

JVC**SERVICE MANUAL**

STEREO RECEIVER

MODEL
RX-111BK
RX-111LBK



RX-111BK



RX-111LBK

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Safety Precautions

1. The design of this product contains special hardware, many circuits and components specially for safety purposes.
For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have those special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.
5. To confirm the polarity of the power cord and AC outlet (Canada only).

When replacing the power cord or the AC outlet, make sure that the power switch or the protection device (the primary fuse etc.) is NOT connected to the ground power side of the plug and AC outlet (wider blade of plug or wider hole of the AC outlet).

6. Leakage current check

(Safety for electrical shock hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

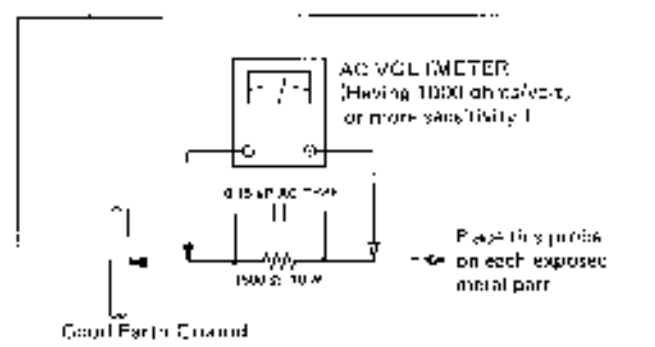
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).

- Alternate check method.

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

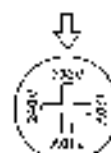
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



CHECKING YOUR LINE VOLTAGE (Except for U.S.A., Canada, Australia, U.K. and Continental Europe.)

Before inserting the power plug, please check this setting to see that it corresponds with the line voltage in your area. If it doesn't, be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the rear panel.

CAUTION Before selecting the "Voltage selector switch" to proper voltage disconnect the power plug.



1. Specifications

AMPLIFIER SECTION

	78 IHF
RMS Power	25 watts per channel, min. RMS, both channels driven, into 8 ohms from 40 Hz to 20 kHz, with no more than 0.5 % total harmonic distortion.
	27 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.7 % total harmonic distortion.
Total Harmonic Distortion	0.1 % at 25 watts (1 kHz, 8 ohms)
Input Sensitivity/Impedance	
PHONO	2.5 mV/47 kohms
TAPE PLAY/CD/VIDEO SOUND	150 mV/40 kohms
Recording Output Level	140 mV
Frequency Response	20 Hz - 20 kHz, -1 dB, -1 dB (8 ohms)
Tone Control	
TRFERENCE	-6 dB (10 kHz)
BASS	-8 dB (100 Hz)
Signal to Noise Ratio	
PHONO	70 dB (68 IHF) 59 dB (DIN) 78 dB (78 IHF, Rec. out)
TAPE PLAY/CD/VIDEO SOUND	91 dB (68 IHF) 64 dB (DIN) 74 dB (78 IHF)

FM TUNER SECTION

	78 IHF	DIN (for Europe)
Tuning Range	87.5 MHz - 108.0 MHz	87.5 MHz - 108.0 MHz
Usable Sensitivity	Mono 10.8 dBf 0.05 μ V/75 ohms 1.8 μ V/300 ohms	1.5 μ V/75 ohms
50 dB Quieting Sensitivity	Mono 16.3 dBf 11.8 μ V/75 ohms 13.6 μ V/75 ohms Stereo 39.3 dBf 22.5 μ V/75 ohms 115 μ V/300 ohms	-
S/N 45 dB S. Ratio Sensitivity	-	Stereo 23 μ V/75 ohms
Signal to Noise Ratio (at 98 MHz, 80 dB)	Mono 80 dB Stereo 73 dB (A-weight)	Mono 72 dB Stereo 64 dB (weighted)
Total Harmonic Distortion	Mono 0.15 % 1 kHz	Mono 0.1 % Stereo 0.2 %
Frequency Response	30 Hz - 15 kHz, -0.5 dB, -3 dB	-
Capture Ratio	1.5 dB	1.0 dB
Alternate Channel Selectivity	60 dB, $\pm$ 400 kHz	55 dB, $\pm$ 300 kHz
Image Response Ratio	-	55 dB at 90 MHz
IF Response Ratio	-	85 dB at 98 MHz
Stereo Separation	-	40 dB at 1 kHz

AM TUNER SECTION

	78 IHF	DIN (for Europe)
Tuning Range	527 kHz - 1611 kHz	522 kHz - 1611 kHz
Channel space	0 kHz	0 kHz
Channel space	520 kHz - 1710 kHz	520 kHz - 1710 kHz
Sensitivity	350 μ V/m at 1000 kHz 30 μ V at 1000 kHz	300 μ V/m at 999 kHz 30 μ V at 999 kHz
Signal to Noise Ratio (100mV/m)	50 dB at 1000 kHz	50 dB at 999 kHz
Selectivity	39 dB, $\pm$ 70 kHz at 1000 kHz	45 dB for RX-111B / 1 B 35 dB, $\pm$ 9 kHz at 999 kHz

LW (RX-111LBK only)

Tuning Range	153 Hz - 360 kHz
Sensitivity	800 μ V/m at 245 kHz 100 μ V at 245 kHz
Signal to Noise Ratio (100 mV/m)	45 dB at 245 kHz
Selectivity	45 dB $\pm$ 3 kHz at 245 kHz

Design and specifications subject to change without notice.

Power Specifications

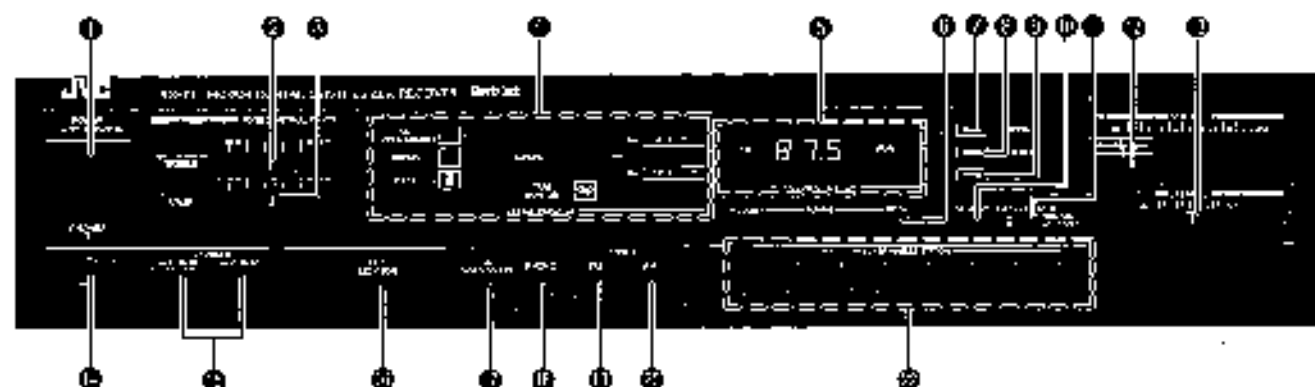
Areas	Line Voltage & Frequency	Power Consumption
U.S.A., Canada	AC 120 V, 60 Hz	100 W, 150 VA
Europe	AC 220 V $\pm$, 50 Hz	80 watts
U.K., Australia	AC 240 V $\pm$, 50 Hz	80 watts
Other Areas	AC 110/120/220/240 V $\pm$, Selectable, 50/60 Hz	80 watts

Dimensions and Weight

	Dimensions	Weight
Height	Width	Net
92 mm (3 5/8")	435 mm (17-1/8")	3.9 kg (8.4 lbs)
	Depth	
	215 mm (8-1/2")	

2. Names of Controls and Their Functions

RX-111BK



1 POWER

ON (I): Press to set to I position to turn the power on.

STAND BY (II): When the power cord is plugged into an AC outlet, the memory circuit, memory and the preset stations and the source selector are not subject to cancellation or accidental alteration. The preset data and the source selector will be maintained even in the case of a power failure or when the power cord is disconnected, if the period power is not supplied does not exceed a couple of days.

NOTE:

- Even when the POWER button is set to STAND BY, this receiver consumes a small amount of electricity (5 watts). To shut the power completely off, disconnect the power cord.
- An electronic source selector is used in this unit. When the POWER button is first switched on, two or more sources or no source may be selected. Make sure to input the source select data by pressing one of the source selectors.

2 TREBLE

Slide to the right to boost treble response, to the left to decrease it.

3 BASS

Slide to the right to boost bass response, to the left to decrease it.

4 Source indicators

The indicator corresponding to the source select button pressed lights.

5 Frequency display

The tuned-in frequency is displayed digitally 4 to 10 Hz.

For AM reception: Four digits (kHz) are displayed.

For FM reception: Three digits (kHz) are displayed.

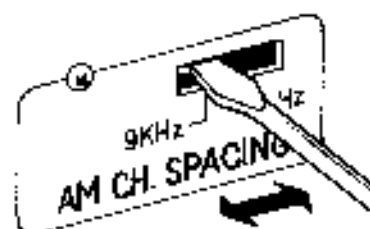
(RX-111LBK only)

For FM reception: Five digits (MHz) are displayed.

(for continental Europe, the U.K., Australia and other areas.)

Four digits (kHz) are displayed

(for the U.S.A. and Canada)



Switch over using the tip of a screwdriver as shown in Fig. above.

6 TUNING UP/DOWN

When the UP/DOWN scanning button is pressed, the frequency changes in preset determined steps (see table below). Tapping this button changes the tuner step by step (pressing continuously more than 10/s sec.) changes tuning by high speed scanning when stops when the button is pressed. After choosing the frequency you want to listen to, hold the button pressed to scan rapidly until the display approaches the desired frequency, then tap the button lightly to tune precisely.

Channel spacing

AM channel spacing (note RX-111BK only) is provided on the rear panel for selecting 9 kHz or 10 kHz steps according to your area.

Area	Band		
	FM	AM (MW)	AM (LW)
U.S.A., Canada	100 kHz	10 kHz	
Europe, Australia	50 kHz	9 kHz	10 kHz
Other areas	*50 kHz	12 kHz	
or set	100 kHz	10 kHz	

Note: *Preset at the factory.

