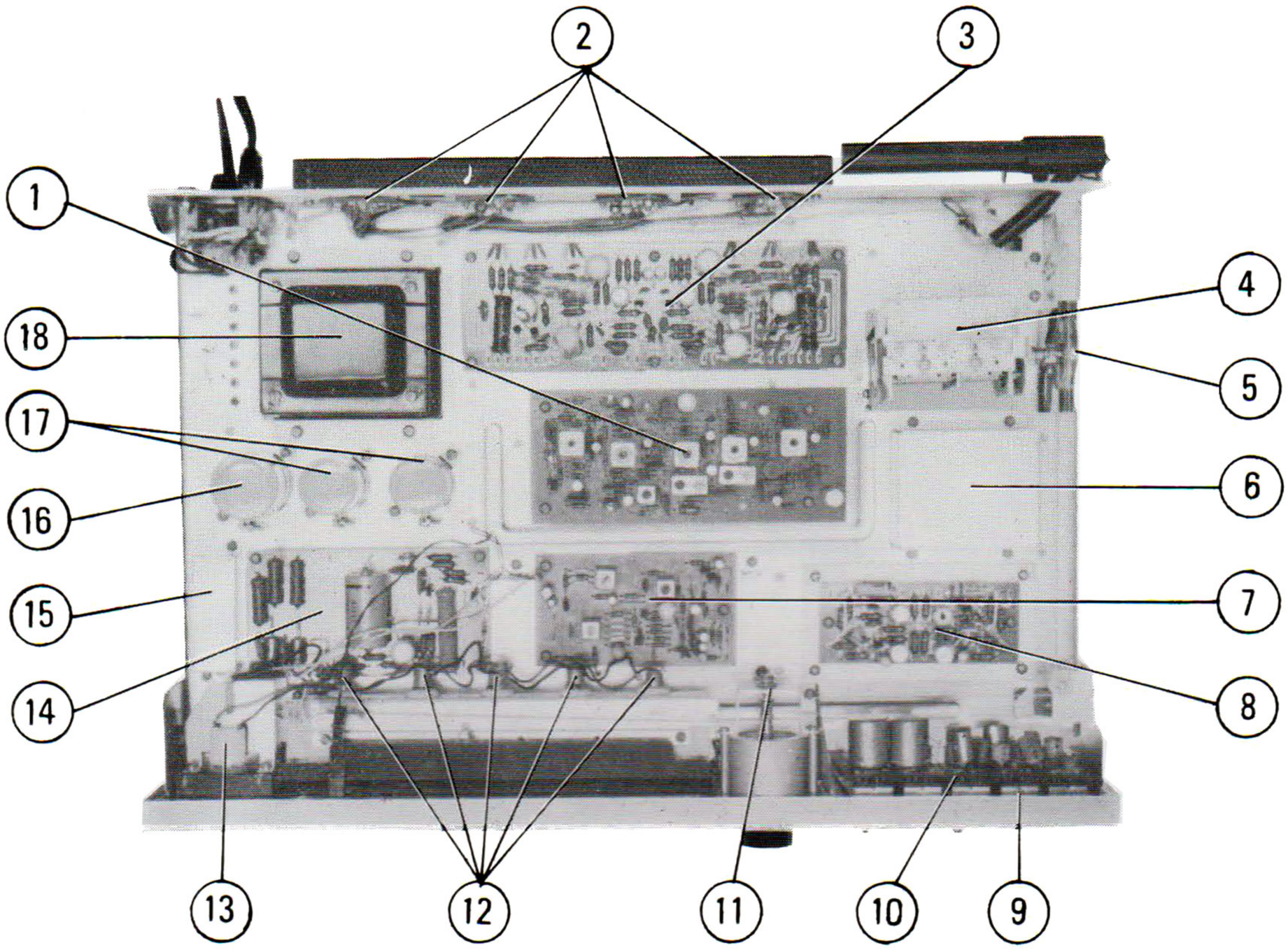

Fig. 4

Dwg. No.	Parts No.	Parts Name	Dwg. No.	Parts No.	Parts Name
1	TIF-44	AM & FM IF Circuit Ass'y	10	TAC-116	S. E. A. Circuit Ass'y
2	2SD180M or L	Power Transistor	11	E45114-001	Tuning Shaft Ass'y
3	TAD-27	Drive Amplifier Circuit Ass'y	12	Q04967-9	Pilot Lamp
4	E03325-002S	Tuner Head	13	E0359-D	Tuning Indicator
5	E32074-002S	Dial Drum Ass'y	14	TAP-38	Power Supply & Protector Circuit Board
6	TAE-39	Equalizer Amplifier Ass'y			
7	TMX4ES-3	FM Multiplex Circuit Board Ass'y	15	E04085	Voltage Selector Plug
			16	Q03600-21	Electrolytic Capacitor
8	TAC-71	Pre-Amplifier Circuit Ass'y	17	Q03592-21	〃
9	E03306-001S	Slide Variable Resistor	18	E03098-4	Power Transformer

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HOW TO REMOVE FRONT PANEL ASS'Y

When servicing the Front Panel, S. E. A. Circuit Board Ass'y, Volume Control, Selector Switch, and other main parts on Front Panel Ass'y, remove the Front Panel Ass'y, refering to items shown below.

① Remove the Front Panel Ass'y from Front Bracket Ass'y by loosenning 9 tapping screws ① fitting it on chassis Base.

② To Remove the Front Panel Ass'y from Front Bracket Ass'y, take off the knobs of Tuning, Selector Switch, Speaker Selector Switch, Volume Control, Balance, and loosen 8 tapping screws ② fitting it on Front Panel Base.

③ To Remove S. E. A. Circuit Board Ass'y from Front Panel Base, take off 5 knobs of S. E. A. Control and loosen 6 tapping screws ③ fitting it.

④ Remove the 5 Seesaw Switchs by loosenning 10 tapping screws ④ fitting them on Front Bracket Base.

⑤ To Remove the Selector Switch, Volume Control, Balance and Speaker Switch, loosen nuts fitting them on Front Bracket Base.

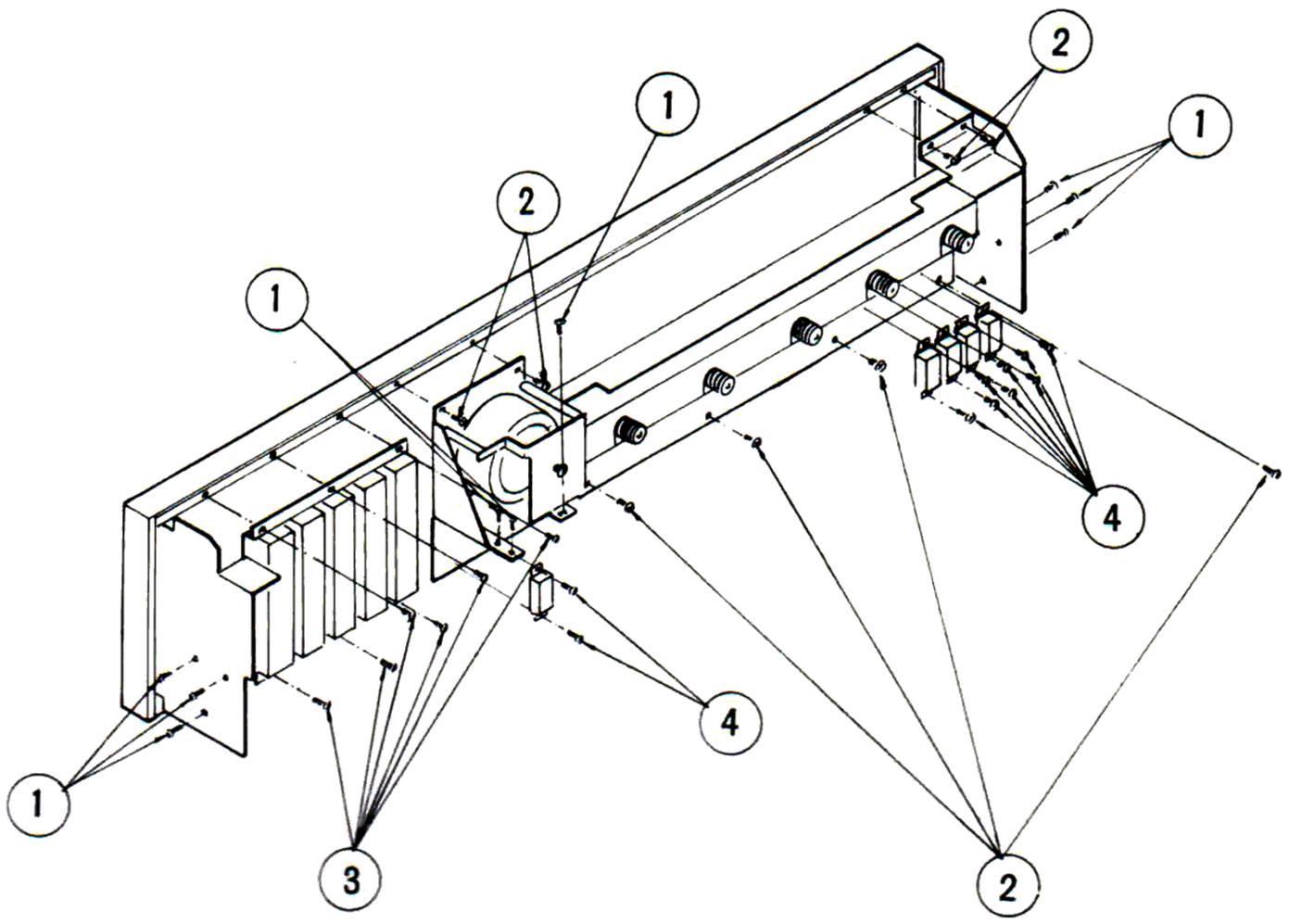

Fig. 5

HOW TO FIT THE DIAL CORD

① Set the variable capacitor on maximum capacity.

