

JVC

SERVICE MANUAL


MODEL
T-X2
STEREO TUNER



No. 2514
JUN. 1980

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<p>WARNING! When replacing the parts marked with , be sure to use the designated parts to ensure safety.</p>
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1. Specifications

FM Tuner Section

Tuning range	: 87.55 MHz – 108.00 MHz
Usable sensitivity	: 1.4 μ V/75 Ω (14.2 dBf IHF)
50 dB S/N sensitivity (IHF-network)	: Mono 31.2 dBf (10 μ V) Stereo 39.2 dBf (25 μ V)
Signal-to-noise ratio (IHF-network)	: Mono 67 dB Stereo 63 dB
Distortion at 1 kHz (100 % Mod.) (IHF-network)	: 0.15 % (Mono), 0.3 % (Stereo)
Capture ratio	: 1.5 dB
Alternate channel selectivity	: 65 dB \pm 400 kHz (IHF)
Image rejection	: 55 dB
IF rejection	: 60 dB

Stereo separation at

1 kHz	: 40 dB
Frequency response	: 20 Hz – 12.5 kHz (+1.0 dB – 6 dB)
Output level	: 600 mV (400 Hz, 100 % Mod.)
Antenna	: 75 Ω unbalanced, 300 Ω balanced

AM Tuner Section

Tuning range	: 531kHz–1602 kHz
Usable sensitivity (S/N 20 dB)	: 500 μ V/m
Selectivity (\pm 10 kHz)	: 35 dB
Antenna	: Ferrite bar antenna
Dimensions (HxWxD)	: 108 x 420 x 258 mm (4-5/16" x 16-9/16" x 10-3/16")
Weight	: 4 kg (8.82 lbs.)

Design and specifications subject to change without notice.

2. Names and Their Functions

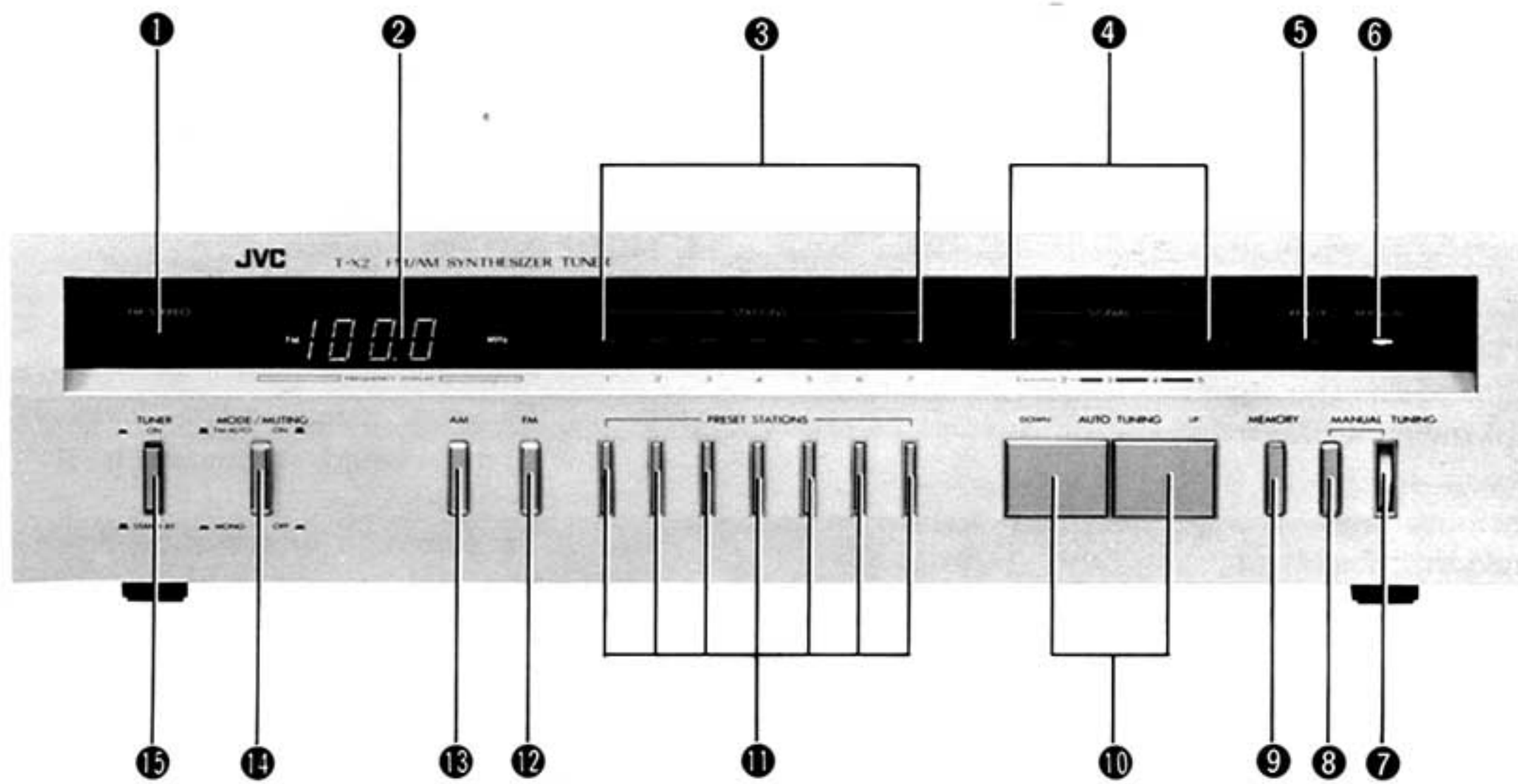


Fig. 1

1. STEREO indicator

This indicator lights when you are tuned to a stereo broadcast with the MODE/MUTING switch set to ON (■).

2. Frequency indicator

The tuned-in frequency is displayed digitally. Five digits (kHz) are displayed for AM reception and five digits (MHz) are displayed for FM reception.

Notes: ●When the STATION select button to which no station has been preset is pressed, the frequency indicator displays a random figure.
●When a weak station is tuned in, the display of the lowest digit is not stable.

3. STATIONS indicators

The indicator, corresponding to the selected station, lights when one of the STATIONS buttons is pressed.

Note: When you press the TUNER switch, this indicator sometimes lights, this does not indicate trouble. In this case press the AUTO Tuning switch.

*LED: Light Emitting Diode.

4. SIGNAL strength indicator

Indicates the strength of the signal being received. Best reception is obtained when all five LEDs* light. Adjust the antenna so that the maximum number of LEDs light.

5. READY indicator

Only while the MEMORY button is pressed, this indicator lights to show that the unit is ready to register the preset stations for memory. While it remains lit (by pressing the MEMORY button), press one of the STATIONS buttons to preset to any desired station.

6. MANUAL tuning indicator

When the MANUAL switch is pressed, this indicator lights to indicate that manual tuning is possible.

7. MANUAL TUNING knob

Manual tuning is possible by this MANUAL TUNING knob and the MANUAL switch. First press the MANUAL switch, then turn the MANUAL TUNING knob to tune-in FM or AM stations.

8. MANUAL switch

When you use the MANUAL TUNING knob press this switch first. To release the manual tuning, press the UP or DOWN button or STATIONS buttons.

9. MEMORY button

When this button is pressed, the READY indicator lights. When this button is released, the indicator goes out. If the STATIONS button is pressed while this indicator is lighting, the frequency of the station being received is displayed and becomes preset to that channel. When the STATIONS button is pressed after this indicator extinguishes, the frequency of the previously preset station is displayed on the frequency indicator. In that case, perform tuning once again and press the MEMORY button.

10. AUTO TUNING button

Press this button for auto tuning to both FM and AM broadcasts.

DOWN: Press this button to change the tuned-in frequency in the direction of decreasing frequencies. The tuned-in frequency changes until the next FM or AM station is pulled in.

UP: Press this button to change the tuned-in frequency in the direction of increasing frequencies. The tuned-in frequency changes until the next FM or AM station is pulled in.

Note: If you hold the button pressed, scanning continues even though the next station is tuned-in. Therefore, use this button for automatic rapid scanning.

When the high or the low end of the frequency is reached with the UP or DOWN button, the frequency display returns to the low or the high end of the frequency, and then scanning starts once again.

If, in some areas other stations having a stronger output than normal are near the station being received, that interfering station may be received repeatedly. In this case, tune in the desired station with the MANUAL TUNING knob.

11. STATIONS buttons

These buttons are used to select one of the preset stations or to preset the station for an individual channel. For presetting, press one of these buttons while the READY indicator remains lit by holding the MEMORY button pressed. Then the station which is being received will be "memorized". One of the STATIONS indicators will light to show which channel is in operation.

12. FM button

Press to listen to FM broadcasts. A light touch is sufficient for switching.

13. AM button

Press to listen to AM broadcasts. A light touch is sufficient for switching.

14. MODE/MUTING switch

OFF: To improve sub-standard reception of FM (—) broadcasts. Stereo broadcasts are monauralized, however, their clarity of reception is improved. In weak signal areas, however, the muting circuit could mute even the signal being received.

ON: To eliminate inter-station noise during tuning. (■) Use this position in normal use. Stereo broadcasts are received in stereo and monaural broadcasts are received in mono automatically.

15. TUNER switch

ON (—): Press to ON to listen to broadcasts.

STAND BY: When the power cord is plugged into the (■) AC outlet, the preset stations are not subject to cancellation or alteration. The preset data are maintained even in the case of a power failure or when the power cord is disconnected, if the period of non-applied power does not exceed a couple of days.

3. Service Precautions

1. Because the pushbutton switches are incorporated in the front panel, removal of the panel is necessary to replace the switches.
2. Pay attention to handle the fluorescent tube, used for the frequency display section of the logic control board, (TXX-242) very carefully.
3. Remove the bottom board from the rear side to gain access to the tuner board (TXX-248). See page 17 for removal of the power supply board (TPS-263).