Connection Diagram

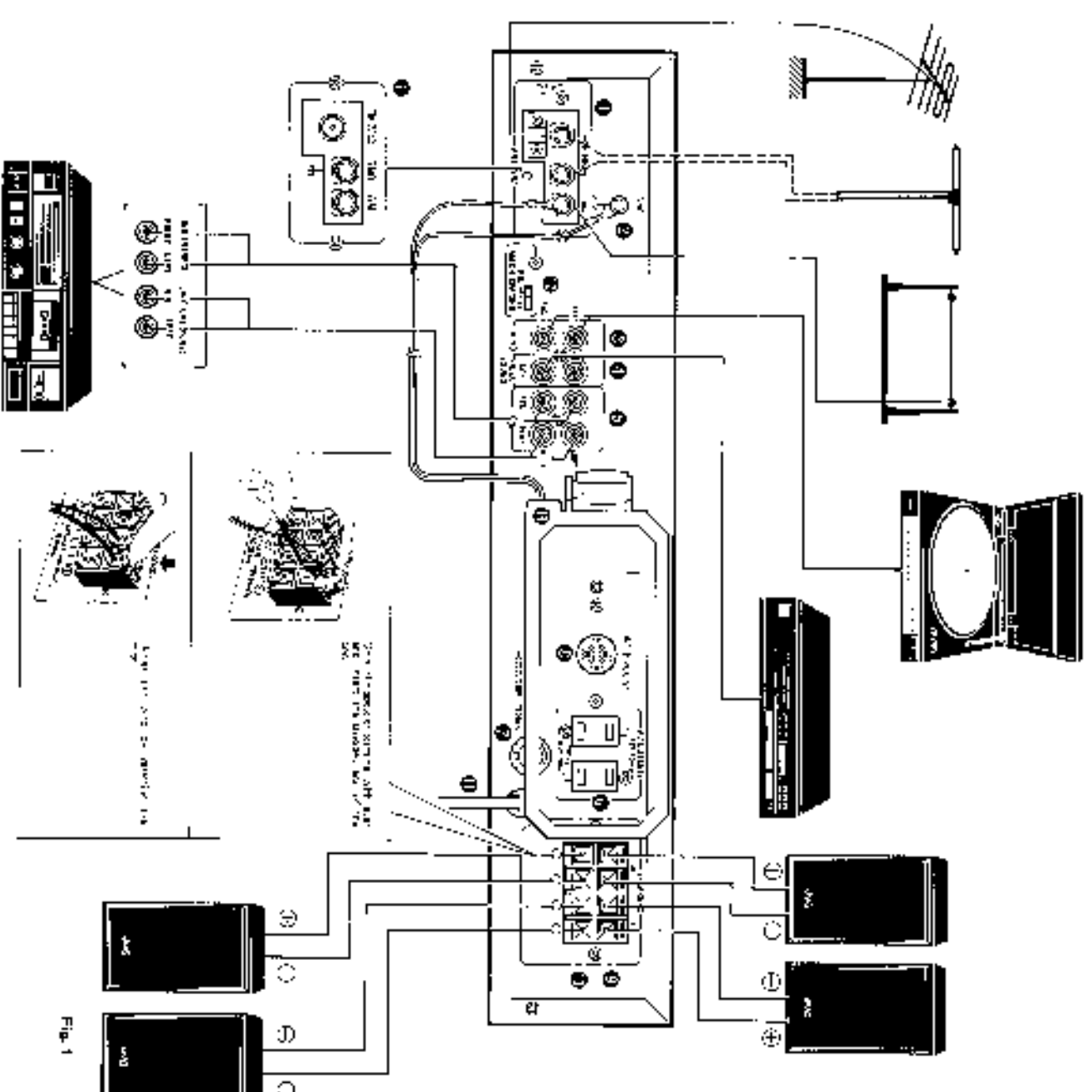
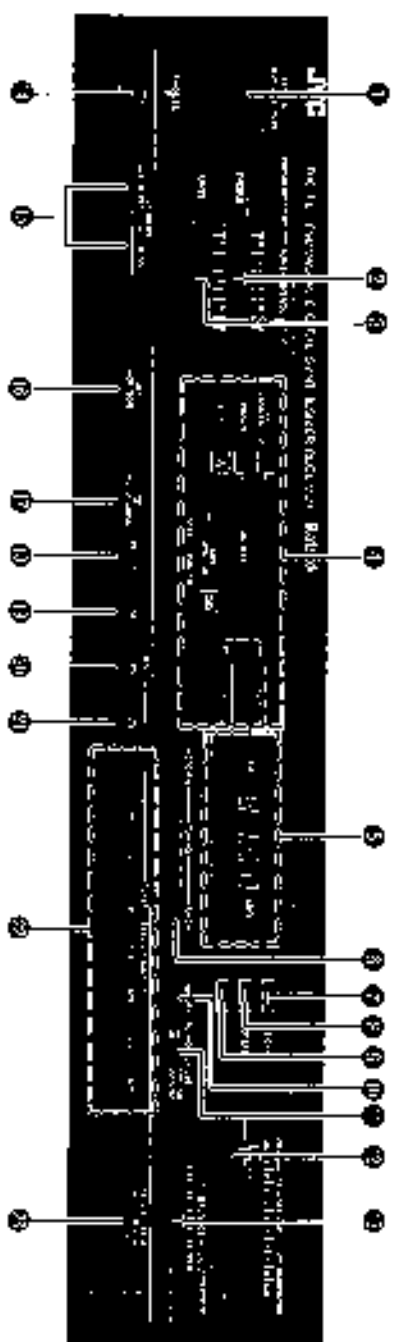


Fig. 1



1 SIGNAL indicator

The LED light is on when a signal is input. Tune to the required frequency while watching the frequency display.

2 FM STEREO indicator

This LED light will turn on when stereo broadcasts.

3 MEMORY indicator

When the MEMORY button is pressed, the MEMORY indicator lights to show that the unit is ready to store a preset frequency in memory. This indicator will go out automatically in about 10 seconds when the active preset is lost (phones).

4 MEMORY

Press this button and the MEMORY indicator will light to show that memory is ready to accept a frequency. This button is used to store a preset.

Press the action select button while the MEMORY indicator is lighting. About 10 seconds the frequency display will be received. This is convenient to bring in desired frequency without turning.

When the MEMORY indicator is on, the frequency selection does not operate.

5 FM MODE (MUTE)

The MUTE is used to select any AUTO (AUTO/CH/CH2), MUTE, OFF, mode. When auto reception is possible, set the button to AUTO (MUTE/CH/CH2). This also alternates the station selection the tuning.

When signals are received, the station of a preset broadcast is ready to be set to MUTE (MUTE/CH/CH2). Station will be changed to MUTE, but signal quality will be lowered. This is convenient to bring in desired frequency without turning.

6 VOLUME

The slider has an auto sound effect when the slider is moved. The slider will compensate high and low frequencies in the station.

7 BALANCE

Used to adjust the balance between the left and right speakers.

8 Headphone Jack (PHONES)

The stereo headphones can be plugged into the headphone jack and the speaker will be turned off.

9 SPEAKERS 1/SPEAKERS 2

These buttons are used to connect the speakers to the stereo system and the stereo system will be turned off.

Note:

When speakers are connected to only one system of the SPEAKERS terminals, press only the SPEAKERS button of the system connected. If both buttons are pressed, sound will not be heard from either speaker system. When two pairs of speakers are connected and either or both SPEAKERS buttons have pressed, sound will be heard from either or both speaker systems.

10 TAPE MONITOR

Press to listen to the recorded sound received by the TAPE. Press 2. Press 1 again to return the source selected to the previous state.

11 COPIED SOUND

Press to record a recorded sound from the input of the stereo system. Press 1 again to return the source selected to the previous state.

12 PHONO

Press to hear a recorded sound from the turntable connected to the PHONO input of the stereo system.

13 FM

Press to select the FM mode.

14 AM (FM/RX-111BK/MUTE/RX-111BK)

Press to switch on the AM (Auto) mode.

15 LW (RX-111BK only)

Press to select the LW mode.

16 Station select buttons

These buttons are used to select the station frequency. If one of these buttons is pressed when the MEMORY indicator is on, the frequency being received will be stored in memory.

When you switch from radio reception to any other mode in the power button to STAND BY, then switch back to the radio or switch the phone on again, you will hear the station previously selected.

17 PRESET SELECT

Press to set to channels 1-6 (for RX-111BK only).

18 Preset for Continental Europe, U.K. and Australia

19 Preset for Continental Europe, U.K. and Australia

20 Preset for Continental Europe, U.K. and Australia

21 Preset for Continental Europe, U.K. and Australia

22 Preset for Continental Europe, U.K. and Australia

23 Preset for Continental Europe, U.K. and Australia

24 Preset for Continental Europe, U.K. and Australia

25 Preset for Continental Europe, U.K. and Australia

26 Preset for Continental Europe, U.K. and Australia

27 Preset for Continental Europe, U.K. and Australia

28 Preset for Continental Europe, U.K. and Australia

29 Preset for Continental Europe, U.K. and Australia

30 Preset for Continental Europe, U.K. and Australia

31 Preset for Continental Europe, U.K. and Australia

32 Preset for Continental Europe, U.K. and Australia

ANTENNAS

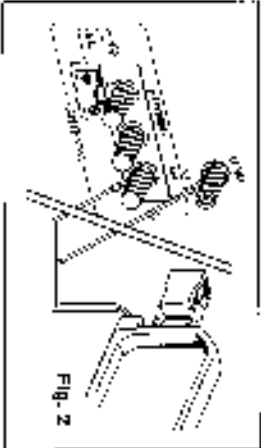


Fig. 2

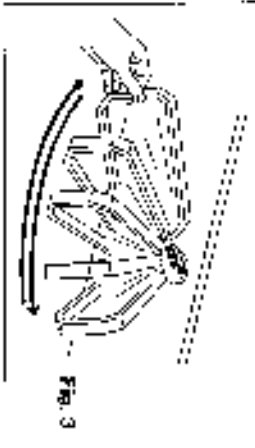


Fig. 3



Fig. 4

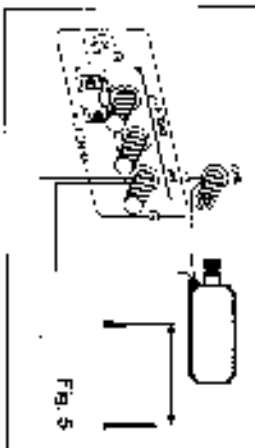


Fig. 5

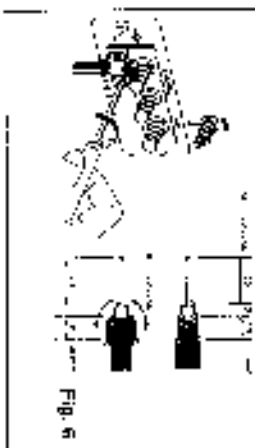


Fig. 6

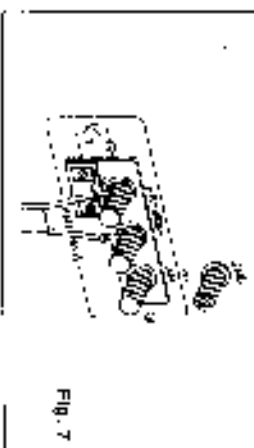
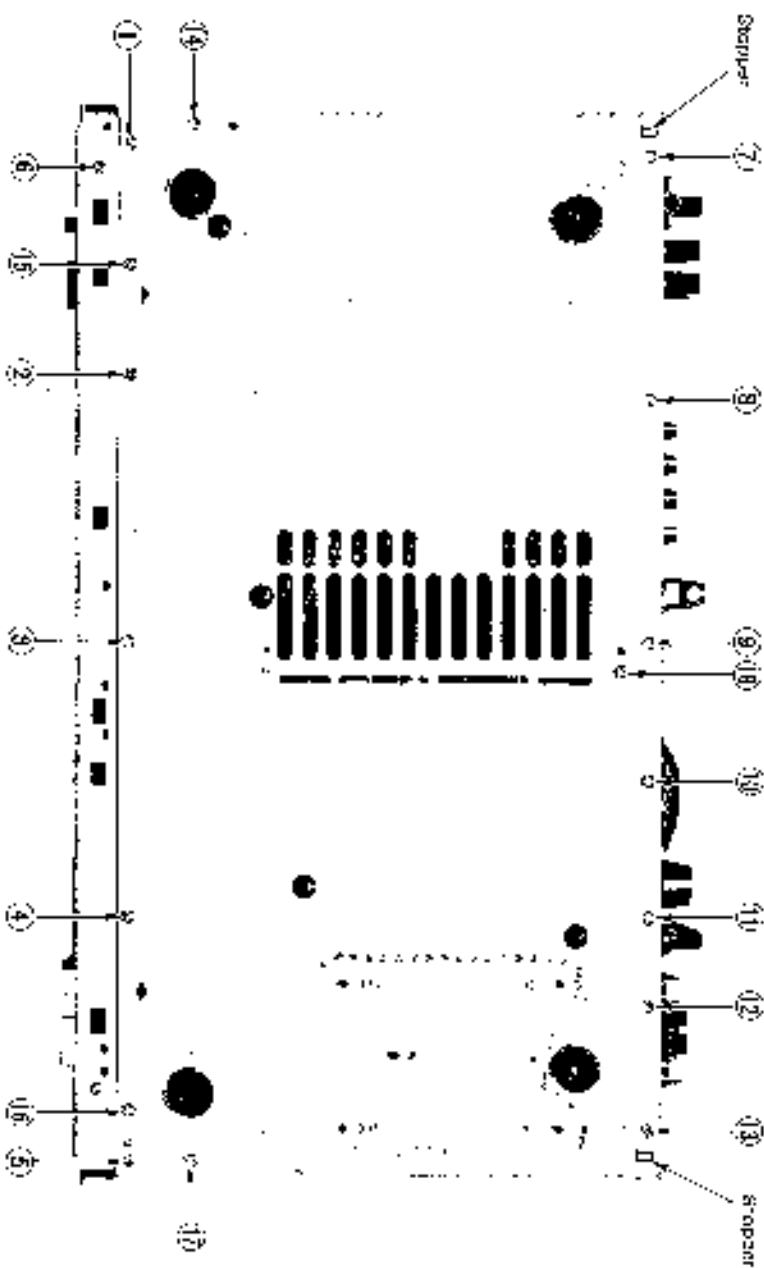
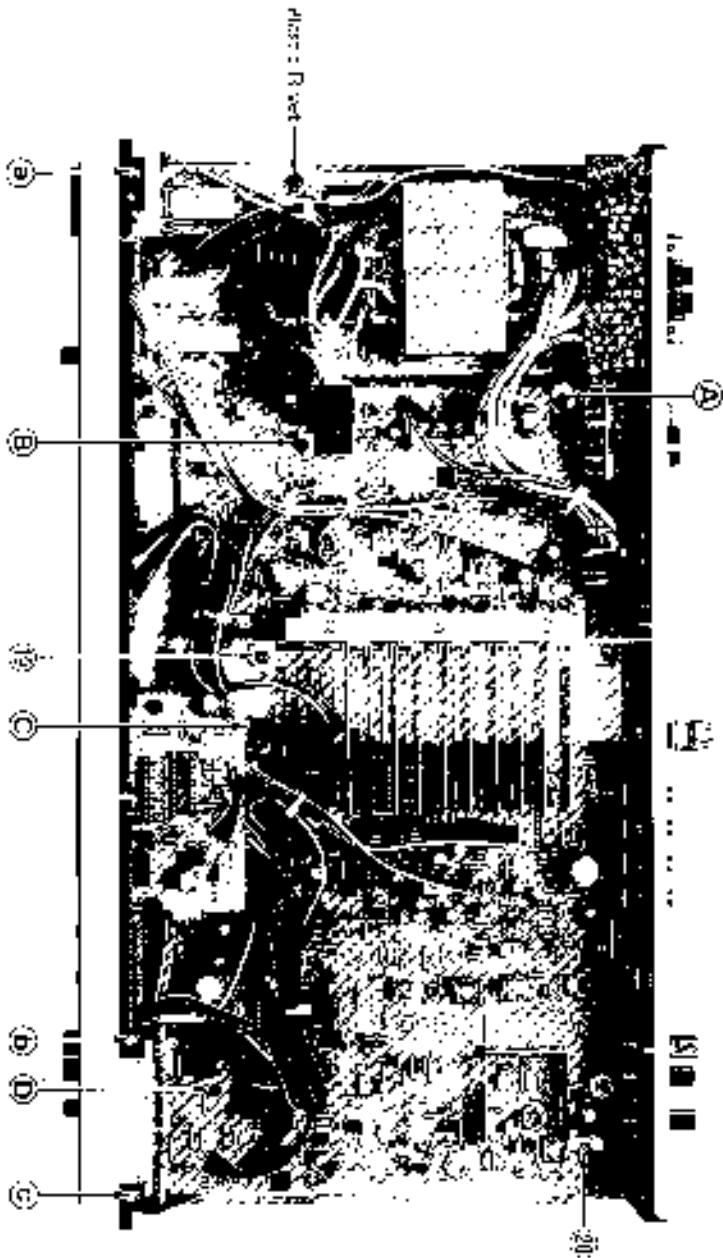