② Dial drum has to be fixed with 2 screws.

③ Fit the dial cord in accordance with arrow marks.

④ Wind the cord around tuning shaft 3 times and dial drum 2 times.

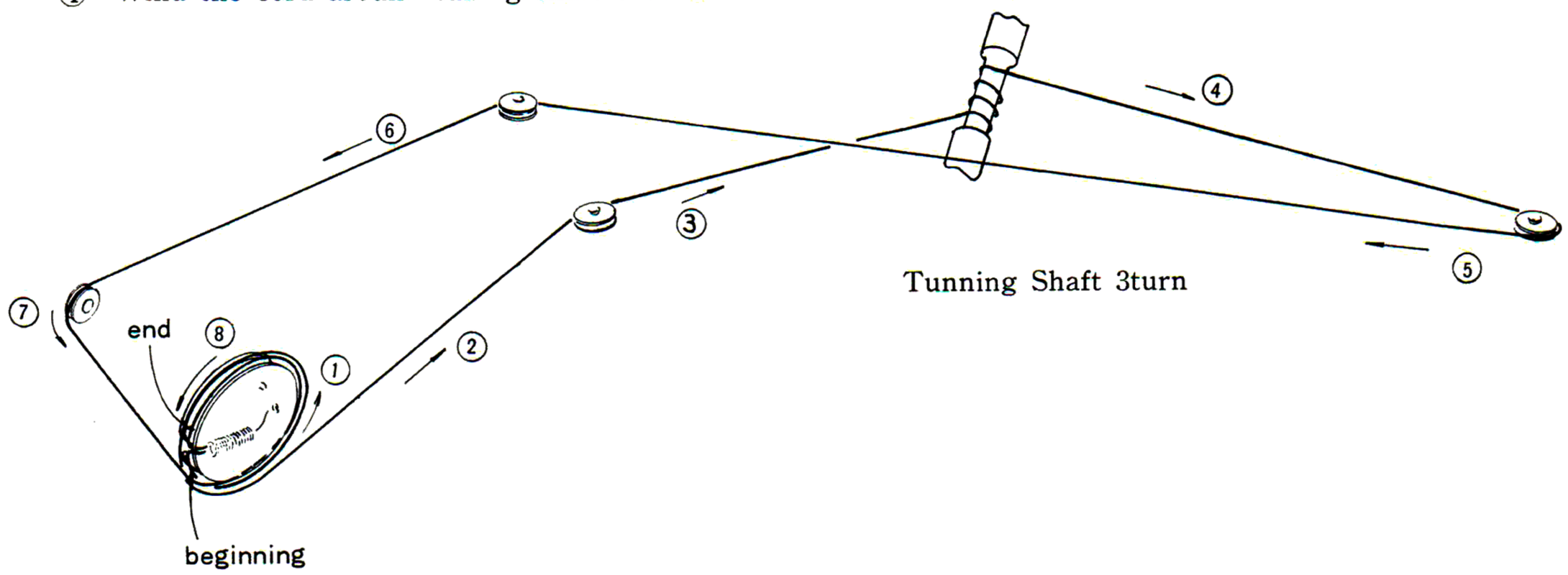

Fig. 6

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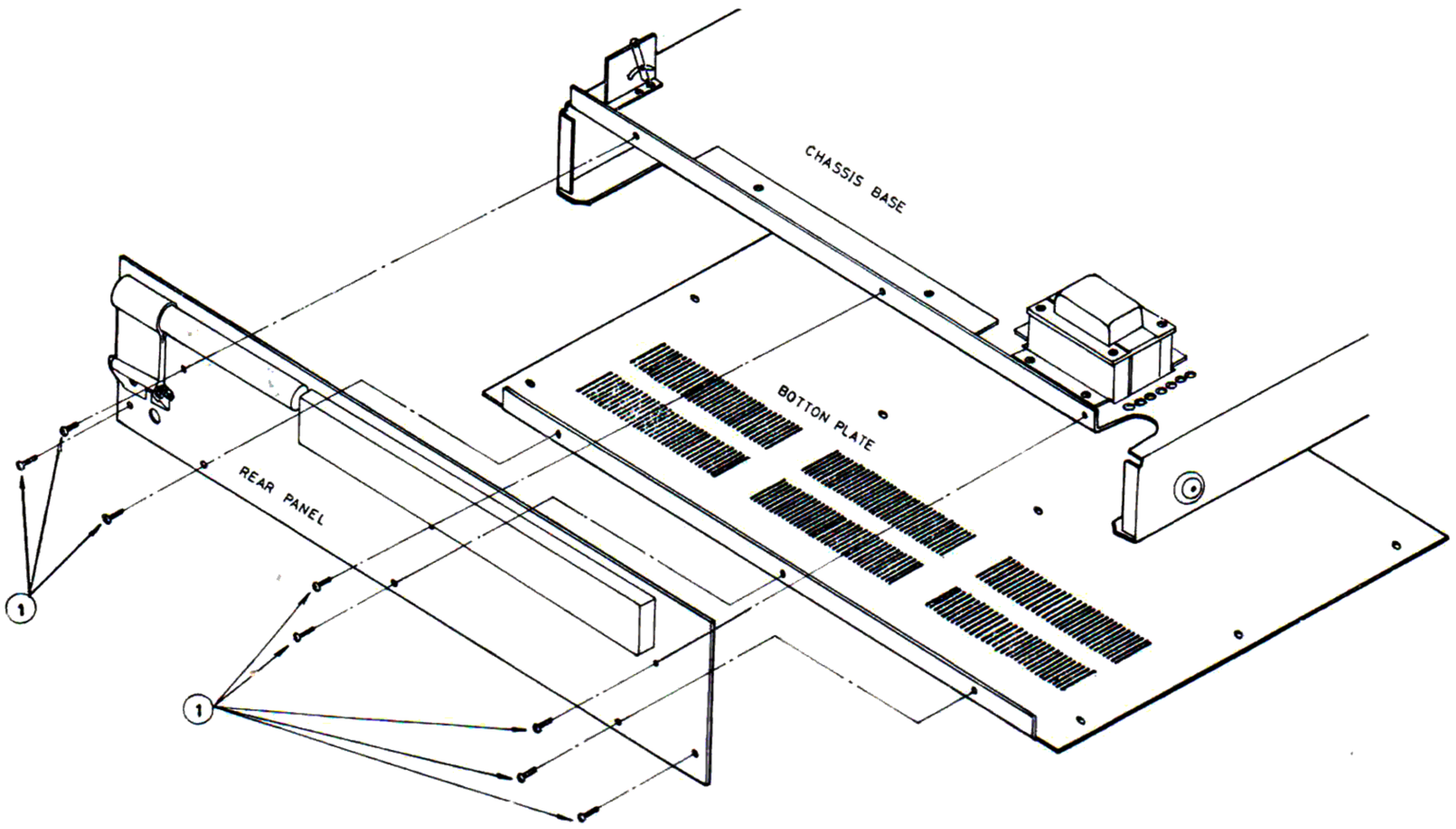
HOW TO REMOVE REAR PANEL

When servicing the Rear Panel, remove it refering to item shown below.

① Remove the Rear Panel from Chassis Base by loosening 8 tapping screws ① fitting it.



ALIGNMENT INSTRUCTION

Maintain line voltage at YOUR LINE voltage. Use only enough generator output to obtain a suitable indicator. Allow 15 minutes warm up for receiver and equipment.

AM ALIGNMENT —— Selector in AM Position ——

1. IF Stage

   Test equipment

   Signal generator : Tune in 455kHz and connect to AM antenna terminal through 0.01μF condenser.

   VTVM : Set to AC low range and connect to speaker terminals on rear panel.
   Set volume control at maximum.
   Set the tuning gang to minimum position.

   Alignment : Adjust generator output so that the VTVM reading becomes 2V approximately.
   Adjust T_{307}, T_{308}, T_{309} for maximum gain.

2. RF Stage

   Test equipment

   Signal generator : To apply generator output, use dummy antenna as shown below.

   VTVM : Connect in the same way as in IF stage alignment.

