

# JVC

NO. 2341

# SERVICE MANUAL

MODEL

## 4VR-5426X

FM/AM 4-CHANNEL RECEIVER  
WITH CD-4 DEMODULATOR



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# SPECIFICATION

## FEATURES:

- \* CD-4 demodulator built-in
- \* Matrix-1 and matrix-2 decoders built-in
- \* Direct coupled pure complementary OCL power amplifier
- \* Speaker selector switch including BTL switch
- \* Independent 4channel level controls
- \* External noise reduction unit is able to be connected for FM broadcasting
- \* FET equipped sensitive FM front-end
- \* 2 Mechanical filters and IC for FM IF stages
- \* Mechanical filter and IC for AM IF stages
- \* PLL IC equipped FM multiplex
- \* Dual purpose tuning meter (AM signal strength, FM center tuning)
- \* FM detector output for future FM discrete 4channel broadcast
- \* Built-in FM line antenna
- \* Others: Bass, treble tone controls for front and rear, Loudness control, 4channel tape monitor switch

## DIMENSIONS:

Height:	6-3/8 inch	(16.3 cm)
Width:	18-3/4 inch	(47.6 cm)

## WEIGHT:

Net:	29.8 Lbs.	(12.2 kg)
Gross:	29.6 Lbs.	(13.9 kg)

## AMPLIFIER SECTION

RMS Power:	13W per channel at 8 $\Omega$
All channels driven, 20Hz~20kHz power bandwidth	13W per channel at 4 $\Omega$ 30W per channel at 8 $\Omega$ (BTL)
RMS Power:	68W (17W x 4) at 8 $\Omega$
All channels driven, at 1kHz	72W (18W x 4) at 4 $\Omega$ 68W (34W x 2) at 8 $\Omega$ (BTL)
Total Dynamic Power (IHF):	112W (28W x 4) at 8 $\Omega$ 148W (37W x 4) at 4 $\Omega$
IHF Power Bandwidth:	10Hz~40kHz
Total Harmonic Distortion:	1.0% at rated output 0.1% at half rated output
Intermodulation Distortion:	1.0% at rated output 0.2% at half rated output
Load Impedance:	4 $\Omega$ ~16 $\Omega$ (8 $\Omega$ ~16 $\Omega$ : for BTL)
Damping Factor:	30 at 8 $\Omega$
Input Sensitivity, Impedance and S/N Ratio:	Phono 1.5mV/100k $\Omega$ , 65dB Aux 200mV/50k $\Omega$ , 75dB Tape Play 200mV/50k $\Omega$ , 75dB
Recording Output Level:	Tape Rec. 200mV
Frequency Response:	20Hz~30kHz, $\pm$ 1dB
Bass Control:	$\pm$ 10dB at 100Hz
Treble Control:	$\pm$ 10dB at 10kHz
Loudness Control:	+12dB at 50Hz +6dB at 10kHz
Crosstalk:	50dB at 1kHz
Note:	
RMS Power:	15W per channel at 8 $\Omega$
All channel driven, 40Hz~20kHz power bandwidth	15W per channel at 4 $\Omega$

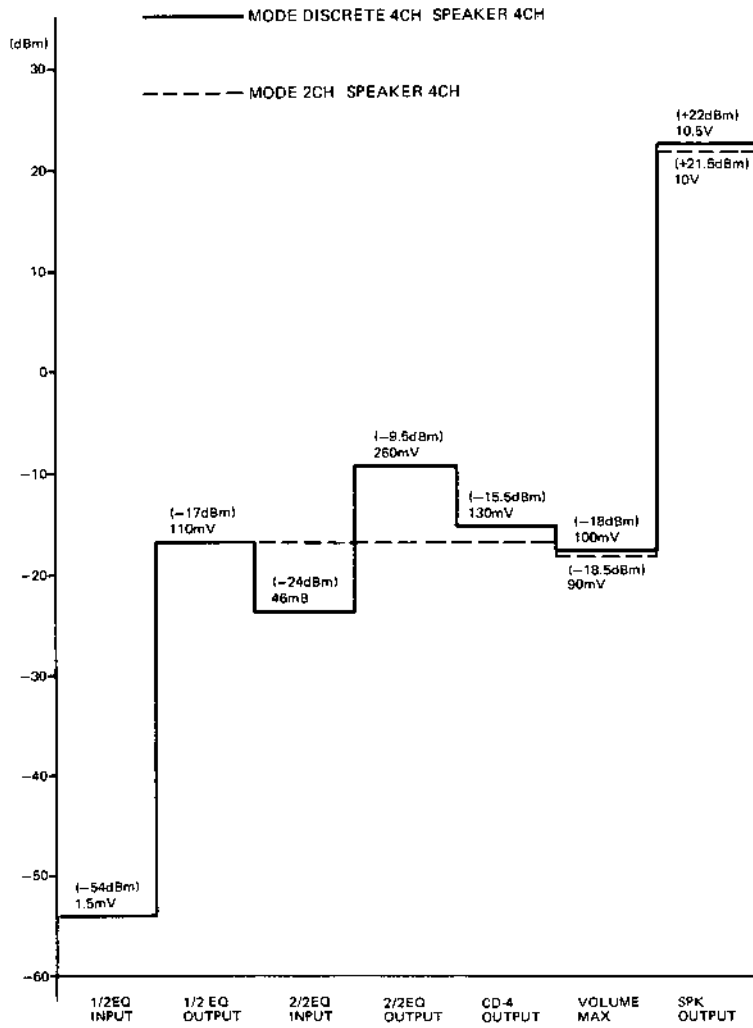
## FM TUNER SECTION

Tuning Range:	88MHz~108MHz
Usable Sensitivity:	2.2 $\mu$ V (IHF)
50dB Quietting Sensitivity:	3.0 $\mu$ V
Total Harmonic Distortion at 1kHz, 100% modulation:	Mono 0.5% Stereo 0.8%
Signal to Noise Ratio:	68dB at 1mV
Selectivity:	60dB (IHF, alternate channel)
Capture Ratio:	2.0dB
Image Rejection:	55dB
IF Rejection:	80dB
Spurious Signal Rejection:	80dB
Stereo Separation:	40dB at 1kHz
AM Suppression:	50dB
Sub Carrier	Suppression:
SCA carrier	Suppression:
Stereo Auto Switching Level:	2.2 $\mu$ V
Muting Level:	2.2 $\mu$ V
Frequency Response:	20Hz~15kHz, $\pm$ 1dB
FM Detector Output:	100mV/33k $\Omega$ (100% modulation)

## AM TUNER SECTION

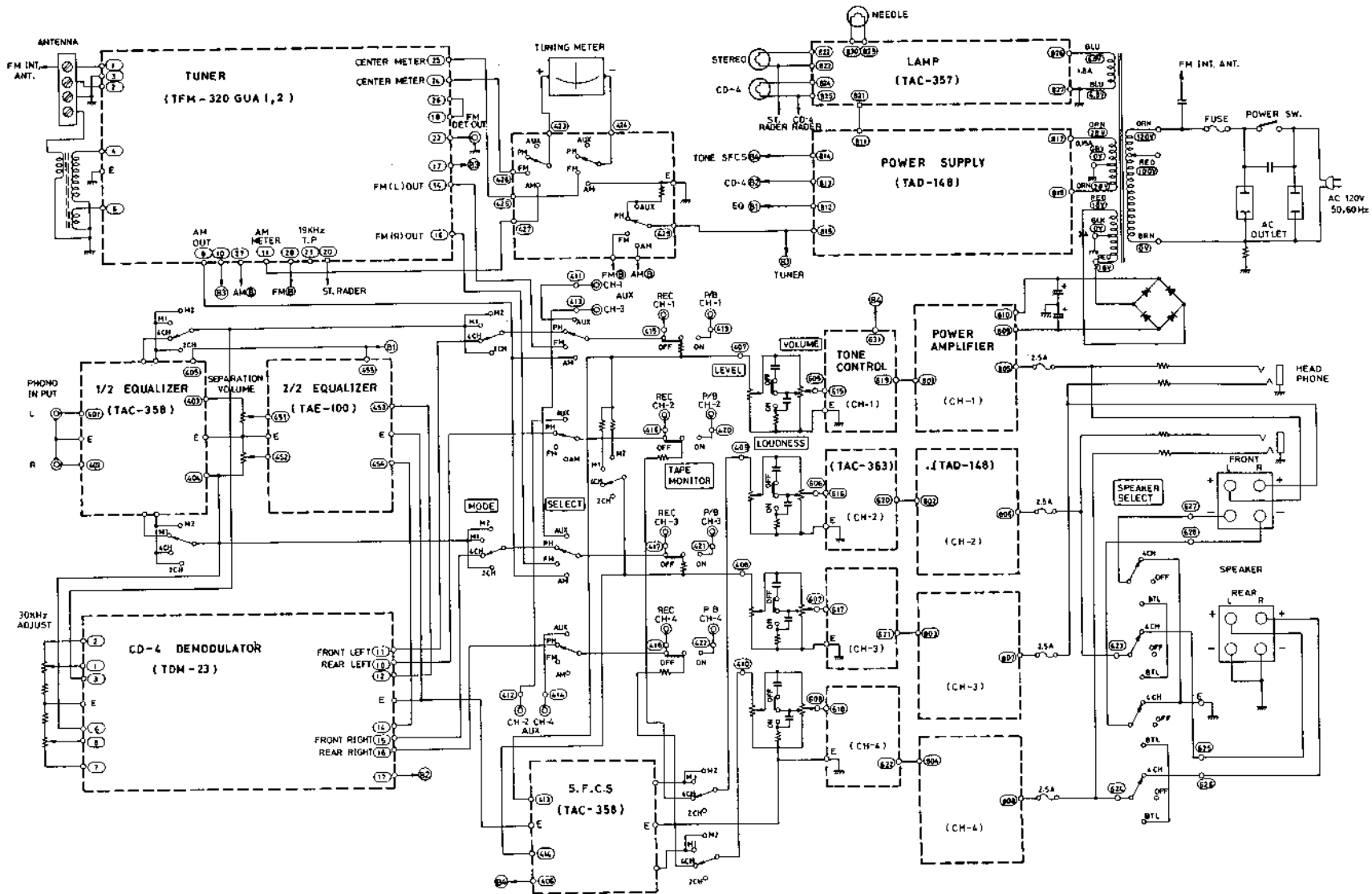
Tuning Range:	525kHz~1605kHz
Usable Sensitivity:	30 $\mu$ V, 200 $\mu$ V/m
Signal to Noise Ratio:	55dB
Selectivity:	30dB
Image Rejection:	45dB
IF Rejection:	50dB

# LEVEL DIAGRAM



MEMO

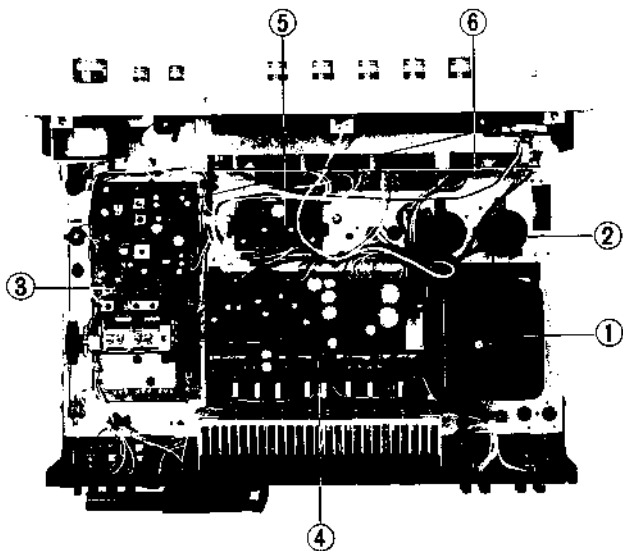
# BLOCK DIAGRAM



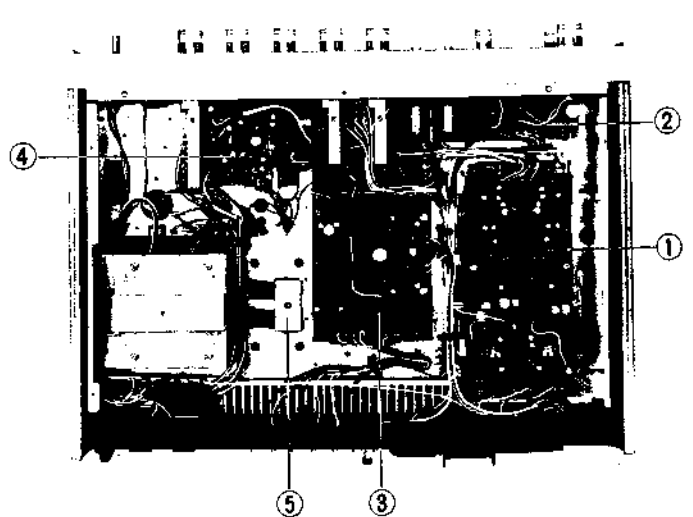
# MAIN PARTS LOCATION

	Ref. No.	Parts No.	Parts Name	Description
TOP VIEW	1	E03611-1 or E03611-1B	Power Transformer	for USA, Canada
	2	QEY3512-121	Power Transformer	for other area.
	3	TFM-320 GUA1 or TFM-320 GUA2	Electrolytic capacitor	6800 $\mu$ / 35V
	4	TAD-148 or TAD-148B	FM/AM Tuner Ass'y	75 $\mu$ sec
			FM/AM Tuner Ass'y	50 $\mu$ sec
	5	TAE-100	Power Amp C.B. Ass'y	All other area except Europe
6	TAC-357	Power Amp C.B. Ass'y	Europe	
BOTTOM VIEW	1	TDM-23	C-D-4 Demodulator Ass'y	
	2	TAC-362	Volume C.B. Ass'y	
	3	TAC-358	Switch C.B. Ass'y	
	4	TAC-363	Tone Control C.B. Ass'y	
	5	ESAC02-03C ESAC02-03N	Si Diode (Foward) Si Diode (Reverse)	