4. Removal Procedures

4-(1) Top and Bottom Plate

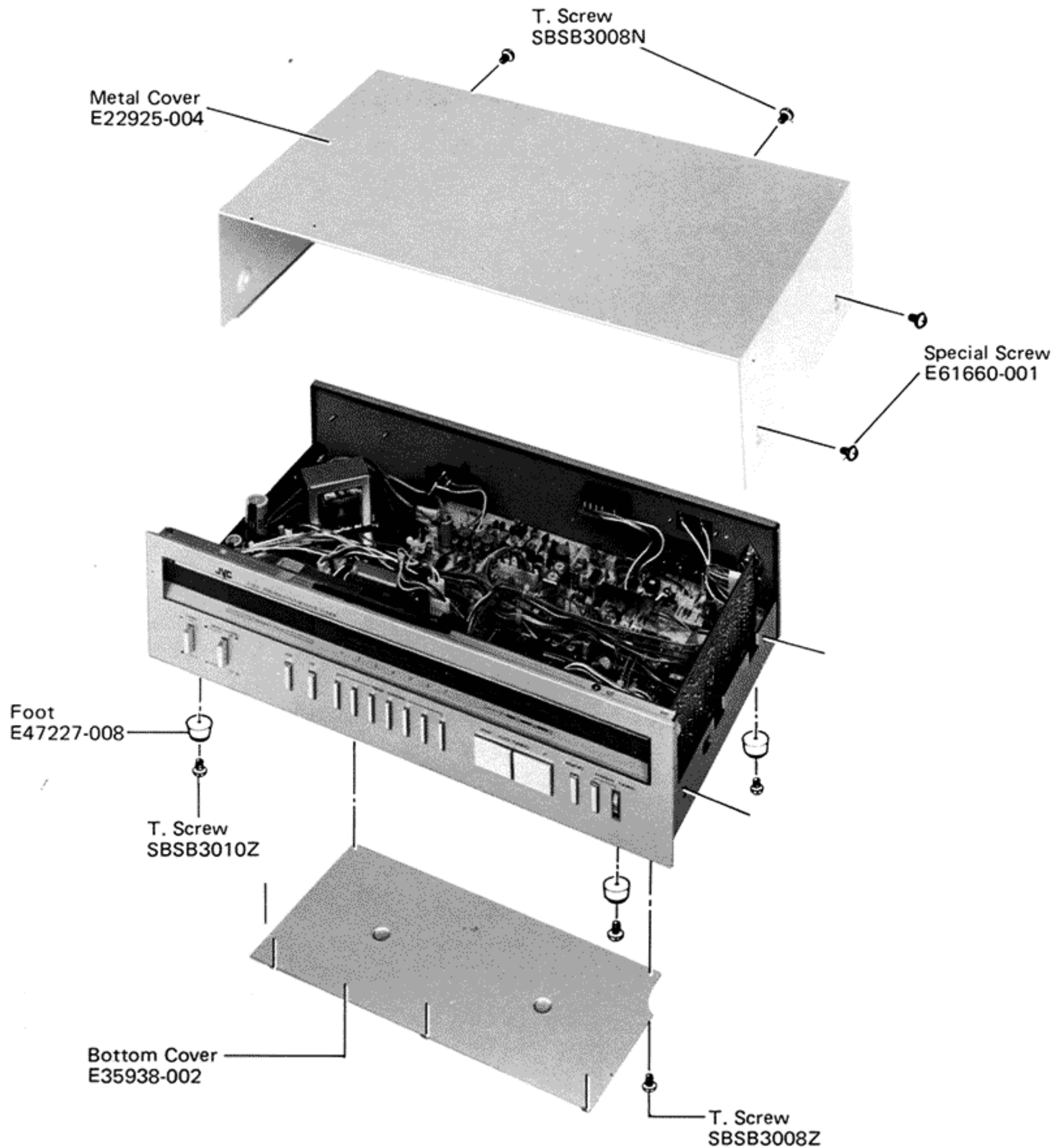


Fig. 2

4-(2) Power Supply (TPS-263) P.C.Board Ass'y

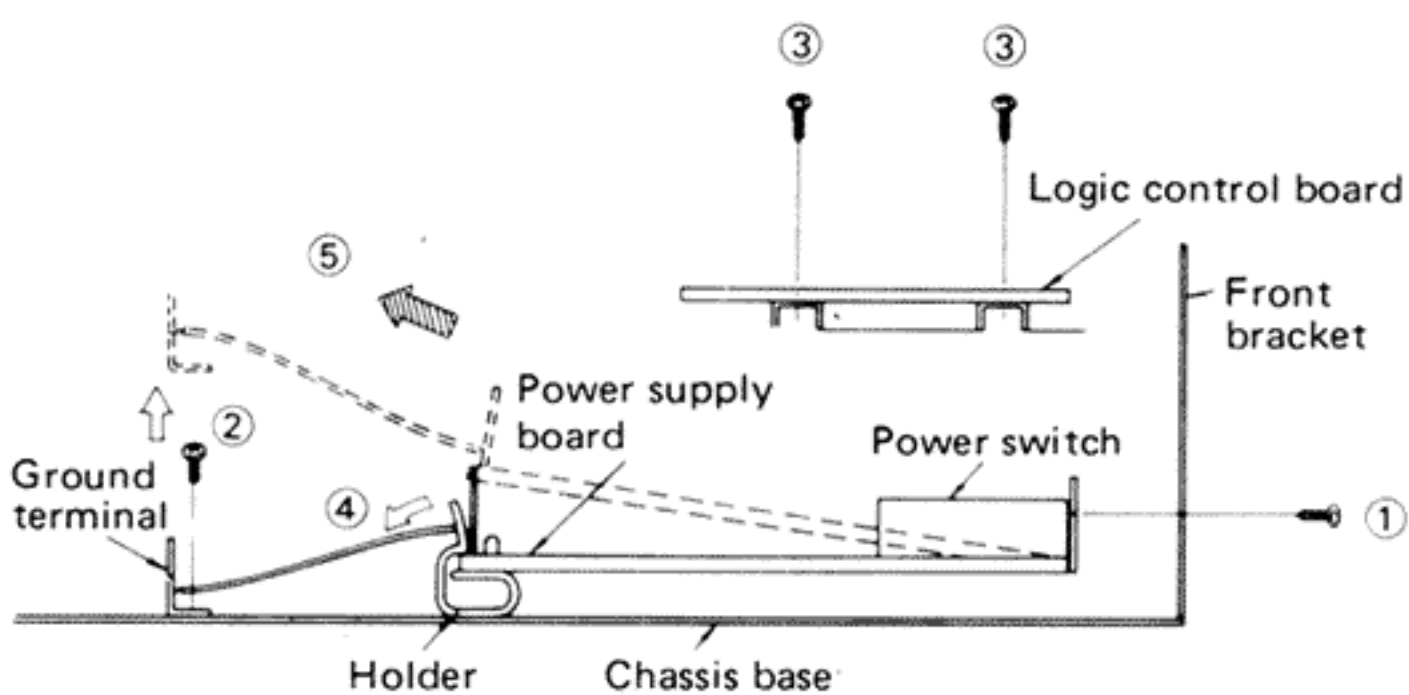


Fig. 3

1. Remove the front panel, then remove the two set screws ① of the power switch.
 2. Remove the set screw ② of the ground terminal.
 3. Remove the four set screws ③ of the logic control board.
 4. Push in the direction of the arrow ④ the holder which secures the power supply board. Then remove the board from the holder.
 5. Draw out the power supply board in the oblique direction of the arrow ⑤.
- Note:** For energizing, be sure to secure the logic control board (with the set screws ③).

5. Main Parts Location and Part Numbers

5-(1) Top View

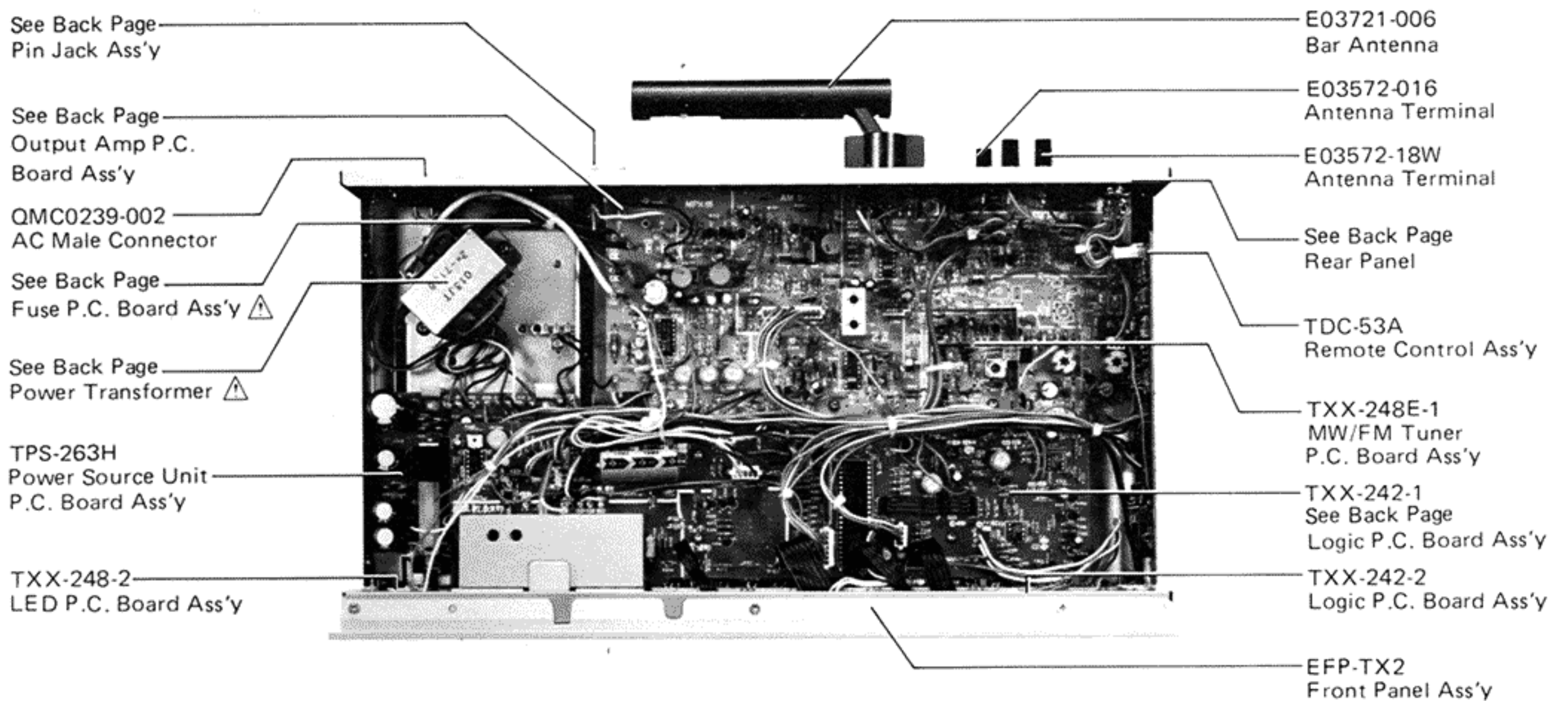


Fig. 4

5-(2) Front View

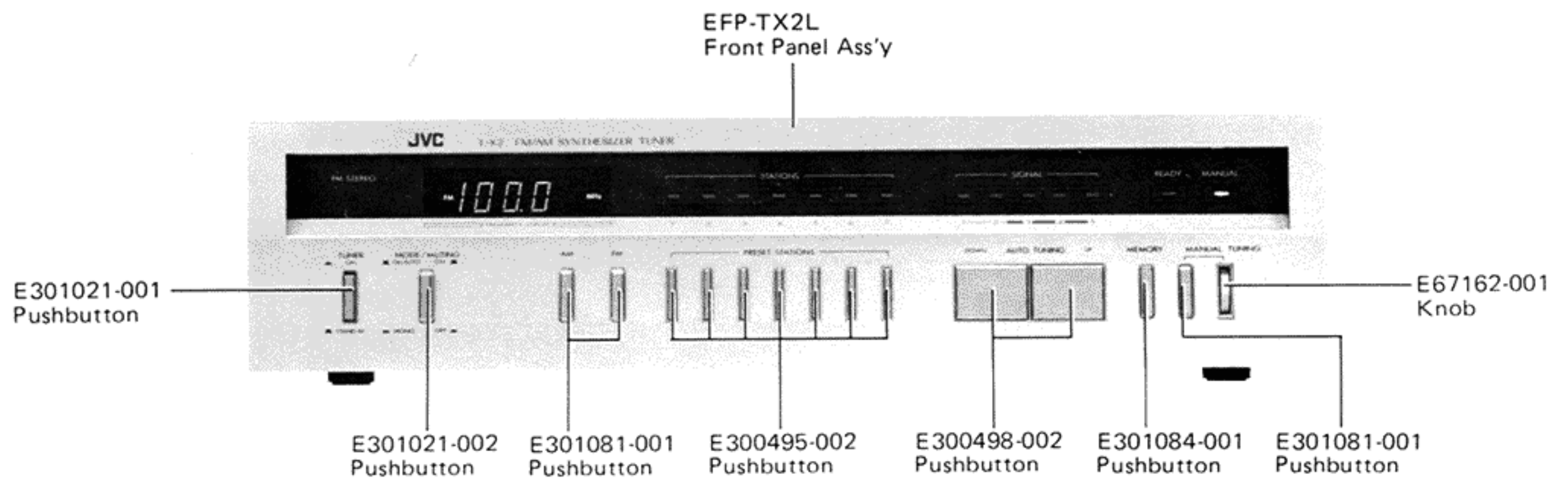


Fig. 5

5-(3) Rear View

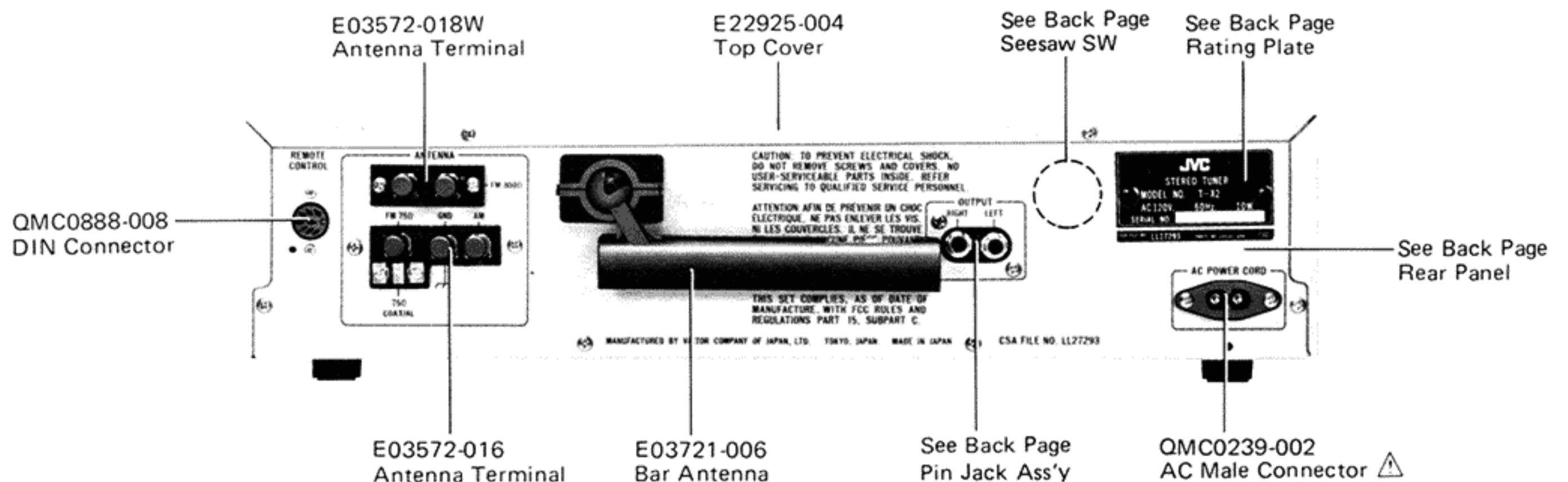
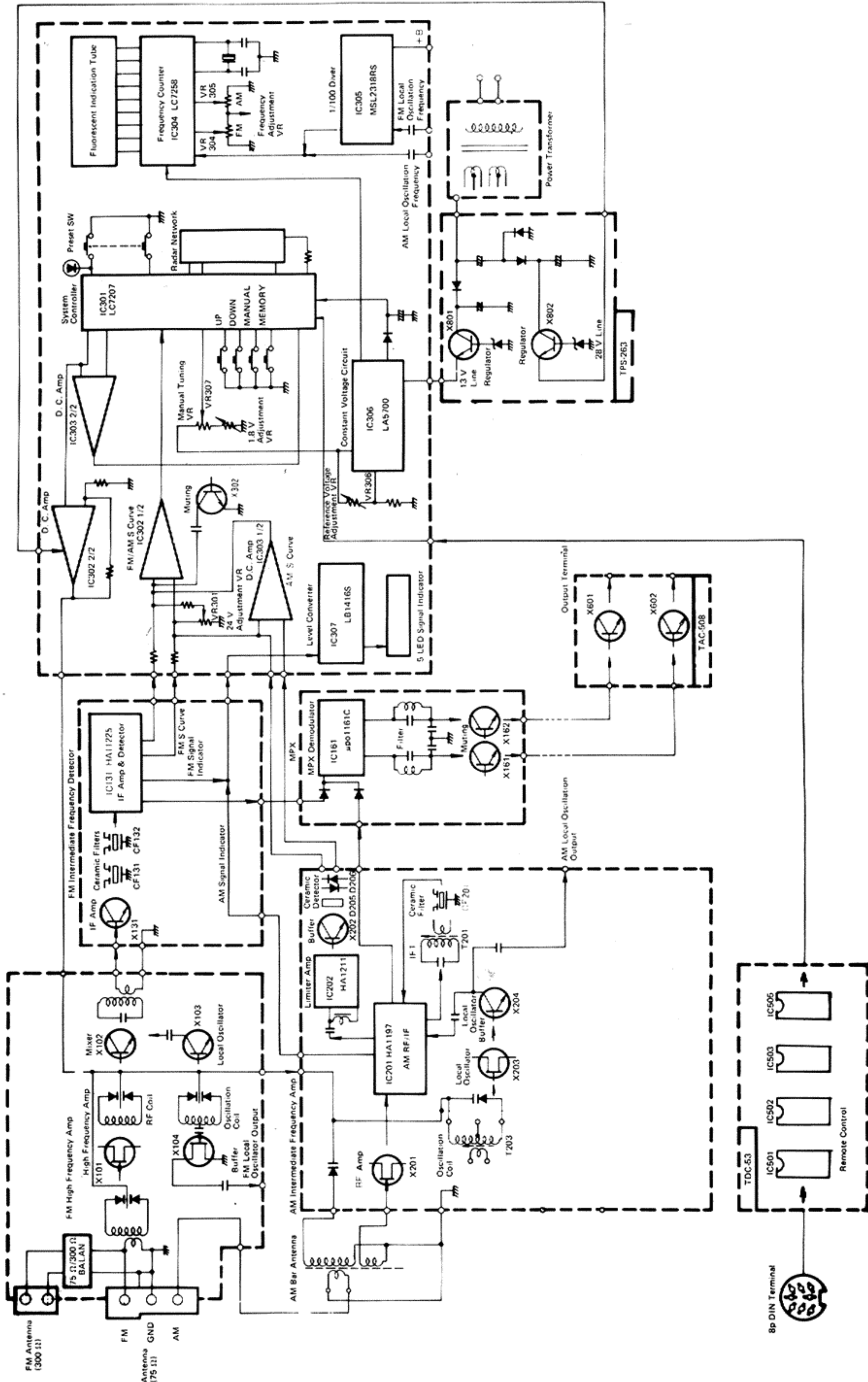