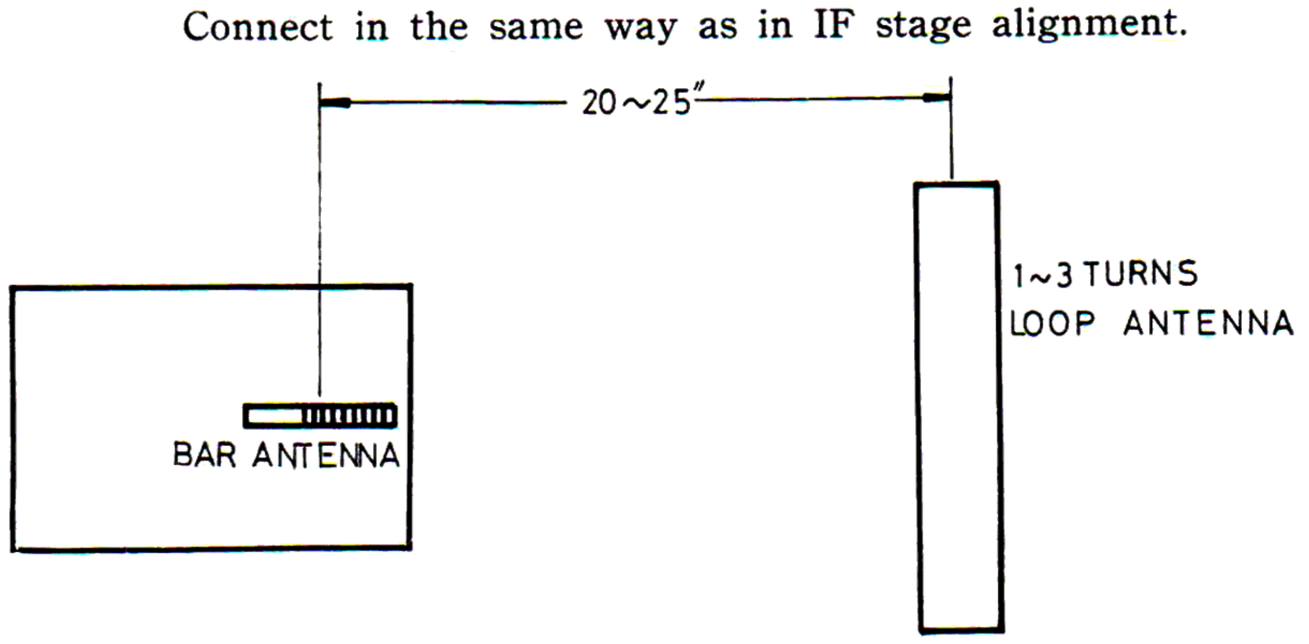


Fig. 7

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Alignment

STEP	GENERATOR	ADJUST	DISCCRIPTION
1	600kHz	T_{306} (Osc. Coil)	Repeat the step 1 ~ 3 for Tuning Dial Scale Corectly
2	1400kHz	T_{CO} (Trimmer)	
3	1000kHz	Check Dial Scale	
Next			
4	600kHz	Bar Antenna	Repeat the step 4 ~ 6 for maximum amplitude.
5	1400kHz	T_{CA} (Trimmer)	

FM ALIGNMENT

1. IF Stage

Test equipment

Sweeper : Connect to test point on FM Tuner Ass'y.

Marker : Couple 10.7MHz output lightly to sweeper output.

Oscilloscop : For vertical input connections, see chart below.

Alignment :

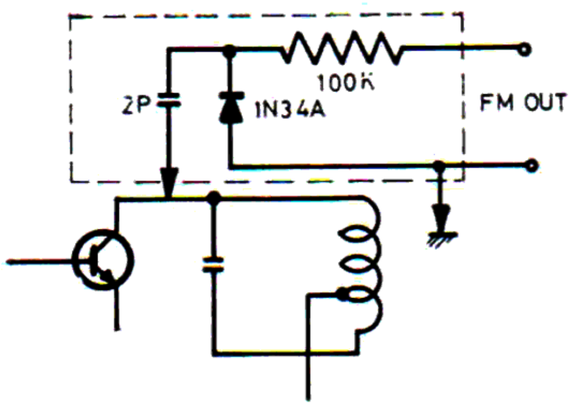
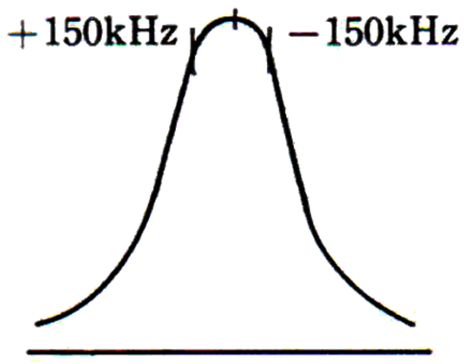
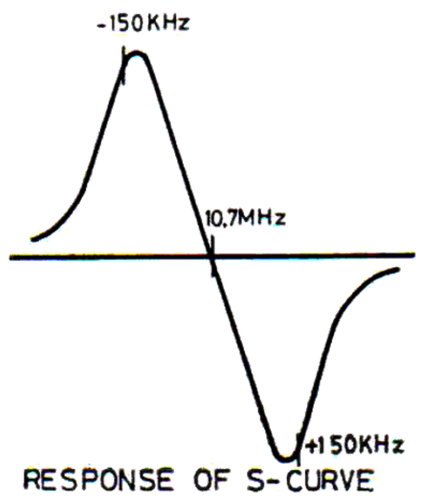
STEP	CONNECT OSCILLOSCOPE	ADJUST	WAVEFORM ON OSCILLOSCOPE	DESCRIPTION
1	Make use of detector  $X_{302, 303}$ $Ic_{301, 302}$	LIF T_{301} T_{302} T_{303} T_{304}	10.7 MHz +150kHz −150kHz  RESPONSE OF BAND-PASS	
2	FM out Tub on TIF-44 circuit board	T_{305}	 RESPONSE OF S-CURVE	Adjust T_{305} (Secondary) to place marker at center of crossover line similar to left fig. Adjust T_{305} (Primary) for maximum amplitude and straightness of crossover line.
3	Repeat the step 1 and 2			

Fig. 8

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2. RF stage

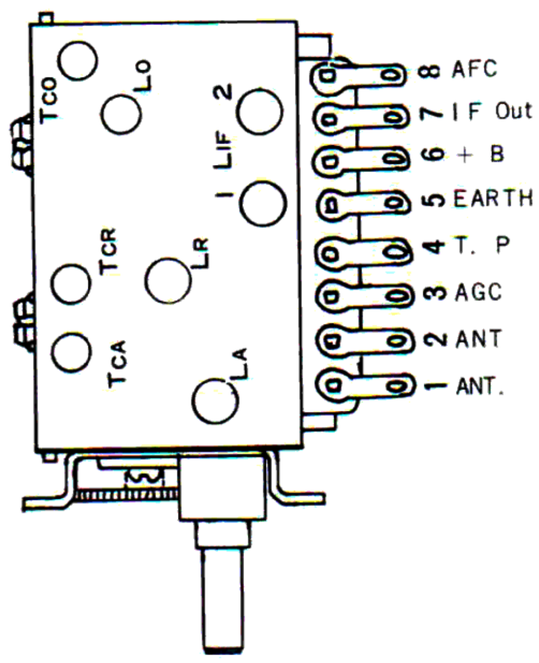
Test equipment

Signal generator : Connect 300 ohm balanced output to FM antenna terminal.
Modulation 400Hz 30%. Antenna input 1mV=60dB (0dB=1μV).

VTVM : Set to AC low range and connect to speaker terminal on the rear panel.
Adjust Volume control so that the VTVM reading becomes 5V approximately.

Alignment :

STEP	GENERATOR	ADJUST	DESCRIPTION
1	88.0 MHz	Lo	Repeat the Step 1 ~ 3 for Tuning Dial Scale Correctly
2	108.0 MHz	T_{CO}	
3	92.0 MHz	Check Dial Scale	
Next			
4	88.0 MHz	L_A L_R	Repeat the Step 4 ~ 6 for maximum amplitude
5	108.0 MHz	T_{CA} T_{CR}	



PROTECTOR ADJUSTMENT (Adjust one channel apart) —— Selector in Aux 1 ——

1. Before adjust protector function, cut to protector senser circuit from emitter of Power Transistor X_3, X_4, (Point X) and connect Audio Generator and VTVM to protector senser circuit refering Fig. 9. (above)

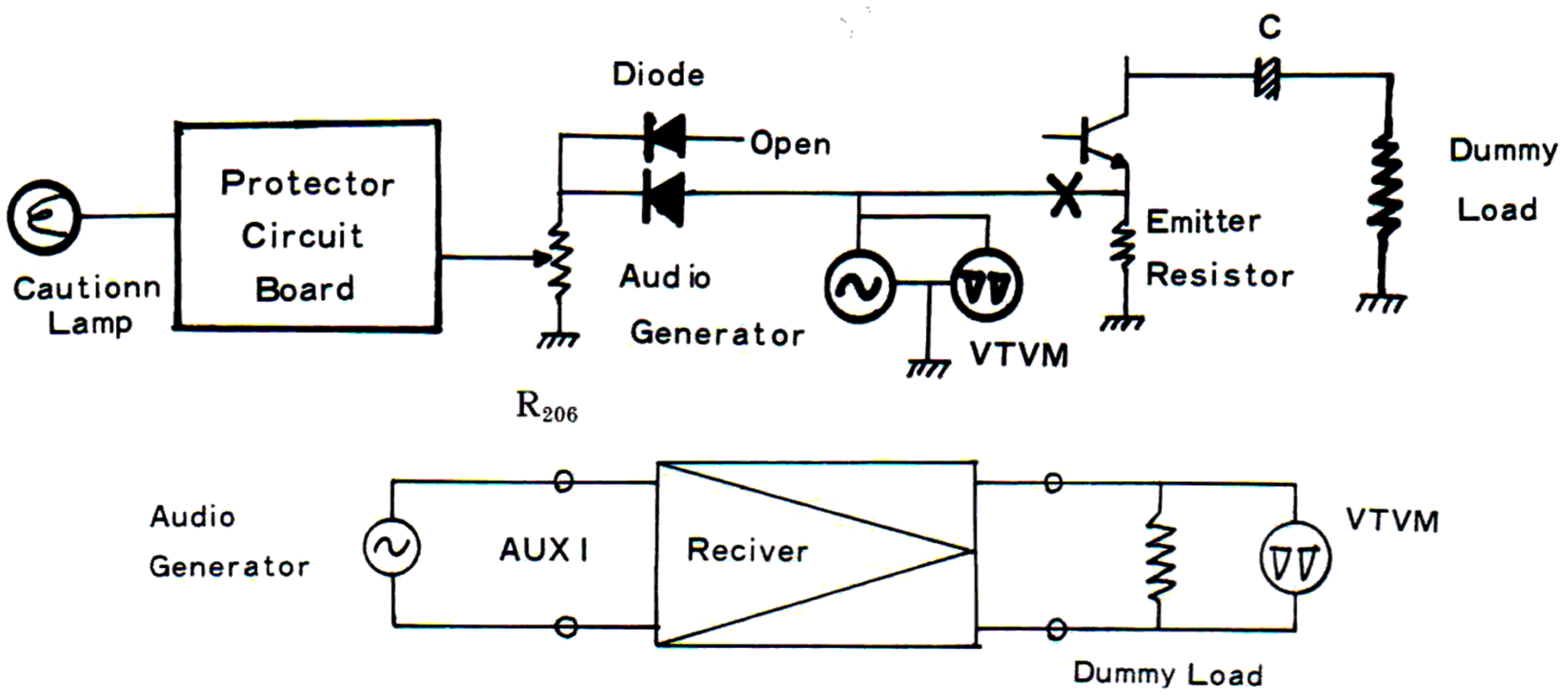


Fig. 9

※ Protector setting level at speaker terminal connecting 8Ω Dummy Load.