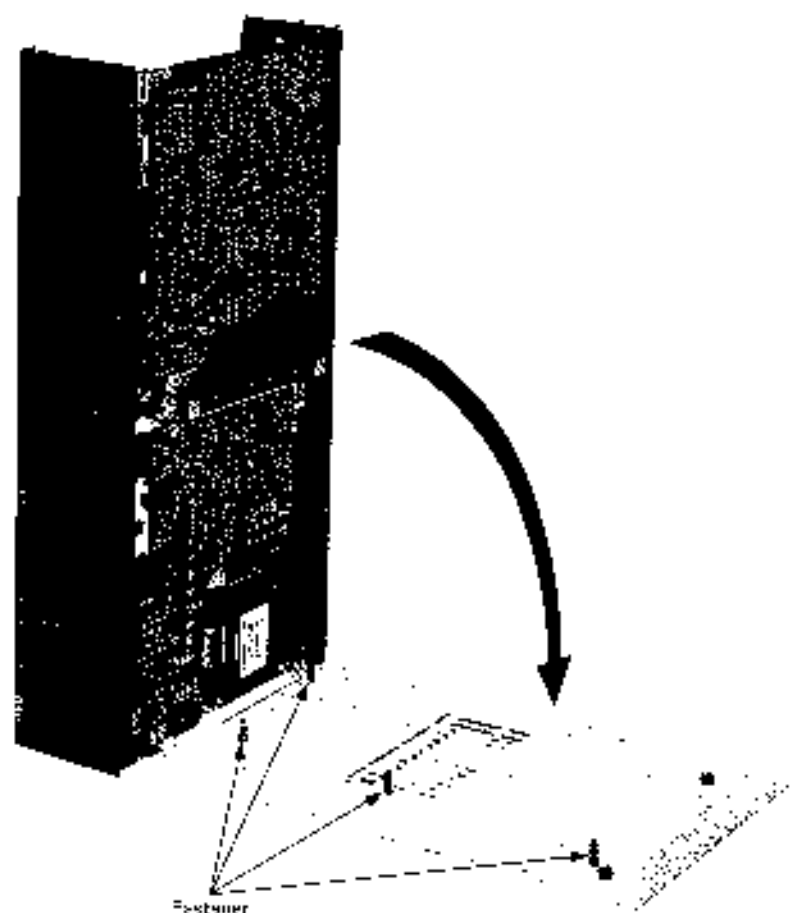
Fig. 7



Fig. 8

3. Removal Procedures





3-(1) Metal Cover Section

1. Remove the screws securing the metal cover — two screws from its two sides and three from its rear side.
2. Extract the metal cover while lifting its rear side.

3-(2) Front Panel Section

1. Demount the metal cover (refer to item 3-(1) above).
2. Remove three screws (a), (b) and (c).
3. Remove five screws (1) through (5) — namely, three screws that jointly secure the front panel and the chassis base through the panel bottom side.
4. Remove screw (6) — the one that secures the front panel through its lower side.

3-(3) Chassis Base Section

1. Demount the metal cover (refer to item 3-(1) above).
2. Remove 16 screws (1) through (6) and (7) through (17) — those screws that secure the chassis base through its bottom side.
3. Remove two screws (18) and (19) securing the heat sink.
4. Remove screw (20) securing the tuner PC board.
5. Extract the plastic rivet securing the amplifier PC board.
6. Remove four fasteners (A), (B), (C), and (D) securing the tuner PC board and the amplifier PC board. (Push in the fasteners while using radio-repair pliers or a similar tool to grip the fastener head.)
7. Open the chassis base while engaging the stopper engaged with the rear panel.

4. FM/AM (MW/LW) Tuner Alignment Procedures

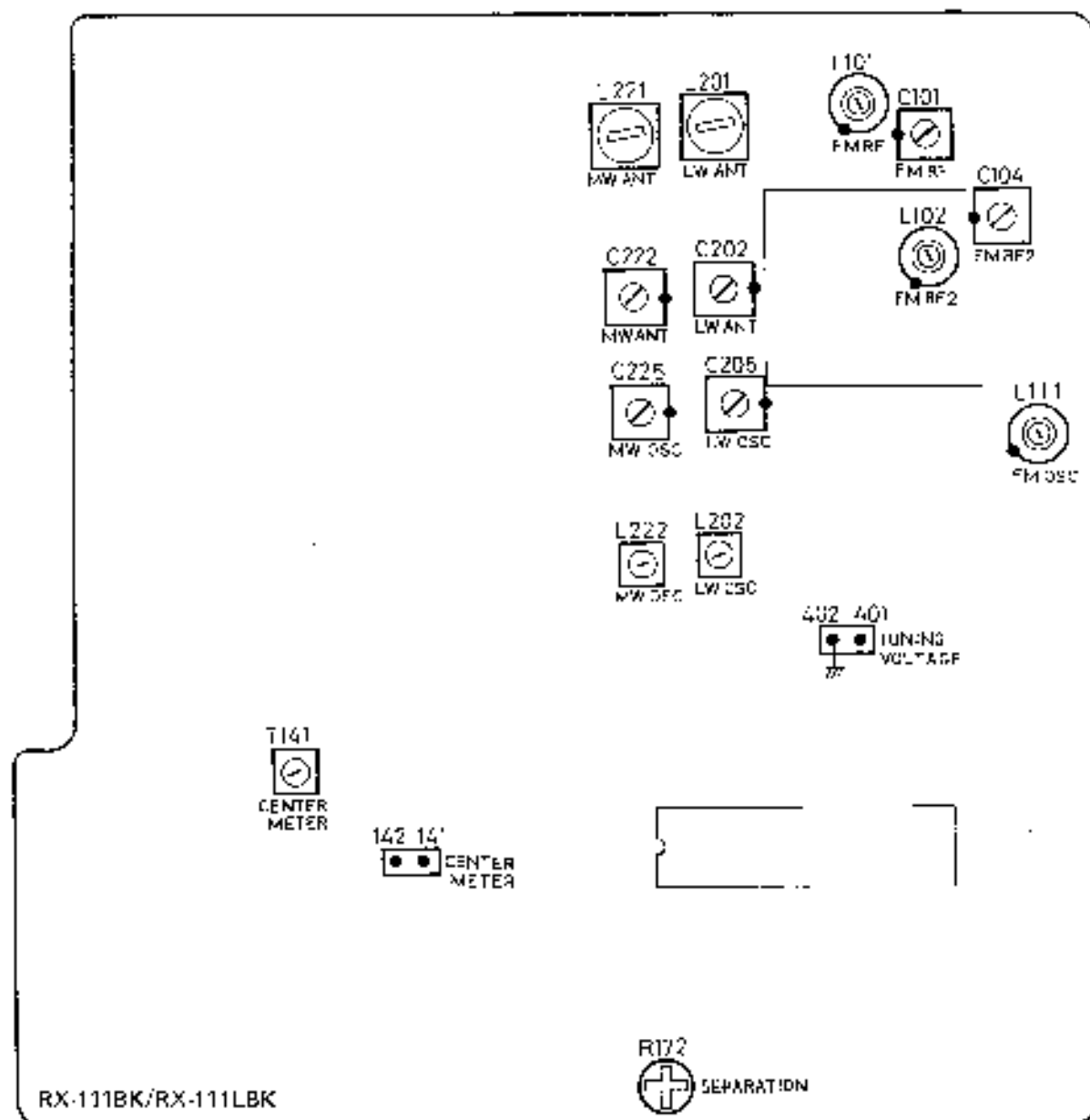


Fig. 6

FM Section

Band Cover

1. Set the frequency display to 108.0 MHz.
2. Connect a DC VTVM to TP401 and TP402 (GND).
3. Adjust L111 so that the VTVM shows 9.00 V.
4. And set the frequency display to 87.5 MHz.
5. Check the VTVM voltage reading 1.60 V $\pm$ 0.5 V.

Note: After adjustment, confirm that the band cover is as follows: (for West Germany only)

FM: Low-end 87.5 MHz - 300 kHz
 High-end 108.0 MHz + 500 kHz

Sensitivity

Low Frequency

1. Connect an RF generator to 75 Ω antenna terminals on the rear panel through a dummy antenna. (FM 75 Ω :

2. Set an HF generator to 80 MHz, a modulation of 1 kHz and a deviation of 75 kHz to provide an input of 1 μ V.
3. Connect a VTVM and an oscilloscope to the Rec. out jacks on the rear panel.
4. Set the frequency display to 90 MHz.
5. Adjust coils L101, L102 to maximize the output.

High Frequency

6. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz to provide an input of 1 μ V.
7. Set the Frequency Display to 108 MHz.
8. Adjust the FM trimmers C101, C104 to maximize the output.
9. Repeat these high and low frequencies adjustment alternately until maximum sensitivity is obtained.

Discriminator, Distortion and Signal Gain

1. Press to FM position.
2. Connect an RF generator, 1 kHz modulation and a 75 kHz deviation to the antenna terminals on the rear panel through a dummy antenna.
3. Connect an oscilloscope, Distortion Meter and VTVM to the Rec. out jacks on the rear panel.
4. Set the RF generator to 98 MHz, generator output to minimize.
5. Set the Frequency Display to 98 MHz.
6. Connect a DC VTVM between TP141 and TP142.
7. And set the RF generator output to 0.5 mV.
8. Adjust the core of T141 for DC VTVM reading of 0 (zero) mV.

Stereo Separation (for Europe, U.K. and Australia only)

1. Set the stereo signal generator as follows: 400 Hz modulation frequency, 7.5 kHz deviation pilot, 67.5 kHz main and sub carriers. Connect its output to the RF generator.
2. Connect an RF generator to the antenna terminals through a dummy antenna.
3. Switch the selector of stereo modulator to left channel modulation.
4. Adjust R172 so that the output of right channel is minimized.
5. Switch the selector of the modulator to right channel modulation.
6. Adjust R172 so that the left channel is minimized.
7. Set R172 to an average, if the separation of left and right is different.

AM(MW) Section

Band Cover

1. Press to AM(MW) position.
2. Set the frequency display to 520 kHz (10 kHz channel step), or 522 kHz (9 kHz channel step).
3. Connect DC VTVM, TP401 and TP402 (GND).
4. Adjust L222 so that the VTVM shows 0.95 V.
5. And set the frequency display to 1710 kHz (10 kHz channel step), or 1611 kHz (9 kHz channel step).
6. Adjust C225 so that the DC VTVM reads 9.00 V for 1710 kHz, or 7.60 V for 1611 kHz.

Tracking and Sensitivity

Note: Be sure to perform this adjustment posterior to the LW tracking adjustment.

1. Connect the loop antenna. Also connect the RF generator to the antenna terminal on the rear panel.
2. Set the generator to 600 kHz (or 603 kHz) with 30 % modulation at 400 Hz.
3. Set the frequency display to 600 kHz, or 603 kHz.
4. Adjust the core of L221 to maximize the output.
5. Set the generator to 1400 kHz, or 1404 kHz.
6. Set the frequency display of the unit to 1400 kHz, or 1404 kHz.
7. Adjust C222 so that the output signal is maximized.
8. Repeat these adjustments (1 ~ 7) alternately until maximum sensitivity is obtained.