TOP VIEW



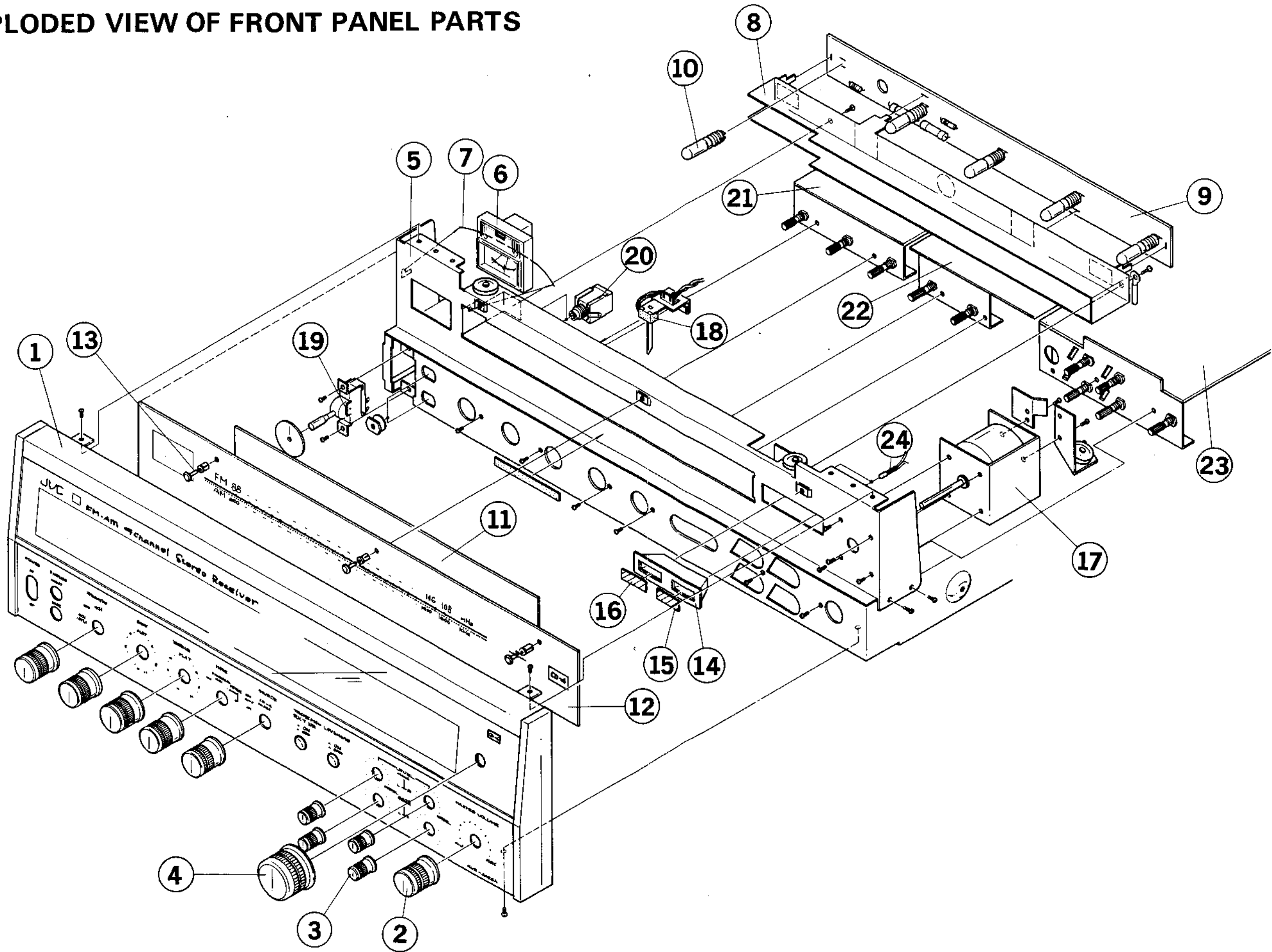
BOTTOM VIEW



# LIST OF FRONT PANEL PARTS FOR REPLACEMENT

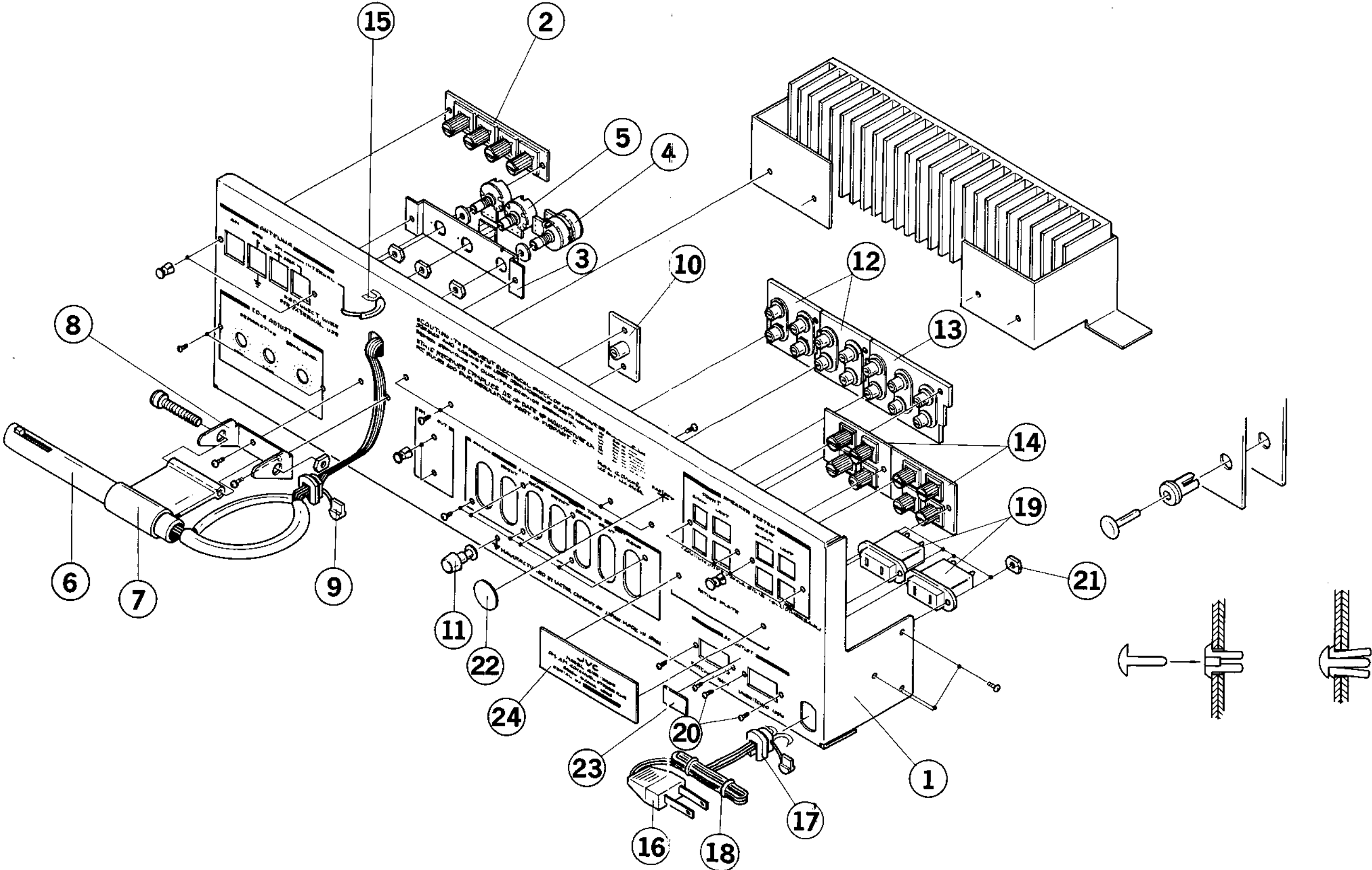
Ref. No.	Parts No.	Parts Name	Description
1	E21580-001	Front Panel Ass'y	
2	E48542-002	Knob	for Volume, SPK, Tone Select mode
3	E48810-002	Knob	for Level
4	E49368-001	Tuning Knob	
5	E21583-001	Front Bracket Ass'y	
6	E03369-012	Tuning Meter	
7	E48962-002	Spring	
8	E21585-001	Reflector	
9	TAC-357	Lamp C.B. Ass'y	
10	QLP1001-009	Pilot lamp	8V, 300mA
11	E33511-005	Color Screen	
12	E33776-001	Dial Scale	
13	E48729-001	Plastic Rivet	
14	E49364-001	Reflector	for Stereo, CD-4, Radar
15	E48587-004	Mini Screen	Orange
16	E48587-007	Mini Screen	Red
17	E32704-007	Tuning Shaft Ass'y	
18	E33777-001	Needle Ass'y	with Lamp
19	QSU1221-001	Lever Switch	Power
20	E03468-002	Head Phone Jack	
21	TAC-363	Tone C.B. Ass'y	
22	TAC-358	Switch C.B. Ass'y	
23	TAC-362	Volume C.B. Ass'y	
24	QLP3104-106	Mini Lamp	6V 35mA

# EXPLODED VIEW OF FRONT PANEL PARTS





# EXPLODED VIEW OF REAR PANEL PARTS



# LIST OF REAR PANEL PARTS FOR PEPLACEMENT

Ref. No.	Parts No.	Parts Name	Description
1	E1868-001	Rear Panel	
2	E03572-102	Terminal Ass'y	ANTENNA
3	E48598-002	Separation Bracket	
4	E03504-004	V. Resistor	50KB. 30kHz LEVEL
5	E03415-003	V. Resistor	10KB Separation
6	E03037-22UD	Bar Ant. Coil	
7	E41021-003	Bar Ant. Holder	
8	E50634-001	Bar Ant. Bracket	
9	E31704-003	Power Cord Stopper	
10	E03043-10	Pin Jack Ass'y	FM DET OUT
11	E04069	Push Terminal	
12	E03591-40	Pin Jack Ass'y	
13	E03591-60	Pin Jack Ass'y	
14	E03572-101	Terminal Ass'y	Speaker
15	41037-2	Y-Lug.	INT ANT
16	QMP1200-244	Power Cord with Plug	
17	E31704-003	Power Cord Stopper	
18	E04194-001	Free up Belt	
19	QMC0234-001	AC Socket	
20	SPKP3010S	Screw	
21	NNZ3000NS	Nut	
22	E42803-003	PASS Mark	
23	E45861-001	Rating Label	for AC outlet 120V 50/60Hz
24	E47330-124	Rating Plate	

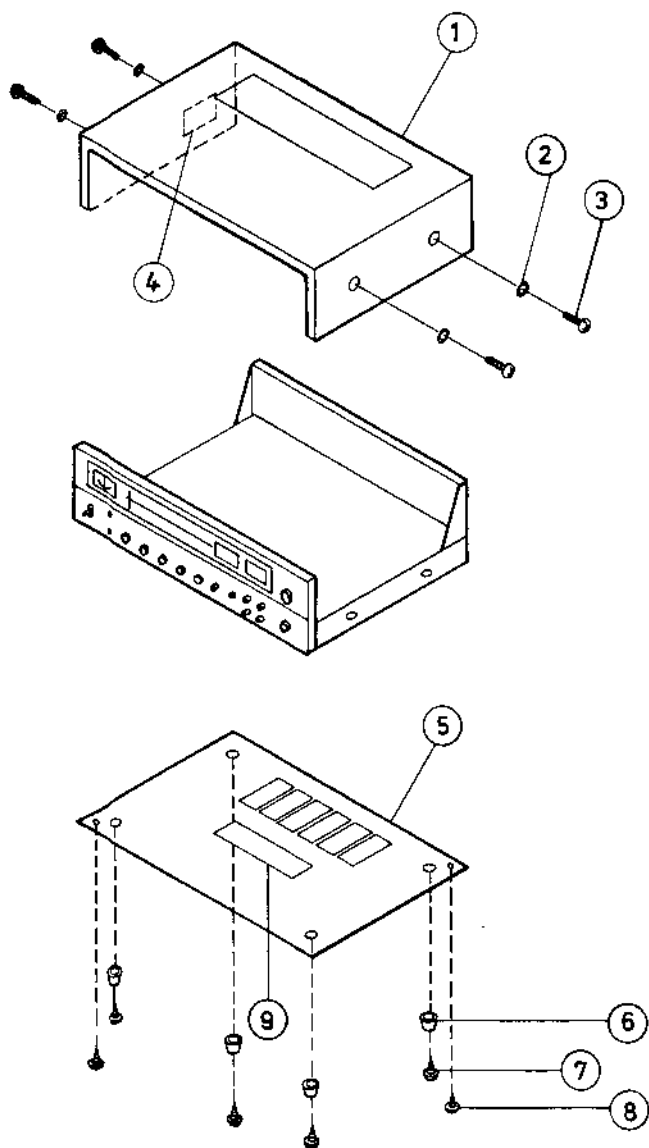
# REMOVAL OF THE TOP COVER AND BOTTOM PLATE

1. Remove 4 screws through the both sides of the cover
2. Remove the top cover
3. Remove screws from bottom plate and remove the bottom plate from the chassis.