4V·····When short Speaker Terminal, Protector must work.

1.5V····When short Speaker Terminal, Protector does not work.

2. Test equipment (Fig. 9 above)

Audio generator : Tune in 1kHz.

VTVM : Set AC 3V range and Connect to Audio generator output terminal.

Resistor : Connect 8 ohm Dummy Load more than 15 watts to the speaker terminal.

3. Adjustment (Fig. 9 above)

① Set R_{206} (500Ω VR) to minimum position.

② Adjust generator output so that the VTVM reading becomes 1.20V (r.m.s.).

③ Adjust R_{206} until protector just work and Caution Lamp comes on.

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4. Check (Fig. 9 below)

Cut Audio Generator and VTVM from protector senser circuit and connect again protector senser circuit to emitter of Power Transistor X_3 or X_4.

④ Connect VTVM to speaker terminal and set 10V range.

⑤ Connect Audio Generator to Aux 1 and adjust generator output voltage so that VTVM reading becomes 4V and short speaker terminal, protector just work, Caution Lamp comes on.

⑥ Next, adjust again generator output voltage so that VTVM reading becomes 1.5V and short speaker terminal, but protector does not work.

⑦ If you can not satisfy ⑤, ⑥, adjust again from the first item.

USE X'TAL CARTRIDGE

When use X'tal cartridge, connect Aux. 1 or 2 terminal.

NOTE : A sort of Resistor's Parts Number shown below.

Parts No.	Sort of Resistor	
Q04804-	Carbon Resistor	½ W
Q04800-	〃	¼ W
04091-	Composition Resistor	½ W
04090-	〃	¼ W
Q04772-	Metal Oxide Resistor	1 W

When you order Resistor, write required Resistor value in addition to the right-hand of hyphen.

For example : Q04804-1K=Carbon Resistor 1KΩ ½W.

Q04772-100=Metal Oxide Resistor 100Ω 1W.

ACCESSORIES

E64207-001	Envelope	1
E30580-182A/185A	Instruction Book	1
E64103-001	Polishing Cloth Ass'y	1
E64208-001	Envelope	1
Q04741-3/04112-1.8	Fuse 3.3A 1.8A	1
Q30042-1	Plug	4
E64213-002/001	Warranty Card	1
E45577-001	S.E.A. Tag	1
V40962-3	Caution Tag	1

CHECK POINT AFTER REPAIR

Please make sure of the following respects when repair is finished.

1. Each broadcasting frequency accords with dial scale accurately.
2. No abnormal oscillation occur in FM & AM receptions.
3. Modulation hum is practically not appreciable.
4. Normal gain and output are obtained.
5. Both high and low ranges of audio frequency are not decreased exceptionally.
6. S.E.A. Controls operate normally.
7. Normal fuse is used : 1.8A Ampere for 200~240V. 04112-1.8
   3.3A Ampere for 100~120V. Q04741-3/04112-3.3