LW Section

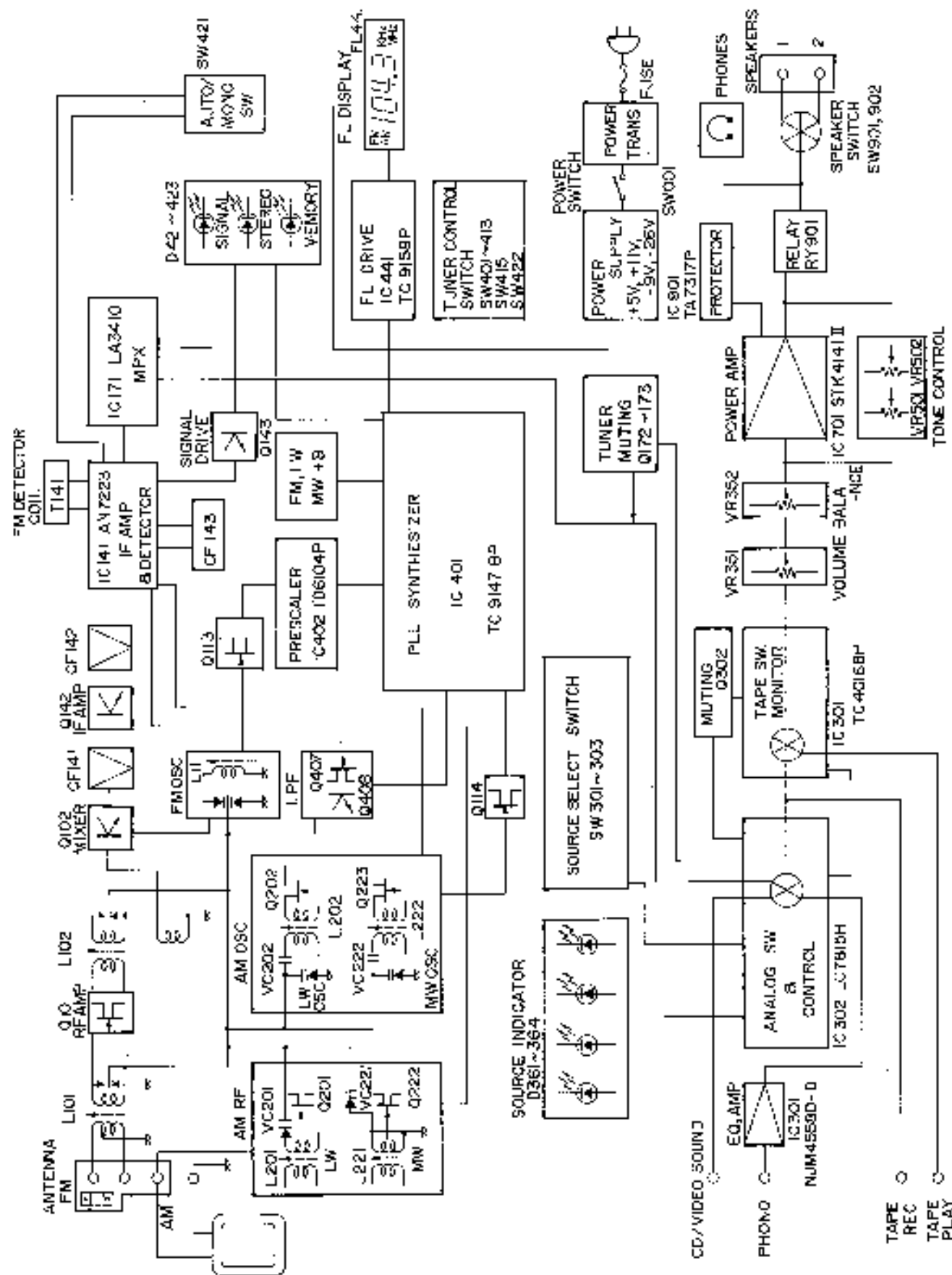
Band Cover

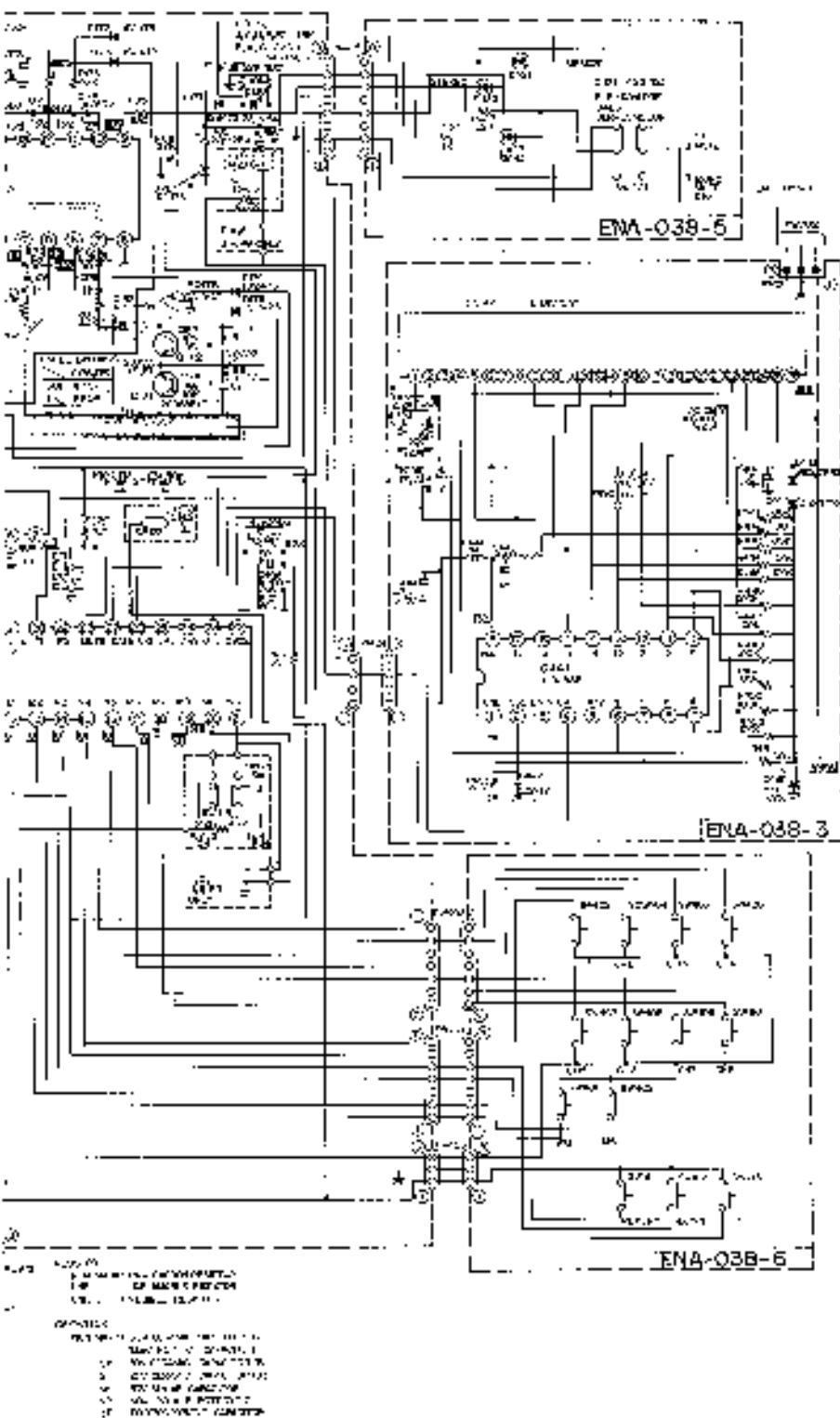
1. Press to LW position.
2. Set the frequency display to 153 kHz.
3. Connect a DC VTVM to TP401 and TP402 (GND).
4. Adjust L202 so that the VTVM shows 1.10 V.
5. Set the frequency display to 350 kHz.
6. Adjust C205 so that the VTVM reads 8.00 V.

Tracking and Sensitivity

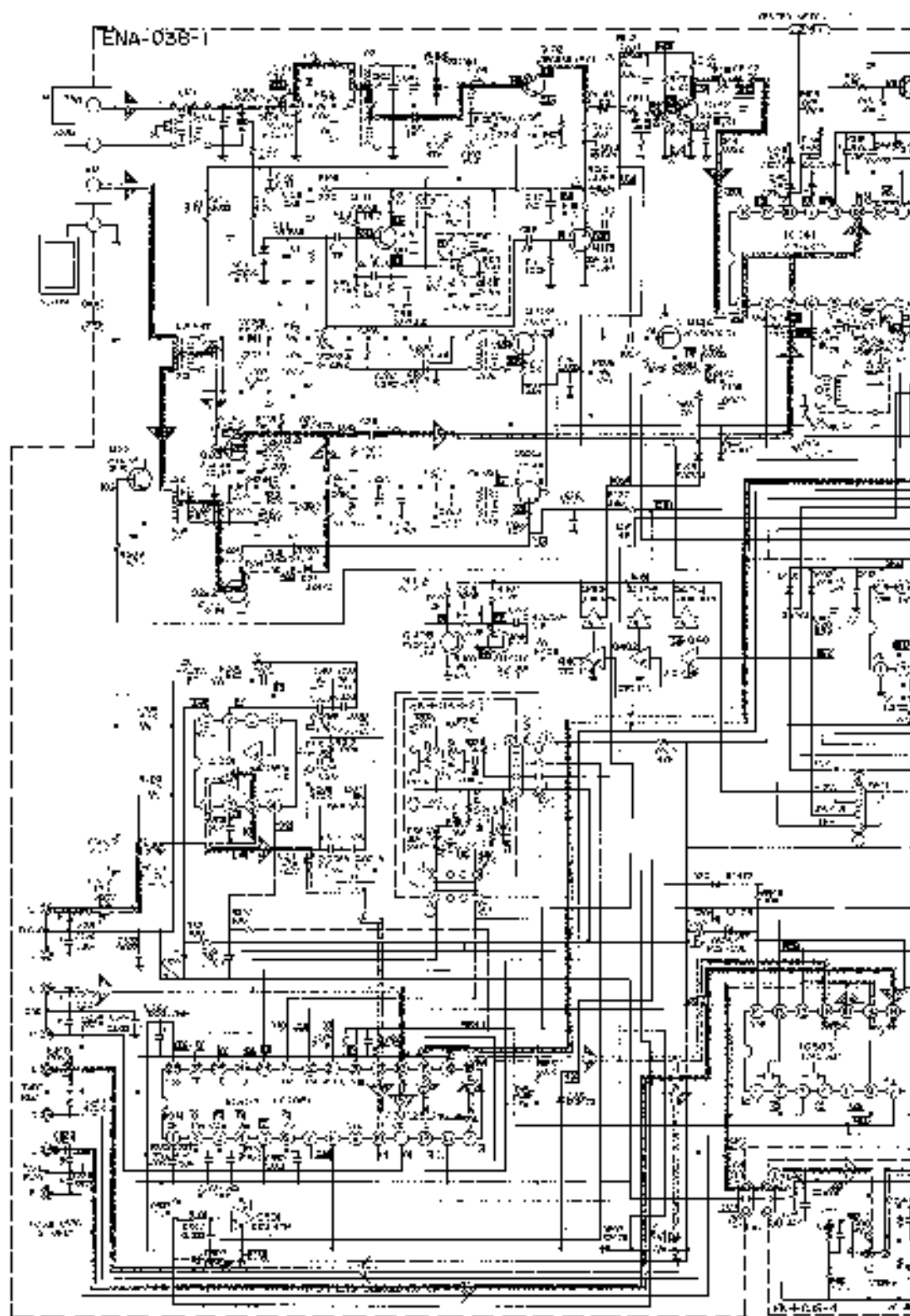
1. Connect the loop antenna. Also connect the RF generator to the antenna terminal on the rear panel.
2. Set the generator to 164 kHz with 30 % modulation at 400 kHz.
3. Set the frequency display to 164 kHz.
4. Adjust the core of L201 to maximize the output.
5. Set the frequency generator to 353 kHz.
6. Set the frequency display of the unit to 353 kHz.
7. Adjust C202 so that the output signal is maximized.
8. Repeat these adjustments (1 ~ 7) alternately until maximum sensitivity is obtained.