## PACKING CASE ASS'Y

Parts No.	Parts Name
E33433-004	Envelope
4VR-5426X-PK	Carton Case
4VR-5426X-NZ	Packing Materials

Ref. No.	Parts No.	Parts Name
1	ED92471	Wooden Case Ass'y
2	E48193-002	Washer
3	SDSP4012MS	Screw
4	E48725-001	Caution Label
5	E21586-002	Bottom Plate
6	E48599-001	Foot
7	SBSB3012Z	Tapping Screw
8	SBSB3000Z	Tapping Screw
9	E48199-002	Caution Label



# HOW TO REPAIR OF THE POWER AMP. CIRCUIT BOARD AND POWER TRANSISTOR

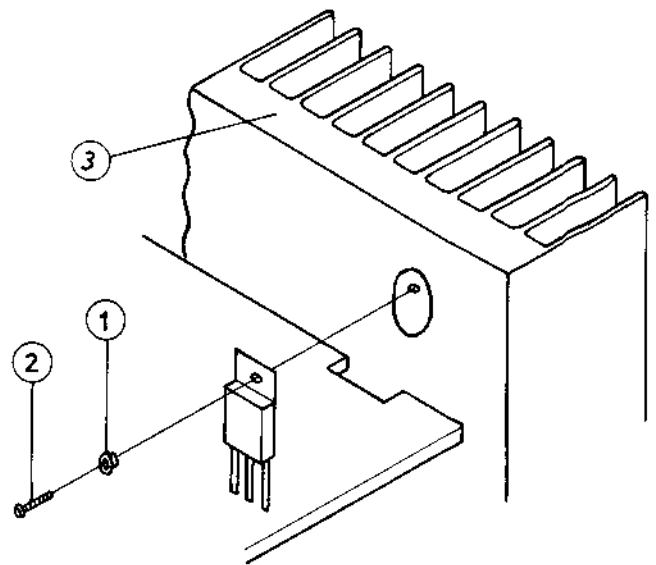
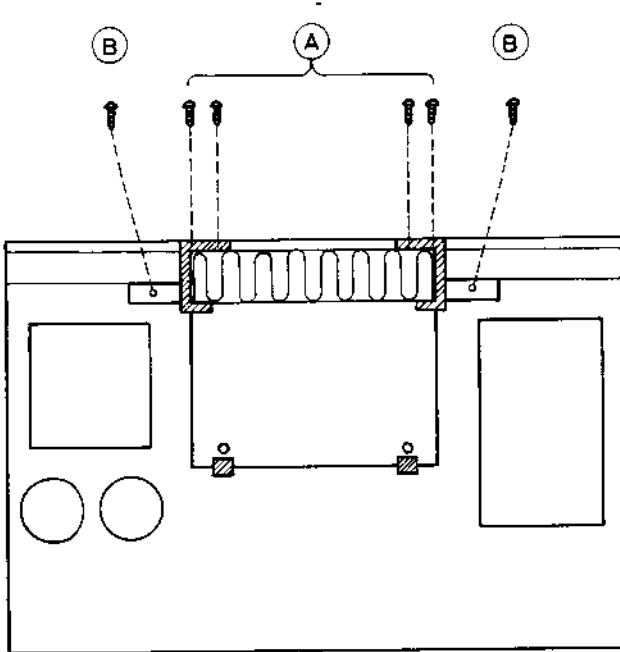
1. Remove 4 screws (A) fixed rear panel.
2. Remove 2 screws (B) fixed chassis.
3. Loosen the fastener at the front edge of the board, and stand the board upright.

Ref. No.	Parts No.	Parts Name
1	E41541-19	Bushing
2	LPSP3010NS	Ass'y Screw
3	E33778-001	Heat Sink

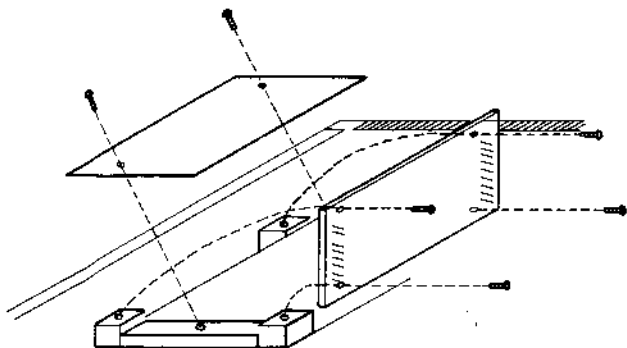
## NOTE

When replace power transistor please check the insulator bushing (Fig. ①). If it is damaged, please replace for new one.

Idling current adjusting, see page 14.

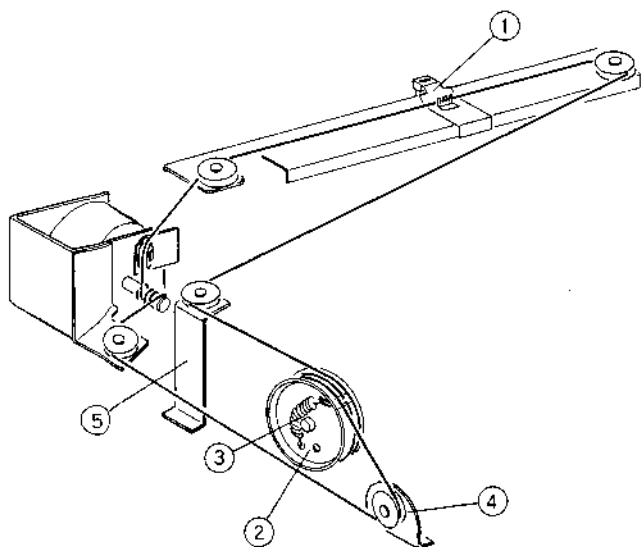


# HOW TO REPAIR AND CHECK CD-4 CIRCUIT BOARD AND TUNER CIRCUIT BOARD ASS'Y



1. Remove 4 screws fixed CD-4 circuit Board and remove 2 screw fixed shield plate.

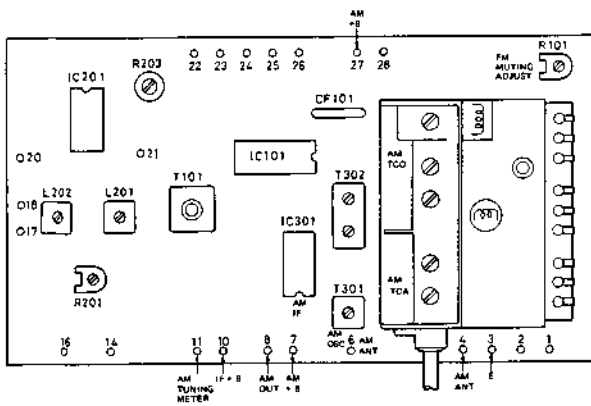
## HOW TO FIT THE DIAL CORD



1. Set the variable capacitor to min.
2. check that the dial drum is firmly fixed to the shaft.
3. Fit the dial cord as shown in the diagram.
4. Wind 3 turns of the cord round the tuning shaft and 2 turns round the dial drum.
5. Put the needle rail.
6. Position the needle to zero point on the dial scale and fix to the dial cord.

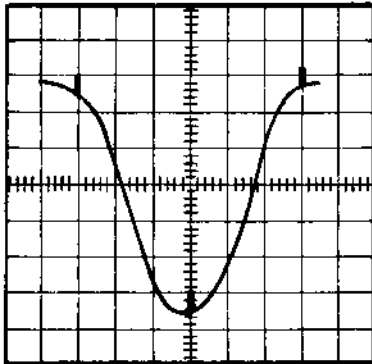
Ref. No.	Parts No.	Parts Name
1	E33777-001	Needle Ass'y
2	QZD1205-002	Dial Drum Ass'y
3	E45679-001	Spring
4	E48597-003	Tension Control
5	E47838-001	Roller Bracket Ass'y

# AM ADJUSTMENT



## Adjusting IF Stage

1. Connect the output of a sweep generator to the AM input (Tab No. 6) of the Tuner Circuit Board Ass'y (TFM320GUA 1). Set the signal to 455kHz.
2. Connect the input of the sweep generator to the AM out terminal (Tab No. 8)
3. Adjust the core of IFT, T302 so that the output is maximized and the waveform is symmetrical as shown in Ordinally T302 is adjusted to 455kHz.



## Adjusting Tracking & Sensitivity

### Low Frequency

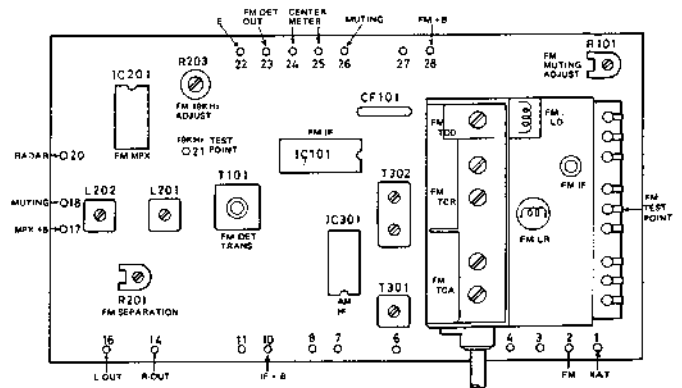
1. Connect an RF generator to the antenna terminal on the rear panel. Set this to 600kHz with 30% modulation at 400Hz.
2. Connect a VTVM to the REC jacks or speaker terminals.
3. Tune to 600kHz.
4. Adjust OSC transformer T301 and the ferrite bar-antenna to maximize the output signal.

### High Frequency

1. Connect an RF generator to the antenna terminal on the rear panel. Set this to 1400kHz with 30% modulation at 400Hz.
2. Connect a VTVM to the REC jacks or speaker terminals.
3. Set the dial pointer to 1400kHz.
4. Adjust trimmers TCO and TCA in the AM FRONT-END so that the output signal is maximized.

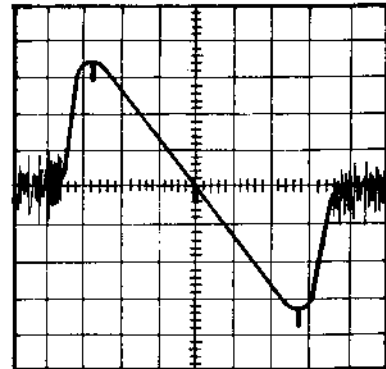
\*Repeat these steps until maximum sensitivity is obtained.

# FM ADJUSTMENT



## Adjusting Discriminator

1. Connect a sweep generator to the FM test point (FM FRONT-END (TEST POINT) through a 4.7kΩ resistor. Set this generator to 10.7MHz.
2. Connect an oscilloscope to the FM DET.OUT (Tab No. 23).
3. Adjust the primary and secondary cores of T101 to obtain an "S" shaped waveform as shown in and maximum gain.



## Adjusting Center Meter & Distortion

1. Connect an RF generator with 1kHz modulation and 75kHz deviation to the antenna terminals on the rear panel through a dummy antenna.
2. Connect an oscilloscope, distortion meter and VTVM to the REC jacks or speaker terminals.
3. Tune to a frequency where there is no broadcast.
4. Adjust the lower core of T101 so that the center meter indicates "0".
5. Set the generator to 98MHz.
6. Tune to 98MHz.
7. Adjust the upper core of T101 so that the distortion is minimized at a value less than 0.4%.

## Adjusting Tracking & Sensitivity

### Low Frequency

1. Connect an RF. generator to the antenna terminals on the rear panel through a dummy antenna.
2. Set the RF. generator to 88MHz, a modulation of 1kHz and a deviation of 75kHz to provide an input of  $10\mu\text{V}$ .
3. Connect a VTVM and an oscilloscope to the REC jacks or speaker terminals.
4. Tune to 88MHz.
5. Adjust coils LO and LA in the FRONT-END to maximize the output.

### High Frequency

1. Set the RF. generator to 108MHz, a modulation of 1kHz, and a deviation of 75kHz to provide an input of  $10\mu\text{V}$ .
2. Tune to 108MHz.
3. Adjust FM trimmers TCO and TCA in the FRONT-END to maximize the output.

\*Repeat these steps until maximum sensitivity is obtained.

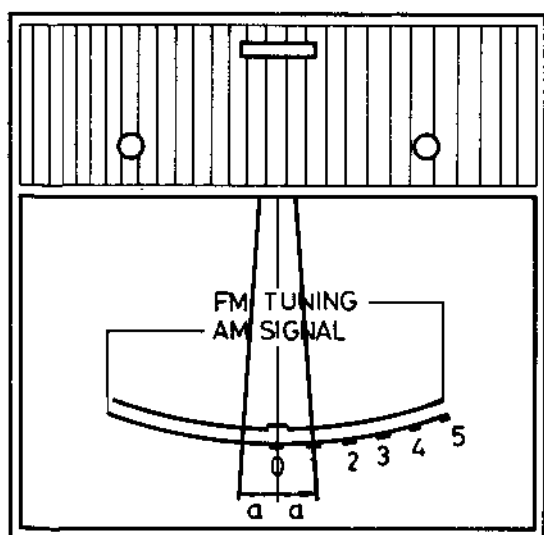
### Adjusting Muting Level

1. Connect a VTVM and an oscilloscope to the REC jacks or speaker terminals.
2. Set the RF. generator to 98MHz with 1kHz modulation, and 75kHz deviation to provide an input of  $2.2\mu\text{V}$ .
3. Turn R101 counterclockwise and remember the point at which the muting ceases to operate.
4. Turn R101 clockwise slightly so that the output level drops by 1dB.
5. Reset the RF. generator to  $2\mu\text{V}$  output and check that muting still operates.

### Balancing Center Meter Deflection

Tune to a signal from a standard signal oscillator or an FM station. Optimize reception and adjust so that when detuned by 70kHz in either direction the deflections to the left and right are symmetrical.

Make sure that the sound is not vanish in the zone a-a.