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PARTS ARRANGEMENT ON PRINTED CIRCUIT BOARD

TIF-44 AM & FM IF Circuit Board

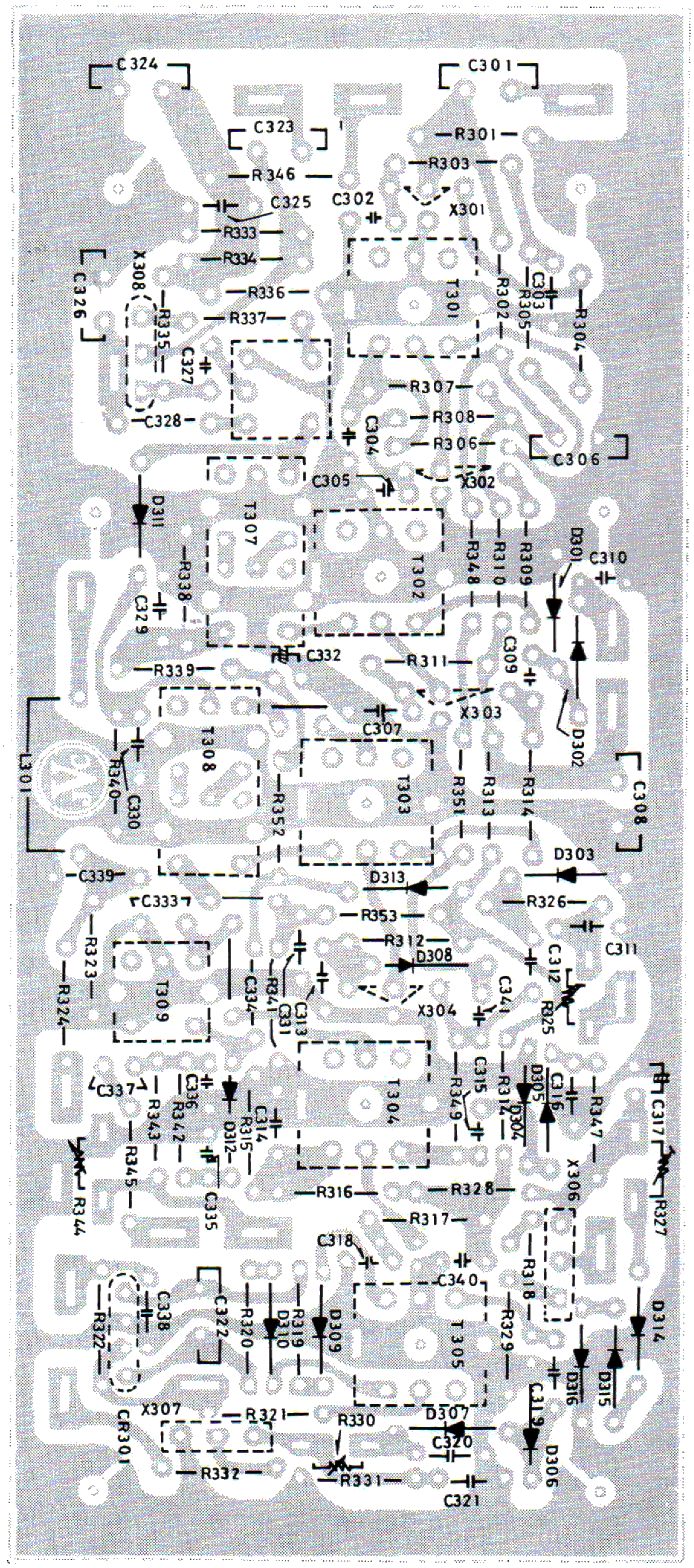

Fig. 10

TMX-4ES-3 FM Multiplex Printed Circuit Board

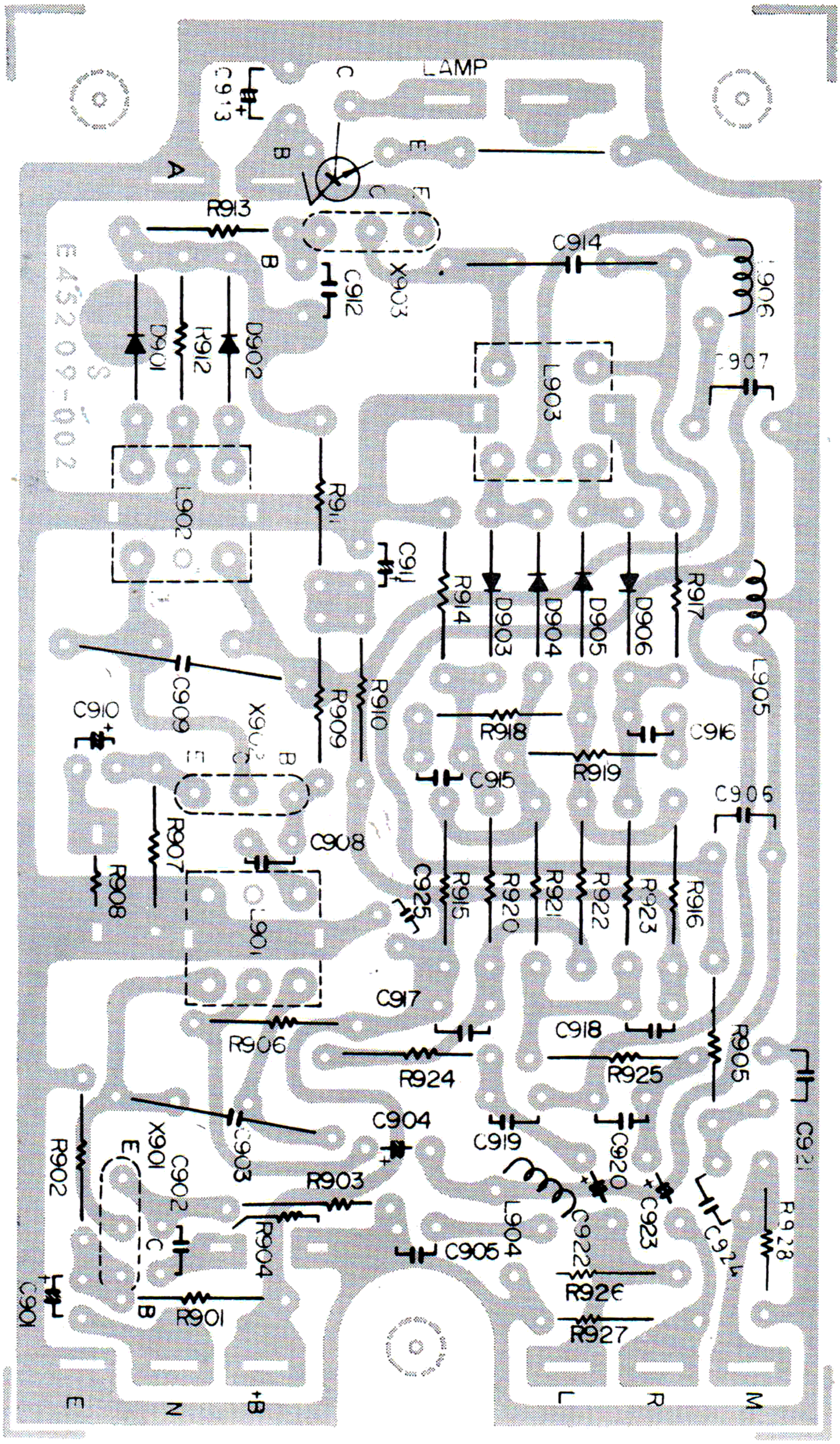

Fig. 11

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TAE-39 Equalizer Amplifier Circuit Board

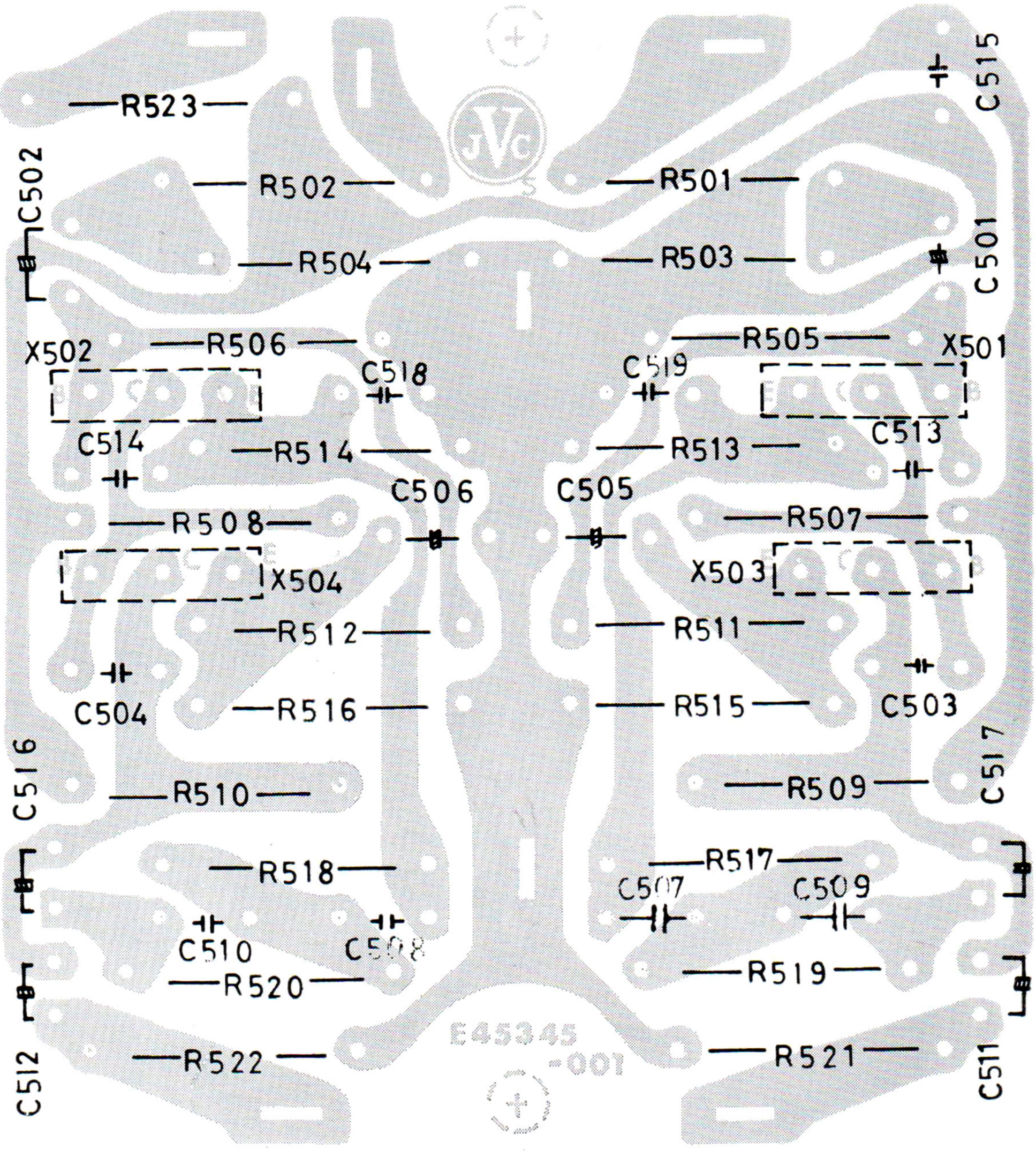

Fig. 12

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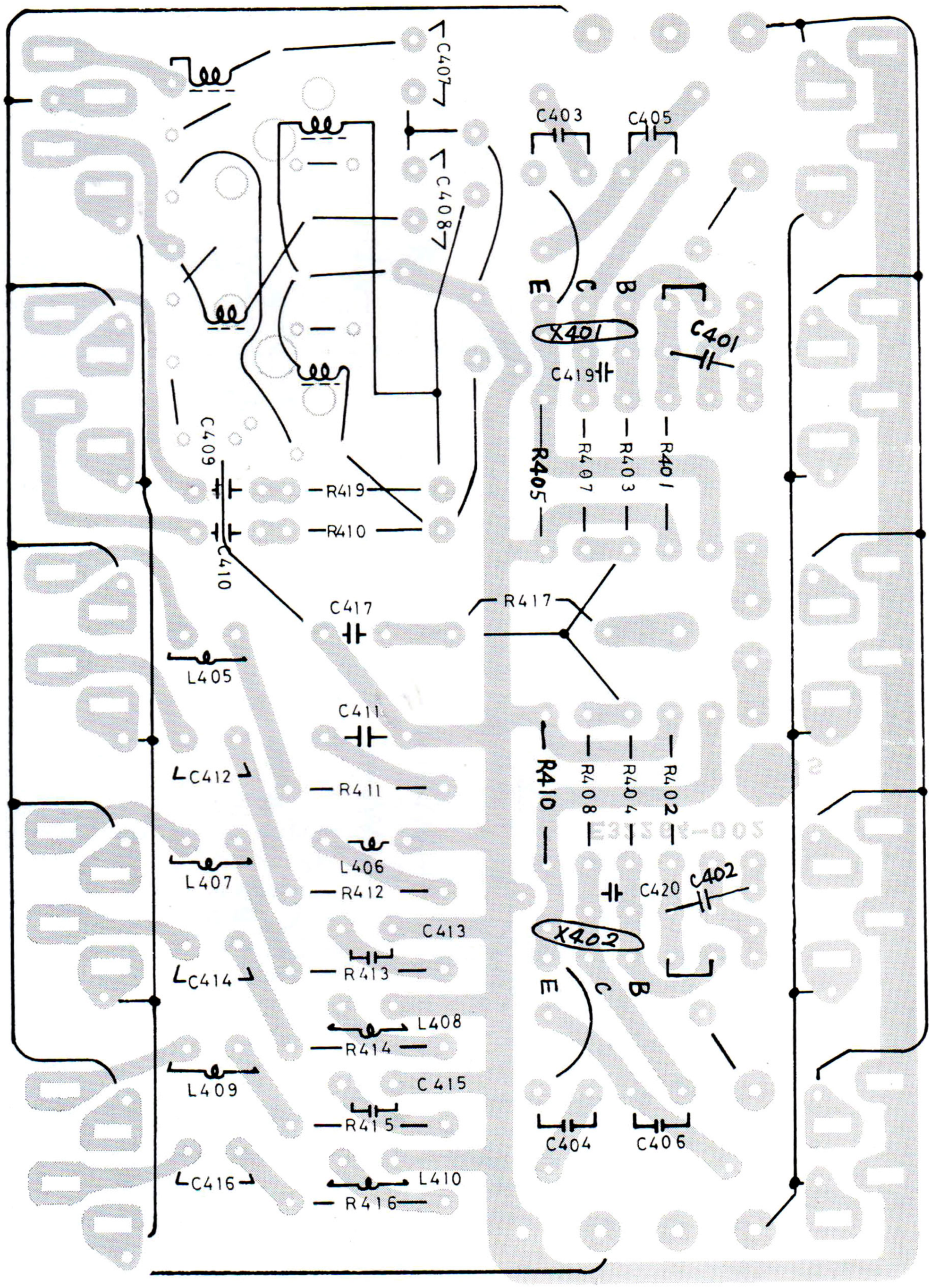