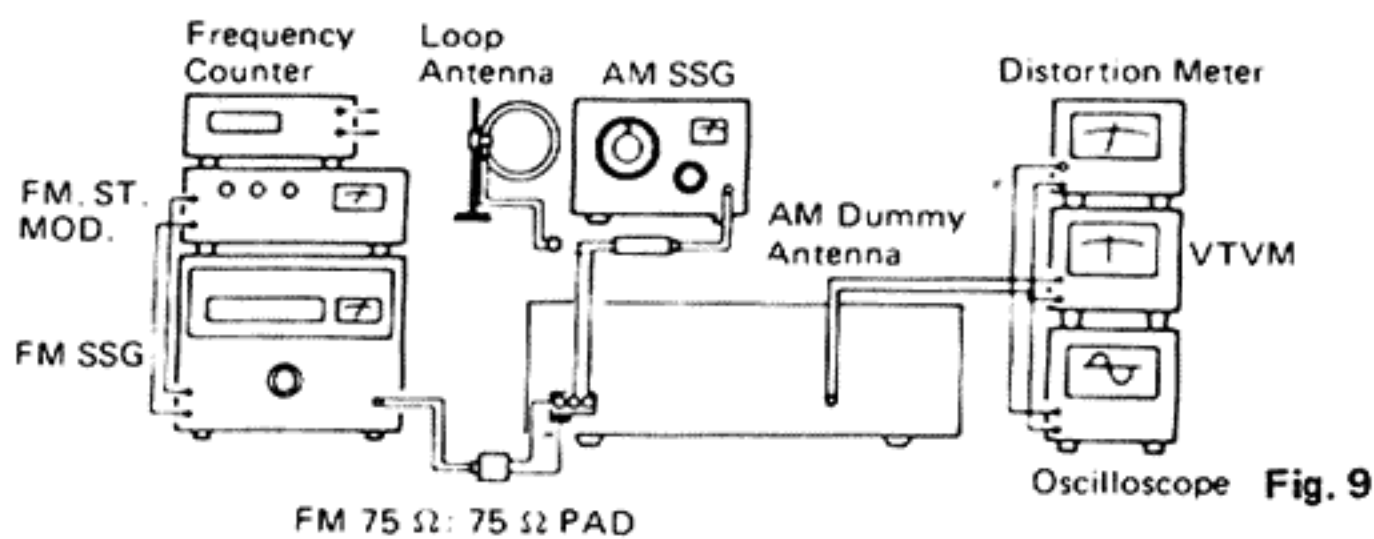
Fig. 6

6. Block Diagram



8. Alignment Procedures

8-(1) FM Section



Step 1. Tuning Voltage Adjustment

Operating conditions	Test points and criteria	Adjustment points
(1) Set to manual operation. Maximize tuning voltage by turning the tuning VR fully upward.	Adjust VR306 so that the voltage at TP-335 is 24 V ±0.1 V. Adjust C125 so that the displayed frequency is 108 MHz.	VR306 C125
(2) Minimize the tuning voltage by turning the manual tuning VR fully downward.	Adjust VR303 so that the voltage at TP-335 is 1.8 V ±0.1 V. Adjust L103 so that the displayed frequency is 87.6 MHz.	VR303 L103
(3)	Repeat 2 or 3 times items (1) and (2), and confirm that the adjustment is positively performed.	

Step 2. Logic S-curve Adjustment

Operating conditions	Test points and criteria	Adjustment points
Adjust with the manual tuning VR set to a position with no signal and which is near the AM 1000 kHz position.	Adjust VR301 so that the voltage between TP-336 and ground is 4.75 V ±0.05 V.	VR301
Adjust with the manual tuning VR set to a position with no signal and which is near the FM 98 MHz position.	Confirm that the voltage between TP-336 and ground is 4.75 V ±0.05 V. If deviated, reconfirm that the voltage between TP-1 and TP-2 is 0.	Primary winding of T131

Step 3. FM Sensitivity Adjustment (SSG signal, 1 kHz, 100 % (75 kHz) modulation)

Operating conditions	Test points and criteria	Adjustment points
(1) A 90 MHz signal of 16 dBf (3 μV/75 Ω) is applied to the FM antenna terminal and received with the manual tuning VR.	Adjust L101, L102 and T101 so that the tuner output distortion is minimum (less than 3 %).	L101 L102 T101
(2) A 106 MHz signal of 16 dBf (3 μV/75 Ω) is applied to the FM antenna terminal and received with the manual tuning VR.	Adjust C103 and C105 so that the tuner output distortion is minimum (less than 3 %).	C103 C105
(3)	Repeat 2 or 3 times items (1) and (2), and confirm that the adjustment is positively performed.	

Step 4. FM Detection Coil Adjustment

Operating conditions	Test points and criteria	Adjustment points
(1) With the manual tuning VR set to a position with no signal and which is near the 98 MHz position.	Adjust the primary winding of T131 so that the voltage between TP-1 and TP-2 is DC 0 V.	Primary winding of T131
(2) A 1 kHz 100 % modulation 98 MHz of 60 dBf is applied to the FM antenna terminal and received with the manual tuning VR.	Adjust the secondary winding of T131 so that the tuner output distortion is minimum (less than 0.5 %).	Secondary winding of T131

Step 5. FM Muting Sensitivity Adjustment

Operating conditions	Test point and criteria	Adjustment point
With the muting switch set to ON, a 98 MHz signal of 5 μV/75 Ω is received with manual tuning VR.	Adjust R158 so that the muting operation goes on.	R158

Step 6. Multiplex Free-run Frequency Adjustment

Operating conditions	Test point and criteria	Adjustment point
With no FM signal and with the MODE/MUTING switch and the muting operation in the ON state, perform the adjustment.	Connect a counter between TP-3 and ground, and adjust to 19 kHz by R185.	R185

Step 7. FM Stereo Separation Adjustment

Operating conditions	Test point and criteria	Adjustment point
A 98 MHz, 60 dBf signal 400 Hz main + subcarrier, 67.5 kHz DEV and 19 kHz pilots and 7.5 kHz DEV modulating signal are applied to the FM antenna terminal and received with manual tuning VR.	Adjust R186 so that the separation of R → L and L → R at the output is maximum. Check the lighting of the stereo radar.	R186

Note: When tuning, connect a center meter between TP-1 and TP-2 and perform the tuning so that the reading of the center meter is 0, thus permitting accurate reception.

Step 8. Displayed Frequency Fine Adjustment

Operating conditions	Test point and criteria	Adjustment point	
FM	A 98 MHz signal is applied to the FM antenna terminal and is tuned by the manual tuning VR so that the maximum number of SIGNAL indicator LEDs light, i.e. the DC voltage at S. IND input point 326 is maximum.	Connect a 10 kΩ resistor between TP-342 and ground, and adjust VR304 so that the display is 98 MHz and 0 characters do not flicker.	VR304

8-(2) AM Section

Step 1. AM Reception Frequency Band Adjustment

Operating conditions	Test points and criteria	Adjustment points
(1) Minimize tuning voltage by turning the tuning VR fully downward.	Adjust T203 so that the frequency displayed on the indicator is 525 kHz	T203
(2) Maximize the tuning voltage by turning the tuning VR upward.	Adjust C234 so that the frequency displayed on the indicator is 1605 kHz	C234
(3)	Repeat items (1) and (2), and check the adjustment.	

Step 3. Displayed Frequency Fine Adjustment

Operating conditions	Test point and criteria	Adjustment point	
AM	A 1000 kHz signal is applied to the AM bar antenna and is tuned by the manual tuning VR so that the maximum number of SIGNAL indicator LEDs light, i.e. the DC voltage at S. IND input point 326 is maximum.	Connect a 10 kΩ resistor between TP-342 and TP-343, and adjust VR305 so that the display is 1000 kHz and the character for 0 at the first digit does not flicker.	VR305

Step 2. AM Sensitivity Adjustment

Operating conditions	Test points and criteria	Adjustment points
(1) Locate a 600 kHz (kHz) signal with the manual tuning VR.	Adjust the AM bar antenna so that the tuner output is maximum.	AM bar antenna
(2) Locate a 1400 kHz signal with the manual tuning VR.	Adjust C205 so that the tuner output is maximum.	C205
(3)	Repeat Items (1) and (2), and check the adjustment.	

9. Printed Circuit Board Ass'y and Parts List

9-(1) TDC-53 Remote Control P.C. Board Ass'y

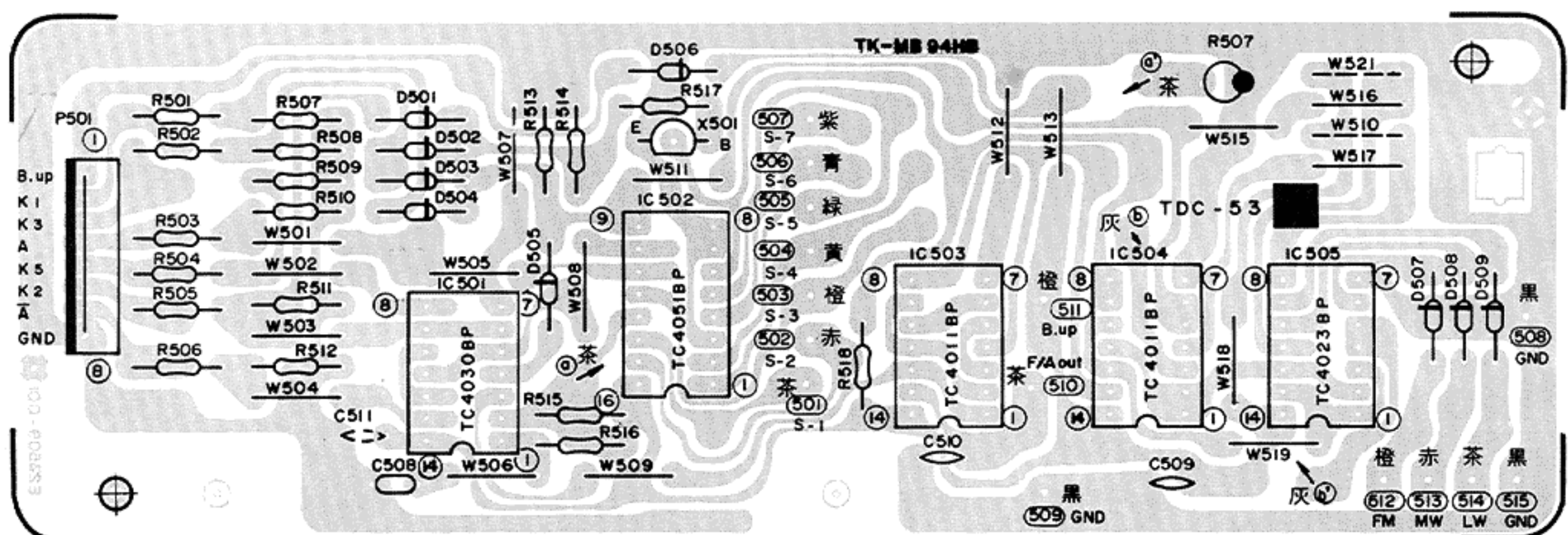


Fig. 10

Transistor

Item No.	Part Number	Rating		Description	
		Pc	fT		Maker
X501	2SC458(D)	0.2 W	230 MHz	Silicon	Hitachi