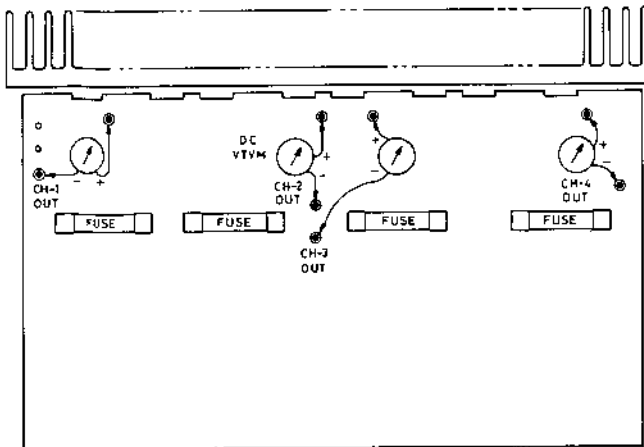
## Adjusting MPX

1. Set a stereo signal generator as follows; Modulation frequency 1000Hz, Deviation pilot 7.5kHz, Main and Sub. 67.5kHz. Connect its output to the EXT input of an RF. signal generator.
2. Connect the RF. generator to the antenna terminals through a dummy antenna.
3. Connect a VTVM, oscilloscope and distortion meter to the REC jacks or speaker terminals.
4. Set the RF. generator to 98MHz and an output of 1mV.
5. Tune to 98MHz.
6. Connect oscilloscope to Tab No. 14 and 16.
7. Connect the frequency counter to Tab No. 21.
8. Switch off the pilot signal of the stereo demodulator.
9. Adjust R203 so that the counter indicates 19kHz.

## Adjusting Separation

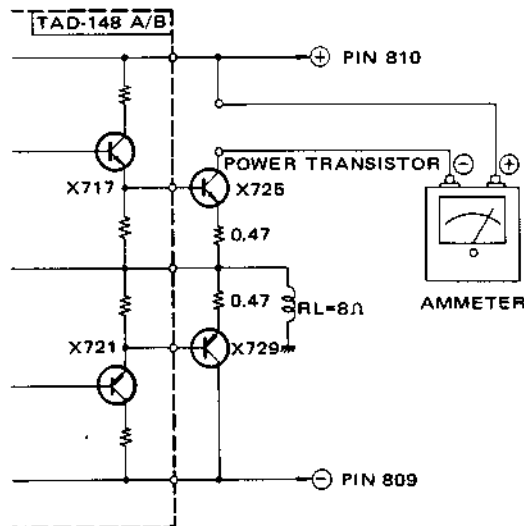
10. Switch stereo modulator's selector to left.
11. Adjust R201 so that right channel output is minimized.
12. Switch stereo modulator's selector to right.
13. Adjust R201 so that left channel output is minimized.
14. If the separation of right and left are different, set R201 to average.

# ADJUSTING IDLING CURRENT



## (Adjusting with Milivoltmeter)

1. Connect DC milivoltmeter across emitter resistor R761 (that is; to the test point of TAD-148A/B)
2. Adjust semi-fixed resistor VR701 so that the milivoltmeter reading is 10mV.
3. Repeat the procedure for the other channels.



## (Adjusting with Ammeter)

1. Connect a DC ammeter between the collector of power transistor X725 and B+
2. Adjust VR701 semi-fixed resistor so that ammeter reading is 20mA.
3. Repeat the procedure for the other channels.

# CD-4 ADJUSTMENT

CD-4 adjustment is to match cartridge and stylus with built-in demodulator. Once it has been done it need not be done again until cartridge or stylus is changed.

1. Set source select to CD-4/PHONO.
2. Set mode select to DISCRETE 4CH.

## 30kHz Level Adjustment

The 30kHz sub-channel carrier output differs between cartridges and this screw on the rear panel is to adjust the level.

1. Turn the 30kHz level screw clockwise until the stop position.
2. On BAND 2 of CD-4 adjustment record there is a 400Hz sub channel signal (4kHz deviation). If the signal is distorted play BAND 2 on adjustment record and turn the screw counterclockwise until a position is reached where distorted sound is not heard. Although distorted sound may still be heard when the screw is fully counterclockwise, it might be acceptable in sound quality when playing CD-4 music records with the screw in this position. If the sound is still unsatisfactory with CD-4 music record, the cartridge is then considered inadequate for CD-4 record reproduction.

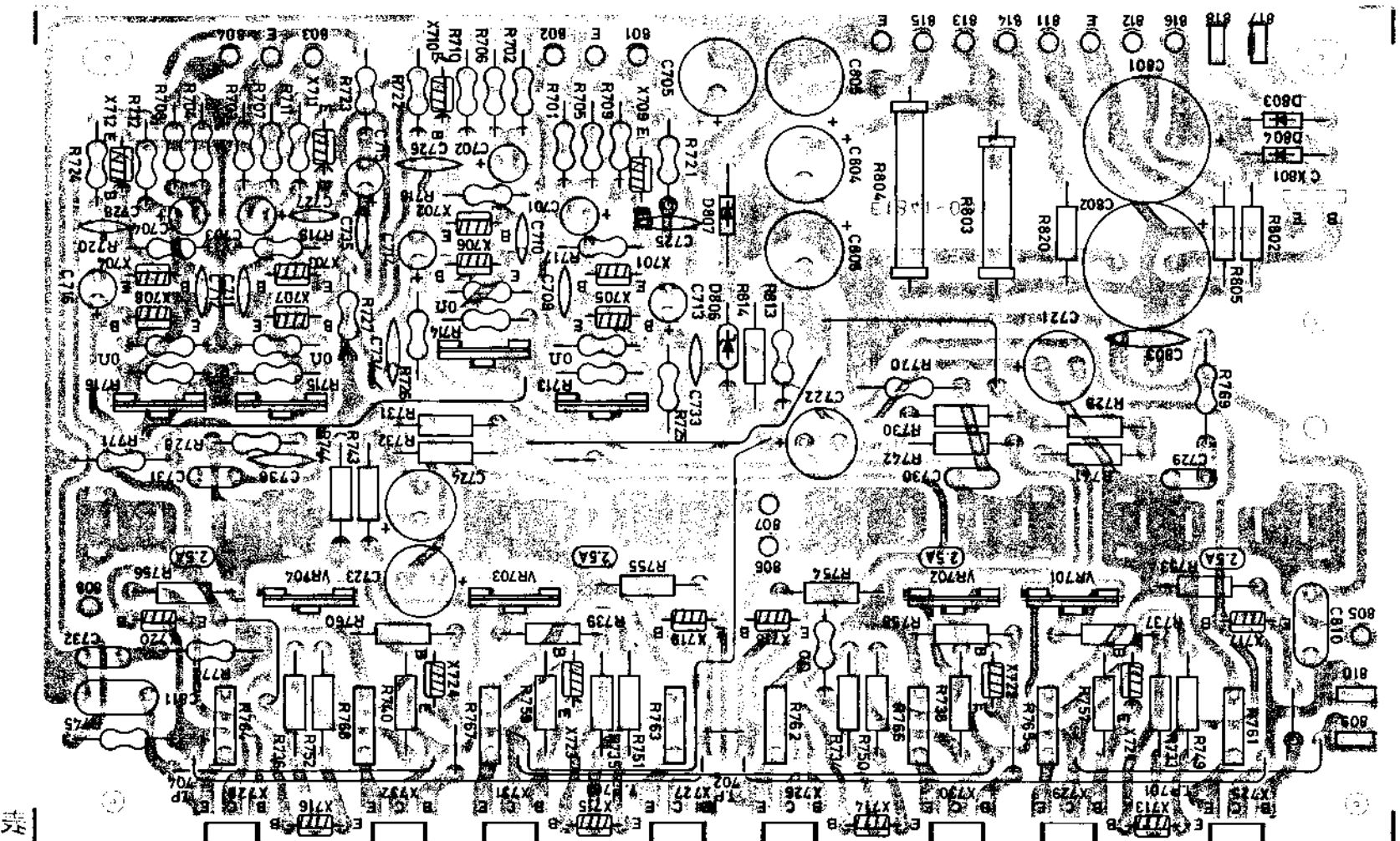
## Separation Adjustment

1. Lower the volume of front speakers so that sound is only heard from the rear speakers.
2. Left channel (CH1, CH2) adjust: Turning the left control of separation adjust so that the volume of rear left (CH-2) is as low as possible while playing BAND 3 of CD-4 demodulator adjustment record (4DE-205).
3. Right channel (CH3, CH4) adjust: Adjust the right channel in the same way, by turning right control to minimize the volume of rear right while playing BAND 3.
4. When these operations have been completed, the adjustment is over and the volume of the front speakers should be turned up.





# TAD-148/B POWER AMP. C.B. ASS'Y



**Transistors**

Ref. No.	Parts No.	Description	PC	fT
X801	2SD325E	Silicon, Sanyo	10W	8MHz
X725~728	2SC789Y	Silicon, Toshiba	30W	3MHz
X717~724	2SC1213ACS	Silicon, Hitachi	400mW	150MHz
X701~708	2SC1345D	"	200mW	230MHz
X713~716	2SC458C	"	200mW	230MHz
X729~716	2SA489Y	Silicon, Toshiba	30W	3MHz
X721~724	2SA673ACS	Silicon, Hitachi	400mW	150MHz
X709~712	2SA673ACS	"	400mW	150MHz

**Diodes**

Ref. No.	Parts No.	Parts Name	Description	PC
12V Zener D807	E0771-7	Zener	FUJI	1W
9V Zener D806	E0771-10	Zener	JRC	500mW
D803,804	S1B01-02	Silicon	FUJI	

**Resistors**

Ref. No.	Parts No.	Parts Name	Description
R701~704	QRD141J-124	Carbon	120K $\Omega$ 1/4W
R705~708	QRD141J-102	"	1K $\Omega$ "
R725~728	QRD141J-823	"	82K $\Omega$ "
R709~712	QRD141J-823	"	82K $\Omega$ "
R713~716	QRD144J-103	"	10K $\Omega$ "
R717~720	QRD141J-152	"	1.5K $\Omega$ "
R721~724	QRD141J-681	"	680 $\Omega$ "
R745	QRD141J-0R0	Jumping	0 $\Omega$
R769~772	QRD126J-470	Unflamable Carbon	47 $\Omega$ 1/2W
R813	QRD126J-100	"	10 $\Omega$ "
	QRD126J-470	"	47 $\Omega$ "
R729~732	QRC121K-122	Composition	1.2K $\Omega$ "
R733~736	QRC121K-222	"	2.2K $\Omega$ "
R737~740	QRC121K-681	"	680 $\Omega$ "
R741~744	QRC121K-392	"	3.9K $\Omega$ "
R749~752	QRC121K-3R3	"	3.3 $\Omega$ "
R753~760	QRC121K-271	"	270 $\Omega$ "
R820	QRC121K-102	"	1K $\Omega$ "
R805	QRC121K-820	"	82 $\Omega$ "
R802	QRC121K-682	"	6.8K $\Omega$ "
R814	QRC121K-102	"	1K $\Omega$ "
R761~768	QRM015K-R47	Metal Plate	0.47 $\Omega$ 1W
R803	QRG021J-560	Oxid Metal	56 $\Omega$ 2W
R804	QRG031J-221	"	220 $\Omega$ 3W

**Variable Resistors**

Ref. No.	Parts No.	Parts Name	Description
VR701,704	QVP2A0B-052	Semi Fixed Resistor	500 $\Omega$ (B)