Fig. 13

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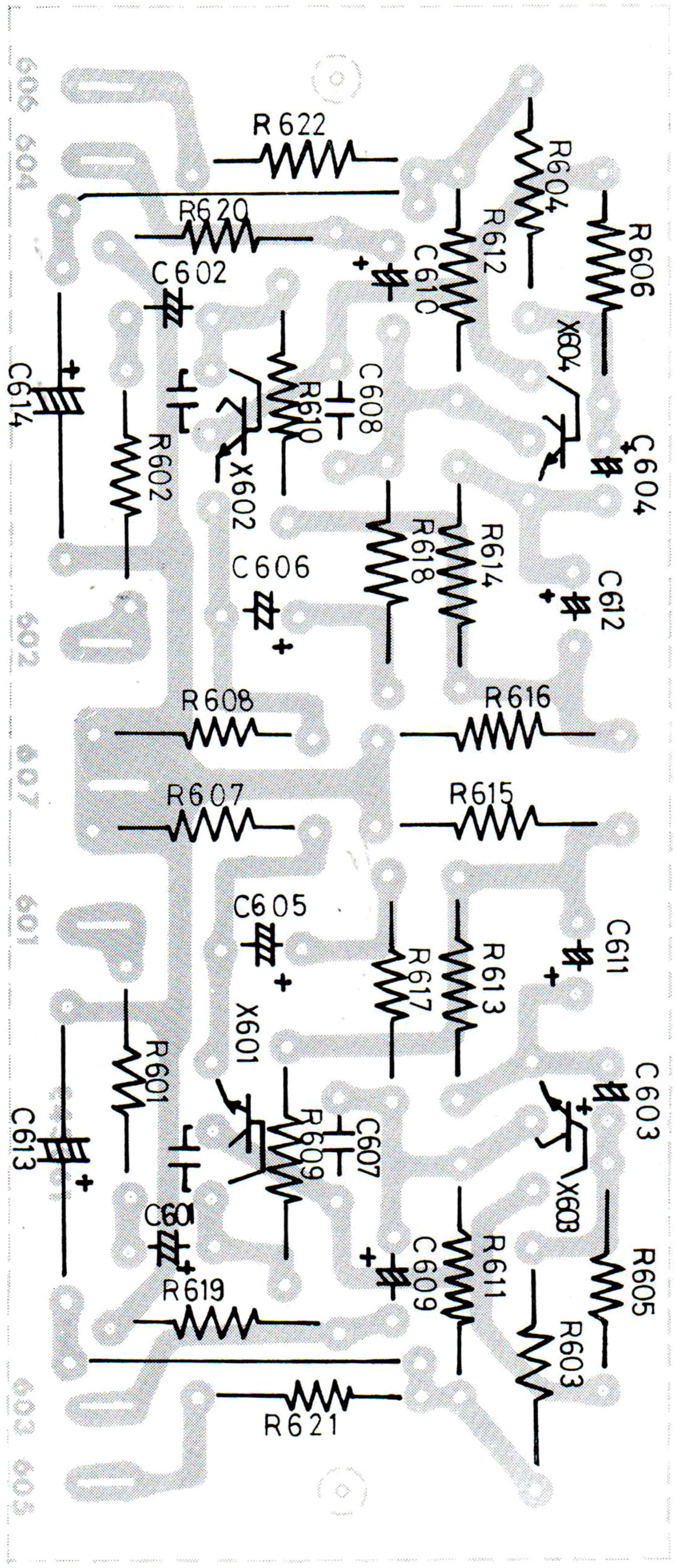

Fig. 14

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TAD-27 Driver Amplifier Printed Circuit Board

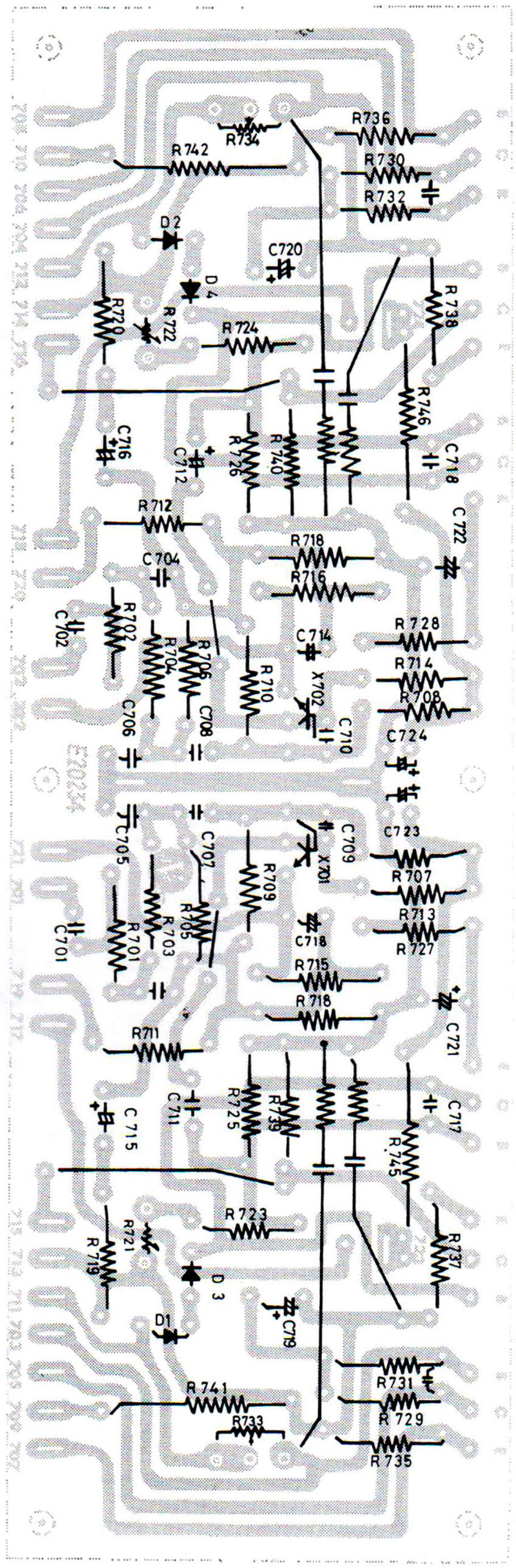

Fig. 15

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TAP-38 Protector & Power Supply Printed Circuit Board