5. Block Diagram





6-21 RX-111LBK Tuner Section

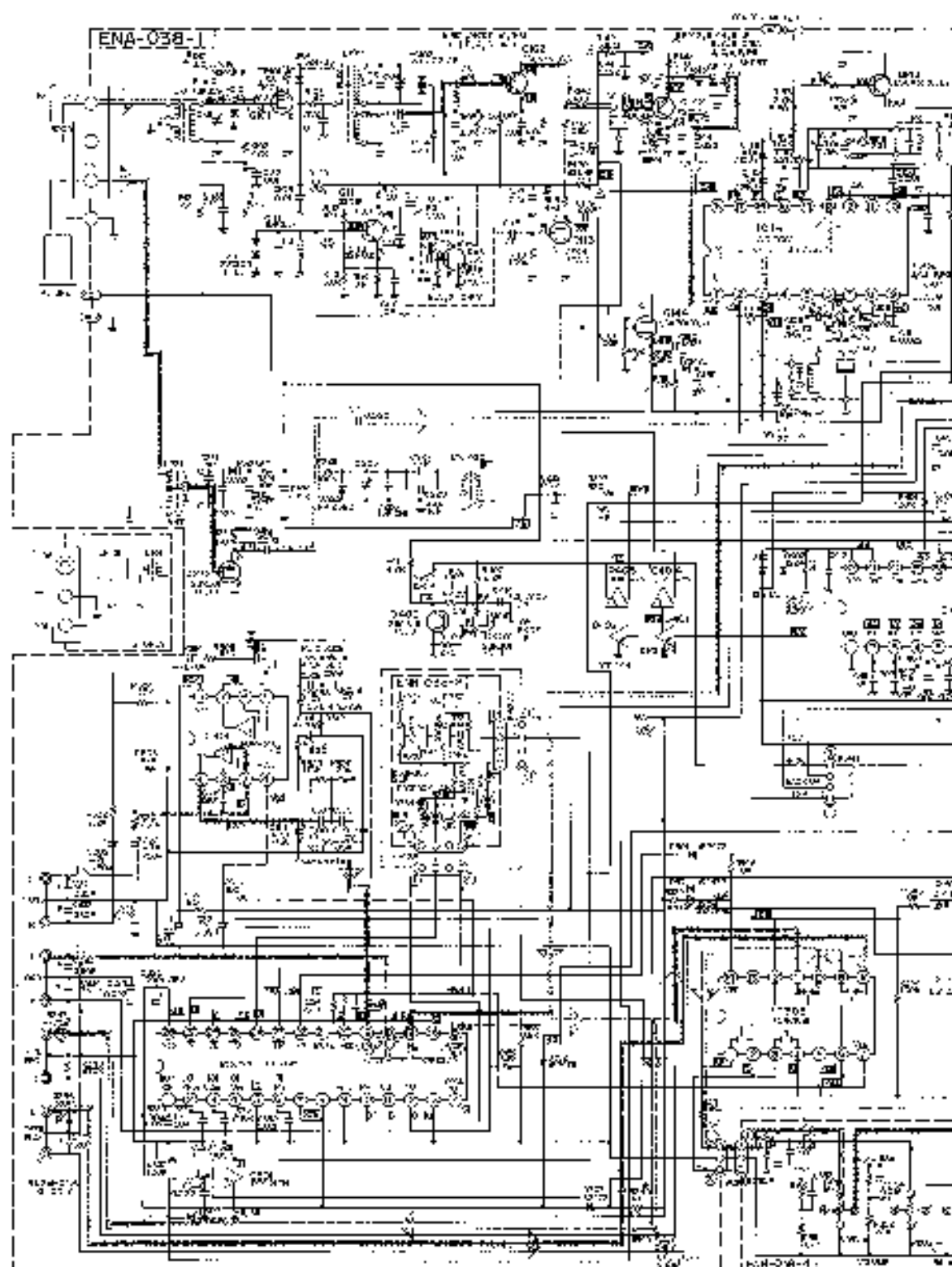


Notes:

1. shows DC voltage to the chassis with no signal input.
2. indicates positive B power supply.
3. indicates negative B power supply.
4. indicates signal path.
5. When replacing the parts in the darkened area (2), those marked with be sure to use the old parts to ensure safety.
6. This is the standard circuit diagram.
The design and contents are subject to change without notice.

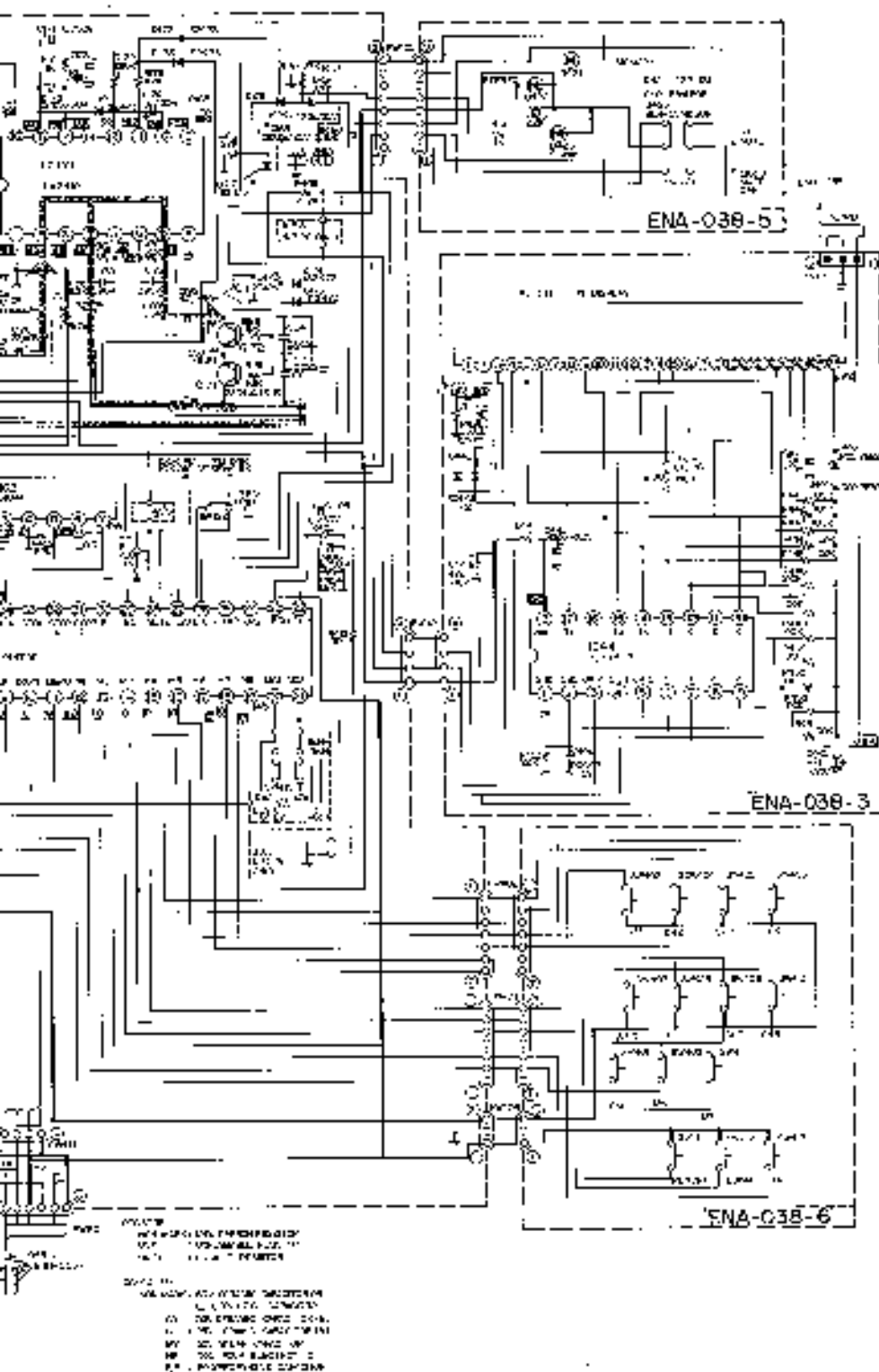
6,RX-111BK/RX-111LBK Schematic Diagram

6-1) RX-111BK Tuner Section

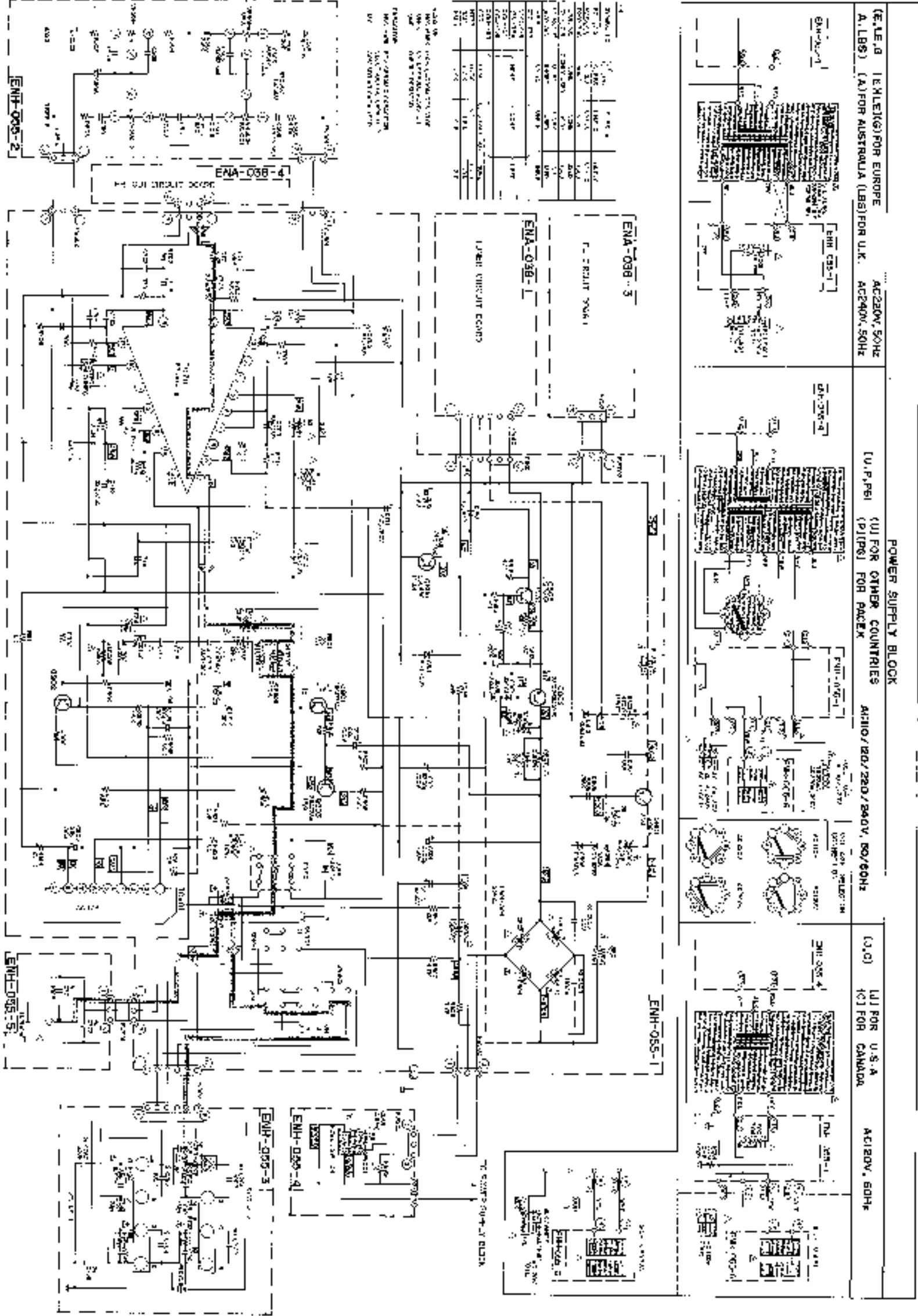


Notes:

1. shows DC voltage to the chassis with no signal input.
2. indicates positive B power supply.
3. indicates negative B power supply.
4. indicates signal path.
5. When replacing the parts in the darkened area () and those marked with , be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram. The design and contents are subject to change without notice.



6-131 RX-111BK/RX-111LBK Amplifier Section



Notes:

1. shows DC voltage to the chassis with no signal input.
2. indicates positive B power supply.
3. indicates negative B power supply.
4. indicates signal path.
5. When replacing the parts in the dark area (ENH-035-1) and those marked with A, be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram. The design and contents are subject to change without notice.

Unheimlich

[illegible]

Figure 14-109

[illegible]

Результаты

[illegible]

3. Printed Circuit Board Ass'y and Parts List

3-(1) ENA-038 Tuner P. C. Board Ass'y

Note: ENA-038 □ varies according to the areas employed. See note (1) when placing an order.