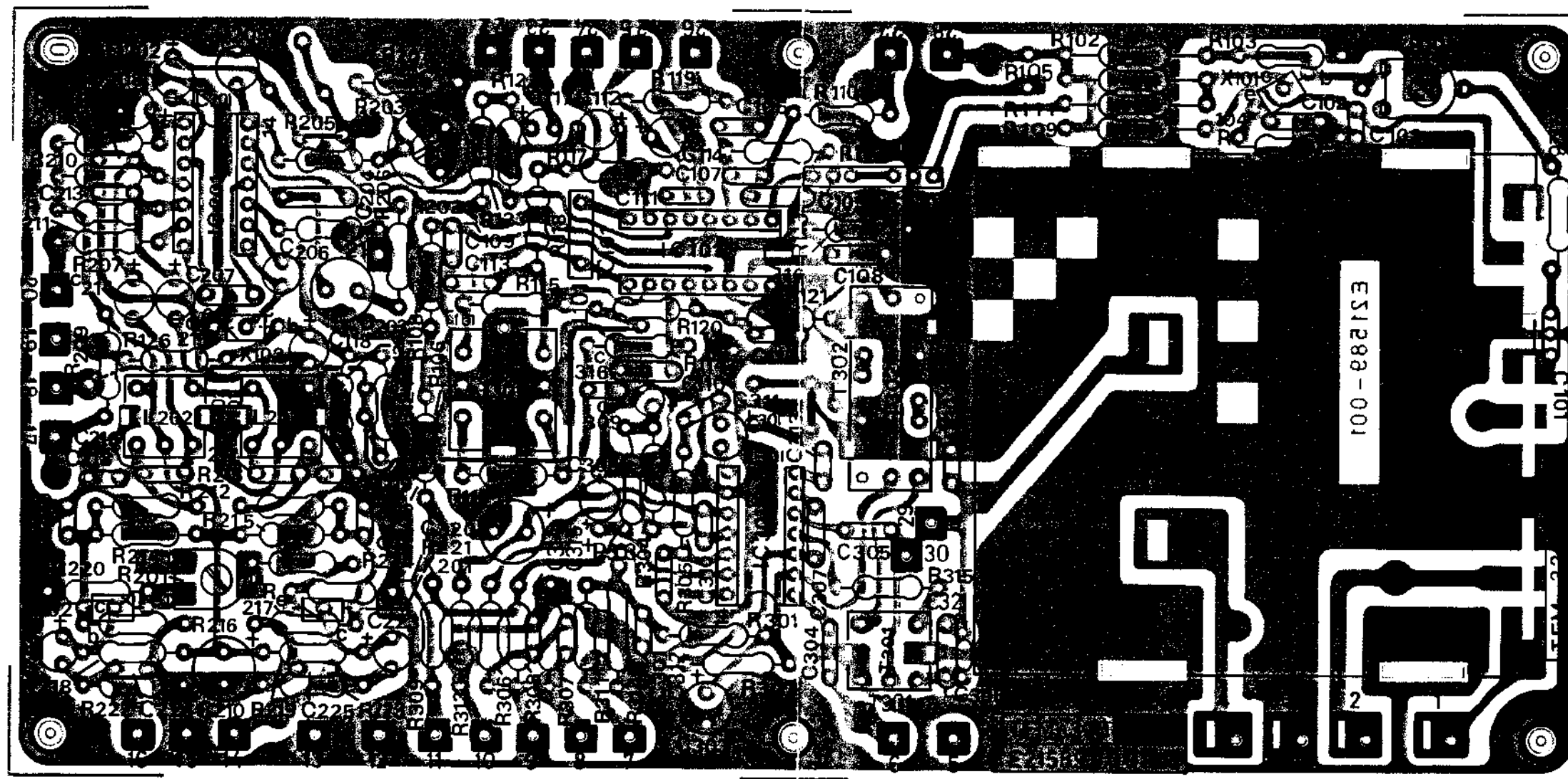
**Capacitor**

Ref. No.	Parts No.	Parts Name	Description
C701~704	QEB41EM-105	Low Leak Current Electrolytic	1 $\mu$ /25V
C721~724	QEW41HA-476	Electrolytic	47 $\mu$ /50V
C713~716	QEW41AA-476	"	47 $\mu$ /10V
C705	QEW41VA-227	"	220 $\mu$ /35V
C802	QEW41HA-477N	"	470 $\mu$ /50V
C801	QEW41HZ-477N	"	470 $\mu$ /50V
C804	QEW41VA-227	"	220 $\mu$ /35V
C805	QEW41VA-227	"	220 $\mu$ /35V
C808	QEW41VA-227	"	220 $\mu$ /35V
C709~712	QCS11HJ-471	Ceramic	470PF50V
C725~728	QCS11HJ-220	"	22PF50V
C733~736	QCS11HJ-270	"	27PF50V
C803	QCF11HP-473	"	0.047 $\mu$ F50V
C729~732	QFM41HK-473	Mylar	0.047 $\mu$ F50V
C810~811	QFM41HK-224	"	0.22 $\mu$ F50V

**Others**

Ref. No.	Parts No.	Parts Name	Description
For X801	NNZ3000Z	Nut	
	E33778-001	Heat Sink	
	E33779-001	Heat Sink Holder	
	E33779-002	Heat Sink Holder	
	E41541-19	Bushing	for Power Tr.
For X801	E45524-001	Contact Clip	for Fuse
For X801	E47918-003	Heat Sink	Power Supply
	E47919-002	Spacer	

# TFM-320 GUA 1/2 TUNER C.B. ASS'Y



## Transistors

Ref. No.	Parts No.	Description	PC	Ft
X102	2SC458C	Silicon, Hitachi	200mW	230MHz
X201,202	2SC458LGC	"	200mW	230MHz
	2SC710B	Silicon, Mltsubishi	200mW	200MHz

## ICs

Ref. No.	Parts No.	Parts Name	Description
IC101	HA1137W	FM-1F I.C.	FM IF, Hitachi
IC301	HA1151	AM Tuner I.C.	AM, Hitachi
IC201	HA1156	FM-MPX I.C. (rank Aor BorC)	FM MPX, Hitachi

## Others

Ref. No.	Parts No.	Parts Name	Description
T301	E03079-13	AM Osc. Coil	
T101	E03134-020	FM Det. Trans	
L201,202	E03407-005	Choke Coil (10mm <sup>2</sup> x43m)	43mH
L301	E03520-391	Choke Coil	390μH
L101	E03522-180J	Choke Coil	18μH
CF101	E03609-001	Ceramic Filter	CF107K14
T302	E03613-001	AM I.F. Transformer	
	E03546-003	Front End Ass'y	

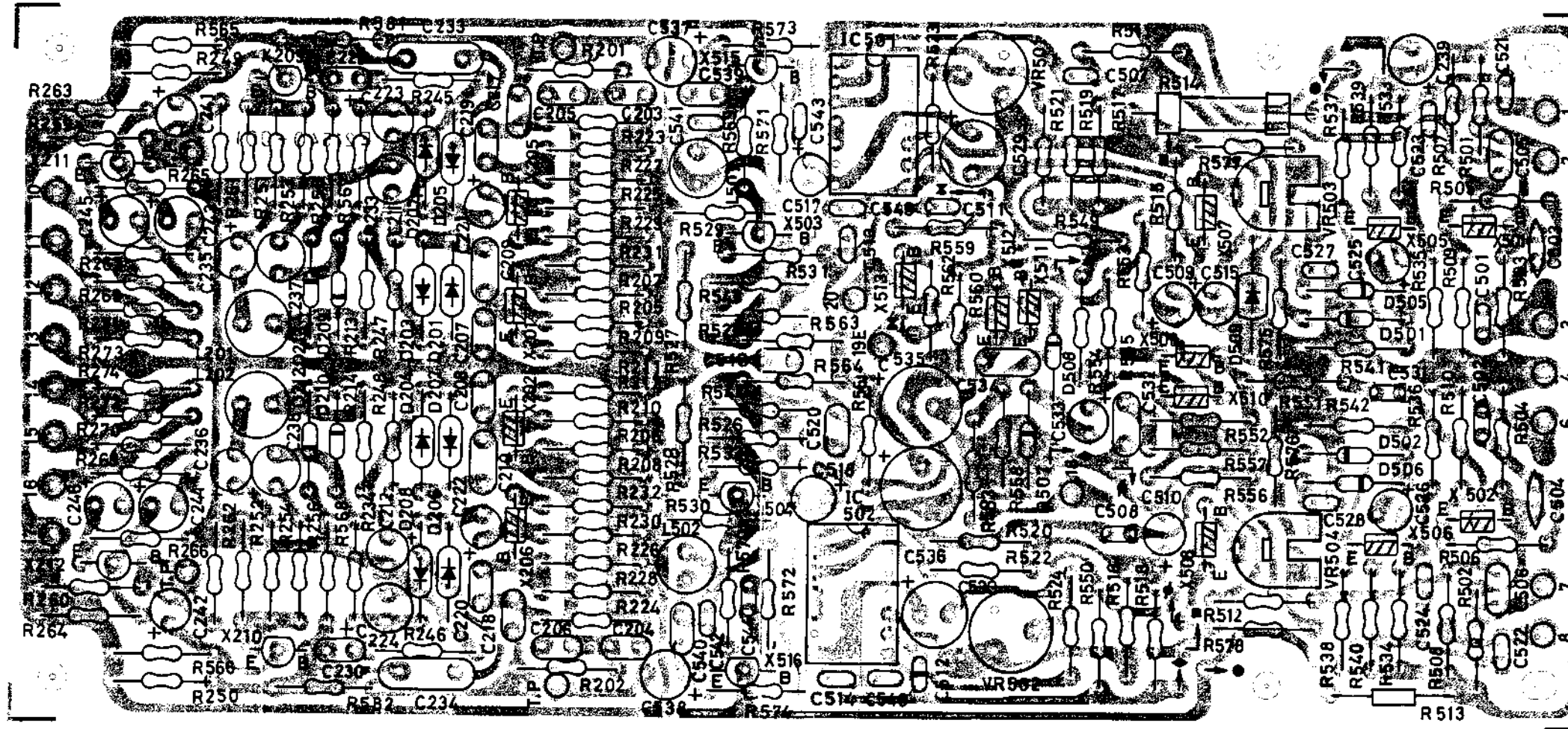
## Resistors

Ref. No.	Parts No.	Parts Name	Description
R101	QVP8A0B-053	Semi Fixed Variable	5K $\Omega$ Muting
R203	QVP4A0B-472	"	4.7K $\Omega$ Vco
R201	QVP8A0B-054	"	50K $\Omega$ Separation
R109,114	QRD141J-100	Carbon	10 $\Omega$ 1/4W
R111	QRD141J-271	"	270 $\Omega$ "
R117	QRD141J-221	"	220 $\Omega$ "
R112,105,128	QRD141J-331	"	330 $\Omega$ "
R104	QRD141J-102	"	1K "
R116,120	QRD141J-222	"	2.2K "
R103	QRD141J-472	"	4.7K "
R115	QRD141J-562	"	5.6K "
R118,124,125	QRD141J-103	"	10K "
R102,119	QRD141J-123	"	12K "
R108,121	QRD141J-473	"	47K "
R122	QRD141J-563	"	56K "
R113,123	QRD141J-104	"	100K "
R110	QRD144J-474	"	470K "
R207,225	QRD141J-0R0	Jumping	0 $\Omega$ "
R209	QRD141J-100	Carbon	10 $\Omega$ "
R208	QRD141J-101	Carbon	100 $\Omega$ "
R202	QRD141J-102	"	1K "
R220,221	QRD141J-152	"	1.5K "
R212,213	QRD141J-222	"	2.2K "
R210,211	QRD141J-392	"	3.9K "
R218,219,224	QRD141J-822	"	8.2K "
R204	QRD141J-153	"	15K "
R205	QRD141J-183	"	18K "
R216,217	QRD141J-393	"	39K "
R222,223	QRD141J-104	"	100K "
R214,215	QRD141J-224	"	220K "
R206	QRD141J-105	"	1M "
R315	QRD141J-0R0	Jumping	0 $\Omega$ "
R311,313	QRD141J-100	Carbon	10 $\Omega$ "
R311	QRD141J-151	"	150 $\Omega$ "
R305	QRD141J-331	"	330 $\Omega$ "
R306	QRD141J-332	"	3.3K "
R308	QRD141J-332	"	3.3K "
R302,309	QRD141J-472	"	4.7K "
R303,304	QRD141J-103	"	10K "
R307	QRD141J-104	"	100K "
R314	QRC121K-122	Composition	1.2K 1/2W

## Capacitor

Ref. No.	Parts No.	Parts Name	Description
C112	QEW41HA-105	Electrolytic	1 $\mu$ /50V
C117	QEW41CA-106	"	10 $\mu$ F 16V
C114	QEW41EA-475	"	4.7 $\mu$ F 25V
C202,	QEW41VA-475	"	47 $\mu$ F 25V
C214,215,204	QEW41EM-224	L.L.C.E. Capacitor	0.22 $\mu$ F 25V
C210	QEW41VA-476	Electrolytic	47 $\mu$ F 16V
C208,222,223	QEW41HA-105	"	1 $\mu$ F 50V
C320	QEW41CA-476	"	47 $\mu$ F 16V
C309	QEW41EA-475	"	4.7 $\mu$ F 25V
C308	QEW41HA-105	"	1 $\mu$ F 50V
C303	QEW41CA-106	Ceramic	10 $\mu$ F 16V
C111	QCS11HJ-151(u)	"	150pF 50V
C302	QCS11HJ-150(u)	"	15pF 50V
C311	QCS11HJ-331(u)	"	330pF 50V
C306	QCS11HJ-331(u)	"	330pF 50V
C101,103,107 108,109,110 113,115,104	QCF11HP-223(A)	"	0.022 $\mu$ F 50V
C302,307,310 313,316	QCF11HP-223(A)	"	0.022 $\mu$ F 50V
C102,105,106	QCZ0107-473(A)	"	0.047 $\mu$ F 50V
C304	QCZ0107-473(A)	"	0.047 $\mu$ F 50V
C203	QEB41EM-106	L.L.C.E. Capacitor	10 $\mu$ /25V
C206	QEB41EM-105	L.L.C.E. Capacitor	1 $\mu$ /25V
C218,219	QFM41HK-102	Mylar	0.001 $\mu$ F 50V
C216,217	QFM41HK-182	"	0.0018 $\mu$ F 50V
C224,225	QFM41HK-272	"	0.0027 $\mu$ F 50V
C220,221	QFM41HK-392	"	0.0039 $\mu$ F 50V
C212,213	QFM41HK-153	"	0.015 $\mu$ F 50V
C207	QFM41HK-473	"	0.047 $\mu$ F 50V
C312	QFM41HK-102	"	0.001 $\mu$ F 50V
C305	QFM41HK-103	"	0.01 $\mu$ F 50V
C314	QFM41HK-153	"	0.022 $\mu$ F 50V
C315	QFM41HK-223	"	0.022 $\mu$ F 50V
C205	QFS42BJ-471M	Polystyrol	470pF

# TDM-23 CD-4 DEMODULATOR C.B. ASS'Y



## Transistor

Ref. No.	Parts No.	Description	PC	ft
X209,210	2SC1312G	Silicon, Mitsubishi	200mW	150MHz
X205,206	2SC458D	Silicon, Hitachi	"	230MHz
X201,206	2SC458D	Silicon, Hitachi	"	230MHz
X515,516	2SC1312G	Silicon, Mitsubishi	"	150MHz
X503,504	2SC458D	Silicon, Hitachi	"	230MHz
X509~513	2SC458D	Silicon, Hitachi	"	230MHz
X501,502	2SC458D	"	"	230MHz
X507,508	2SC458D	"	"	"
X505,506	2SC1312G	Silicon, Mitsubishi	"	150MHz

## Voriabe Resistor

Ref. No.	Parts No.	Parts Name	Description
V501,502 VR503,504	QVP4AOB-222 QVP8AOB-024	Semi Fixed Volume "	2.2K 20K

## Diodes

Ref. No.	Parts No.	Parts Name	Description	PC
D509	E0771-7	Zener Diode	Fuji	1W
D201~208	1N60	Ge Diode	Hitachi	
D209~212	1S2473	Si Diode	Toyo Dengu	
D507,508	1S990	"	JRC	
D501,502	1S990	"	JRC	
D505,506	1S990	"	JRC	

## ICs

Ref. No.	Parts No.	Description
IC501, 502	CD894	Segnetics

## Resistor

Ref. No.	Parts No.	Parts Name	Description
R211,212 R231,232 R253,254 R251,252 R209,210 R245,246	QRD141J-121 QRD141J-681 QRD141J-332 QRD141J-562 QRD141J-153	Carbon " " " "	120Ω 1/4W 680Ω " 3.3K " 5.6K " 15K "
R201,202 R247,248 R223,224 R225,226 R223,224	QRD141J-822 QRD141J-223 QRD141J-682 QRD141J-153 QRD141J-684	" " " " "	8.2K " 22K " 6.8K " 15K " 680K "
R229,230 R233,234 R213,214 R255,256 R205,206 R227,228 R207,208	QRD141J-472 QRD141J-273 QRD141J-331 QRD141J-824 QRD141J-473	" " " " "	4.7K " 27K " 330Ω " 820K " 47K "
R527,528 R543,544 R573,574 R525,526 R529,530 R569,570	QRD141J-683 QRD141J-123 QRD141J-182 QRD141J-822 QRD141J-682	Carbon " " " "	68K " 12K " 1.8K " 8.2K " 6.8K "
R531,532 R571,572 R257,258 R565,566 R581,582	QRD141J-152 QRD141J-102 QRD141J-473 QRD141J-474 QRD141J-104	" " " " "	1.5K " 1K " 47K " 470K " 100K "
R554 R556 R555 R553 R558	QRD141J-331 QRD141J-681 QRD141J-472 QRD141J-123 QRD141J-183	Carbon " " " "	330Ω " 680Ω " 4.7K " 12K " 18K "
R559,560 R557 R562 R551 R563,564	QRD141J-273 QRD141J-273 QRD141J-153 QRD141J-563 QRD141J-124	" " " " "	27K " 27K " 15K " 56K " 120K "
R561 R509,510 R519,522 R523,524 R507,508	QRD141J-102 QRD141J-181 QRD141J-561 QRD141J-272 QRD141J-472	" " " " "	1K " 180Ω " 560Ω " 2.7K " 4.7K "
R505,506 R515,518 R511,512 R503,504 R501,502	QRD141J-392 QRD141J-103 QRD141J-153 QRD141J-223 QRD141J-334	" " " " "	3.9K " 10K " 15K " 22K " 330K "
R541,542 R537,538 R539,540 R549,550 R577,578 R575,576	QRD141J-151 QRD141J-682 QRD141J-822 QRD141J-472 QRD141J-821	" " " " "	150Ω " 6.8K " 8.2K " 4.7K " 820Ω "
R535,536 R533,534 R263,266 R267,274 R261,262	QRD141J-183 QRD141J-334 QRD141J-102 QRD141J-103 QRD141J-224	" " " " "	18K " 330K " 1K " 10K " 220K "
R259,260 R514 R513	QRD141J-474 QRD021J-391 QRC121K-681	" Oxide Metal Composition	470K " 390Ω 2W 680Ω 1/2W

## Capacitor

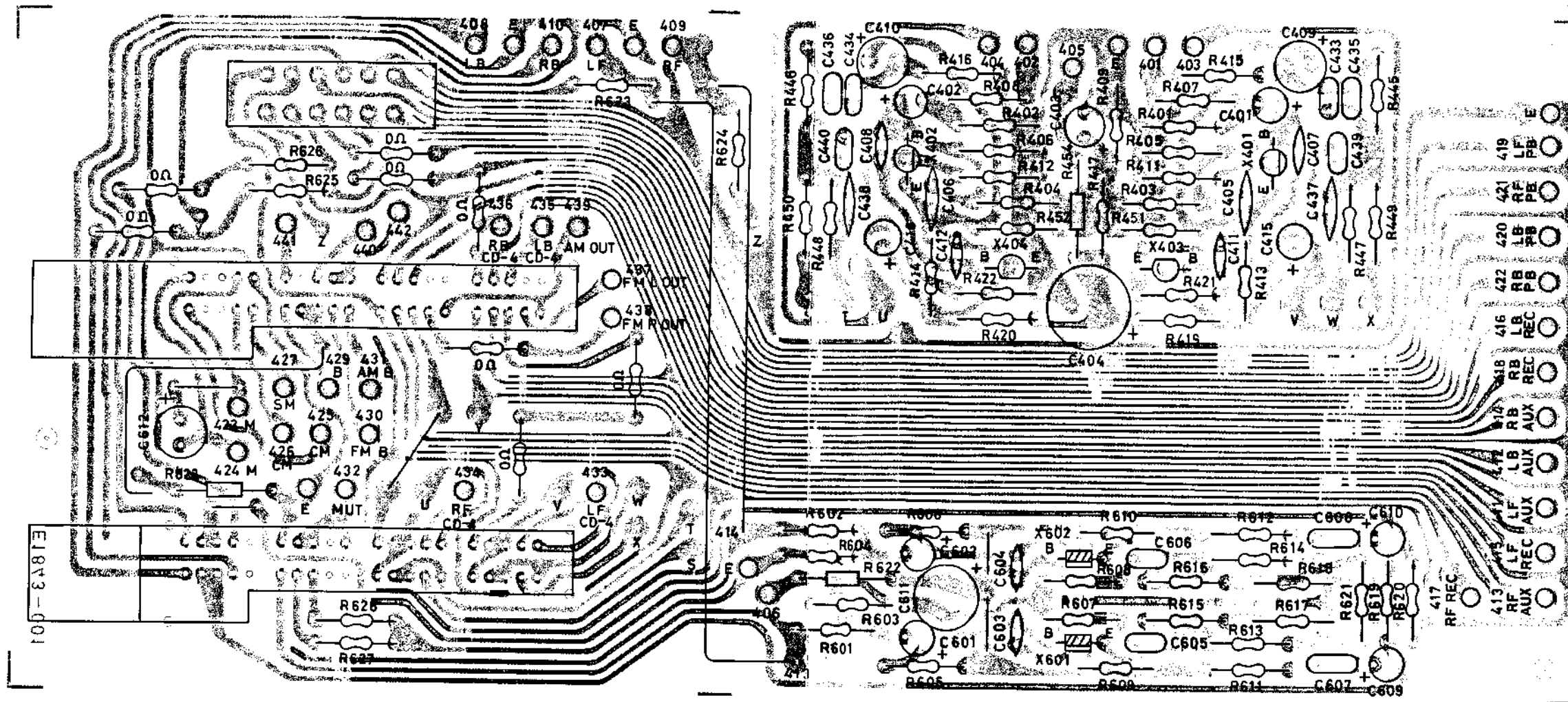
Ref. No.	Parts No.	Parts Name	Description
C235,236 C237,238 C221,222 C223,224 C211,212	QEB41EM-684 QEB41EM-224 QEW41HA-474 QEW41HA-105 QEW41HA-475	L.L.C. Electrolytic " Electrolytic " "	0.68μF 25V 0.22μF 25V 0.47μF 50V 1μF 50V 4.7μF 50V
C537,538 C533 C536 C536 C515	QEW41HA-475 QEW41HA-474 QEW41CA-227 QEW41CA-336 QEW41CA-106	" " " " "	4.7μF 50V 0.47μF 50V 220μF 16V 33μF 16V 10μF 16V
C529,530 C517,518 C509,510 C239 C525,526 C243,246	QEW41CA-336 QEW41HA-105 QEW41HA-106 QEW41HA-474 QEW41HA-475	" " " " "	33μF 16V 1μF 50V 10μF 25V 0.47μF 50V 4.7μF 50V
C241,242 C233,234 C217,218 C209,210 C219,220	QEW41HA-105 QFM41HK-823 QFM41HK-822 QFM41HK-683 QFM41HK-392	" Mylar " " "	1μF 50V 0.082μF 50V 0.0082μF 50V 0.068μF 50V 0.0039μF 50V
C229,230 C207,208 C203,204 C205,206 C519,520 C539,540 C541,542	QFM41HK-332 QFM41HK-223 QFM41HK-273 QFM41HK-153 QFM41HK-153 QFM41HK-122	" " " " " "	0.0033μF 50V 0.022μF 50V 0.027μF 50V 0.015μF 50V 0.015μF 50V 0.0012μF 50V
C543,544 C531 C532 C534 C545,546 C501,502	QFM41HK-182 QFM41HK-222 QFM41HK-333 QFM41HK-473 QFM41HK-102	" " " " "	0.0018μF 50V 0.0022μF 50V 0.033μF 50V 0.047μF 50V 0.001μF 50V
C507,508 C511,514 C505,506 C523,524 C521,522	QFM41HK-222 QFM41HK-272 QFM41HK-153 QFM41HK-102 QFM41HK-122	" " " " "	0.0022μF 50V 0.0027μF 50V 0.015μF 50V 0.001μF 50V 0.0012μF 50V
C527,528 C503,504	QFM41HK-332 QCS11HJ-471	" Ceramic	0.0033μF 50V 470pF 50V

## Others

Ref. No.	Parts No.	Parts Name	Description
L201,202 L501,502	E0747-17 E03566-103	Ferri Inductor Ferri Inductor	100mH 10mH



# TAC-358 SWITCH C.B.ASS'Y



## Transistor

Ref.	Parts No.	Parts Name	Description	PC	ft
X401,402	E49362-001	Volume Bracket	Tape Mon.		
X403,404	2SA493GR	Transistor	Silicon Toshiba	200mW	150MHz
X601,602	2SC1312G	"	Silicon Mitsubishi	"	"
	2SC458LGC	"	Silicon Hitachi	"	230MHz

## Capacitor

Ref.	Parts No.	Parts Name	Description
C401,401	QEB41EM-335	L.L.C.E.	3.3μ F 25V
C601,602	QEB41EM-105	"	1μ F 25V
C404	QEW41VA-227	Electrolytic	220μ F 35V
C415,416	QEW41HA-335	"	3.3μ F 50V
C409,410	QEW41EA-336	"	33μ F 25V
C403	QEW41AA-107	"	100μ F 10V
C609,610	QEW41HA-105	"	1μ F 50V
C611	QEW41EA-476	"	47μ F 25V
C405,406	QCS11HJ-471	Ceramic	470pF 50V
C407,408	QCS11HJ-270	"	27pF 50V
C437,438	QCS11HJ-471	"	470pF 50V
C411,412	QCS11HJ-100	"	10pF 50V
C603,604	QCS11HJ-470	"	47pF 50V
C433,434	QFM41HK-332	Mylar	0.0033μ F 50V
C439,440	QFM41HK-392	"	0.0039μ F 50V
C435,436	QFM41HK-103	"	0.01μ F 50V
C605,606	QFM41HK-102	"	0.001μ F 50V
C607	QFM41HK-683	"	0.068μ F 50V
C608	QFM41HK-103	"	0.01μ F 50V

**Resistor**

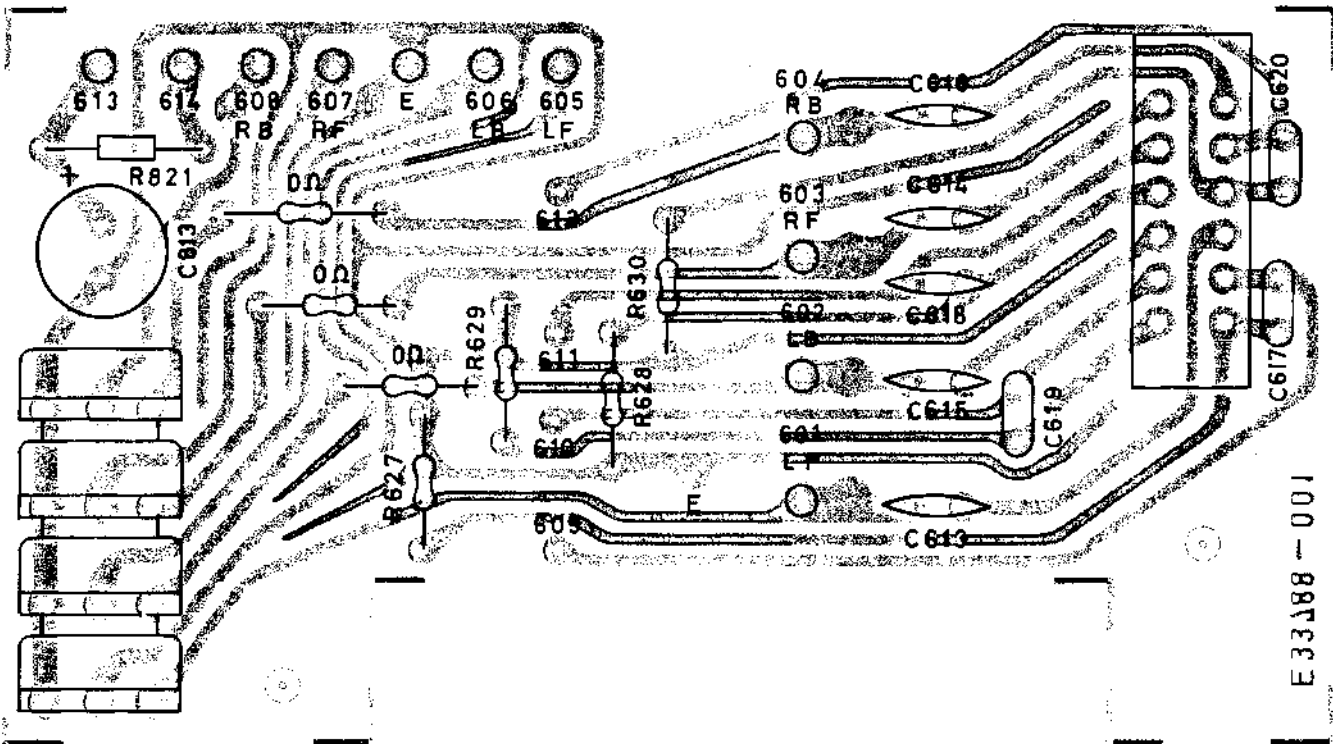
Ref. No.	Parts No.	Parts Name	Description
R451,452 R405,406 R401,402 R403,404 R449,450,R409	QRZ0019-154 QRD141J-474 QRD141J-224 QRD141J-394 QRD141J-223	Carbon " " " "	150K $\Omega$ 1/4W 470K $\Omega$ " 220K $\Omega$ " 390K $\Omega$ " 22K $\Omega$ "
R407,408 R445,446 R441,412 R415,416 R413,414	QRD141J-102 QRD141J-684 QRD141J-223 QRD141J-331 QRD141J-474	" " " " "	1K $\Omega$ " 680K $\Omega$ " 22K $\Omega$ " 330 $\Omega$ " 470K $\Omega$ "
R417 R447,448 R419,420 R611,622 R601,602 R603,604	QRD141J-473 QRD141J-183 QRD141J-562 QRD141J-222 QRD141J-224	" " " " "	47K $\Omega$ " 18K $\Omega$ " 5.6K $\Omega$ " 2.2K $\Omega$ " 220K $\Omega$ "
R605,606 R607,608 R621,R609,610 R613,614 R615,616	QRD141J-684 QRD141J-474 QRD141J-472 QRD141J-153 QRD141J-821	" " " " "	680K $\Omega$ " 470K $\Omega$ " 4.7K $\Omega$ " 15K $\Omega$ " 820 $\Omega$ "
R617,618 R619,620 R627 R628 R625,626 R623,624	QRD141J-392 QRD141J-683 QRD141J-472 QRD141J-105 QRD141J-472	" " " " "	3.9K $\Omega$ " 68K $\Omega$ " 4.7K $\Omega$ 1/2W 1M $\Omega$ " 4.7K $\Omega$ "
R622 R454 R822	QRD141J-0R0 QRC121K-182 QRC121K-100 QRC121K-821	Jumping Composition " "	0 $\Omega$ " 1.8K $\Omega$ " 10 $\Omega$ " 820 $\Omega$ "

**Others**

Ref. No.	Parts No.	Parts Name	Description
	QSR6084-202 QSR6084-201 QSP0219-001	Slide Rotary Switch " Push Switch	Select Mode Tape Mon



# TAC-362 VOLUME C.B. ASS'Y



## Resistor

Ref. No.	Parts No.	Parts Name	Description
R627~630	QRD141J-0R0	Jumping Resistor	0Ω
250KB	QRD141J-223	Carbon Resistor	22K 1/4W
	AVF1A2B-0F5	V. Resistor	Level Control

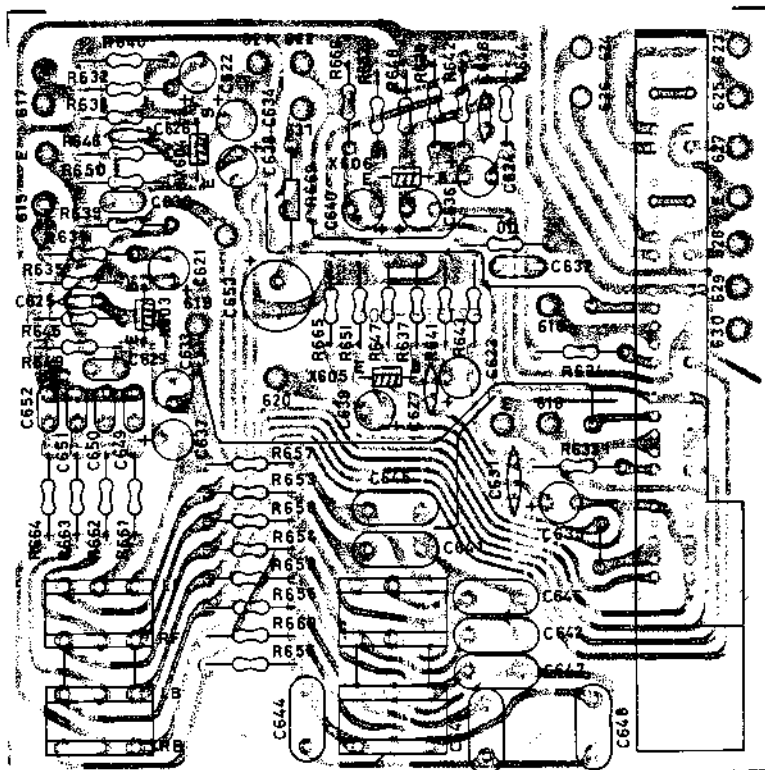
## Capacitor

Ref. No.	Parts No.	Parts Name	Description
C613,616	QCS11HJ-331	Ceramic	330pF 50V
C617,610	QFM41HK-103	Mylar	0.01μF 50V

## Others

Ref. No.	Parts No.	Parts Name	Description
Loudness	E33775-001	Volume Bracket	Loudness Master Volume
250KB	QSP0219-001	Push Switch	
	QVN4A2B-5F5	Volume	

# TAC-363 TONE CONTROL C. B. ASS'Y



## Transistor

Ref. No.	Parts No.	Parts Name	Description	PC	ft
X603~606	E49363-001 2SC458 LGC	Volume Bracket Transistor	Silicon Hitachi	200mW	230MHz

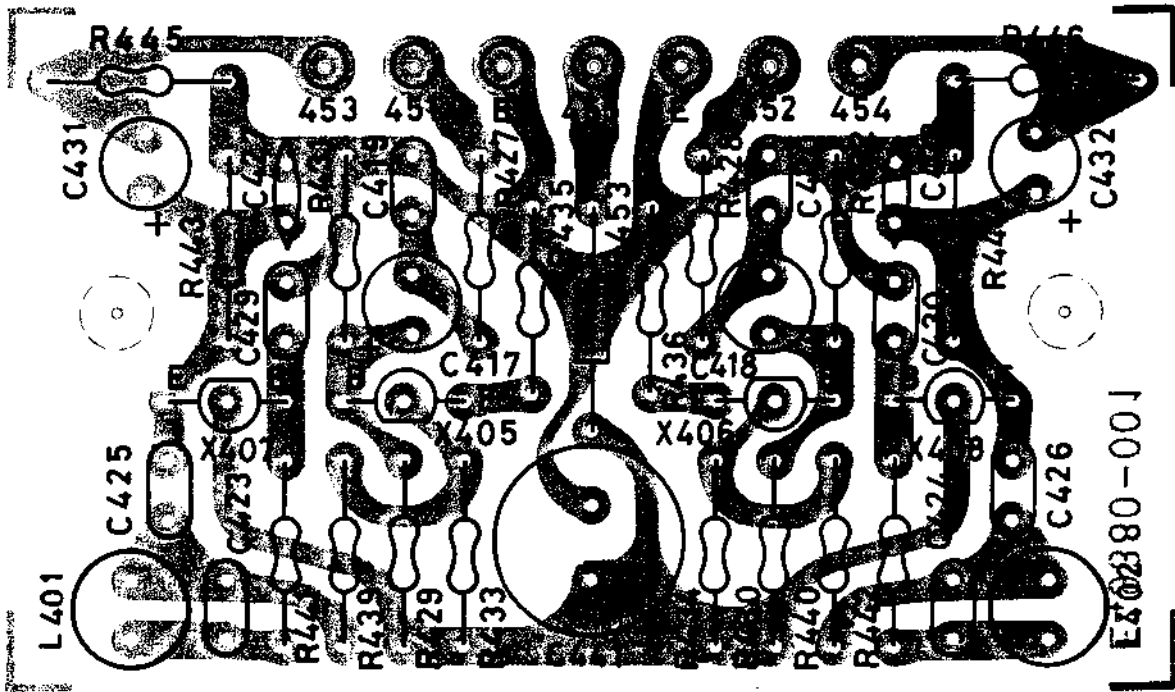
## Others

Ref. No.	Parts No.	Parts Name	Description
C625~628	QCS11HJ-470	Ceramic Capacitor	47pF 50V
C621~624	QEB41EM-105	L.L.C.E. Capacitor	1μF 25V
50KW	QVN7A2W-554	V. Resistor	Tone 50KW
C637~640	OSR60A3-202	Slide Rotary Switch	Speaker
	QEW41EA-106	Electrolytic	10μF 25V
C633~636	QEW41HA-335	"	3.3μF 50V
C653	QEW41EA-107	"	100μF 25V
C629~632	QFM41HK-102	Mylar Capacitor	0.001μF 1/2W

## Resistor

Ref. No.	Parts No.	Parts Name	Description
R669	QRD121K-222	Composition	2.2KΩ 1/2W
R649~652	QRD141J-153	Carbon	15KΩ 1/4W
R645~648	QRD141J-223	"	22KΩ "
R643~644	QRD141J-224	"	220KΩ "
R653~660	QRD141J-332	"	3.3KΩ "
R639~606	QRD141J-394	"	390KΩ "
R635~638	QRD141J-564	"	560KΩ "
R665~666			

# TAE-100 EQUALIZER C.B.ASS'Y



## Transistor

Ref. No.	Parts No.	Parts Name	Description	PC	ft
X405~408	2SC1312G	TRansistor	Mitsubishi	200mW	150MHz

## Resistor

Ref. No.	Parts No.	Parts Name	Description
R453	QRD121K-100	Composition	10Ω 1/2W
R441,442	QRD141J-222	Carbon	2.2K 1/4W
R431,432	QRD141J-473	"	47KΩ "
R435,436	QRD141J-561	"	560Ω "
R439,440	QRD141J-562	"	5.6K "
R445,446	QRD141J-563	"	56KΩ "
R427,428	QRD141J-682	"	6.8K "
R443,444	QRD141J-682	"	6.8K "
R433,434	QRD141J-822	"	8.2K "
R429,430	QRD141J-824	"	820K "

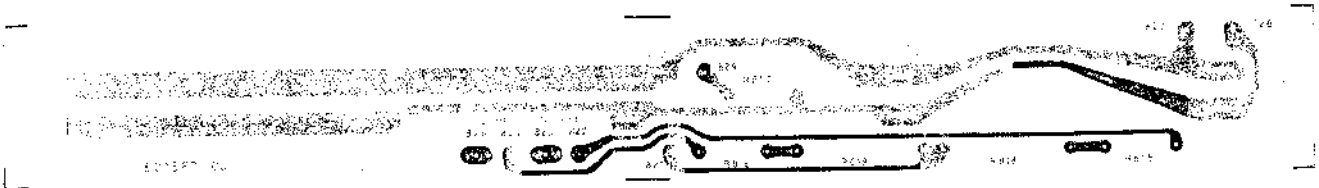
## Capacitor

Ref. No.	Parts No.	Parts Name	Description
C427,428	QCS11HJ-101	Ceramic	100pF 50V
C417,418	QEB41EM-335	L.L.C. Electrolytic	3.3μF 25V
C431,432	QEW41HA-335	Electrolytic	3.3μF 50V
C441	QEW41VA-227	"	220μF 35V
C429,430	QFM41HK-102	Mylar	0.001μF 50V
C423,424	QFM41HK-272	"	0.0027μF 50V
C419,420	QFM41HK-332	"	0.0033μF 50V
C425,426	QFM41HK-392	"	0.0039μF 50V

## Others

Ref. No.	Parts No.	Parts Name	Description
L401~402	E03566-103	Ferri Inductor	10mH

# TAC-357 LAMP C.B.ASS'Y



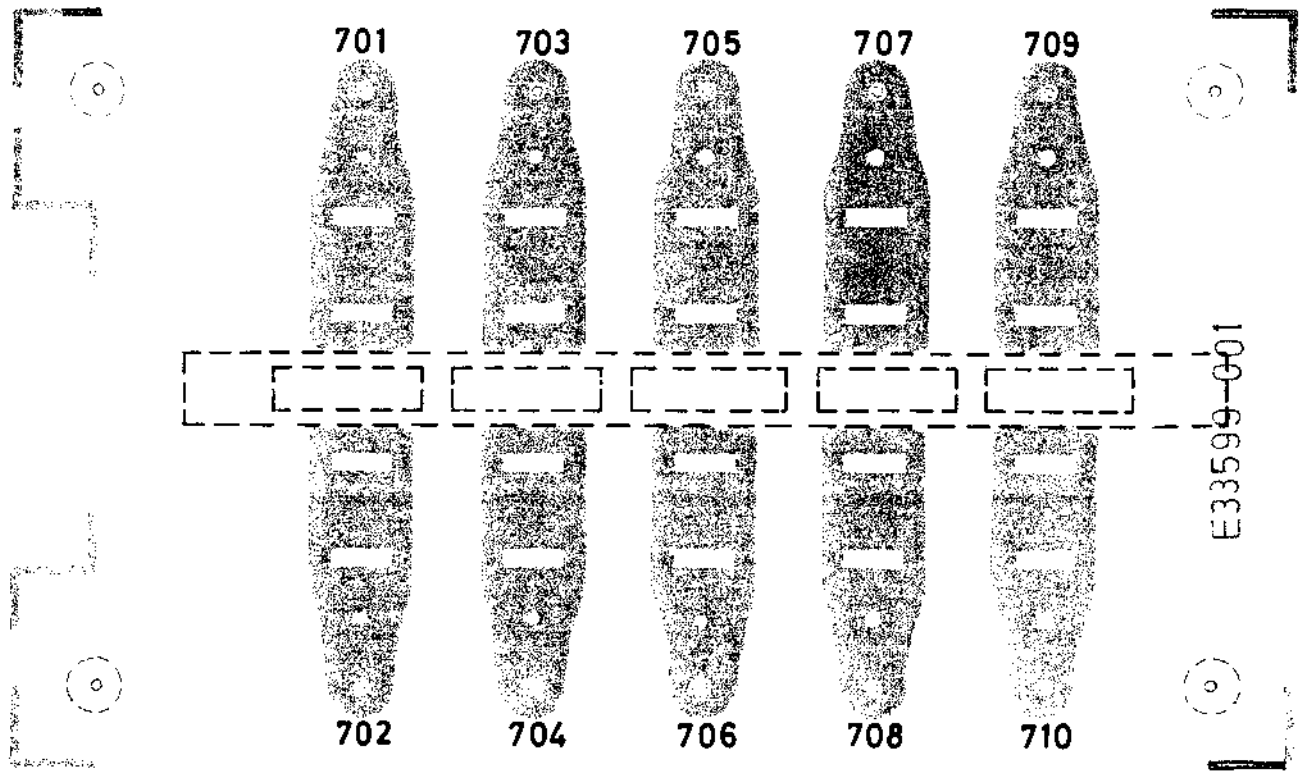
## Resistor

Ref. No.	Parts No.	Parts Name	Description
R816	QRC121K-101	Comp. Resistor	100 $\Omega$ 1/2W
R817	QRC121K-270	"	27 $\Omega$ "
R821	QRC121K-681	"	680 $\Omega$ "
R818,819	QRG021J-561	Oxide Metal Resistor	560 $\Omega$ 2W

## Others

Ref. No.	Parts No.	Parts Name	Description
	QLP3104-106 50689 UD	Mini Lamp Pilot Lamp Socket	Stereo CD-4 6V 35mA

# TPS-4/4B FUSE C.B.ASS'Y



## TPS-4

Ref. No.	Parts No.	Parts Name	Description
	E49035-011 OMF63R 1-2R3 OMF63R 1-R50	Fuse Label Fuse Fuse	Pig tail "

## TPS-4B

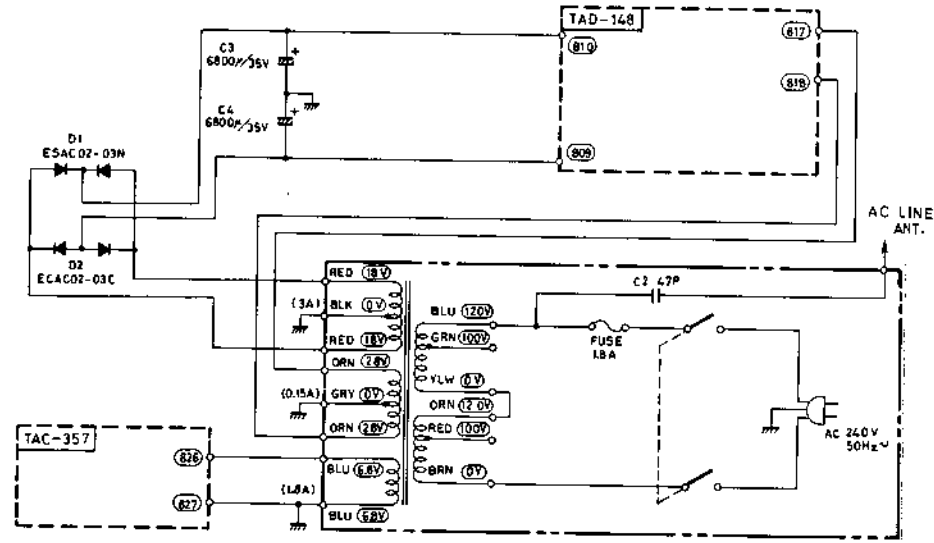
Ref. No.	Parts No.	Parts Name	Description
	E48965-002 E49035-012	Fuse Clip Fuse Label	



# MODEL 4VR-5426X SCHEMATIC DIAGRAM

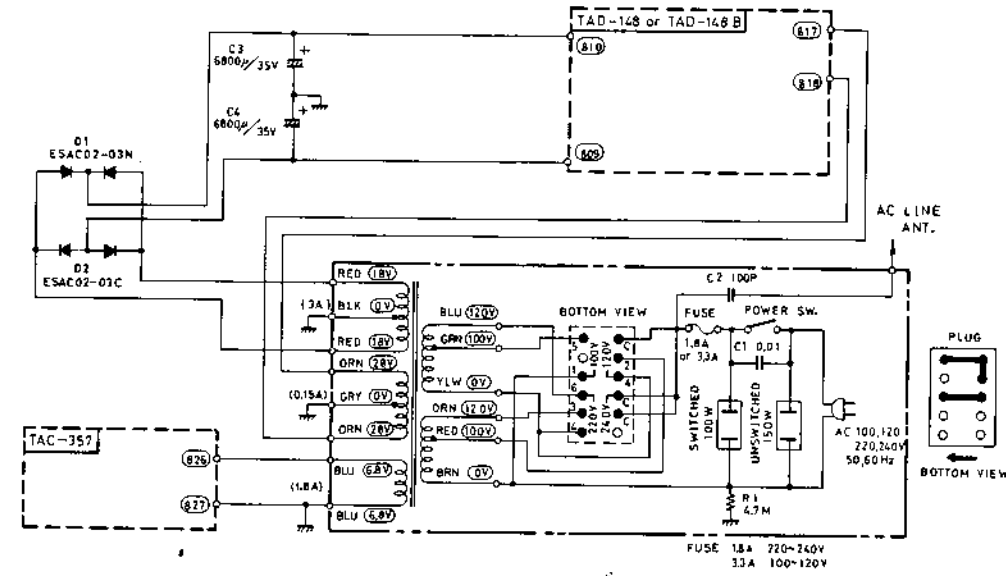
(A) FOR AUSTRALIA AND ENGLAND

- TUNER C.B ASS'Y TFM-320GUA2 50μSEC
- PRIMARY CIRCUIT



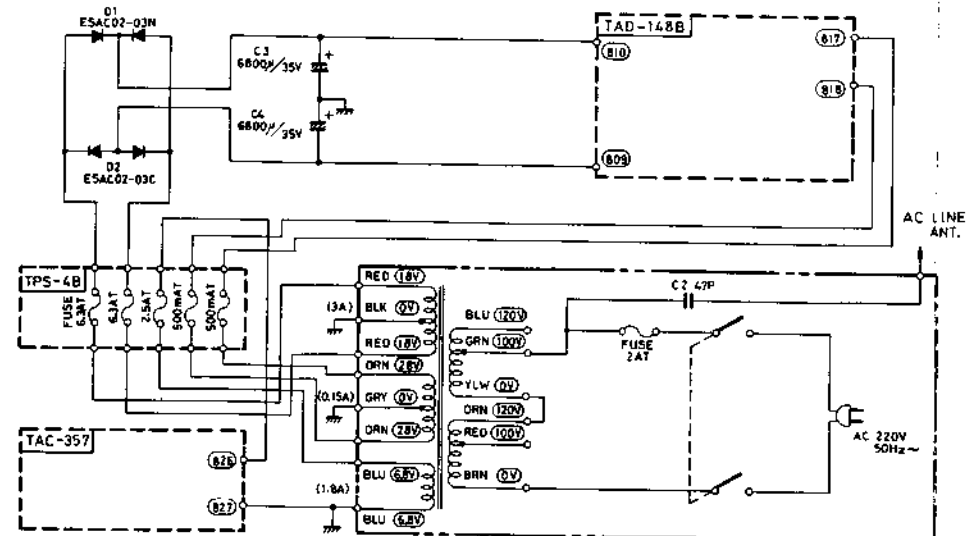
(F) FOR EUROPE

- (P) FOR PACEX, NEX,
- (U) FOR OTHER COUNTRIES
- TUNER C.B ASS'Y (P)(U) TFM-320GUA1 75μSEC (F) TFM-320GUA2 50μSEC
- PRIMARY CIRCUIT



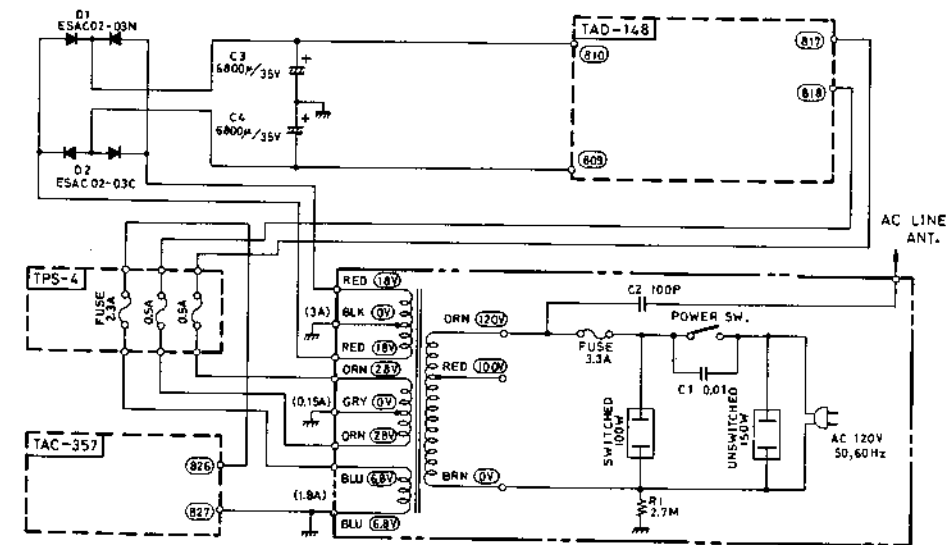
(E) FOR EUROPE

- TUNER C.B ASS'Y TFM-320GUA2 50μSEC
- PRIMARY CIRCUIT AND SECONDARY FUSES



(M) FOR CANADA

- TUNER C.B ASS'Y TFM-320GUA1 75μSEC
- PRIMARY CIRCUIT AND SECONDARY FUSES



# PARTS LIST OF SPECIFIED NUMBERS FOR DESIGNATED AREAS

PARTS NAME	ORIGINAL (U.S.A.)	CANADA	EUROPE SEMKO, SEV	EUROPE EXCEPT SEMKO, SEV	AUSTRALIA and U.K.	PACEX, NEX	ALL OTHER COUNTRIES
POWER SWITCH	QSU1221-001	*	QSY2220-004	QSL1135-007	QSY2220-004	QSL1135-007	QSL1135-007
POWER TRANSF.	E03611-1	*	E03611-1B	E03611-1B	E03611-1B	E03611-1B	E03611-1B
VOLT SELECT SOCKET	-	-	-	QMC9004-001	-	QMC9004-001	QMC9004-001
VOLT SELECT PLUG	-	-	-	QMC9005-001	-	QMC9005-001	QMC9005-001
TUNER C.B. ASS'Y	TFM-320GUA1	*	TFM-320GUA2	TFM-320GUA2	TFM-320GUA2	*	*
POWER CORD	QMP1200-244	*	QMP3800-244 EO3544-001	QMP1200-244 EO3329-001	EO3551-002	*	*
POWER CORD STOPPER	E31704-003	*	*	*	E31704-002	*	*
CORD COVER	-	-	(SEMKO) E48663-001	-	E48251-001	-	-
ENVELOPE	-	-	E64203-073	-	-	-	-
POWER AMP C.B. ASSY	TAD-148	*	TAD-148B	*	*	*	*
FUSE HOLDER BOARD	-	-	QMG1321-002	QMG1121-001	-	QMG1121-001	QMG1121-001
FUSE	QMF66U1-3R0	QMF63R1-3R3	QMF51A2-2R0	QMF60R1-3R3 -1R8	QMF63R1-1R8	QMF60R1-3R3 QMF60R1-1R8	QMF60R1-3R3 QMF60R1-1R8
FUSE LABEL	E44777-002	E48200-005	E46264-006	E45314-004	E43716-005	E45314-004	E45314-004
TERMINAL LUG	-	-	E46310-003	-	E46310-003	-	-
FUSE C.B. ASS'Y	-	TPS-4	TPS-4B	-	-	-	-
FUSE Secondary	-	QMF63R1-2R3	QMF51A2-2R5	-	-	-	-
	-	QMF63R1-R50	QMF51A2-R50	-	-	-	-
	-		QMF51A2-6R3	-	-	-	-
FASTENER	-	E49414-001	E49414-001	-	-	-	-
WARNING LABEL	-	-	-	-	QZL1002-002	-	-
EARTH LABEL	-	-	-	-	E45358-001	-	-
CERAMIC CAPACITOR	QCZ9008-101	*	QCZ9003-007	*	*	*	*
RATING PLATE	E47330-124	E48761-045	E47330-128	E47330-126	E47330-129	E47330-127	E47330-126
FUSE SPEAKER	QMF60S1-2R5	*	QMF51A2-2R5	*	*	*	*
<b>ACCESORIES</b>							
CAUTION TAG	V40962-3	*	*	*	*	*	*
MATRIX TAG	E49036-002	*	*	*	*	*	*
RECORD	4DE-205	*	*	*	*	*	*
INSTRUCTION BOOK	E30580-464A -	*	*	*	*	*	*
		E30580-465A	-	-	-	-	-
WARRANTY CARD	BT-20002C	BT-20008	-	-	-	E32980-002	-
FUSE	-	-	-	QMF60R1-3R3	-	QMF60R1-3R3	QMF60R1-3R3
	-	-	-	QMF60R1-1R8	-	QMF60R1-1R8	QMF60R1-1R8
FUSE LABEL	-	-	-	E7958-D	-	E7958-D	E7958-D
ENVELOPE (FUSE)	-	-	-	E64208-001	-	E64208-001	E64208-001

\* Same as original (USA)

- Not used



**JVC**

VICTOR COMPANY OF JAPAN, LIMITED, TOKYO, JAPAN

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