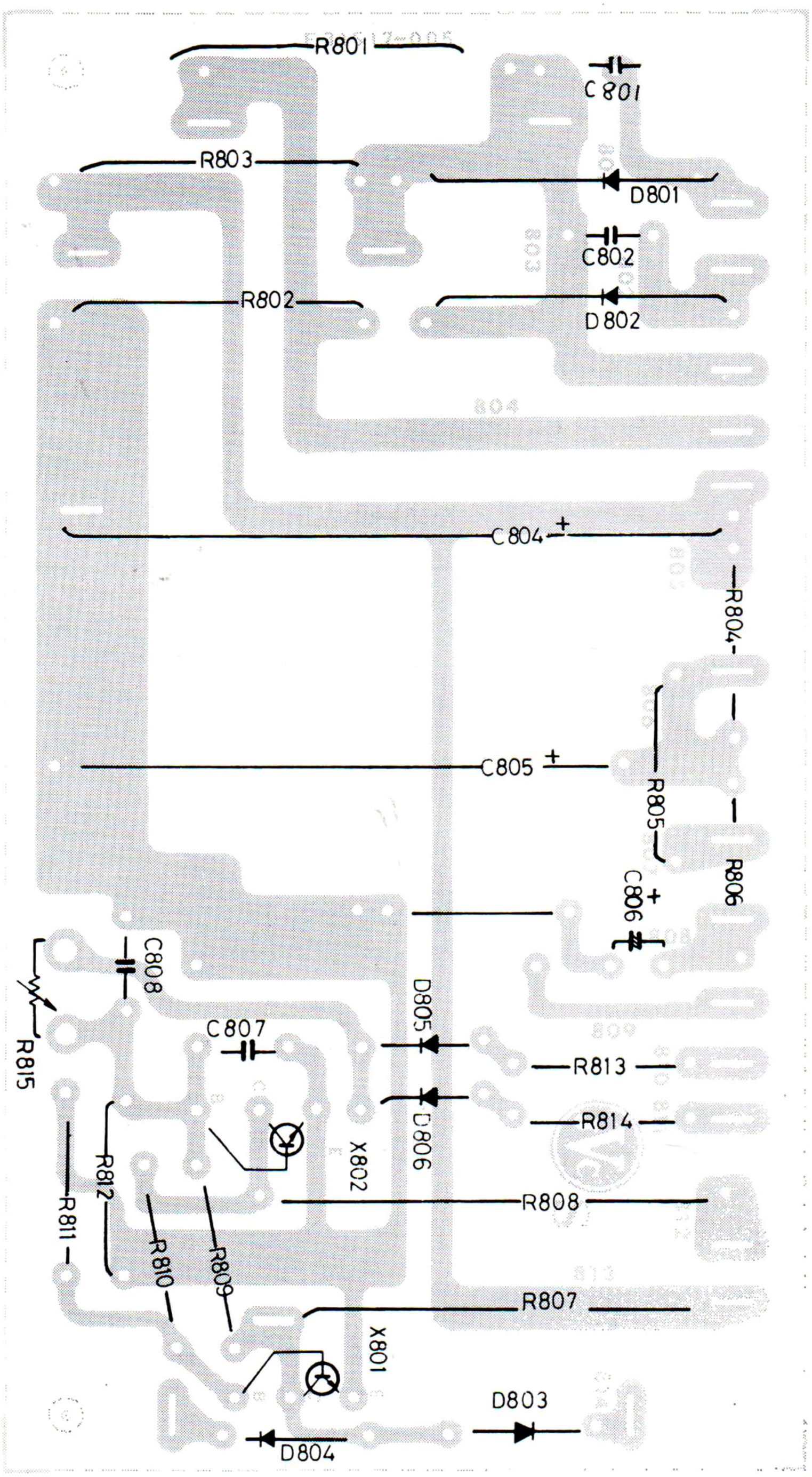

Fig. 16

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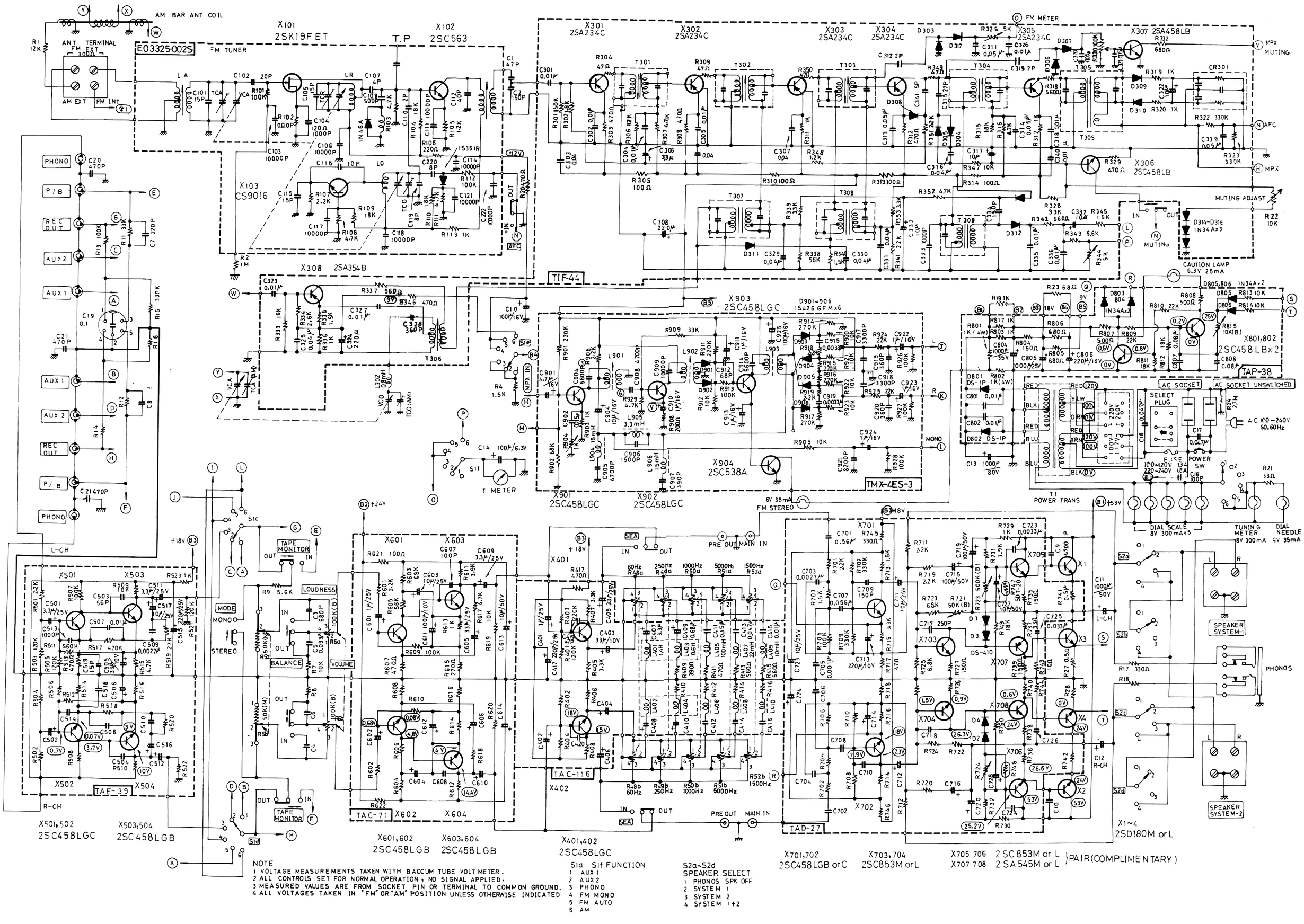

NOTE
1 VOLTAGE MEASUREMENTS TAKEN WITH BACCUM TUBE VOLT METER.
2 ALL CONTROLS SET FOR NORMAL OPERATION, NO SIGNAL APPLIED.
3 MEASURED VALUES ARE FROM SOCKET PIN OR TERMINAL TO COMMON GROUND.
4 ALL VOLTAGES TAKEN IN "FM" OR "AM" POSITION UNLESS OTHERWISE INDICATED

S1a S1f FUNCTION
1 AUX 1
2 AUX 2
3 PHONO
4 FM MONO
5 FM AUTO
6 AM

S2a~S2d SPEAKER SELECT
1 PHONOS SPK OFF
2 SYSTEM 1
3 SYSTEM 2
4 SYSTEM 1+2

Schematic Diagram of Model 5020/5020U

Subject to change without notice.

The List of Main Parts for Replacement

PARTS NO.	PARTS NAME	DESCRIPTION
Cabinet Parts		
D91005	Wooden Case	
51869-2	Mounting Washer	
WLS6000	Lock Washer	
SPSP6025ZS	Mounting Screw	
Front Panel Ass'y Mechanical Parts		
E20252-004	Front Panel Sub Ass'y	
E20207-003	Panel Base	
E32203-001	S. E. A. Panel	
E32206-001	Control Panel	
E42315-001	Fitting	To Divide Control panel and S. E. A. Panel on Front Panel Base
E42308-001	〃	Both Out Side on Front Panel Base
E32240-003	Window Screen	"JVC" Mark
E32207-003	〃	"NIVICO" Mark
Front Bracket Ass'y Mechanical Parts		
E20533-001	Front Bracket Ass'y	
E45129-001	Power Switch Bracket	For Power Switch
E45111-002	Meter Bracket	For Tuning Meter
E44942-001S	Lamp Holder	For FM Stereo Rader
53243-4	Rubber Bushing	
E32209-002	Reflector	
E44920-001	Rubber Bushing	For Pilot Lamp Socket
E45113-001	Back Screen	Green
E32258-001	Dial Scale	
E32211-001	Shield Plate	Black
E45114-001	Tuning Shaft Ass'y	
E5357-2	Nut	
E45117-001S	Stud	
E45282-001	Support Bracket	For Tuning Shaft
E45108-001	Support	For Tuning Shaft Bearing
E5357-1	Nut	For Fix to Bearing
E42320-002	Special Nut	For Fix to Front Panel
E45119-001	Needle Ass'y	
E42937-001	Spacer	
Back Panel Mechanical Parts		
E20209-005	Back Panel	
E41021	Bar Antenna Holder	
E50634-002	Bar Antenna Bracket	
Knobs		
E43581-001	Slide Knob	For S. E. A. Control
E45303-001	Tuning Knob	
E45320-001	Select Knob	For Speaker, Balance, Volume, Select
E50483-003	Push Button Knob	For Power Push Switch

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PARTS NO.	PARTS NAME	DESCRIPTION
Switches		
Q03718-13	Rotary Switch	Function Selector
Q03738-001	〃	Speaker System Selector
Q30025-1	Seesaw Switch	With Knob
Q03885-1S	Push Switch	For Power Switch
E44865-001S	Screw	For Power Push Switch
Sockets, Jacks, Plugs & Terminals		
Q30110-A	Lamp Socket	For Meter Lighting
50689	〃	For Dial Scale Lighting
Q30120-001	AC Outlet	External Power Source
E04084	Voltage Selector Socket	
E04085	Voltage Selector Plug	
Q30210-001	Fuse Socket Ass'y	
Q03967-S	DIN Socket Ass'y	
E04086	Transistor Socket	For Power Transistor
E03963-001	Jack Ass'y	Earphone
E0778-40	Pin Jack Ass'y	4 Pin
E0778-60	〃	6 Pin
E41490	Pin Plug Ass'y	Connection Main and Pri-Amp.
Q30042-1	Pin Plug	
Q30156-001	Speaker Terminal Board	
E04069	Push Terminal	For earth
Q30156-006	Antenna Terminal Board	
Coil & Transformer		
E03037-18	Bar Antenna Coil	
E03098-4	Power Transformer	
Tuner		
E03325-002S	FM Front End	U. Band FM Tuner Unit
Variable Resistors		
E03306-001S	Slide Variable Resistor	For S. E. A. Control
E0366-21	Variable Resistor	100KΩ Volume Control (B)
Q03804-15	〃	50KΩ Balance
Q04833-7	〃	10KΩ Muting Adjustment
Resistors		
E04117-3-470	Unflamable Resistor	470Ω 3W
E04117-10-2	〃	2Ω 10W
Q04768-0.5	Wire Wound Resistor	0.5Ω 3W
Capacitors		
Q03600-21	Electrolytic Capacitor	1000μF/80WV Output Circuit $C_{21, 22}$
Q03604-21	〃	2200μF/100WV Ripple Filter Circuit C_{25}
Q03592-21	〃	1000μF/50WV Ripple Filter Circuit C_{26}
Q03104-100	〃	100μF/6WV Tuning Meter Circuit C_{31}