Note (1)

P.C. Board Ass'y	Designated Areas
ENA-038 <u>A</u>	U.S.A. & Canada
ENA-038 <u>B</u>	U.S. Military & Other Countries
ENA-038 <u>C</u>	Europe & Australia
ENA-038 <u>D</u>	Europe & U.K. with LW
ENA-038 <u>E</u>	West Germany

Note (2)

The symbols (※, ※※, ※※※, etc.) on P.C. Board surface are factory process only.



Item	Part Number	Part Name	Qty	Description	Areas
1	ERP-RX111-BK	Front Panel Assy	1		Except LL, LBS
	ERP-RX111-LBK	Front Panel Assy	1		LE, LBS
1-2	E72055-001	JVC Mark	1		
1-3	LE0912-003	Speech Mem	1		
1-4	E24042-014	Front Plate	1		E, G, A
	E24042-015	Front Plate	1		LE, LBS
	E24042-016	Front Plate	1		J, C, U, F, PG
1-5	E20067E-000	Minicom Screen	1		
1-6	E30367E-005	Indicator Sheet	1		
1-7	E11083-003	Front Bezel	1		Except LE, LBS
	E11083-004	Front Bezel	1		LE, LBS
1-8	E24043-011	Front Panel	1		Except LE, LBS
	E24043-012	Front Panel	1		LE, LBS
2	E203216-003	Fastener	1		
3	E60312-003	Panel Nut	2		
4	E10048-005	Covering Tape	1		
5	S1000006N	Screw	4		
6	E001256-002	Foot	1		
7	LI11070-100A	Power Transformer	1		J
	ETP107E-100A	Power Transformer	1		C
	ETP107E-100A	Power Transformer	1		J, F, PG
	ETP107E-100A	Power Transformer	1		F, G, A, LE
	LI11070-100A	Power Transformer	1		LBS
8	E60383-002	Ass'y Bezel	4		
9	E60383-002	Bezel	7		
10	E72113-001	Slide Knob	3		
11	S0803038N	Screw	3		
12	E72035-001	Push Knob	1		
13	E72035-001	Push Knob	1		
14	F22355-001	Push Knob	1		
15	E72091-003	Bracket	1		
16	E48725-008	Plastic Rivet	1		
17	E70581-004	FL Screw	1		
18	S0803038N	Screw	1		
19	E48725-007	Plastic Rivet	2		
20	E303650-001	Slide Knob	1		
21	F003861-002	Vertical Switchgear	1		
22	LI1880-001	Screw	4		
23	E24532-003	Metal Cover	1		
24	E58383005N	Switch	12		
25	E72087-001	Bracket	1		
26	F003861-001	Screw	1		
27	E58383005N	Switch	7		
28	E71265-002	Push Knob	2		
29	QEP1055-000U	Vertical Switchgear	1		U, F, PG
30	S0803038N	Screw	5		
31	Q1153076-182	Cord Strapper	1		Except LBS
	Q1153076-182US	Cord Strapper	1		LBS
32	E60385-005	Switch	1		J
33	QMP1340-200	Power Cord	1		J, C
	QMP2000-200	Power Cord	1		F, I, F, G
	QMP2580-244	Power Cord	1		A
	QMP7630-200	Power Cord	1		U, F, PG
	QMP9317-00855	Power Cord	1		LE
34	E24044-013	Rear Panel	1		J, C
	F24911-011	Rear Panel	1		U, F, PG
	E24944-012	Rear Panel	1		E, LE, A, LBS
	E24944-013	Rear Panel	1		G
35	E302534-001	Antenna Holder	1		
36	S0803038N	Screw	2		J, C, U, F, PG
37	S0803038N	Screw	7		
38	E70375-001	GND Terminal	1		
39	QMP0301-303	Line Holder	1		U, F, PG
40	QMP1112-1118US	Fuse	1		P
	QMP1112-1118US	Fuse	1		U, PG
41	QMP1112-1118	Fuse	1		J, C
	QMP1112-1118	Fuse	1		E, I, F, A, G
	QMP1112-1118	Fuse	1		LBS