Integrated Circuits

Item No.	Part Number	Rating		Description	
		PD			Maker
IC501	TC4030BP	300 mW		I.C.	Toshiba
IC502	TC4051BP	-		"	"
IC503	TC4011BP	300 mW		"	"
IC504	TC4011BP	300 mW		"	"
IC505	TC4023BP	300 mW		"	"

Diodes

Item No.	Part Number	Rating	Description	
				Maker
D501	1S2076-31		Silicon	Hitachi
D502	1S2076-31		"	"
D503	1S2076-31		"	"
D504	1S2076-31		"	"
D505	1S2076-31		"	"
D506	1S2076-31		"	"
D507	1S2076-31		"	"
D508	1S2076-31		"	"
D509	1S2076-31		"	"

Capacitors

Item No.	Part Number	Rating		Description
C507	QET51HR-105	1 μ F	50 V	Electrolytic
C508	QFM81HJ-223	0.022 μ F	"	Mylar
C509	QCF21HP-103	0.01 μ F	"	Ceramic
C510	QCF21HP-103	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R501	QRD148J-153S	15 k Ω	1/4 W	Carbon
R502	QRD148J-153S	"	"	"
R503	QRD148J-153S	"	"	"
R504	QRD148J-153S	"	"	"
R505	QRD148J-153S	"	"	"
R506	QRD148J-153S	"	"	"
R507	QRD148J-393S	39 k Ω	"	"
R508	QRD148J-393S	"	"	"
R509	QRD148J-183S	18 k Ω	"	"
R510	QRD148J-393S	39 k Ω	"	"
R511	QRD148J-393S	"	"	"
R512	QRD148J-183S	18 k Ω	"	"
R513	QRD148J-105S	1 M Ω	"	"
R514	QRD148J-105S	"	"	"
R515	QRD148J-104S	100 k Ω	"	"
R516	QRD148J-104S	"	"	"
R517	QRD148J-274S	270 k Ω	"	"
R518	QRD148J-333S	33 k Ω	"	"

9-(2) TPS-239 Fuse P.C. Board Ass'y

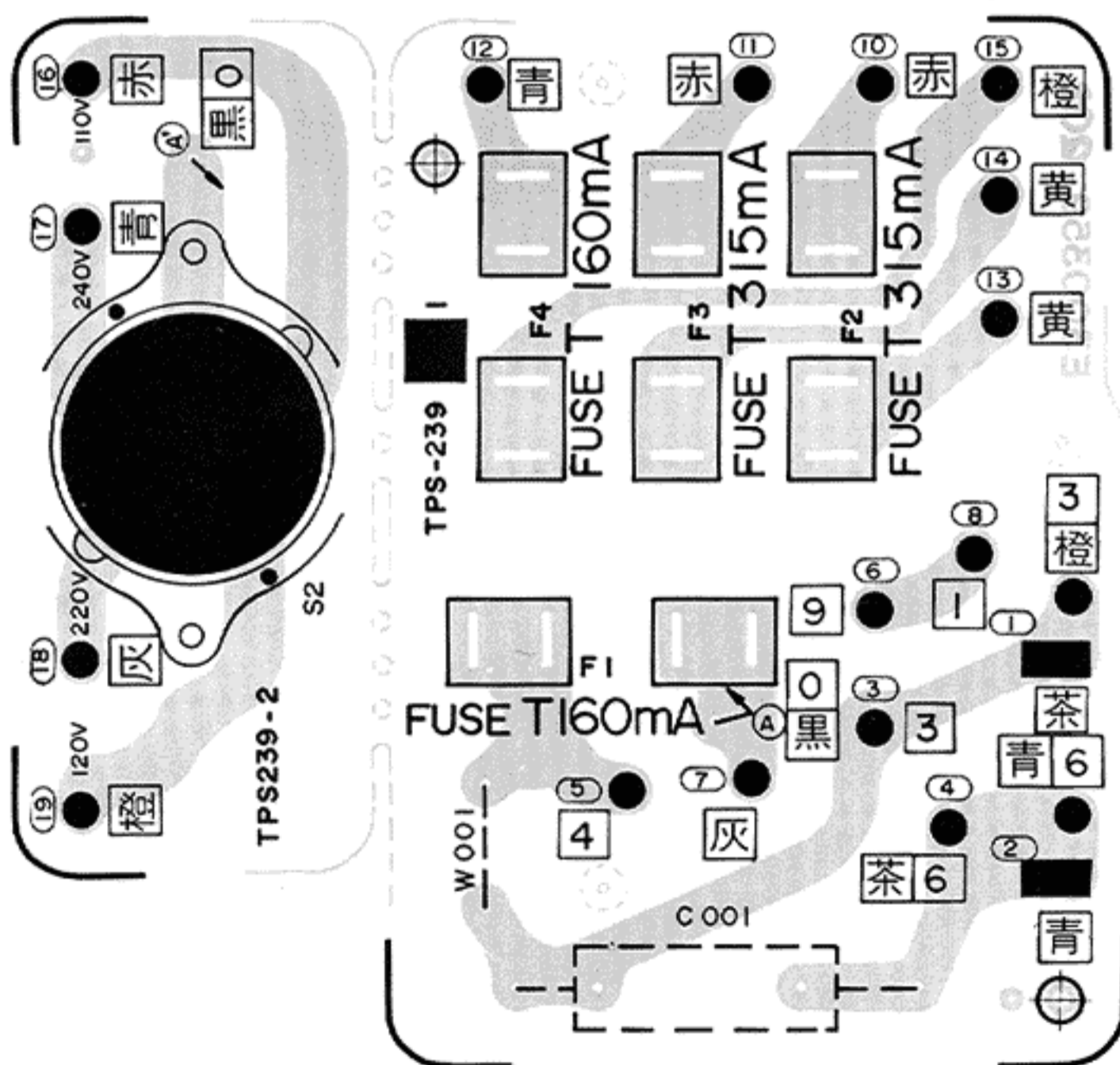
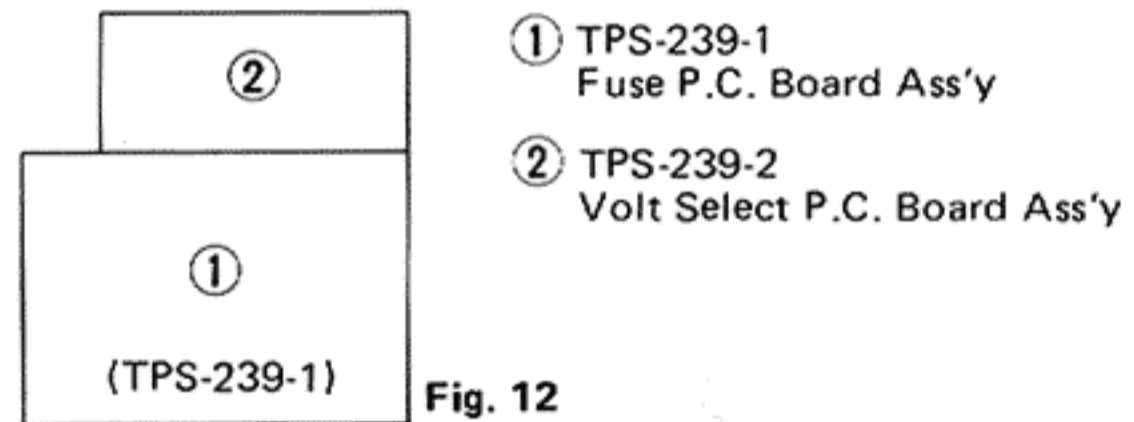


Fig. 11



Item No.	Part Number	Rating	Description
	E43727-001	Tab	
	E43727-002	Tab	
	E48965-002	Fuse Clip	
	E65508-001	Tab	
C1	See Back Page	V.S. Holder	
S2	See Back Page	O.F.T. Capa	
	See Back Page	Voltage Selec	

9-(3) TXX-242 Logic Function Switches and Fluodisplay P.C. Board Ass'y

This Printed Circuit Board varies according to area employed. See table below.

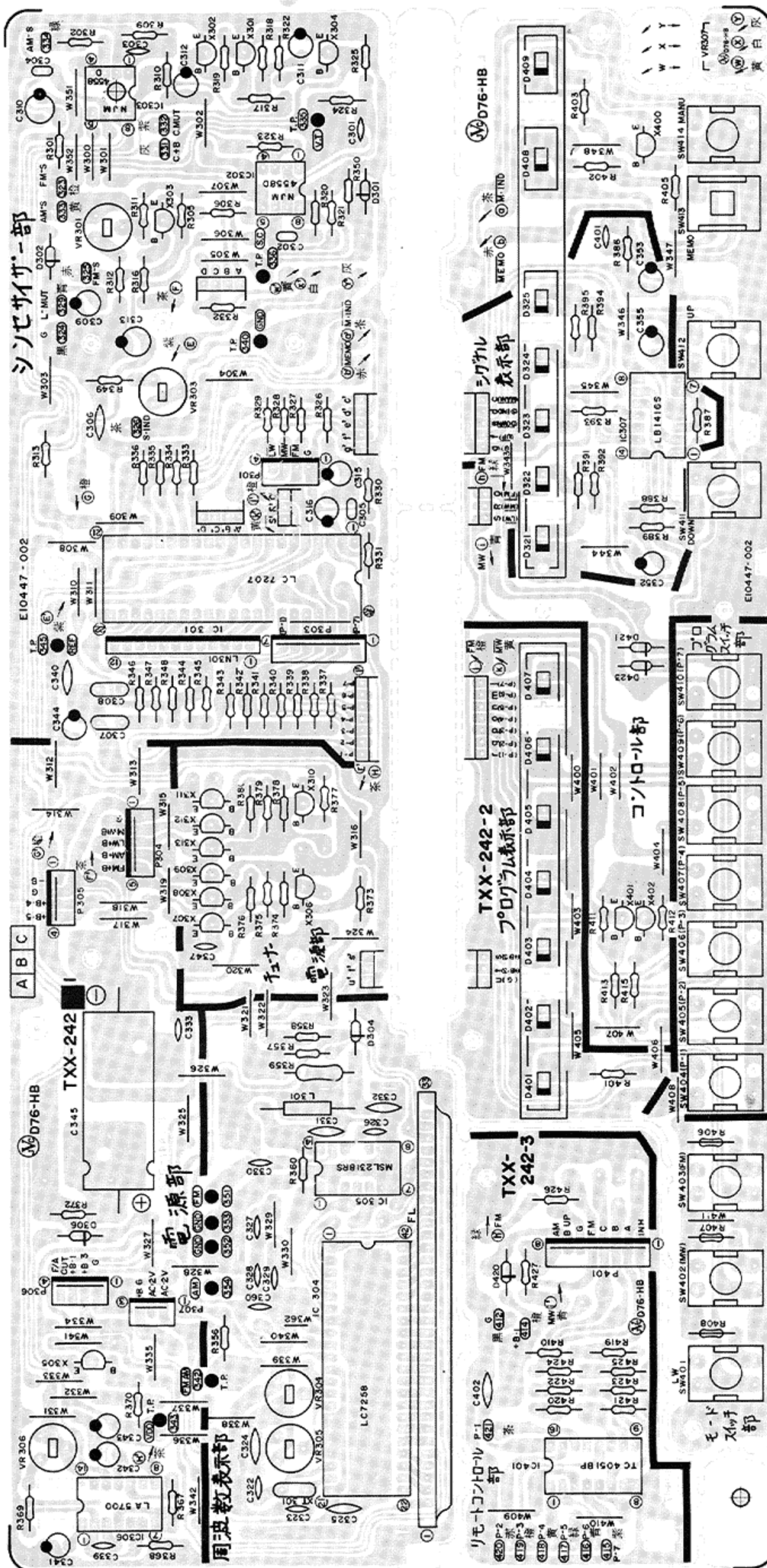


Fig. 13

Note (1):
The specific symbols (赤, 黒, 白, ... etc.) on a surface of above P.C. Board are actually unrelated to the repair service and are significant denotement in order to process the proper assembly of P.C. Board at the factory.

Note (2):
In should be indicated an area code according to the table below before placing an order.

Each Individual P.C. Board Location

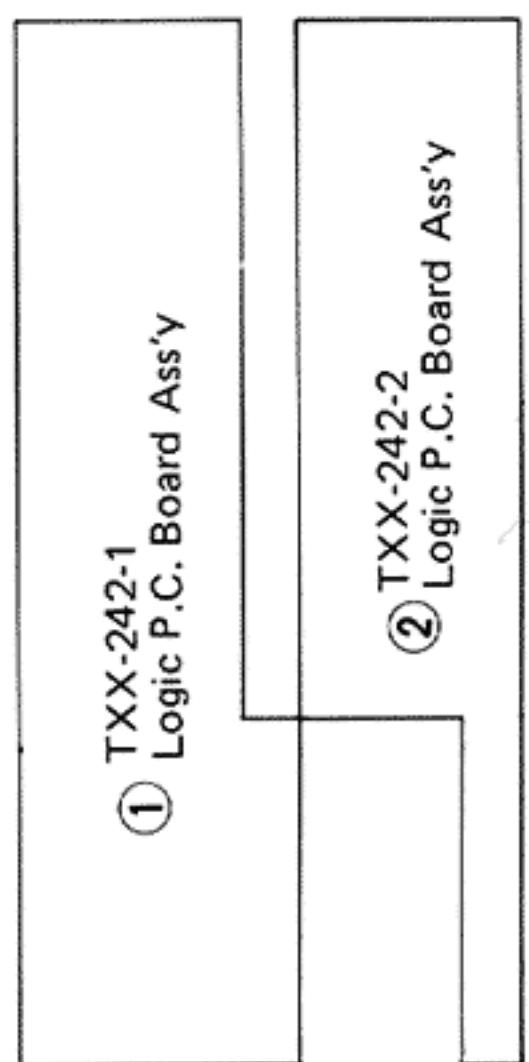


Fig. 14

Transistors

Item No.	Part Number	Rating		Description	
		Pc	fT		Maker
X301	2SC458(C,D)	0.2 W	230 MHz	Silicon	Hitachi
X302	2SC458(C,D)	"	"	"	"
X303	2SC458(C,D)	"	"	"	"
X304	2SC458(C,D)	"	"	"	"
X305	2SD655F	0.5 W	250 MHz	"	"
X306	2SC458(D)	0.2 W	230 MHz	"	"
X307	2SC458(D)	"	"	"	"
X308	2SD655(F)	0.5 W	250 MHz	"	"
X309	2SD655(F)	"	"	"	"
X310	2SC458(D)	0.2 W	230 MHz	"	"
X311	2SC458(D)	"	"	"	"
X312	2SC458(D)	"	"	"	"
X313	2SC458(D)	"	"	"	"
X400	2SA1029(C,D)	"	200 MHz	"	"
X402	2SC458(D)	"	230 MHz	"	"

Integrated Circuits

Item No.	Part Number	Rating		Description	
		Pc			Maker
IC301	LC7207	0.3 W		I.C.	Sanyo
IC302	NJM4558D	0.5 W		"	JRC
IC303	JNM4558D	"		"	"
IC304	LC7258	0.4 W		"	Sanyo
IC305	MSL2318RS	0.01 W		"	Oki
IC306	LA5700	1 W		"	Sanyo
IC307	LB1416S	1.3 W		"	"

Diodes

Item No.	Part Number	Rating		Description	
					Maker
D301	RD6, 8EB3	6.8 V	0.5 W	Z Diode	NEC
D302	1S2076-31			Silicon	Hitachi
D304	RD5, 1EB2	5.1 V	0.5 W	Z Diode	NEC
D306	1S2076-31			Silicon	Hitachi
D321	TLG205			LED	Toshiba
D322	TLG205			"	"
D323	TLG205			"	"
D324	TLG205			"	"
D325	TLG205			"	"
D401	TLG205			"	"
D402	TLG205			"	"
D403	TLG205			"	"
D404	TLG205			"	"
D405	TLG205			"	"
D406	TLG205			"	"
D407	TLG205			"	"
D408	TLG205			"	"
D409	TLG205			"	"
D420	1S2076-31			Silicon	Hitachi

Coils & Transformers

Item No.	Part Number	Rating	Description
L301	E03695-001	2.2 mH.	Shoke Coil

Capacitors

Item No.	Part Number	Rating		Description
C301	QCS31HJ-470Z	47 pF	50 V	Ceramic
C302	QFM31HK-472Z	4700 pF	"	Mylar
C303	QCS31HJ-100Z	10 pF	"	Ceramic
C304	QFM31HK-222Z	2200 pF	"	Mylar
C305	QFM31HK-682Z	6800 pF	"	"
C306	QFM31HK-104Z	0.1 μF	"	"
C307	QFM31HK-473Z	0.047 μF	"	"
C308	QFM31HK-473Z	"	"	"
C309	QEB51HM-224	0.22 μF	"	Low Peak Current Electrolytic
C310	QET61CR-476ZM	47 μF	16 V	Electrolytic
C311	QET61AR-476ZM	"	10 V	"
C312	QET61ER-106ZM	10 μF	25 V	"
C313	QET61HR-226ZM	22 μF	50 V	"
C315	QET61ER-106ZM	10 μF	25 V	"
C316	QEB51EM-225	2.2 μF	"	Low Peak Current Electrolytic
C322	QCS31HJ-270Z	27 pF	50 V	Ceramic
C323	QCS31HJ-270Z	"	"	"
C324	QCF31HP-223Z	0.022 μF	"	"
C325	QCF31HP-223Z	"	"	"
C326	QCF31HP-103Z	0.01 μF	"	"
C327	QCF31HP-103Z	"	"	"
C328	QCF31HP-103Z	"	"	"
C329	QCS31HJ-470Z	47 pF	"	"
C330	QCF21HP-102	1000 pF	"	"
C331	QCF31HP-223Z	0.022 μF	"	"
C332	QCF31HP-223Z	"	"	"
C333	QCF31HP-223Z	"	"	"
C339	QCS31HJ-470Z	47 pF	"	"
C340	QCF31HP-223Z	0.022 μF	"	"
C341	QET61HR-475Z	4.7 μF	"	Electrolytic
C342	QET61CR-226Z	22 μF	16 V	"
C343	QET61ER-106Z	10 μF	25 V	"
C344	QET61ER-106Z	"	"	"
C345	QET21AR-688H	6800 μF	10 V	"
C347	QCF31HJ-223Z	0.022 μF	50 V	Ceramic
C352	QET61HR-105ZM	1 μF	"	Electrolytic
C353	QET61ER-106ZM	10 μF	25 V	"
C355	QET61CR-106ZM	"	16 V	"
C360	QCF31HP-223Z	0.022 μF	50 V	Ceramic
C401	QCF31HP-103Z	0.01 μF	"	"
C402	QCF31HP-103Z	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R301	QRD141J-563SY	56 kΩ	1/4 W	Carbon
R302	QRD141J-563SY	"	"	"
R305	QRD141J-104SY	100 kΩ	"	"
R306	QRD141J-104SY	"	"	"
R309	QRD141J-334SY	330 kΩ	"	"
R310	QRD141J-104SY	100 kΩ	"	"
R311	QRD141J-224SY	220 kΩ	"	"
R312	QRD141J-334SY	330 kΩ	"	"
R313	QRD141J-103SY	10 kΩ	"	"
R316	QRD141J-103SY	"	"	"
R317	QRD141J-223SY	22 kΩ	"	"
R318	QRD141J-103SY	10 kΩ	"	"
R319	QRD141J-103SY	"	"	"
R320	QRD141J-472SY	4.7 kΩ	"	"
R321	QRD141J-155SY	1.5 MΩ	"	"
R322	QRD141J-103SY	10 kΩ	"	"
R323	QRD141J-104SY	100 kΩ	"	"
R324	QRV144F-2003	200 k	"	CMF
R325	QRV144F-1003	100 k	"	"
R326	QRD141J-820SY	82 Ω	"	Carbon

Resistors

Item No.	Part Number	Rating		Description
R327	QRD141J-474SY	470 kΩ	"	"
R328	QRD141J-474SY	"	"	"
R329	QRD141J-474SY	"	"	"
R330	QRD141J-184SY	180 kΩ	"	"
R331	QRD141J-364SY	360 kΩ	"	"
R332	QRD141J-682SY	6.8 kΩ	"	"
R333	QRD141J-474SY	470 kΩ	"	"
R334	QRD141J-474SY	"	"	"
R335	QRD141J-474SY	"	"	"
R336	QRD141J-474SY	"	"	"
R337	QRD141J-184SY	180 kΩ	"	"
R338	QRD141J-184SY	"	"	"
R339	QRD141J-184SY	"	"	"
R340	QRD141J-184SY	"	"	"
R341	QRD141J-184SY	"	"	"
R342	QRD141J-184SY	"	"	"
R343	QRD141J-184SY	"	"	"
R344	QRV144F-1203	120 k	"	CMF
R345	QRD141J-562SY	5.6 kΩ	"	Carbon
R346	QRD141J-225SY	2.2 MΩ	"	"
R347	QRD141J-155SY	1.5 MΩ	"	"
R348	QRD141J-225SY	2.2 MΩ	"	"
R349	QRD141J-561SY	560 Ω	"	"
R350	QRD141J-103SY	10 kΩ	"	"
R354	QRD141J-103SY	"	"	"
R355	QRD141J-182SY	1.8 kΩ	"	"
R356	QRD141J-103SY	10 kΩ	"	"
R357	QRD141J-822SY	8.2 kΩ	"	"
R358	QRD141J-822SY	"	"	"
R359	QRG017J-121S	120 Ω	1 W	Oxide Metal Film [△]
R360	QRD141J-223SY	22 kΩ	1/4 W	Carbon
R367	QRD141J-223SY	"	"	"
R368	QRD141J-472SY	4.7 kΩ	"	"
R369	QRD141J-562SY	5.6 kΩ	"	"
R370	QRD141J-222SY	2.2 kΩ	"	"
R372	QRD141J-472SY	4.7 kΩ	"	"
R373	QRD141J-103SY	10 kΩ	"	"
R374	QRD141J-223SY	22 kΩ	"	"
R375	QRD141J-123SY	12 kΩ	"	"
R376	QRD141J-123SY	"	"	"
R377	QRD141J-103SY	10 kΩ	"	"
R378	QRD141J-394SY	390 kΩ	"	"
R379	QRD141J-123SY	12 kΩ	"	"
R380	QRD141J-123SY	"	"	"
R386	QRD141J-472SY	4.7 kΩ	"	"
R387	QRD141J-153SY	15 kΩ	"	"
R388	QRD141J-104SY	100 kΩ	"	"
R389	QRD141J-153SY	15 kΩ	"	"
R391	QRD141J-470SY	47 Ω	"	"
R392	QRD141J-470SY	"	"	"
R393	QRD141J-470SY	"	"	"
R394	QRD141J-470SY	"	"	"
R395	QRD141J-470SY	"	"	"
R401	QRD141J-561SY	560 Ω	"	"
R402	QRD141J-561SY	"	"	"
R403	QRD141J-561SY	"	"	"
R405	QRD141J-103SY	10 kΩ	"	"
R406	QRD141J-152SY	1.5 kΩ	"	"
R407	QRD141J-152SY	"	"	"
R410	QRD141J-103SY	10 kΩ	"	"
R411	QRD141J-103SY	"	"	"
R412	QRD141J-103SY	"	"	"
R413	QRD141J-103SY	"	"	"
R415	QRD141J-103SY	"	"	"
R419	QRD141J-222SY	2.2 kΩ	"	"

Resistors

Item No.	Part Number	Rating		Description
R420	QRD141J-103SY	10 kΩ	"	"
R421	QRD141J-223SY	22 kΩ	"	"
R422	QRD141J-103SY	10 kΩ	"	"
R423	QRD141J-223SY	22 kΩ	"	"
R424	QRD141J-103SY	10 kΩ	"	"
R425	QRD141J-223SY	22 kΩ	"	"
R426	QRD141J-102SY	1 kΩ	"	"
R427	QRD141J-102SY	"	"	"

Others

Item No.	Part Number	Rating	Description
LN301	ERGS10B-103		10Bit Ladder Network
SW401	ESP0001-003		Push Switch
SW402	ESP0001-003		"
SW403	ESP0001-003		"
SW404	ESP0001-003		"
SW405	ESP0001-003		"
SW406	ESP0001-003		"
SW407	ESP0001-003		"
SW408	ESP0001-003		"
SW409	ESP0001-003		"
SW410	ESP0001-003		"
SW411	ESP0001-003		"
SW412	ESP0001-003		"
SW413	QSP0410-003		"
SW414	ESP0001-003		"
VR301	QVP4A0B-104	100 k 0.15 W (B)	Variable
VR303	QVP4A0B-471	470 Ω " "	Variable
VR304	QVP4A0B-103	10 k " "	"
VR305	QVP4A0B-103	10 k " "	"
VR306	QVP4A0B-222	2.2 k " "	"
VR307	QVZ1635-003	10 k 0.1 W (B)	"
XT301	E03737-006	Fundamental 4.0 MHz	X. Tal
	ELU0001-002	F.L.	F.L. Tube
	E300490-001	LED Holder	
	E300491-001	"	
	E300560-001	Shield Cover	
	E300857-001	Fastener	
	E437272-002	Tab	
	E66672-001	L-Bracket	
	QMV5005-004	4P Plug Ass'y	
TPS	QMV5005-004	"	
VOL	E66672-001	L-Bracket	

9-(4) TXX-248 FM/AM Tuner and Indicator P.C. Board Ass'y

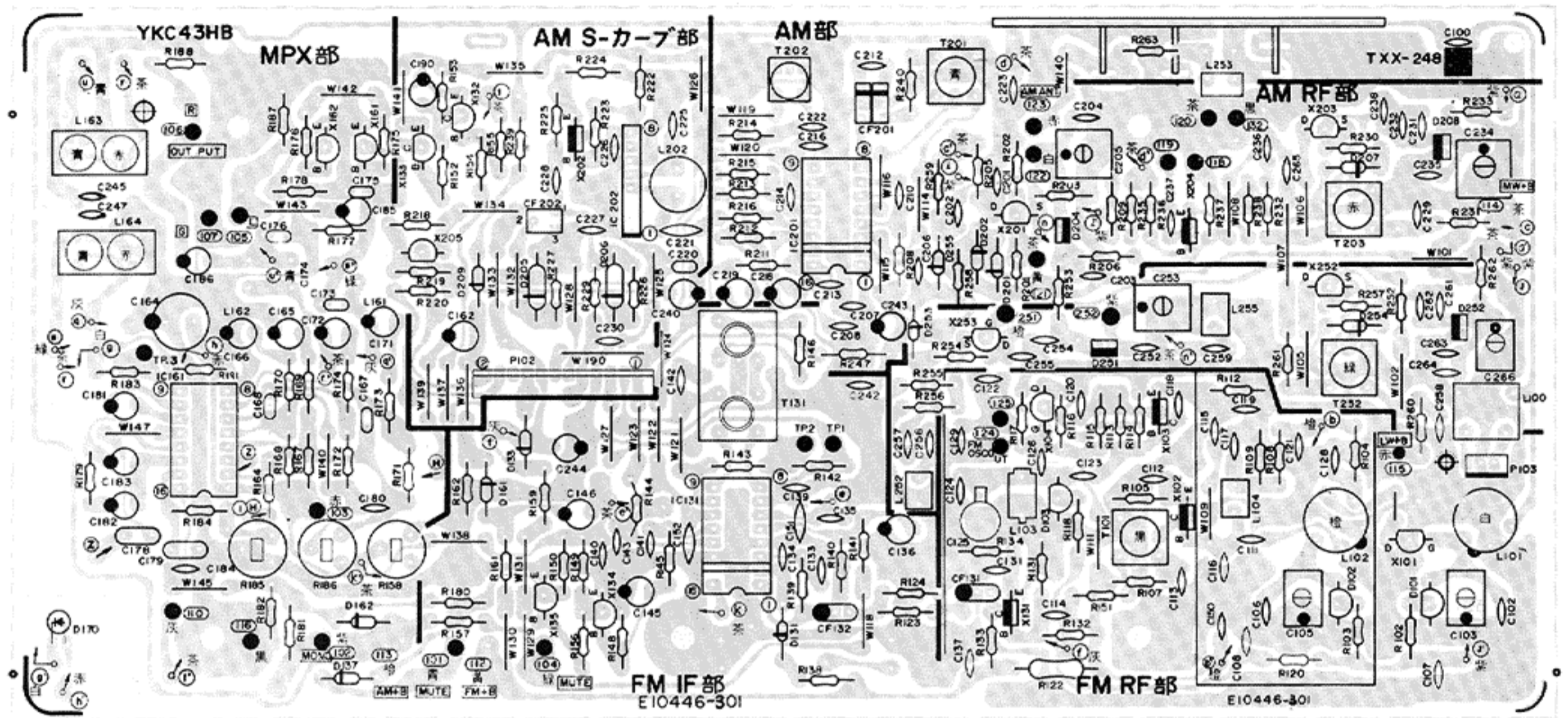


Fig. 15

Transistors

Item No.	Part Number	Rating		Description		
		Pc	fT			Maker
X101	2SK49F	0.072W	(200MHz)	FET		NEC
X102	2SC535(B)	0.1 W	940 MHz	Silicon		Hitachi
X103	2SC1342(C)	"	"	"		Sanyo
X104	2SK49F	0.072W	(200MHz)	FET		NEC
X131	2SC535(B,C)	0.1 W	940 MHz	Silicon		Hitachi
X132	2SC458(C,D)	0.2 W	230 MHz	"		"
X133	2SA1029(C,D)	"	200 MHz	"		"
X134	2SC458(C,D)	"	230 MHz	"		"
X135	2SC458(C,D)	"	"	"		"
X161	2SD655(E,F)	0.5 W	250 MHz	"		"
X162	2SD655(E,F)	"	"	"		"
X201	2SK105(F,H)	0.25 W	(10 MHz)	FET		NEC
X202	2SC461(B,C)	0.2 W	230 MHz	Silicon		Hitachi
X203	2SK105(F,H)	"	"	"		"
X204	2SC461(B,D)	0.2 W	230 MHz	Silicon		Hitachi
X205	2SK68(K)	0.25 W	(10 MHz)	FET		NEC

Integrated Circuits

Item No.	Part Number	Rating		Description	
		Pc			Maker
IC131	HA11225	0.59 W		I.C.	Hitachi
IC161	UPC1161C	0.4 W		"	NEC
IC201	HA1197	0.45 W		"	Hitachi
IC202	HA1211	0.2 W		"	"

Diodes

Item No.	Part Number	Rating	Description	
				Maker
D101	1SV55		V.Cap.	Hitachi
D102	1SV55		Diode	"
D103	1SV55		"	"
D131	1S2076-31		Silicon	"
D133	1S2076-31		"	"
D137	1S2076-31		"	"
D161	1S2076-31		"	"
D162	1S2076-31		"	"
D170	TLR206	0.056 W	L.E.D.	Toshiba

Diodes

Item No.	Part Number	Rating	Description	
				Maker
D201	1S2076-31		Silicon	Hitachi
D202	1S2076-31		"	"
D205	1S188FM		Germa-nium	Sanyo
D206	1S188FM		"	"
D207	1S2076-31	0.1 W (KV1226)	Silicon	Hitachi
D208	PT096		V.Cap.	Toko
D209	1S2076-31		Diode	Hitachi

Coils & Transformers

Item No.	Part Number	Rating	Description
L100	E03177-005		BALUN
L101	E03477-56		RF Coil
L102	E03477-039		"
L103	E03806-002		"
L104	E03522-1R5KY		Choke Coil
L161	Y00118-103		Ferrite Inductor
L162	Y00118-103		"
L163	E03427-020		MPX LPF Coil
L164	E03427-020		"
L202	Y00118-102		Ferrite Inductor
T101	E03078-48		FM IFT
T131	E03793-001		FM DET
T201	E03613-017		AM IFT
T202	E03062-39		"
T203	E03079-40		AM OSC Coil

Note: L163, 164 : For Europe ONLY.

Capacitors

Item No.	Part Number	Rating		Description
C100	QCS21HJ-161	160 pF	50 V	Ceramic
C102	QCS31HJ-100Z	10 pF	"	"
C103	QAT2001-004M	"	"	Trimmer
C105	QAT2001-004M	"	"	"
C106	QCS31HJ-100Z	"	"	Ceramic
C107	QCF31HP-103Z	0.01 μ F	"	"
C108	QCF31HP-103Z	"	"	"
C111	QCS31HJ-3R0Z	3 pF	"	"
C112	QCF31HP-103Z	0.01 μ F	"	"
C113	QCF31HP-103Z	"	"	"
C114	QCF31HP-223Z	0.022 μ F	"	"
C115	QCT25CH-3R0Z	3 pF	"	"
C116	QCS21HJ-180	18 pF	50 V	"
C117	QCS31HJ-151Z	160 pF	"	"
C118	QCT25UJ-220Z	22 pF	"	"
C119	QCT25UJ-150Z	15 pF	"	"
C120	QCF31HP-103Z	0.01 μ F	50 V	"
C121	QCF31HP-103Z	"	"	"
C122	QCS31HJ-101Z	100 pF	"	"
C123	QCT26UJ-7R0	7 pF	"	"
C124	QCT25SH-120Z	12 pF	"	"
C125	QAT3001-005	10 pF	"	Trimmer
C126	QCT26CH-2R0	2 pF	"	Ceramic
C128	QCF31HP-103Z	0.01 μ F	50 V	"
C129	QCS21HJ-120	12 pF	"	"
C131	QCF31HP-223Z	0.022 μ F	"	"
C133	QCF31HP-223Z	"	"	"
C134	QCF31HP-223Z	"	"	"
C135	QCS31HJ-330Z	33 pF	"	"
C136	QET61HR-475Z	4.7 μ F	"	Electrolytic
C137	QCF31HP-223Z	0.022 μ F	"	Ceramic
C139	QCF31HP-223Z	"	"	"
C140	QCC31EM-473Z	0.047 μ F	25 V	"
C141	QCF31HP-223Z	0.022 μ F	50 V	Ceramic
C142	QCF31HP-223Z	"	"	"
C143	QCF31HP-223Z	"	"	"
C145	QET61HR-225Z	2.2 μ F	"	Electrolytic
C146	QET51ER-106	10 μ F	25 V	"
C150	QCC21EM-473	0.047 μ F	"	Ceramic
C151	QCC21EM-473	"	"	"
C152	QCC21EM-473	"	"	"
C162	QET61HR-475Z	4.7 μ F	50 V	Electrolytic
C164	QET51CR-108M	1000 μ F	16 V	"
C165	QET51ER-106	10 μ F	25 V	"
C166	QET61ER-106Z	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
C167	QFM31HK-102Z	1000 pF	50 V	Mylar
C167	QFM31HK-222Z	2200 pF	"	"
C168	QFM31HK-102Z	1000 pF	"	"
C168	QFM31HK-222Z	2200 pF	"	"
C171	QET51HR-225	2.2 μ F	"	Electrolytic
C171	QET51HR-474	0.47 μ F	"	"
C172	QET51HR-474Z	"	"	"
C172	QET61HR-225Z	2.2 μ F	"	"
C173	QFM31HJ-182Z	1800 pF	"	Mylar
C174	QFM31HJ-182Z	"	"	"
C175	QFM31HK-222Z	2200 pF	"	"
C175	QFM31HK-332Z	3300 pF	"	"
C176	QFM31HK-222Z	2200 pF	"	"
C176	QFM31HK-332Z	3300 pF	"	"
C178	QFM31HK-473Z	0.047 μ F	"	"
C179	QFP31HJ-471	470 pF	"	P.P. Cap
C180	QCS31HJ-101Z	100 pF	"	Ceramic
C181	QEB51HM-224	0.22 μ F	"	Low Leak Current
C182	QEB51EM-335	3.3 μ F	25 V	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C183	QEB51HM-105	1 μ F	50 V	"
C184	QCF31HP-223Z	0.022 μ F	"	Ceramic
C185	QET61HR-475Z	4.7 μ F	"	Electrolytic
C186	QET61HR-475Z	"	"	"
C190	QET51HR-105M	1 μ F	"	"
C201	QCF31HP-223Z	0.022 μ F	"	Ceramic
C202	QCF31HP-223Z	"	"	"
C203	QCF31HP-223Z	"	"	"
C204	QCS31HJ-4R0Z	4 pF	"	"
C205	QAT2001-005	15 pF	100 V	Trimmer
C206	QCF31HP-223Z	0.022 μ F	50 V	Ceramic
C207	QCF31HP-223Z	"	"	"
C208	QCF31HP-223Z	"	"	"
C210	QCF31HP-223Z	"	"	"
C212	QCS31HJ-560Z	56 pF	"	"
C213	QCF31HP-223Z	0.022 μ F	"	"
C214	QCF31HP-223Z	"	"	"
C216	QCF31HP-223Z	"	"	"
C218	QET51HR-105	1 μ F	"	Electrolytic
C219	QET61ER-106Z	10 μ F	25 V	"
C220	QFM31HK-332Z	3300 pF	50 V	Mylar
C221	QCS21HJ-221	220 pF	"	Ceramic
C222	QFM31HK-102Z	1000 pF	"	Mylar
C223	QCF31HP-223Z	0.022 μ F	"	Ceramic
C225	QCF31HP-223Z	"	"	"
C226	QCC31EM-473Z	0.047 μ F	25 V	"
C227	QCC21EM-473	"	"	"
C228	QCF31HP-223Z	0.022 μ F	50 V	Ceramic
C229	QCF31HP-223Z	"	"	"
C230	QCC31EM-473Z	0.047 μ F	25 V	"
C231	QCT26CH-271A	270 pF	"	"
C232	QCT26CH-181A	180 pF	"	"
C234	QAT2001-005	15 pF	100 V	Trimmer
C235	QCT25RH-180Z	18 pF	"	Ceramic
C236	QCF31HP-223Z	0.022 μ F	50 V	"
C237	QCF31HP-223Z	"	"	"
C238	QCT26CH-150	15 pF	"	"
C240	QFM31HK-563	0.056 μ F	"	Mylar
C242	QCF31HP-223Z	0.022 μ F	"	Ceramic
C243	QET51CR-476	47 μ F	16 V	Electrolytic
C244	QET61HR-105ZM	1 μ F	50 V	"

Resistors

Item No.	Part Number	Rating		Description
R102	QRD141J-473SY	47 k Ω	1/4 W	Carbon
R103	QRD141J-473SY	"	"	"
R104	QRD141J-331SY	330 Ω	"	"
R105	QRD141J-102SY	1 k Ω	"	"
R107	QRD141J-331SY	330 Ω	"	"
R108	QRD141J-223SY	22 k Ω	"	"
R109	QRD141J-392SY	3.9 k Ω	"	"
R112	QRD141J-222SY	2.2 k Ω	"	"
R113	QRD141J-103SY	10 k Ω	"	"
R114	QRD141J-682SY	6.8 k Ω	"	"
R115	QRD141J-561SY	560 Ω	"	"
R116	QRD141J-102SY	1 k Ω	"	"
R116	QRD141J-331SY	330 Ω	"	"
R117	QRD141J-105SY	1 M Ω	"	"
R118	QRD141J-473SY	47 k Ω	"	"

Resistors

Item No.	Part Number	Rating		Description
R120	QRD141J-103SY	10 kΩ	1/4 W	Carbon
R122	QRG017J-121S	120 Ω	1 W	Oxide Metal Film Δ
R123	QRD141J-101SY	100 Ω	1/4 W	Carbon
R124	QRD141J-561SY	560 Ω	"	"
R131	QRD141J-102SY	1 kΩ	"	"
R132	QRD141J-472SY	4.7 kΩ	"	"
R133	QRD141J-221SY	220 Ω	"	"
R134	QRD141J-471SY	470 Ω	"	"
R138	QRD141J-103SY	10 kΩ	"	"
R139	QRD141J-391SY	390 Ω	"	"
R140	QRD141J-473SY	47 kΩ	"	"
R141	QRD141J-123SY	12 kΩ	"	"
R142	QRD141J-271SY	270 Ω	"	"
R143	QRD141J-123SY	12 kΩ	"	"
R144	QRD141J-912SY	9.1 kΩ	"	"
R145	QRD141J-563SY	56 kΩ	"	"
R146	QRD141J-332SY	3.3 kΩ	"	"
R148	QRD141J-563SY	56 kΩ	"	"
R149	QRD141J-103SY	10 kΩ	"	"
R150	QRD141J-472SY	4.7 kΩ	"	"
R151	QRD141J-331SY	330 Ω	"	"
R152	QRD141J-683SY	68 kΩ	"	"
R153	QRD141J-223SY	22 kΩ	"	"
R154	QRD141J-563SY	56 kΩ	"	"
R155	QRD141J-563SY	"	"	"
R156	QRD141J-103SY	10 kΩ	"	"
R157	QRD141J-223SY	22 kΩ	"	"
R158	QVP4A0B-473	47 kΩ	0.15 W	Variable
R159	QRD141J-223SY	22 kΩ	1/4 W	Carbon
R161	QRD141J-393SY	39 kΩ	"	"
R162	QRD141J-153SY	15 kΩ	"	"
R164	QRD141J-273SY	27 kΩ	"	"
R167	QRD141J-223SY	22 kΩ	"	"
R168	QRD141J-223SY	"	"	"
R169	QRD141J-103SY	10 kΩ	"	"
R170	QRD141J-103SY	"	"	"
R171	QRD141J-273SY	27 kΩ	"	"
R171	QRD141J-563SY	56 kΩ	"	"
R172	QRD141J-273SY	27 kΩ	"	"
R172	QRD141J-563SY	56 kΩ	"	"
R173	QRD141J-103SY	10 kΩ	"	"
R173	QRD141J-332SY	3.3 kΩ	"	"
R174	QRD141J-103SY	10 kΩ	"	"
R174	QRD141J-332SY	3.3 kΩ	"	"
R175	QRD141J-223SY	22 kΩ	"	"
R176	QRD141J-223SY	"	"	"
R177	QRD141J-103SY	10 kΩ	"	"
R177	QRD141J-682SY	6.8 kΩ	"	"
R178	QRD141J-103SY	10 kΩ	"	"
R178	QRD141J-682SY	6.8 kΩ	"	"
R179	QRD141J-102SY	1 kΩ	"	"
R180	QRD141J-223SY	22 kΩ	"	"
R181	QRD141J-222SY	2.2 kΩ	"	"
R182	QRD141J-153SY	15 kΩ	"	"
R183	QRD141J-102SY	1 kΩ	"	"
R184	QRD141J-163SY	16 kΩ	"	"
R185	QVP4A0B-472	4.7 kΩ	0.15 W	Variable
R186	QVP4A0B-474	470 kΩ	"	"
R187	QRD141J-104SY	100 kΩ	1/4 W	Carbon
R188	QRD141J-104SY	"	"	"
R191	QRD141J-222SY	2.2 kΩ	"	"
R201	QRD141J-102SY	1 kΩ	"	"
R202	QRD141J-224SY	220 kΩ	"	"
R203	QRD141J-391SY	390 Ω	"	"
R205	QRD141J-102SY	1 kΩ	"	"
R206	QRD141J-222SY	2.2 kΩ	"	"
R206	QRD141J-473SY	47 kΩ	"	"
R208	QRD141J-152SY	1.5 kΩ	"	"
R208	QRD141J-332SY	3.3 kΩ	"	"
R209	QRD141J-561SY	560 Ω	"	"

Resistors

Item No.	Part Number	Rating		Description
R212	QRD141J-103SY	10 kΩ	1/4 W	Carbon
R212	QRD141J-223SY	22 kΩ	"	"
R213	QRD141J-103SY	10 kΩ	"	"
R213	QRD141J-223SY	22 kΩ	"	"
R214	QRD141J-331SY	330 Ω	"	"
R215	QRD141J-103SY	10 kΩ	"	"
R215	QRD141J-392SY	3.9 kΩ	"	"
R216	QRD141J-121SY	120 Ω	"	"
R218	QRD141J-103SY	10 kΩ	"	"
R219	QRD141J-125SY	1.2 MΩ	"	"
R220	QRD141J-563SY	56 kΩ	"	"
R222	QRD141J-331SY	330 Ω	"	"
R223	QRD141J-332SY	3.3 kΩ	"	"
R224	QRD141J-222SY	2.2 kΩ	"	"
R225	QRD141J-681SY	680 Ω	"	"
R226	QRD141J-103SY	10 kΩ	"	"
R227	QRD141J-103SY	"	"	"
R229	QRD141J-332SY	3.3 kΩ	"	"
R230	QRD141J-272SY	2.7 kΩ	"	"
R231	QRD141J-102SY	1 kΩ	"	"
R232	QRD141J-392SY	3.9 kΩ	"	"
R233	QRD141J-473SY	47 kΩ	"	"
R235	QRD141J-472SY	4.7 kΩ	"	"
R236	QRD141J-394SY	390 kΩ	"	"
R237	QRD141J-683SY	68 kΩ	"	"
R238	QRD141J-151SY	150 Ω	"	"
R239	QRD141J-393SY	39 kΩ	"	"
R240	QRD141J-221SY	220 Ω	"	"
R247	QRD129J-151	150 Ω	1/2 W	" Δ

Others

Item No.	Part Number	Rating	Description
CF131	E03357-009		FM IF Filter
CF132	E03357-009		"
CF201	E03613-019		AM IF Filter
CF202	E03613-018		AM Discriminator
	E03572-016		ANT Terminal
L100	E031775-005		Balance
L163	E03427-020		MPX LPF Coil
L164	E03427-020		"
	E03572-18W	Terminal-Ass'y	ANT Terminal (300 Ω)
	E300810-001	Shield Plate	

9-(5) TPS-263 Power Supply P.C. Board Ass'y

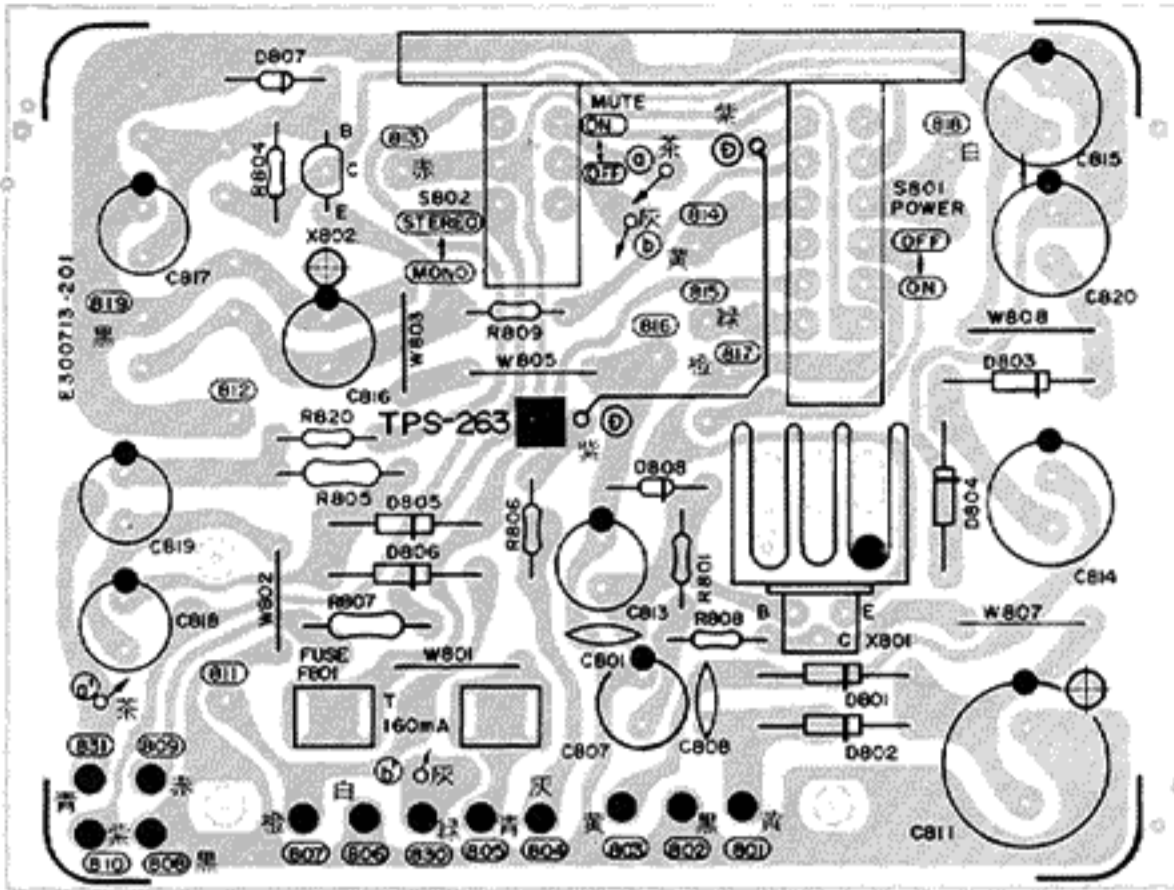


Fig. 16

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X801	2SD330V(E)	20 W	8 MHz	Silicon	Sanyo
X802	2SD438(F)	0.9 W	100 MHz	"	"

Diodes

Item No.	Part Number	Rating		Description	Maker
		V	W		
D801	ERB12-02RKL1			Silicon	Fuji
D802	ERB12-02RKL1			"	"
D803	ERB12-02RKL1			"	"
D804	ERB12-02RKL1			"	"
D805	ERB12-02RKL1			"	"
D806	ERB12-02RKL1	30.0 V	0.5 W	Z Diode	NEC
D807	RD30EB3	13.0 V	"	"	"
D808	RD13EB3			"	"

Capacitors

Item No.	Part Number	Rating		Description
		μF	V	
C801	QCF21HP-103	0.01	50	Ceramic
C807	QET51ER-107	100	25	Electrolytic
C808	QCF21HP-103	0.01	50	Ceramic
C811	QET51VR-228H	2200	35	Electrolytic
C813	QET51CR-227	220	16	"
C814	QET51HR-227H	"	50	"
C815	QET51JR-227H	"	63	"
C816	QET51VR-107H	100	35	"
C817	QET51VR-107H	"	"	"
C818	QET50JR-477	470	6.3	"
C819	QET50JR-477	"	"	"
C820	QET51JR-227H	220	63	"

Resistors

Item No.	Part Number	Rating		Description
		Ω	W	
R801	QRD148J-561S	560	1/4	Carbon
R804	QRD148J-272S	2.7 k	"	"
R804	QRD148J-332S	3.3 k	"	"
R805	QRD129J-150	15	1/2	"
R806	QRD129J-102S	1 k	"	"
R807	QRZ0052-100	10	"	"
R808	QRD148J-102S	1 k	1/4	"
R809	QRD129J-100S	10	1/2	"
R809	QRG017J-100S	"	1	Oxide Metal Film
R820	QRD148J-101S	100	1/4	Carbon

Others

Item No.	Part Number	Rating	Description
S801	QSP0239-052		Tuner SW, Mode/Muting SW
	E48965-002		Fuse Clip

9-(6) TAC-508 Output P.C. Board Ass'y

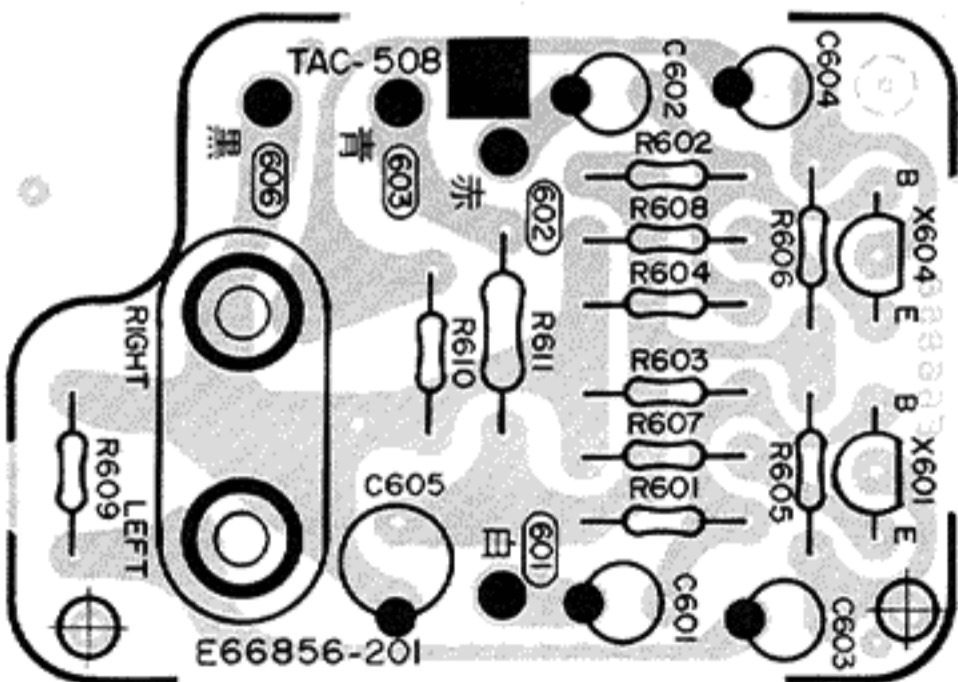


Fig. 17

Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	fT		
X401	2SC1775AV(E)	0.2 W	200 MHz	Silicon	Hitachi
X402	2SC1775AV(E)	"	"	"	"
X601	2SC1775AV(E)	"	"	"	"
X602	2SC1775AV(E)	"	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
		μF	V	
C401	QEB41HM-224	0.22	50	Low Leak Current Electrolytic
C402	QEB41HM-224	"	"	"
C403	QEW41HA-474	0.47	"	Electrolytic
C404	QEW41HA-474	"	"	"

Capacitors

Item No.	Part Number	Rating		Description
		μF	V	
C405	QEW41CA-476	47	16	"
C601	QEB41HM-224	0.22	50	Low Leak Current Electrolytic
C602	QEB41HM-224	"	"	"
C603	QEW41HA-474	0.47	"	Electrolytic
C604	QEW41HA-474	"	"	"
C605	QEW41CA-476	47	16	"

Resistors

Item No.	Part Number	Rating		Description
		Ω	W	
R601	QRD148J-334S	330 k	1/4	Carbon
R602	QRD148J-334S	"	"	"
R603	QRD148J-104S	100 k	"	"
R604	QRD148J-104S	"	"	"
R605	QRD148J-122S	1.2 k	"	"
R606	QRD148J-122S	"	"	"
R607	QRD148J-821S	820	"	"
R608	QRD148J-821S	"	"	"
R609	QRD148J-104S	100 k	"	"
R610	QRD148J-104S	"	"	"
R611	QRD129J-331	330	1/2	"

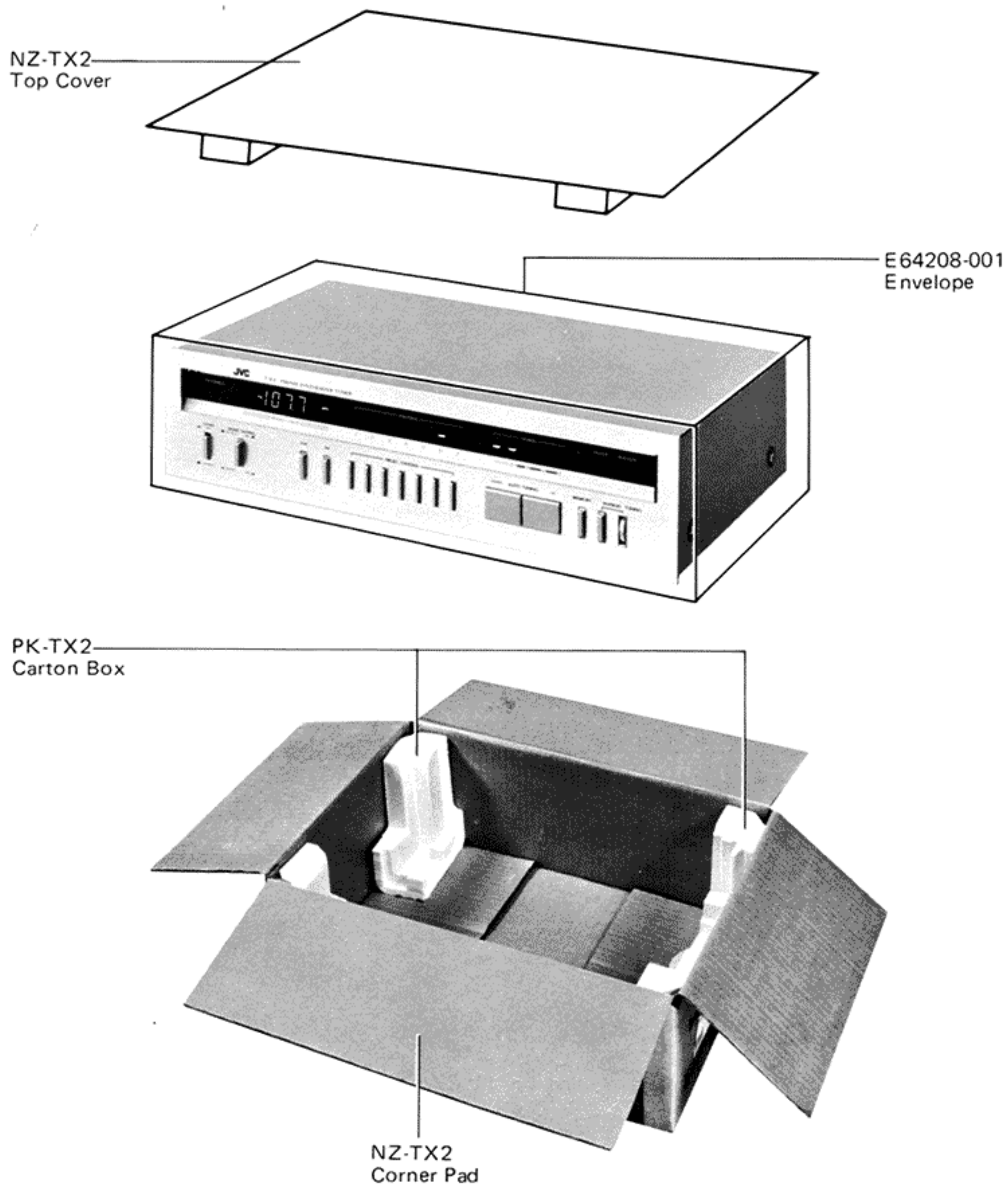
Others

Item No.	Part Number	Rating	Description
	E03591-26D		Pin Jack Ass'y

11. Accessories List

Item No.	Part Number	Description	Q'ty
1	See next page	Power Cord	1
2	See next page	Caution Sheet	1
3	E03479-001B	Signal Cord	1
4	E03614-004	FM Antenna	1
5	See next page	Siemens Plug	1
6	See next page	Warranty Card	1
7	E030580-855A	Instruction Book	1

12. Packing Materials and Part Numbers



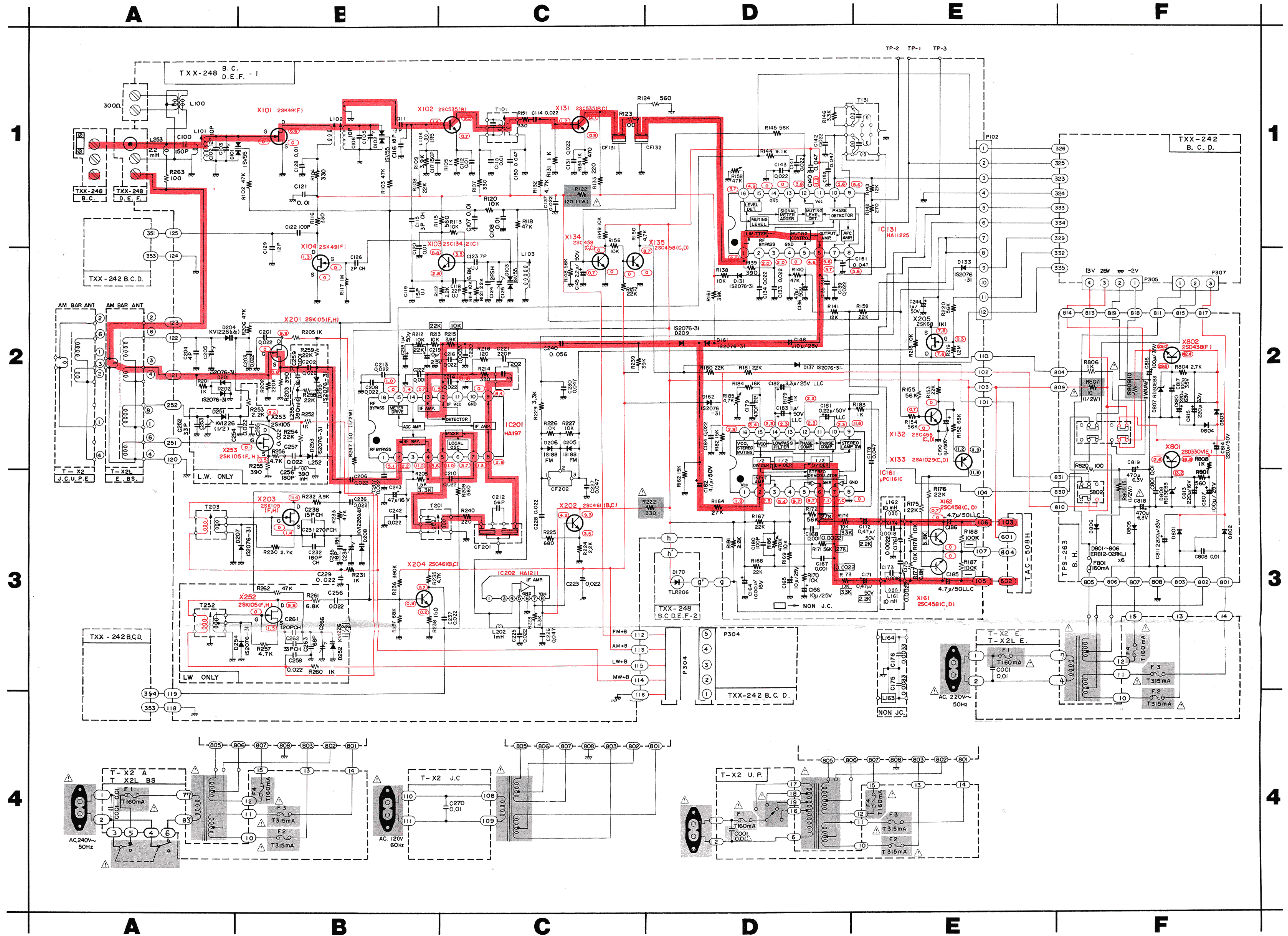
13. Parts List with Specified Numbers for Designated Areas

Page	Item No.	Description	U.S.A. and Canada	Other Countries	Europe	Australia
14	9-(4)	Tuner C.B. Ass'y	TXX-248B	TXX-248C	TXX-248D	TXX-248F
10	9-(2)	Primary C. Cap	QCZ90014-103	QFZ9007-103	QFZ9007-103	QFZ9007-103
5	5-(1)	Power Trans	E03042-31B	E03042-31D	E03042-31C	E03042-31E
11	9-(3)	Logic C.B. Ass'y	TXX-242B	TXX-242F	TXX-242C	TXX-242F
17	9-(6)	Output C.B. Ass'y	—	—	TAC-508H	—
5	5-(1)	Fuse C.B. Ass'y	—	TPS239D	TPS-239C	TPS-239C
5	5-(1)	Pin Jack Ass'y	E03591-26D	E03591-26D	—	E03591-26D
5	5-(1)	Rear Panel	E23583-001	E23583-002	E23583-001	E23583-001
10	9-(2)	Volt Selector	—	QSR0074-001	—	—
		Fuse F801	—	QMF51A2-R16L (160 mA)	QMF51A2-R16L (160 mA)	QMF51A2-R16L (160 mA)
		F1	—	QMF51A2-R16L	QMF51A2-R16L	QMF51A2-R16L
		F2	—	QMF51A2-R315L (315 mA)	QMF51A2-R315L (315 mA)	QMF51A2-R315L (315 mA)
		F3	—	QMF51A2-R315L	QMF51A2-R315L	QMF51A2-R315L
		F4	—	QMF51A2-R16L	QMF51A2-R16L	QMF51A2-R16L
5	5-(3)	Rating Plate	E65531-004	E66555-003	E66555-004	E66555-007
20	11	Power Cord	QMP1230-183	QMF7630-183	QMP3950-183	QMP2530-200
20	11	Caution Sheet	—	E60932-005 " 006 " 007 " 008		
20	11	Warranty Card	BT20032B (U.S.A.) BT20025C (Canada)	BT20032B(P)		BT20029B

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10. T-X2 Schematic Diagram



Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
TDC-53	Remote Control P.C. Board Ass'y	9
TPS-239	Fuse P.C. Board Ass'y	10
TXX-242	Logic Function Switches and Fluodisplay P.C. Board Ass'y	11
TXX-248	FM/AM Tuner and Indicator P.C. Board Ass'y	14.
TPS-263	Power Supply P.C. Board Ass'y	17
TAC-508	Output P.C. Board Ass'y	17

Notes:

- When replacing the parts in the darkened area and those marked with Δ , be sure to use the designated parts to ensure safety.
 - indicates FM/AM signal path.
 - indicates LW signal path.
 - indicates positive B power supply.
 - indicates negative B power supply.
 - Parts in red indicate transistors or ICs.
 - This is the standard circuit diagram.
- The design and contents are subject to change without notice.