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PARTS NO.	PARTS NAME	DESCRIPTION
Other Parts		
E0359-D	Indicator	Tuning Meter
E41250-1	Thermistor Supportor	
Q03056-14	Power Cord	Power Cord Stopper E31704-001
Q04967-9	Pilot Lamp	8V 0.3A For Tuning Meter & Dial Scale Light
Q04962-005	Mini Lamp	
TMX-4ES-3	MPX. Circuit Board Ass'y	
2SC458LC	Si Transistor	X_{901}
2SC458LB	〃	$X_{902, 903}$
2SC538A	〃	X_{904}
1S426GFM	GE Diode	$D_{901}\sim_{906}$
E03117-004	MPX. Coil	L_{903}
〃 -011	〃	L_{901}
〃 -012	〃	L_{902}
E0747-1	Ferri Inductor	$L_{904, 906}$
E03074-4	〃	L_{905}
Q04843-4	Variable Resistor	R_{908}
Q04845-3	〃	R_{904}
Capacitors		
Q03244-152	Mylar Capacitor	C_{906}
〃 -332	〃	$C_{915}\sim_{918}$
〃 -472	〃	$C_{905, 908}$
〃 -822	〃	C_{921}
〃 -105	〃	C_{902}
Q03265-562	Polystyrol Capacitor	$C_{903, 914}$
〃 -103	〃	C_{919}
Q04336-68	Ceramic Capacitor	C_{912}
Q04051-390	〃	C_{907}
〃 -360	〃	$C_{919, 920}$
Q03112-1	Electrolytic Capacitor	$C_{910, 911, 913, 922}\sim_{924}$
〃 -5	〃	$C_{901, 904}$
Q03108-100	〃	C_{925}
TAC-116	S. E. A. Circuit Board Ass'y	
E32264-003	Circuit Board	
E03108-11	Choke Coil	$L_{401}\sim_{404}$
E43693-001	Shield Ring	For $L_{406, 405}$
E0747-8	Ferri Inductor	$L_{405, 406}$ 100mH
〃 -9	〃	$L_{407, 408}$ 22mH
〃 -10		$L_{409, 410}$ 10mH
2SC458LGC	Si Transistor	$X_{401, 402}$
Capacitor		
E03131-3.3	Tantal Capacitor	$C_{407, 408}$ 3.3μF/25V
E03131-0.68	〃	$C_{409, 410}$ 0.68μF/25V

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PARTS NO.	PARTS NAME	DESCRIPTION
E03137-1	Tantal Capacitor	$C_{401, 402}$ 1μF/25V
Q03106-30	Electrolytic Capacitor	$C_{403, 404}$ 30μF/25V
Q03110-30	〃	$C_{405, 406}$ 30μF/25V
〃 -200	〃	C_{417} 200μF/25V
Q04052-7	Ceramic Capacitor	$C_{419, 420}$
Q03244-103	Mylar Capacitor	$C_{415, 416}$
〃 -473	〃	$C_{113, 414}$
〃 -154	〃	$C_{411, 412}$
TAE-39	Equalizer Circuit Board Ass'y	
2SC458LGC	Transistor	$X_{501, 502}$
2SC458LGB	〃	$X_{503, 504}$
Capacitor		
Q03110-200	Electrolytic Capacitor	C_{515}
Q03104-30	〃	$C_{505, 506}$
Q03110-3	〃	$C_{511, 512}$
E03137-3.3	Tantal Capacitor	$C_{501, 502}$
Q03244-103	Mylar Capacitor	$C_{507, 508}$
〃 -272	〃	$C_{509, 510}$
〃 -102	〃	$C_{513, 514}$
Q04305-56	Ceramic Capacitor	$C_{503, 504}$
TAC-71	Pri-Amplifier Circuit Board Ass'y	
2SC458LGB	Transistor	X_{601}～$_{604}$
Capacitor		
Q03111-10	Electrolytic Capacitor	$C_{611, 612}$ 10μF/50V
Q03110-10	〃	$C_{603, 604}$ 10μF/50V
〃 -30	〃	$C_{605, 606}$ 30μF/25V
Q03106-100	〃	$C_{611, 617}$ 100μF/10V
Q03195-3.3	〃	$C_{609, 610}$ 3.3μF/25V
〃 -1	〃	$C_{601, 602}$
Q04305-100	Ceramic Capacitor	$C_{607, 608}$
TAD-27	Drive Amplifier Circuit Board Ass'y	
2SC458LGB	Transistor	$X_{701, 702}$
2SC853M or L	〃	X_{703}～$_{706}$
2SA545M or L	〃	$X_{707, 708}$
DS410	Varistor	D_1～$_4$
Capacitor		
Q03111-10	Electrolytic Capacitor	
Q03104-500	〃	$C_{721, 722}$ 500μF/6V
Q03106-200	〃	$C_{713, 714}$ 200μF/10V
Q03110-10	〃	$C_{711, 712, 721, 722}$ 10μF/25V
Q03112-100	〃	$C_{715, 716, 719, 72^0}$ 100μF/50V
Q03244-332	Mylar Capacitor	
Q03244-102	〃	$C_{705, 706}$
〃 -272	〃	$C_{703, 704}$
〃 -563	〃	$C_{701, 702, 707, 708}$
Q03244-333	〃	
Q04305-150	Ceramic Capacitor	$C_{709, 710}$
〃 -220	〃	$C_{717, 718}$

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PARTS NO.	PARTS NAME	DESCRIPTION
Resistor		
Q04768-0.5	Wire Wound Resistor	$R_{741, 743}$ (500Ω)
Q04842-6	Variable Resistor	$R_{733, 734}$ (50KΩ)
Q04848-3	〃	$R_{721, 722}$
TAP-38	Power Supply and Protector Circuit	
2SC458LB	Transistor	$X_{801, 802}$
DS-1P	Si Diode	$D_{801, 802}$
1N34A	Ge Diode	D_{803}～$_{806}$
Capacitor		
Q03137-1000	Electrolytic Capacitor	C_{804} 1000μF/35V
Q03109-1000	〃	C_{815} 1000μF/25V
Q03108-200	〃	C_{806} 200μF/16V
Q42309-01	Ceramic Capacitor	$C_{801, 802}$
Q46962-08	〃	$C_{807, 808}$
Resistor		
Q04782-1KT	Wire Wound Resistor	R_{817} (4W)
Q04782-1K	〃	R_{801}～$_{803}$ (4W)
Q04791-1K	Carbon Resistor	$R_{807, 808}$ (2W)
〃 -3.3K	〃	R_{816} (2W)
Q04846-5	Variable Resistor	R_{815} (10KΩ)

Requirement to Customers

△ **For the purpose of prompt supply of service parts, inscribe parts number, parts name, and model name correctly when you order.**

△ **If possible, please give an order for spare cabinet in early opportunity since it is very difficult to remanufacture cabinet case after production of the set was discontinued.**

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The List of JVC NIVICO Service Manual

(Phonograph)

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
2081	4TR-3U	2091	ARC-30A,30B	2101	N760MG,N99U	2111(B)	STC-707C (R#-2)	2121	5007	2131	STP-808A	2141	5320,5340
2082	N-55T	2092	4TR-55T	2102	SRP-472E	2112	SST-61	2122	L-21M	2132	ARC-41,42	2142	L311D
2083	SRE-103E	2093	N670, N770 4TR-99u, etc	2103	SRP-469E	2113	FRS-103EH.V (R#-2)	2123	ARC-10 Series	2133	TRE-666C	2143	6102,6103,6104
2084	N590F, 4TR-590F	2094	STP-7LA	2104	ARC-10L	2114	STP-808C	2124(B)	5003 (Revised)	2134(B)	4TR-990(D)	2144	ARC-10Y
2085	ARC-40A	2095	TRE-26C	2105	BLA-204,208 BLA-304,30E	2115	SSL-95E	2125	L-311C	2135	5001	2145	5011/PST-1000E 5012/MST-1000E
2086	TRE-12F	2096	STP-7F	2106	AST-140E	2116	MSL-16T	2126	5204	2136	SRP-B30E/ 5230	2146	5201
2087	SRP-467E	2097	N880 (R#-2)	2107	ARC-12C,E	2117	AST-215E	2127	4210,4220,4230 & (R#-2)	2137	N-65F	2147	MSL-300E
2088	SRP-468E	2098	N163	2108	CSL-1E	2118	SRC-700U	2128	5305	2138	4TR-511D, L511D	2148	5310
2089	ECA-101E	2099	4TR-6U	2109	MSL-8E	2119	AST-102E	2129	TRE-12T	2139(B)	SRP-B40E/5240	2149	MSL-110S
2090	STC-19	2100	MSL-15E	2110	SST-31	2120	No. 200E Series	2130	5304	2140	5203	2150	5205

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
2151(B)	5040 (R#-2)	2161	4333U	2171	5202								
2152	SSL-46E SSL-46EA	2162	MPX-18B	2172	5220								
2153	MSL-300ES	2163	MCA-104E	2173	ARC-15A								
2154	4330	2164	SEA-100E/5100	2174	4344, 4344U								
2155	N-404, N-404Y	2165	5240B	2175	4450								
2156(B)	MSL-501E	2166	4330U	2176									
2157	N202, 303	2167	MCA-105E/ 5107	2177									
2158	4211	2168	5030/5030U	2178									
2159(B)	4333U, 4333	2169	SRC-900	2179									
2160	5010	2170	5200	2180									

Printed in Japan

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