△ Safety parts

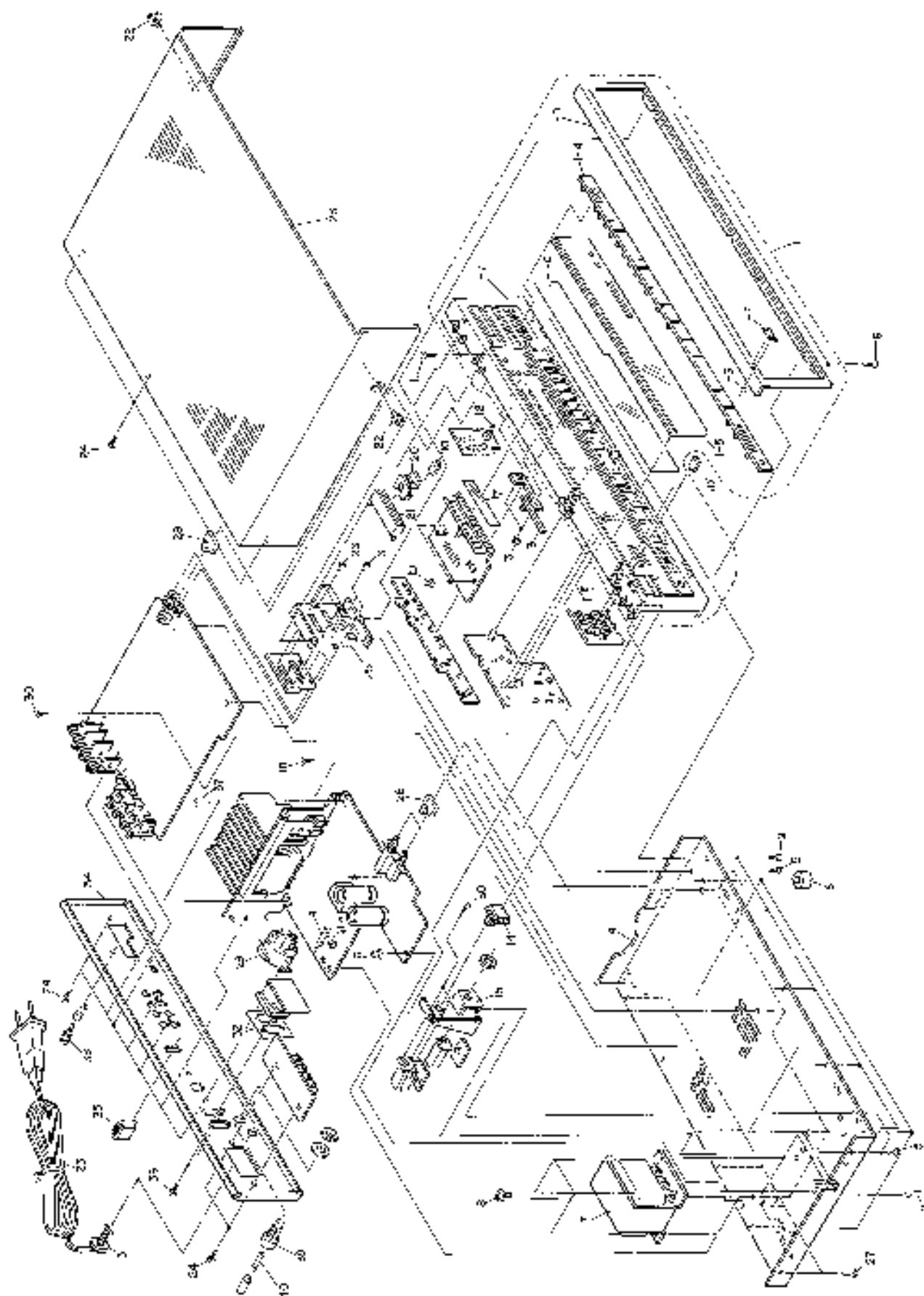
The Marks for Designated Areas

J U.S.A.
C Canada
A Australia

E, LE Europe
G West Germany
P, PG U.S. Military Market

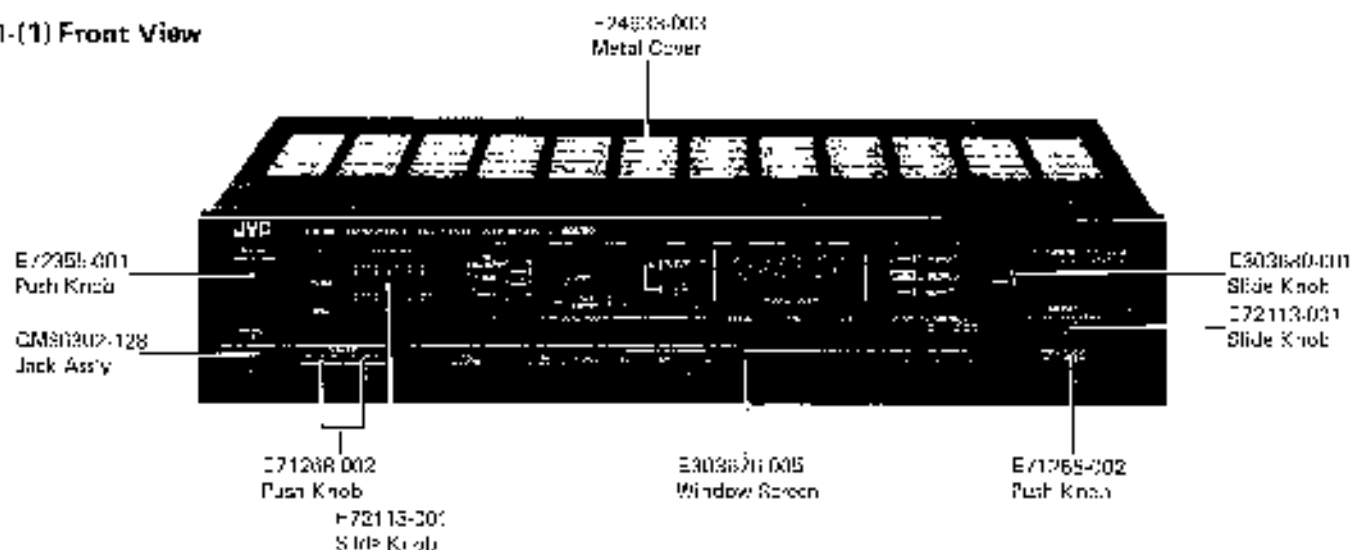
LBS U.K.
U Other Countries

2. Exploded Views and Part Numbers

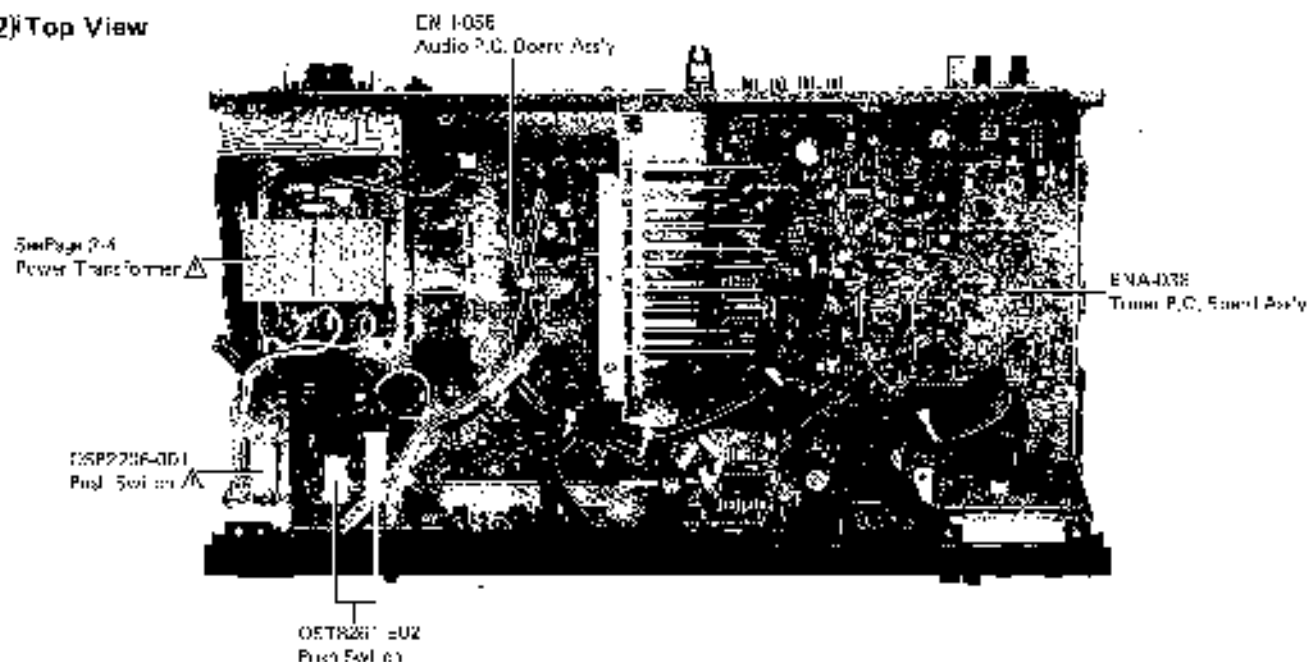


1. Main Parts Loca

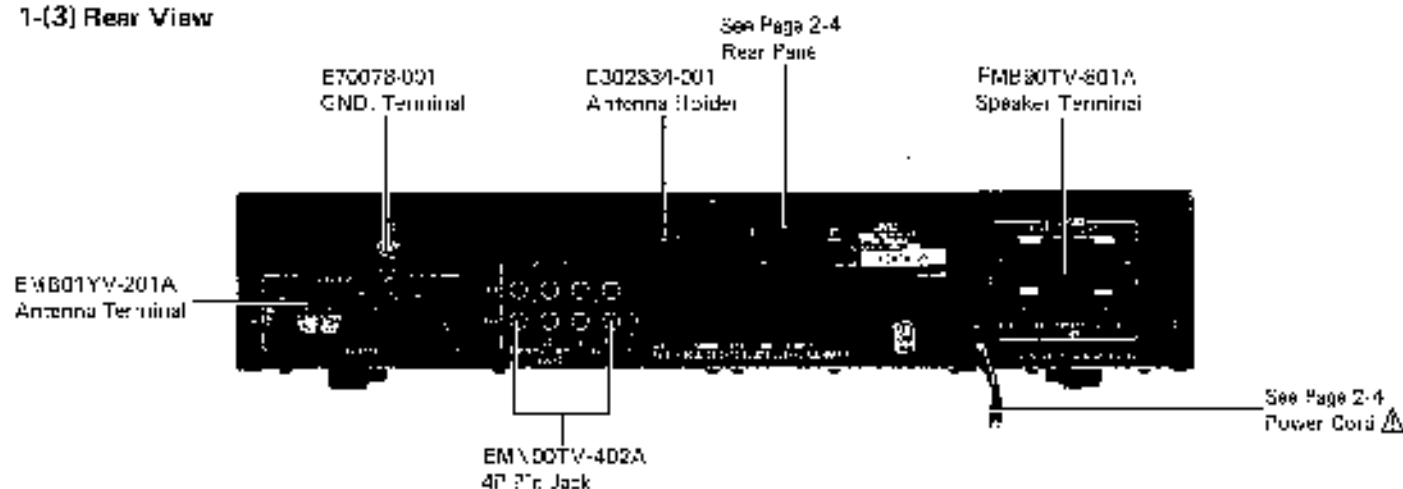
1-(1) Front View



1-(2) Top View



1-(3) Rear View



PARTS LIST

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3-(2) ENH-055□ Audio P.C. Board Ass'y	2-10
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Transistors

ITEM	PART NUMBER	DESCRIPTION AND	
		MARKER	
Q801	2809414(CP-2)	SILICON	WATER-RESISTANT
Q802	2807265A(CP-2)	SILICON	WATER-RESISTANT
Q803	2802235(CP-2)	SILICON	TOSHIBA
Q804	2804593(CP-2)	SILICON	417-801
Q805	2804775A(CP-2)	SILICON	417-801
Q806	2804775A(CP-2)	SILICON	417-801
Q807	2804775A(CP-2)	SILICON	417-801

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品名	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 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Blonde

ITEM	PART NUMBER	DESCR	UNIT	QTY	PRICE
			MARKET		
0001	83V26F	SILICON			
0002	83V26F	SILICON			
0003	83V26F	SILICON			
0004	83V26F	SILICON			
0005	8015E93	ZENER	NEG		
0006	8015E93	ZENER	NEG		
0007	152473	SILICON	ROHM		K
0008	152473	SILICON	ROHM		1.45
0009	152473	SILICON	ROHM		Y
0010	152473	SILICON	ROHM		M
0011	8015E93	ZENER	NEG		
0012	152473	SILICON	ROHM		
0013	805.1E93	ZENER	NEG		
0014	809.1E93	ZENER	NEG		
0015	152473	SILICON	ROHM		K
0016	152473	SILICON	ROHM		1.75
0017	152473	SILICON	ROHM		Y
0018	152473	SILICON	ROHM		M
0019	152473	SILICON	ROHM		
0020	152473	SILICON	ROHM		
0021	152473	SILICON	ROHM		

अनुसंधान

ITEM	PART NUMBER	DESCRIPTION	QTY	UNIT
C001	3FMB2AK-104	3.1M Ω	100V	W/LAR
C002	3FMB2AK-104	3.1M Ω	100V	W/LAR
C003	3ET514M-100	10V	50V	ELECTRO
C004	3ET514M-100	10V	50V	ELECTRO
C005	3FMB14K-100	0.0015V	50V	W/LAR
C006	3FMB14K-100	0.0015V	50V	W/LAR
C007	3FMB14K-100	0.0015V	50V	W/LAR
C008	3FMB14K-100	0.0015V	50V	W/LAR
C009	3FMB14K-100	0.0015V	50V	W/LAR
C010	3FMB14K-100	0.0015V	50V	W/LAR
C011	3FMB14K-100	0.0015V	50V	W/LAR
C012	3FMB14K-100	0.0015V	50V	W/LAR
C013	3FMB14K-100	0.0015V	50V	W/LAR
C014	3FMB14K-100	0.0015V	50V	W/LAR
C015	3FMB14K-100	0.0015V	50V	W/LAR
C016	3FMB14K-100	0.0015V	50V	W/LAR
C017	3FMB14K-100	0.0015V	50V	W/LAR
C018	3FMB14K-100	0.0015V	50V	W/LAR
C019	3FMB14K-100	0.0015V	50V	W/LAR
C020	3FMB14K-100	0.0015V	50V	W/LAR
C021	3FMB14K-100	0.0015V	50V	W/LAR
C022	3FMB14K-100	0.0015V	50V	W/LAR
C023	3FMB14K-100	0.0015V	50V	W/LAR
C024	3FMB14K-100	0.0015V	50V	W/LAR
C025	3FMB14K-100	0.0015V	50V	W/LAR
C026	3FMB14K-100	0.0015V	50V	W/LAR
C027	3FMB14K-100	0.0015V	50V	W/LAR
C028	3FMB14K-100	0.0015V	50V	W/LAR
C029	3FMB14K-100	0.0015V	50V	W/LAR
C030	3FMB14K-100	0.0015V	50V	W/LAR
C031	3FMB14K-100	0.0015V	50V	W/LAR
C032	3FMB14K-100	0.0015V	50V	W/LAR
C033	3FMB14K-100	0.0015V	50V	W/LAR
C034	3FMB14K-100	0.0015V	50V	W/LAR
C035	3FMB14K-100	0.0015V	50V	W/LAR
C036	3FMB14K-100	0.0015V	50V	W/LAR
C037	3FMB14K-100	0.0015V	50V	W/LAR
C038	3FMB14K-100	0.0015V	50V	W/LAR
C039	3FMB14K-100	0.0015V	50V	W/LAR
C040	3FMB14K-100	0.0015V	50V	W/LAR
C041	3FMB14K-100	0.0015V	50V	W/LAR
C042	3FMB14K-100	0.0015V	50V	W/LAR
C043	3FMB14K-100	0.0015V	50V	W/LAR
C044	3FMB14K-100	0.0015V	50V	W/LAR
C045	3FMB14K-100	0.0015V	50V	W/LAR
C046	3FMB14K-100	0.0015V	50V	W/LAR
C047	3FMB14K-100	0.0015V	50V	W/LAR
C048	3FMB14K-100	0.0015V	50V	W/LAR
C049	3FMB14K-100	0.0015V	50V	W/LAR
C050	3FMB14K-100	0.0015V	50V	W/LAR
C051	3FMB14K-100	0.0015V	50V	W/LAR
C052	3FMB14K-100	0.0015V	50V	W/LAR
C053	3FMB14K-100	0.0015V	50V	W/LAR
C054	3FMB14K-100	0.0015V	50V	W/LAR
C055	3FMB14K-100	0.0015V	50V	W/LAR
C056	3FMB14K-100	0.0015V	50V	W/LAR
C057	3FMB14K-100	0.0015V	50V	W/LAR
C058	3FMB14K-100	0.0015V	50V	W/LAR
C059	3FMB14K-100	0.0015V	50V	W/LAR
C060	3FMB14K-100	0.0015V	50V	W/LAR
C061	3FMB14K-100	0.0015V	50V	W/LAR
C062	3FMB14K-100	0.0015V	50V	W/LAR
C063	3FMB14K-100	0.0015V	50V	W/LAR
C064	3FMB14K-100	0.0015V	50V	W/LAR
C065	3FMB14K-100	0.0015V	50V	W/LAR
C066	3FMB14K-100	0.0015V	50V	W/LAR
C067	3FMB14K-100	0.0015V	50V	W/LAR
C068	3FMB14K-100	0.0015V	50V	W/LAR
C069	3FMB14K-100	0.0015V	50V	W/LAR
C070	3FMB14K-100	0.0015V	50V	W/LAR
C071	3FMB14K-100	0.0015V	50V	W/LAR

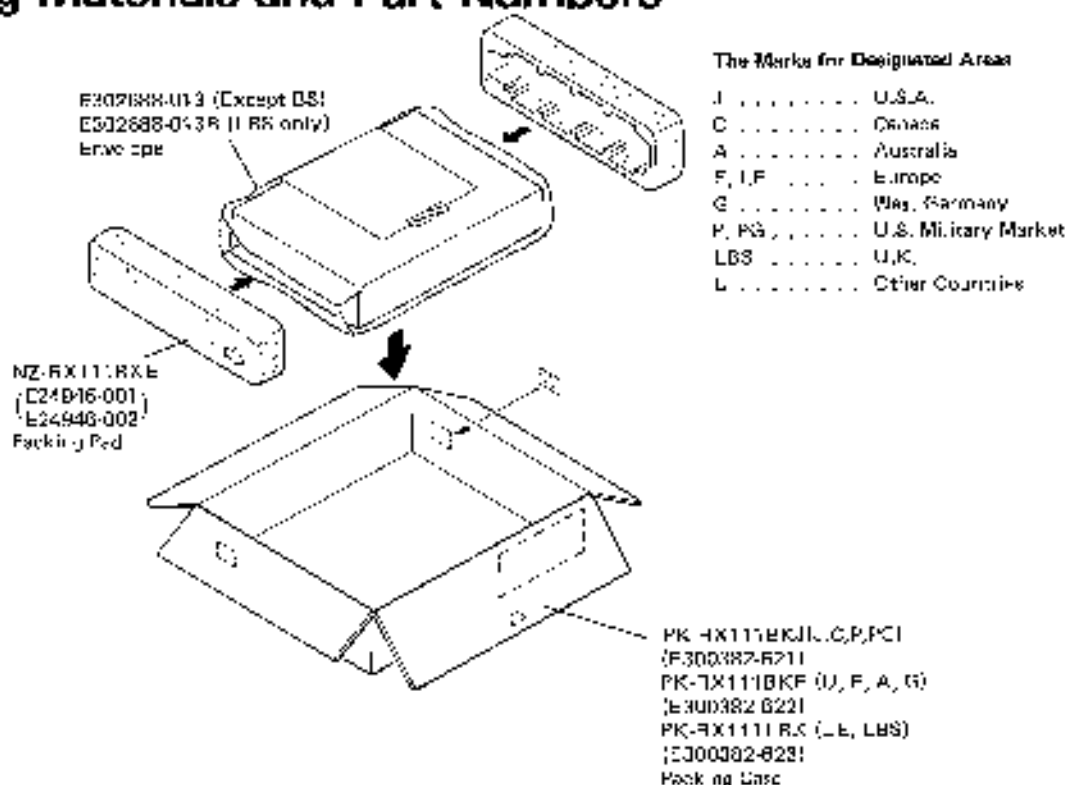
См. также: [История](#)

ITEM	PART NUMBER	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
0700	01F811FK-10A	10M	50V	ELECTRO		
0701	01F811FK-222M	220MF	50V	ELECTRO		
0702	01F811FK-475	4.7MF	50V	ELECTRO		
0703	01F811FK-475	4.7MF	50V	ELECTRO		
0704	01F811FK-475	4.7MF	50V	ELECTRO		
0705	01F811FK-475	4.7MF	50V	ELECTRO		
0706	01F811FK-475	4.7MF	50V	ELECTRO		
0707	01F811FK-475	4.7MF	50V	ELECTRO		
0708	01F811FK-475	4.7MF	50V	ELECTRO		
0709	01F811FK-475	4.7MF	50V	ELECTRO		
0710	01F811FK-475	4.7MF	50V	ELECTRO		
0711	01F811FK-475	4.7MF	50V	ELECTRO		
0712	01F811FK-475	4.7MF	50V	ELECTRO		
0713	01F811FK-475	4.7MF	50V	ELECTRO		
0714	01F811FK-475	4.7MF	50V	ELECTRO		
0715	01F811FK-475	4.7MF	50V	ELECTRO		
0716	01F811FK-475	4.7MF	50V	ELECTRO		
0717	01F811FK-475	4.7MF	50V	ELECTRO		
0718	01F811FK-475	4.7MF	50V	ELECTRO		
0719	01F811FK-475	4.7MF	50V	ELECTRO		
0720	01F811FK-475	4.7MF	50V	ELECTRO		
0721	01F811FK-475	4.7MF	50V	ELECTRO		
0722	01F811FK-475	4.7MF	50V	ELECTRO		
0723	01F811FK-475	4.7MF	50V	ELECTRO		
0724	01F811FK-475	4.7MF	50V	ELECTRO		
0725	01F811FK-475	4.7MF	50V	ELECTRO		
0726	01F811FK-475	4.7MF	50V	ELECTRO		
0727	01F811FK-475	4.7MF	50V	ELECTRO		
0728	01F811FK-475	4.7MF	50V	ELECTRO		
0729	01F811FK-475	4.7MF	50V	ELECTRO		
0730	01F811FK-475	4.7MF	50V	ELECTRO		
0731	01F811FK-475	4.7MF	50V	ELECTRO		
0732	01F811FK-475	4.7MF	50V	ELECTRO		
0733	01F811FK-475	4.7MF	50V	ELECTRO		
0734	01F811FK-475	4.7MF	50V	ELECTRO		
0735	01F811FK-475	4.7MF	50V	ELECTRO		
0736	01F811FK-475	4.7MF	50V	ELECTRO		
0737	01F811FK-475	4.7MF	50V	ELECTRO		
0738	01F811FK-475	4.7MF	50V	ELECTRO		
0739	01F811FK-475	4.7MF	50V	ELECTRO		
0740	01F811FK-475	4.7MF	50V	ELECTRO		
0741	01F811FK-475	4.7MF	50V	ELECTRO		
0742	01F811FK-475	4.7MF	50V	ELECTRO		
0743	01F811FK-475	4.7MF	50V	ELECTRO		
0744	01F811FK-475	4.7MF	50V	ELECTRO		
0745	01F811FK-475	4.7MF	50V	ELECTRO		
0746	01F811FK-475	4.7MF	50V	ELECTRO		
0747	01F811FK-475	4.7MF	50V	ELECTRO		
0748	01F811FK-475	4.7MF	50V	ELECTRO		
0749	01F811FK-475	4.7MF	50V	ELECTRO		
0750	01F811FK-475	4.7MF	50V	ELECTRO		
0751	01F811FK-475	4.7MF	50V	ELECTRO		
0752	01F811FK-475	4.7MF	50V	ELECTRO		
0753	01F811FK-475	4.7MF	50V	ELECTRO		
0754	01F811FK-475	4.7MF	50V	ELECTRO		
0755	01F811FK-475	4.7MF	50V	ELECTRO		
0756	01F811FK-475	4.7MF	50V	ELECTRO		
0757	01F811FK-475	4.7MF	50V	ELECTRO		
0758	01F811FK-475	4.7MF	50V	ELECTRO		
0759	01F811FK-475	4.7MF	50V	ELECTRO		
0760	01F811FK-475	4.7MF	50V	ELECTRO		
0761	01F811FK-475	4.7MF	50V	ELECTRO		
0762	01F811FK-475	4.7MF	50V	ELECTRO		
0763	01F811FK-475	4.7MF	50V	ELECTRO		

Heatstamps

ITEM	PART NUMBER	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
R001	GR0123K-273EM	2.7M	1/2M	COMPOSITE	1	
R501	GR0148J-203S	20K	1/4M	CARBON		
R502	GR0149J-203S	20K	1/4M	CARBON		
R503	GR0148J-362S	3.6K	1/4M	CARBON		
R504	GR0149J-362S	3.6K	1/4M	CARBON		
R505	GR0149J-472S	4.7K	1/4M	CARBON		
R506	GR0149J-472S	4.7K	1/4M	CARBON		
R507	GR0149J-921S	92K	1/4M	CARBON		
R508	GR0149J-921S	92K	1/4M	CARBON		
R509	GR0149J-921S	92K	1/4M	CARBON		
R510	GR0149J-921S	92K	1/4M	CARBON		
R511	GR0149J-921S	92K	1/4M	CARBON		
R512	GR0149J-921S	92K	1/4M	CARBON		
R513	GR0149J-921S	92K	1/4M	CARBON		
R514	GR0149J-921S	92K	1/4M	CARBON		
R515	GR0149J-921S	92K	1/4M	CARBON		
R516	GR0149J-921S	92K	1/4M	CARBON		
R517	GR0149J-921S	92K	1/4M	CARBON		
R518	GR0149J-921S	92K	1/4M	CARBON		
R519	GR0149J-921S	92K	1/4M	CARBON		
R520	GR0149J-921S	92K	1/4M	CARBON		
R521	GR0149J-921S	92K	1/4M	CARBON		
R522	GR0149J-921S	92K	1/4M	CARBON		
R523	GR0149J-921S	92K	1/4M	CARBON		
R524	GR0149J-921S	92K	1/4M	CARBON		
R525	GR0149J-921S	92K	1/4M	CARBON		
R526	GR0149J-921S	92K	1/4M	CARBON		
R527	GR0149J-921S	92K	1/4M	CARBON		
R528	GR0149J-921S	92K	1/4M	CARBON		
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R532	GR0149J-921S	92K	1/4M	CARBON		
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R541	GR0149J-921S	92K	1/4M	CARBON		
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R572	GR0149J-921S	92K	1/4M	CARBON		
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R585	GR0149J-921S	92K	1/4M	CARBON		
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R669	GR0149J-921S	92K	1/4M	CARBON		
R670	GR0149J-921S	92K	1/4M	CARBON		
R671	GR0149J-921S	92K	1/4M	CARBON		
R672	GR0149J-921S	92K	1/4M	CARBON		
R673	GR0149J-921S	92K	1/4M	CARBON		
R674	GR0149J-921S	92K	1/4M	CARBON		
R675	GR0149J-921S	92K	1/4M	CARBON		
R676	GR0149J-921S	92K	1/4M	CARBON		
R677	GR0149J-921S	92K	1/4M	CARBON		
R678	GR0149J-921S	92K	1/4M	CARBON		
R679	GR0149J-921S	92K	1/4M	CARBON		
R680	GR0149J-921S	92K	1/4M	CARBON		
R681	GR0149J-921S	92K	1/4M	CARBON		
R682	GR0149J-921S	92K	1/4M	CARBON		
R683	GR0149J-921S	92K	1/4M	CARBON		
R684	GR0149J-921S	92K	1/4M	CARBON		
R685	GR0149J-921S	92K	1/4M	CARBON		
R686	GR0149J-921S	92K	1/4M	CARBON		
R687	GR0149J-921S	92K	1/4M	CARBON		
R688	GR0149J-921S	92K	1/4M	CARBON		
R689	GR0149J-921S	92K	1/4M	CARBON		
R690	GR0149J-921S	92K	1/4M	CARBON		
R691	GR0149J-921S	92K	1/4M	CARBON		
R692	GR0149J-921S	92K	1/4M	CARBON		
R693	GR0149J-921S	92K	1/4M	CARBON		
R694	GR0149J-921S	92K	1/4M	CARBON		
R695	GR0149J-921S	92K	1/4M	CARBON		
R696	GR0149J-921S	92K	1/4M	CARBON		
R697	GR0149J-921S	92K	1/4M	CARBON		
R698	GR0149J-921S	92K	1/4M	CARBON		
R699	GR0149J-921S	92K	1/4M	CARBON		
R700	GR0149J-921S	92K	1/4M	CARBON		
R701	GR0149J-921S	92K	1/4M	CARBON		
R702	GR0149J-921S	92K	1/4M	CARBON		
R703	GR0149J-921S	92K	1/4M	CARBON		
R704	GR0149J-921S	92K	1/4M	CARBON		
R705	GR0149J-921S					

I. Packing Materials and Part Numbers



J. Accessories List

Part Number	Part Name	Description	Areas
E30680-1295A	Instruction Book		Except LBS
E30680-1295ADS	Instruction Book		LBS only
E120025H	Warranty Card		C
E120048R	Warranty Card		P, PG, J
BT20029C	Warranty Card		A
BT20054	Warranty Card		G
BT20080	Warranty Card		BS
E120071A	Service Card		C, J
BT20016D	Service Information Card		J, P, PG
E120066	EEC Agency		G, LBS
BT20051-009A	ETZ Information Sheet		G
BT20017E	Safety Information		J
E66418-003	Envelope		J
E35497-013	Caut ion Sheet	110V	P
E35497-015	Caut ion Sheet	220V	U, PG
E03614-004	Bit-ir Antenna		Except G
E87007-001	Wire Antenna Ass'y		G
FDR4001-302	Bit Antenna Con.		
E04056	Siemens Plug		U, PG
QWFB1A2-1R63	Fuse		U, PG
QWFB1A2-H90	Fuse		P
QPGAC05-00703	Envelope		J, P, PG
E41202-2	Envelope		Except LBS
F41202-23	Envelope		LBS

⚠ Safety parts

JVC**SERVICE MANUAL****MODEL No. RX-150BK/RX-150LBK**

This unit is almost the same as the RX-111BK/RX-111LBK.
The differences are listed herein.
When using this Service Manual, refer to the previously published
RX-111BK/RX-111LBK Service Manual (No. 2871, Nov. 1985).

Note: The marks for Designated Areas

J ----- U.S.A.	EA8 ----- Europe
C ----- Canada	L2S ----- U.K.
A ----- Australia	P,PG ----- U.S. Military Market
G ----- West Germany	U ----- Other Countries
	No mark indicates all areas.

New Parts**1. Printed Circuit Board Ass'y and Parts List**

Refer to page 2-10 in the RX-111BK/LBK Service Manual.

Parts Name	Item No.	Parts Number		Area
		RX-111BK/LBK	RX-150BK/LBK	
Audio PCB Ass'y		ENB-055H	ENH-092A	J
		ENB-055J	ENH-092B	C
		ENB-055J	ENH-092C	L, P, PG
		ENB-055K	ENH-092D	E, LE
		ENB-055L	ENH-092E	LBS
		ENB-055N	ENH-092F	G
		ENB-055N	ENH-092G	A
Headphone Jack	P901	QMS6302 128	QMS6302 133	

2. Exploded View Parts List

Refer to page 2-3 in the RX-111BK/LBK Service Manual.

Parts Name	Item No.	Parts Number		Areas
		RX-111BK/LBK	RX-150BK/LBK	
Front Panel Ass'y	1	-----	EFP-RX150BKJ	J, C, U, P, PG
		EFP-RX111BKE	EFP-RX150BKE	E, A, G
		EFP-RX111LBKE	EFP-RX150LBKE	LE, LBS
Front Plate	1-4	E24942-014	E24942-017	E, A, G
		E24942-015	E24942-018	LE, LBS
		E24942-016	E24942-019	J, C, U, P, PG
Window Screen	1-5	E303676-005	E303676-006	
Indicator Sheet	1-6	E303678-005	E303678-006	
Front Base	1-7	E11083-003	E11083-005	J, C, U, P, PG, E, A, G
		E11083-004	E11083-006	LE, LBS
Front Panel	1-8	E24940-011	E24940-013	J, C, U, P, PG, E, A, G
		E24940-012	E24940-014	LE, LBS
Metal Cover	23	E24633-003	E24633-005	
Rear Panel	34	E24944-010	E24944-014	J, C
		E24944-011	E24944-015	U, P, PG
		E24944-012	E24944-016	E, A, LE, LBS
		E24944-013	E24944-017	G

3. Packing Materials Parts List

Refer to page 2-13 in the RX-111BK/LBK Service Manual.

Parts Name	Item No.	Parts Number		Areas
		RX-111BK/LBK	RX-150BK/LBK	
Packing Case	1	PK-RX111BKJ (E300382-621)	PK-RX150BKJ (E300382-711)	J, C, P, PG
		PK-RX111BKE (E300382-622)	PK-RX150BKE (E300382-712)	U, E, A, G
		PK-RX111LBK (E300382-623)	PK-RX150LBK (E300382-713)	LE, LBS

4. Accessories Parts List

Refer to page 2-13 in the RX-111BK/LBK Service Manual.

Parts Name	Parts Number		Areas
	RX-111BK/LBK	RX-150BK/LBK	
Instruction Book	E30580-1295A	E30580-1369A	J, C, U, P, PG, E, A, G, LE
	E30580-1295ABS	E30580-1369ABS	LBS

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION, YAMATO PLANT, 1044, SHIMOTSURIMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN