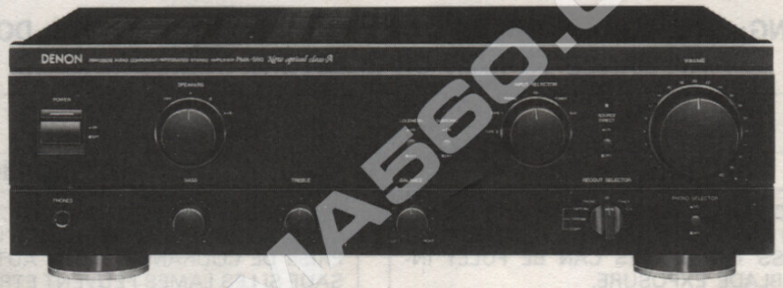
DENON

Hi-Fi Pre-Main Amplifier

SERVICE MANUAL

MODEL PMA-560

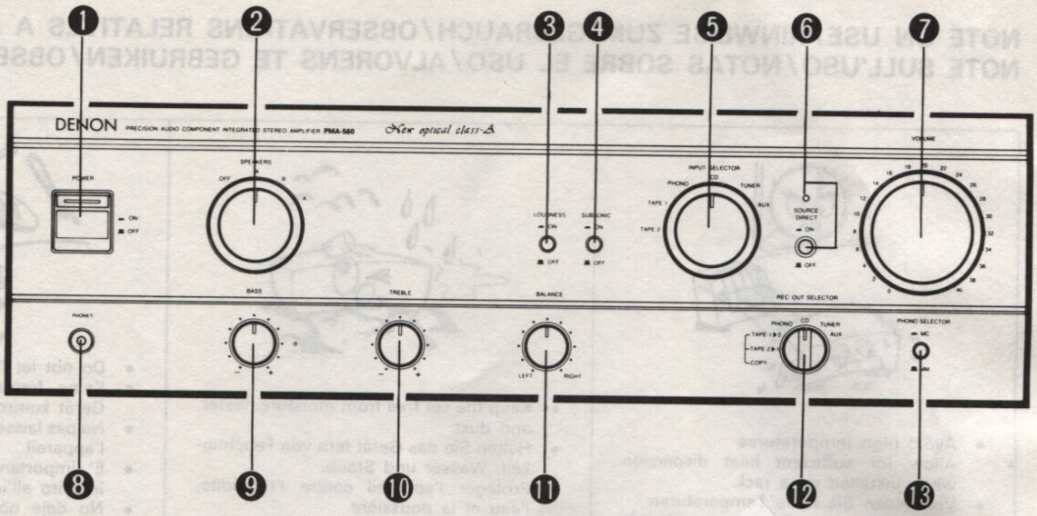
INTEGRATED STEREO AMPLIFIER



CONTENTS

NIPPON COLUMBIA CO., LTD.

FRONT PANEL
FRONTPLATTE
PANNEAU AVANT



BACK PANEL
RÜCKWAND
PANNEAU ARRIERE

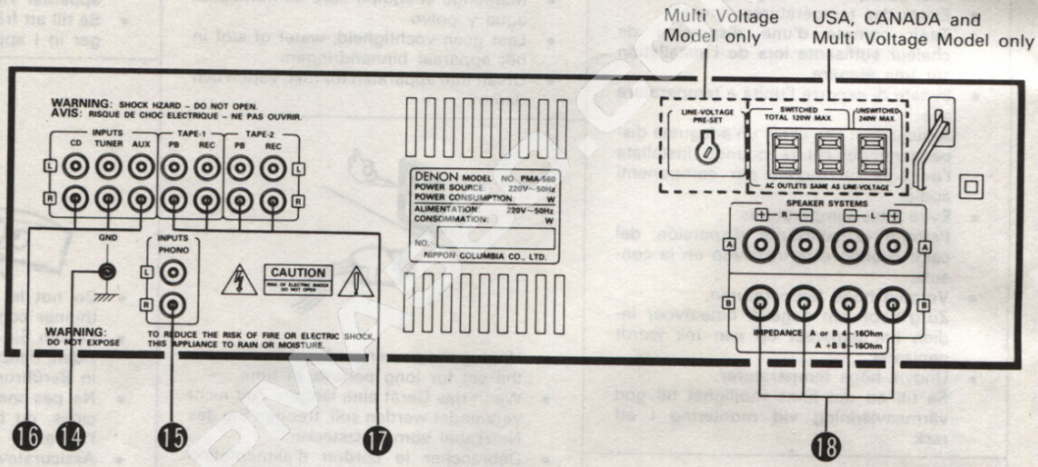
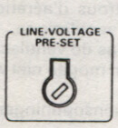


Fig. 1
Abb. 1

⓮ GND	⓯ PHONO	⓰ CD, TUNER, AUX	⓱ TAPE-1, TAPE-2 • TAPE PB • TAPE REC	⓲ SPEAKERS
GND	Phono Input Terminals	Input Terminals	Playback and Recording Terminals • Playback Terminals • Recording Terminals	Speaker Terminal
GND	Schallplattenspieler-Eingangsbuchsen	Eingangsbuchsen CD, TUNER, AUX	Tonband-Ein/Ausgänge • Wiedergabe • Aufnahme	Lautsprecherklemmen
GND	Bornes d'entrée phono	Bornes d'entrée	Bornes de lecture et d'entregistrement • Bornes de lecture • Bornes dénregistrement	Borness de haut-Parleurs

- **AC OUTLETS . . . For U.S.A., Canada and Multi-voltage models.** AC outlets are used for connecting amplifier component units, such as tuner, turntable, tape deck, etc.
  - SWITCHED (Total capacity: 120 W): These outlets are turned ON/OFF when main power switch is turned on/off.
  - UNSWITCHED (Capacity: 240 W) This outlet is always ON whether power switch is on or OFF.
- **LINE VOLTAGE (Voltage select switch) . . . For Multi-voltage model only.**
  - * The desired voltage may be set with the VOLTAGE SELECTOR KNOB on the back panel using a screw driver.
  - * Do not twist the VOLTAGE SELECTOR KNOB with excessive force. It may be damaged.
  - * If the voltage select switch does not turn smoothly, see qualified serviceman.



- **Sorties CA . . . Pour les E.U., le Canada et les modèles multi-tension.** Les AC OUTLETS (sorties CA) peuvent être utilisées pour enficher des cordons d'alimention d'appareils connectés à l'ampli, tels que tuner, lecteur de disque ou magnétophone.
  - SWITCHED (en circuit) (Capacité max: 120 W) Cette alimentation sont commandées par l'interrupteur d'alimentation principal (POWER), et ouvertes (ON) et coupées (OFF) par cet interrupteur.
  - UNSWITCHED (hors circuit) (Capacité max.: 240 W) Ces alimentations n'est pas connectée è l'interrupteur (POWER).

CONNECTIONS
ANSCHLÜSSE
CONNEXIONS

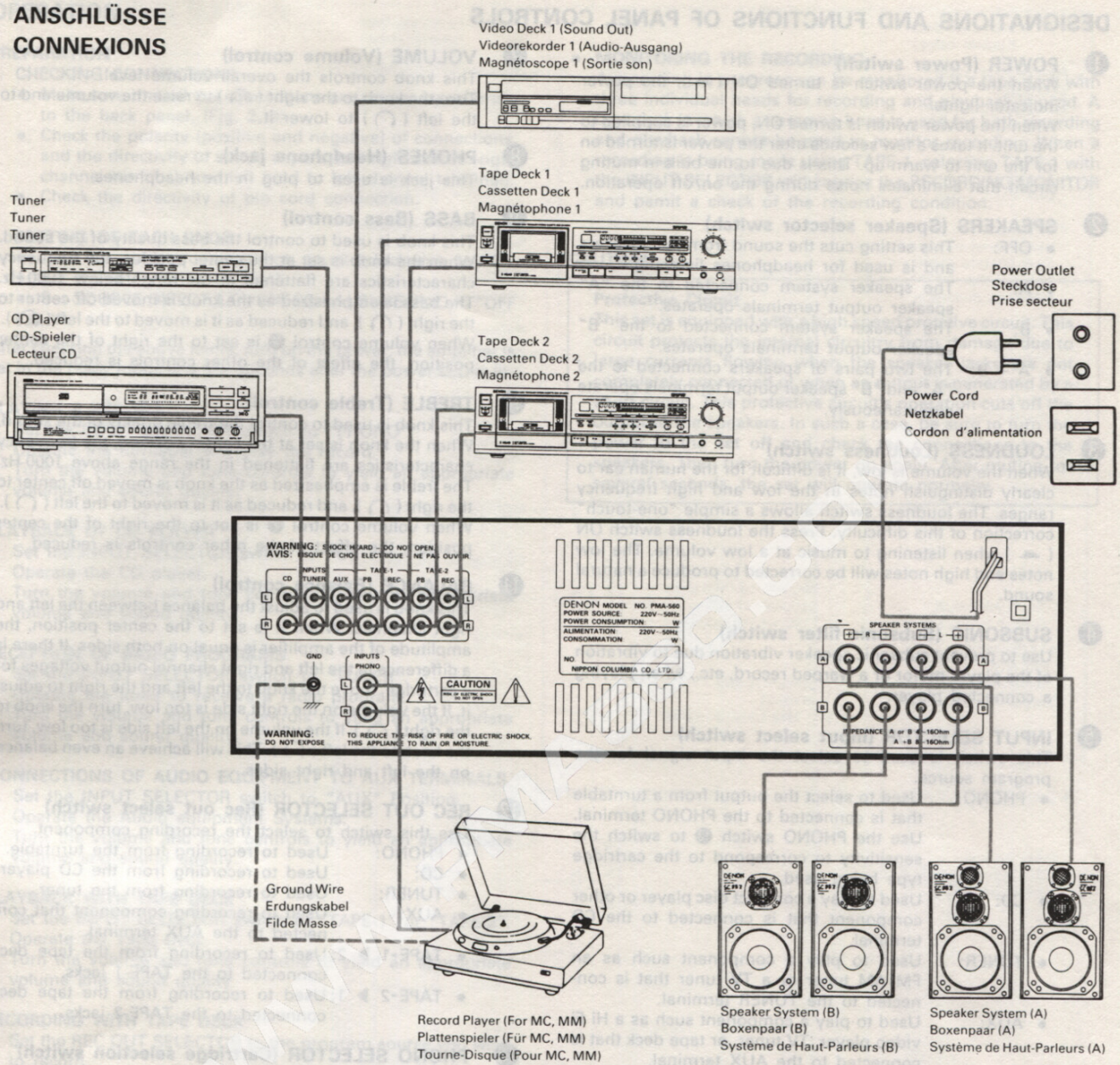


Fig. 2
Abb. 2

Connection to the Speaker System
Anschluß der Lautsprecheranlage
Connexion du système de haut-Parleurs

1. Peel off the sheathing from the end of the cord.
2. Twist the wire strands.
3. Loosen the speaker terminal, insert the wire lead portion of the code, and then tighten the terminal.

1. Ein Stück der Isolierung am Kabelende wegschneiden.
2. Den Litzendraht zusammendrehen.
3. Die Lautsprecherklemme lösen, das bloßliegende Drahtende einführen und durch Anziehen der Klemme gut einklemmen.

1. Dénuder la gaine de l'extrémité du cordon.
2. Torsader les fils de cordon.
3. Desserrer la borne du haut-parleur, insérer l'extrémité du fil du cordon, puis serrer la borne.

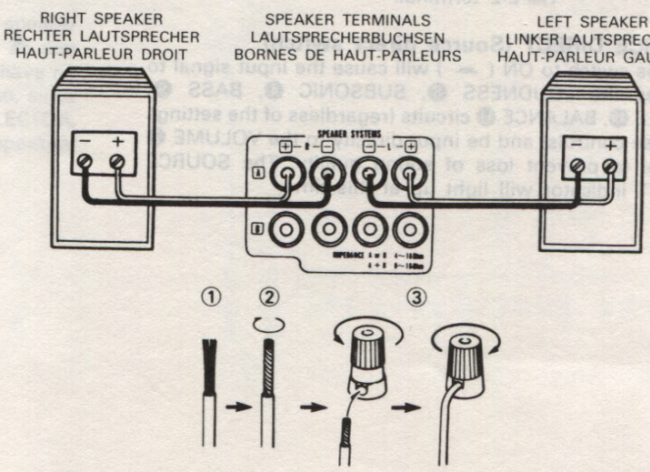


Fig. 3
Abb. 3

DESIGNATIONS AND FUNCTIONS OF PANEL CONTROLS

❶ POWER (Power switch)
When the power switch is turned ON (▬), the power indicator lights.
When the power switch is turned ON, power is supplied to the unit. It takes a few seconds after the power is turned on for the unit to warm up. This is due to the built-in muting circuit that eliminates noise during the on/off operation.

❷ SPEAKERS (Speaker selector switch)
- OFF: This setting cuts the sound from the speakers and is used for headphones listening.
- A: The speaker system connected to the "A" speaker output terminals operates.
- B: The speaker system connected to the "B" speaker output terminals operates.
- A + B: The two pairs of speakers connected to the "A" and "B" speaker output terminals operate simultaneously.

❸ LOUDNESS (Loudness switch)
When the volume is low, it is difficult for the human ear to clearly distinguish notes in the low and high frequency ranges. The loudness switch allows a simple "one-touch" correction of this difficulty. Press the loudness switch ON (▬) when listening to music at a low volume. The low notes and high notes will be corrected to produce a natural sound.

❹ SUBSONIC (Subsonic filter switch)
Use to prevent subsonic speaker vibration due to vibration of the player motor or a warped record, etc., when playing a connected player.

❺ INPUT SELECTOR (Input select switch)
This switch is used to select the input signal for the program source.
- PHONO: Used to select the output from a turntable that is connected to the PHONO terminal. Use the PHONO switch ⓭ to switch the sensitivity to correspond to the cartridge type being used.
- CD: Used to play a compact disc player or other component that is connected to the CD terminal.
- TUNER: Used to play a component such as an FM/AM tuner or a TV tuner that is connected to the TUNER terminal.
- AUX: Used to play a component such as a Hi Fi video player, TV tuner, or tape deck that is connected to the AUX terminal.
- TAPE-1 / TAPE-2: Used to play a tape deck or other component that is connected to the TAPE-1 or TAPE-2 terminal.

❻ SOURCE DIRECT (Source direct switch)
Set this switch to ON (▬) will cause the input signal to by-pass the LOUDNESS ❸, SUBSONIC ❹, BASS ❾, TREBLE ❿, BALANCE ⓫ circuits (regardless of the settings of these controls) and be input direclty to the VOLUME ❼ control to prevent loss of sound quality. The SOURCE DIRECT indicator will light up at this time.

❼ VOLUME (Volume control)
This knob controls the overall volume level.
Turn the knob to the right (↷) to raise the volume and to the left (↶) to lower it.

❽ PHONES (Headphone jack)
This jack is used to plug in the headphones.

❾ BASS (Bass control)
This knob is used to control the bass quality of the sound. When the knob is set at the center position, the frequency characteristics are flattened in the range below 1000 Hz. The bass is emphasized as the knob is moved off center to the right (↷), and reduced as it is moved to the left (↶). When volume control ❼ is set to the right of the center position, the effect of the other controls is reduced.

❿ TREBLE (Treble control)
This knob is used to control the treble quality of the sound. When the knob is set at the center position, the frequency characteristics are flattened in the range above 1000 Hz. The treble is emphasized as the knob is moved off center to the right (↷), and reduced as it is moved to the left (↶). When volume control ❼ is set to the right of the center position, the effect of the other controls is reduced.

⓫ BALANCE (Balance control)
This knob is used to adjust the balance between the left and right channels. When it is set to the center position, the amplitude of the amplifier is equal on both sides. If there is a difference in the left and right channel output voltages for a cartridge, move the knob to the left and the right to adjust it. If the volume on the right side is too low, turn the knob to the right (↷). If the volume on the left side is too low, turn the knob to the left (↶). This will achieve an even balance on the left and right sides.

⓬ REC OUT SELECTOR (Rec out select switch)
Use this switch to select the recording component.
- PHONO: Used to recording from the turntable.
- CD: Used to recording from the CD player.
- TUNER: Used to recording from the tuner.
- AUX: Used to recording component that connected to the AUX terminal.
- TAPE-1 ▶ 2: Used to recording from the tape deck connected to the TAPE-1 jacks.
- TAPE-2 ▶ 1: Used to recording from the tape deck connected to the TAPE-2 jacks.

⓭ PHONO SELECTOR (Cartridge selection switch)
This switch is set according to the type of player cartridge to be used.
- MC (▬): Used when an MC (moving-coil) cartridge with an output of less than 0.5 mV is used.
- MM(▬): Used when an MM (moving-magnet) cartridge with an output of 2 mV or more is used.

OPERATION

PREPARATION

1. CHECKING CONNECTIONS

- Make sure that all the connections are proper by referring to the back panel. (Fig. 2, 3)
- Check the polarity (positive and negative) of connections, and the directivity of stereo separation (right cord to right channel terminal, and left cord to left channel terminal).
- Check the directivity of pin cord connection.

2. SETTING OF EACH KNOB

- Turn the volume control knob counterclockwise, to "0".
- Set the rotary knob to "flat".
- Set SOURCE DIRECT, LOUDNESS and SUBSONIC to "OFF (■)".

After checking the above items, turn on the power, the amplifier is set in the ready mode in a few seconds after the power LED is lit.

PLAYING A RECORD

1. Set the INPUT SELECTOR switch to "PHONO".
2. Operate the turntable and play the record.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK OF CD PLAYER

1. Set the INPUT SELECTOR switch to "CD".
2. Operate the CD player.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECEPTION OF RADIO PROGRAMS

1. Set the INPUT SELECTOR switch to "TUNER".
2. Operate the tuner to receive a radio program.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

CONNECTIONS OF AUDIO EQUIPMENT TO AUX TERMINALS

1. Set the INPUT SELECTOR switch to "AUX" Position.
2. Operate the Audio equipment Systems.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK WITH TAPE DECK

1. Set the INPUT SELECTOR switch to "TAPE-1" or "TAPE-2".
2. Operate the Tape Deck.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECORDING WITH TAPE DECK

1. Set the REC OUT SELECTOR to the program source you wish to record.
2. Start the playback of the program source.
3. Start recording with the component connected to "TAPE-1" or "TAPE-2".

- In the PMA-560, the REC OUT signal and the speaker (headphone) signal are output via separate circuits so that knobs and switches related to the tone and volume have no effect whatsoever on the sound that is recorded. Also, since the recording funtion is selected by the REC OUT SELECTOR, the free program source can be played through the speakers (or headphones) even during recording.

- **MONITORING THE RECORDING**
  A recording in progress can be monitored if a tape deck with three individual heads for recording and playback is used. A tape deck in which a common head is used for both recording and playback cannot be used to monitor recording. When a recording is being made using TAPE-1, selecting TAPE-1 with the INPUT SELECTOR will engage the RECORDING MONITOR and pemit a check of the recording condition.

CAUTION

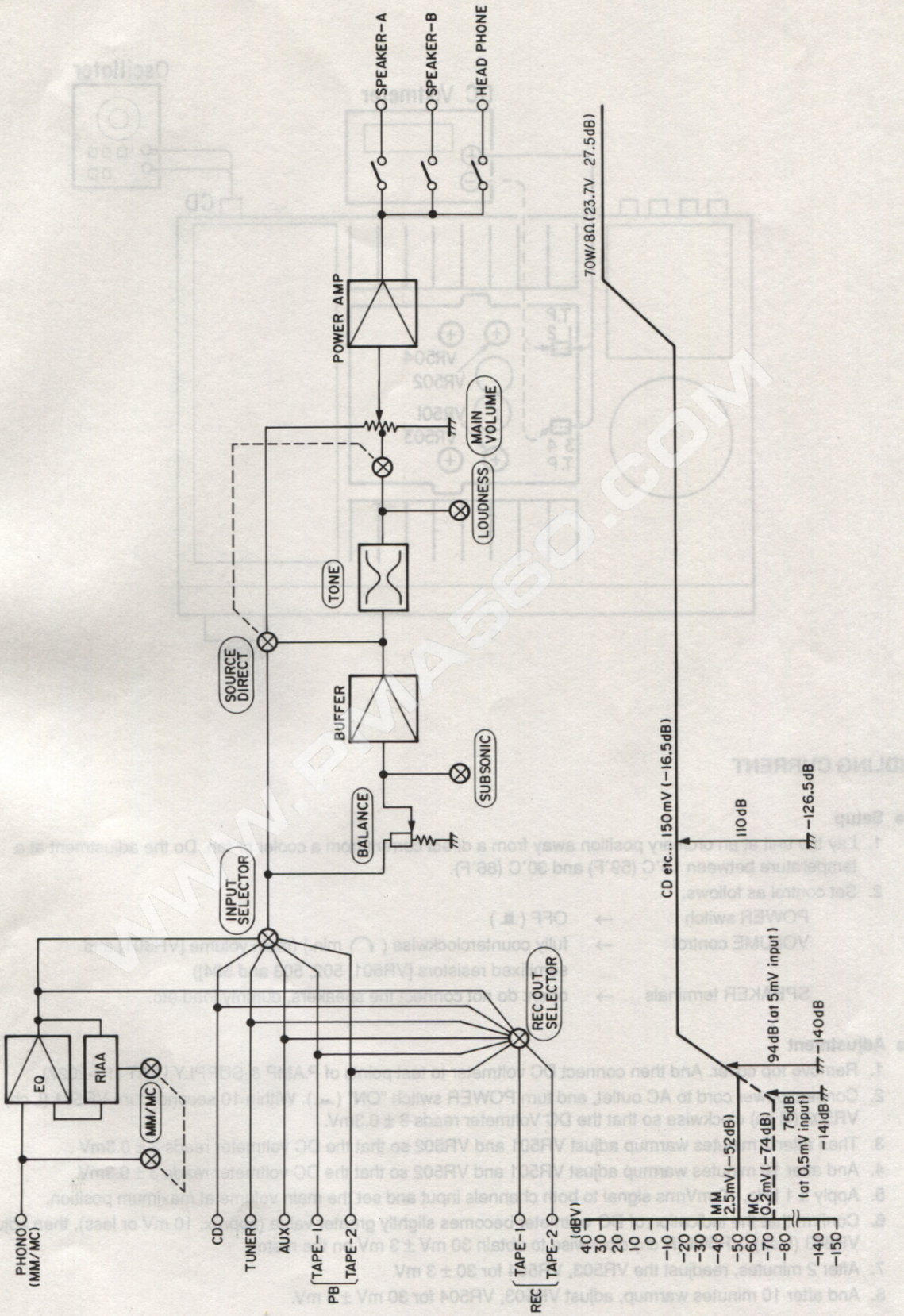
Protective Circuit
This set is equipped with a high speed protctive circuit. This circuit protects the internal circuitry from damage due to large currents flowing when the speaker jacks are not completely connected or when an output is generated by a short circuit. This protective circuit's operation cuts off the output to the speakers. In such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again. After muting for several seconds, the set will operate normally.

Technical Data (typical value)		Technical Data (typical value)	
• **POWER AMPLIFIER SECTION**		• **OVERALL CHARACTERISTICS**	
Rated Output Power:		**SN Ratio (IHF A Network):**	PHONO:
*1Both channel drive (8 ohm Load) 20 Hz to 20 kHz,	70W + 70W T.H.D. 0.015%		MM: 94 dB (at 5 mV input) MC: 75 dB (at 0.5 mV input)
(4 ohm Load) DIN, 1 kHz, T.H.D. 0.7%	110W + 110W	(input terminals short-circuited) SOURCE-DIRECT: ON	CD, TUNER, AUX TAPE-1, TAPE-2: 110 dB
*2Continuous 70 W per channel min into 8 ohms from 20 Hz to 20 kHz with no more than 0.015% total harmonic distortion		**Tone Control Adjustable Range:**	
		BASS	100 Hz ± 8 dB
		TREBLE	10 kHz ± 8 dB
		Loudness:	100 Hz + 7 dB 10 kHz + 6 dB
Total Harmonic Distortion: (–3 dB at rated output, 8 ohms)	0.008%	**Subsonic Filter:**	16 Hz, 12 dB / oct.
• **PRE AMPLIFIER SECTION**		• **OTHERS**	
Rated Output: (Recout Terminal)	150 mV	**Power Supply**	AC220V/50 Hz, 240V/50 Hz AC 120 V/60 Hz AC 110/120/220/240 V, 50/60 Hz
Input Sensitivity/ Input Impedance: The value in parentheses ( ) refers to the input impedance when SOURCE DIRECT is ON.		**AC Outlets**	
		*2Switched×2:	120W (Total)
		Unswitched×1:	240W
PHONO:	MM 2.5 mV / 47 kohm MC 200 μ V / 100 ohm	**Power Consumption**	220W (IEC) 3.9A (U.S.A. and Canada) 169W (Multi-Voltage)
CD, TUNER AUX TAPE-1, TAPE-2:	150 mV / 47 kohm (150 mV / 10 kohm)	**Dimensions (W)×(H)×(D)**	434(W)×140(H)×353(D)mm (17-3/32"×5-1/2"× 13-57/64")
RIAA Deviation:		**Net Weight**	7.7 kg (16 lbs 16 oz)
PHONO: Within ±0.3 dB	20 Hz~20 kHz		
Maximum Input:	PHONO MM 160 mV / 1 kHz MC 12 mV / 1 kHz		

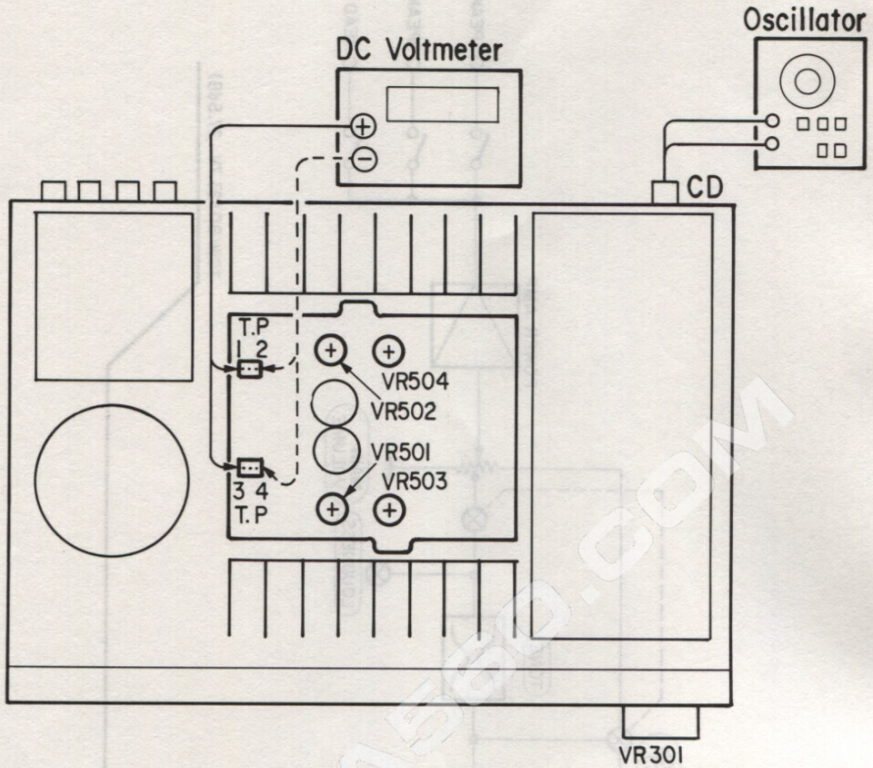
• Specifications and contents are subject to change without notice for purposes of improvement.

*1 For Europe
*2 For U.S.A. Canada and Multi-Voltage

BLOCK, LEVEL DIAGRAM



METHOD OF ADJUSTMENTS



IDLING CURRENT

- **Setup**

1. Lay the unit at an ordinary position away from a direct current from a cooler or fan. Do the adjustment at a temperature between 15°C (59°F) and 30°C (86°F).
2. Set control as follows.

POWER switch	→	OFF (⏻)
VOLUME control	→	fully counterclockwise (↺ min.) (main volume [VR301] and semifixed resistors [VR501, 502, 503 and 504])
SPEAKER terminals	→	open: do not connect the speakers, dummy load etc.

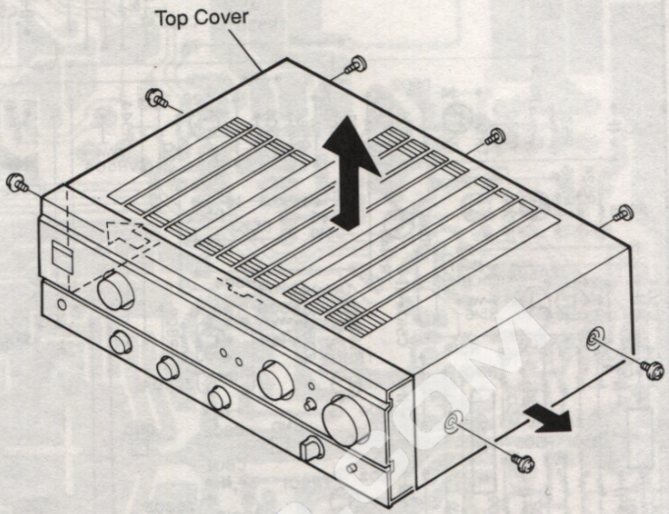
- **Adjustment**

1. Remove top cover. And then connect DC voltmeter to test points of P.AMP & SUPPLY UNIT (1U-2027).
2. Connect power cord to AC outlet, and turn POWER switch "ON" (⏻). Within 10 seconds turn VR501 (L ch) and VR502 (R ch) clockwise so that the DC Voltmeter reads 3 ± 0.3mV.
3. Then after 2 minutes warmup adjust VR501 and VR502 so that the DC voltmeter reads 3 ± 0.3mV .
4. And after 10 minutes warmup adjust VR501 and VR502 so that the DC voltmeter reads 3 ± 0.3mV.
5. Apply a 1 kHz, 10 mVrms signal to both channels input and set the main volume at maximum position.
6. Confirm that the indication of DC voltmeter becomes slightly greater value (approx. 10 mV or less), then adjust the VR503 (L ch), VR504 (R ch) clockwise to obtain 30 mV ± 3 mV on the meter.
7. After 2 minutes, readjust the VR503, VR504 for 30 ± 3 mV.
8. And after 10 minutes warmup, adjust VR503, VR504 for 30 mV ± 3 mV.

REMOVAL OF EACH SECTION

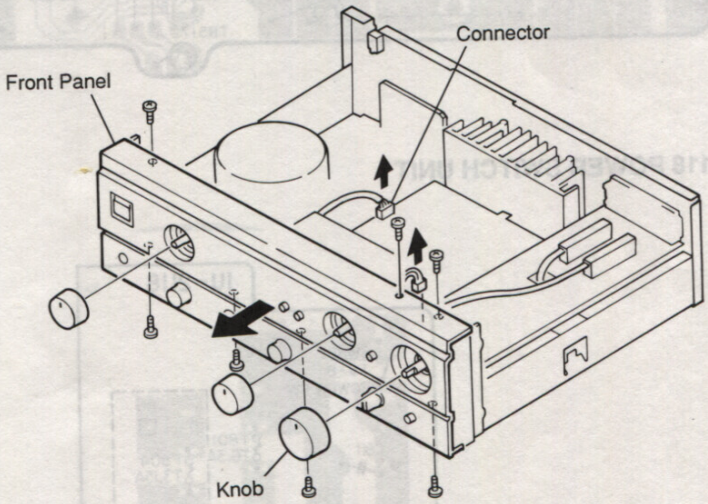
1. Top Cover

Remove 7 screws, then detach Top Cover as the arrow shows with opening the Cover a little laterally.



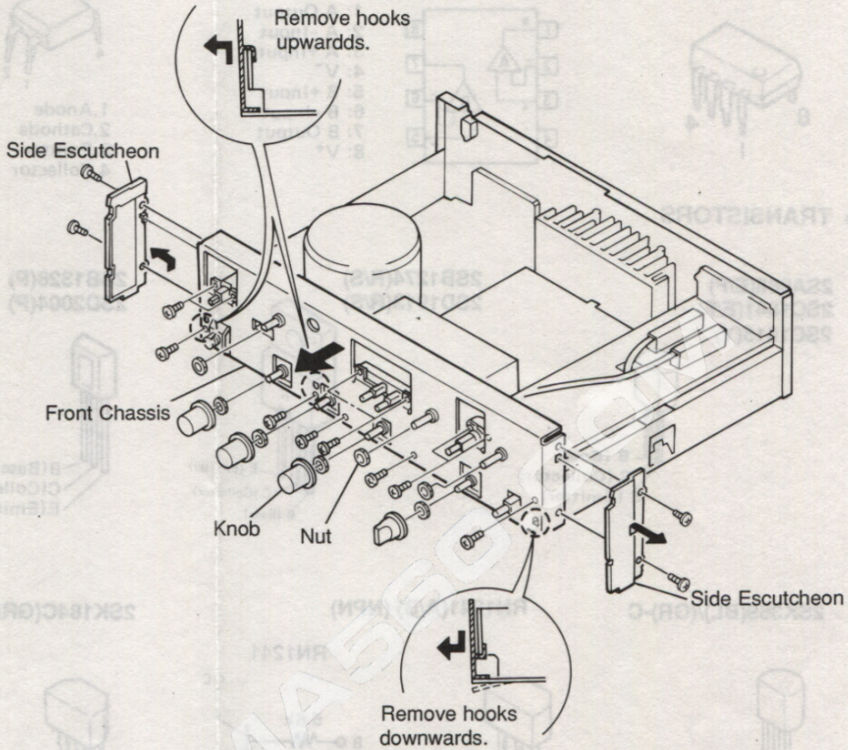
2. Front Panel

Remove 3 knobs, 2 Connectors and 7 screws, then detach the Front Panel as arrow shows.



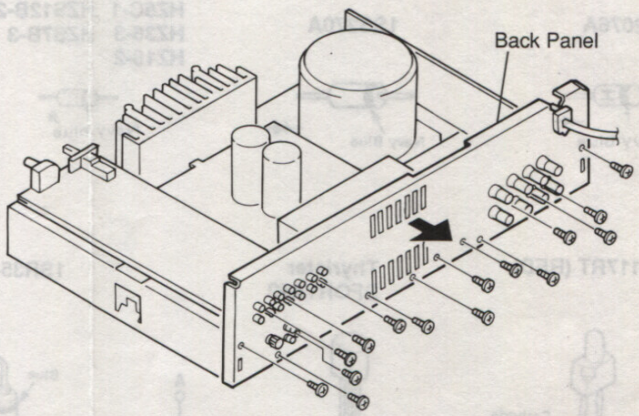
3. Front Chassis

Remove Knobs, Nuts and Side escutcheons, and remove 15 screws. Remove 3 hooks, then detach the Front Chassis as arrow shows.



4. Back Panel

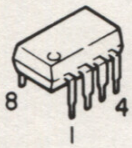
Remove 15 screws, then detach the Back Panel as the arrow shows.



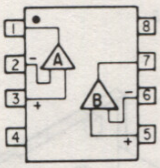
SEMICONDUCTORS

• IC's

NJM4558DD
NJM2082D
M5218AP

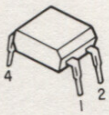


(Top View)

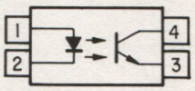


1: A Output
2: A -Input
3: A +Input
4: V^-
5: B +Input
6: B -Input
7: B Output
8: V^+

TLP521-1(BL)
INFRARED LED + PHOTO TRANSISTOR

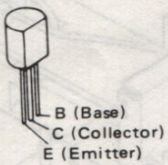


1.Anode
2.Cathode
3.Emitter
4.Collector

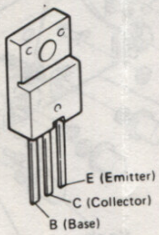


• TRANSISTORS

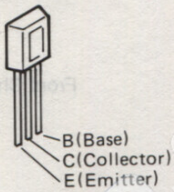
2SA988(E/F)
2SC1841(E/F)
2SC1815(Y)



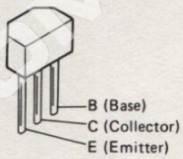
2SB1274(R/S)
2SD1913(R/S)



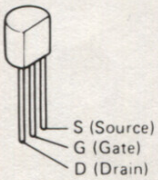
2SB1328(P)
2SD2004(P)



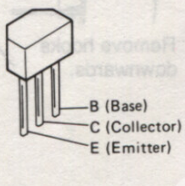
2SC2458(BL)
2SA1048(GR)



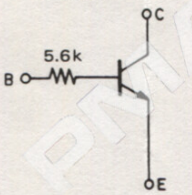
2SK369(BL)/(GR)-C



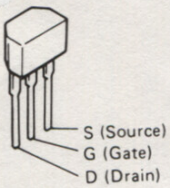
RN1241(A/B) (NPN)



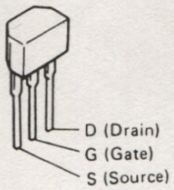
RN1241



2SK184C(GR/BL)



2SK381(C)



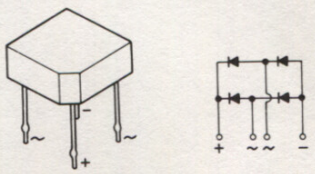
• DIODES (including LED)

1S2076A

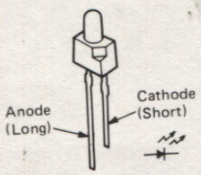
1SS270A

HZ5C-1 HZS12B-2
HZ36-3 HZS7B-3
HZ18-2

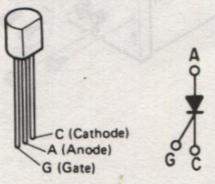
S4VB20



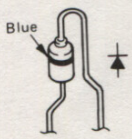
SEL-4117RT (RED)



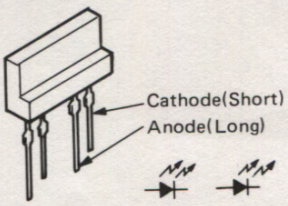
Thyrister
SFOR1A42



1SR35-200A

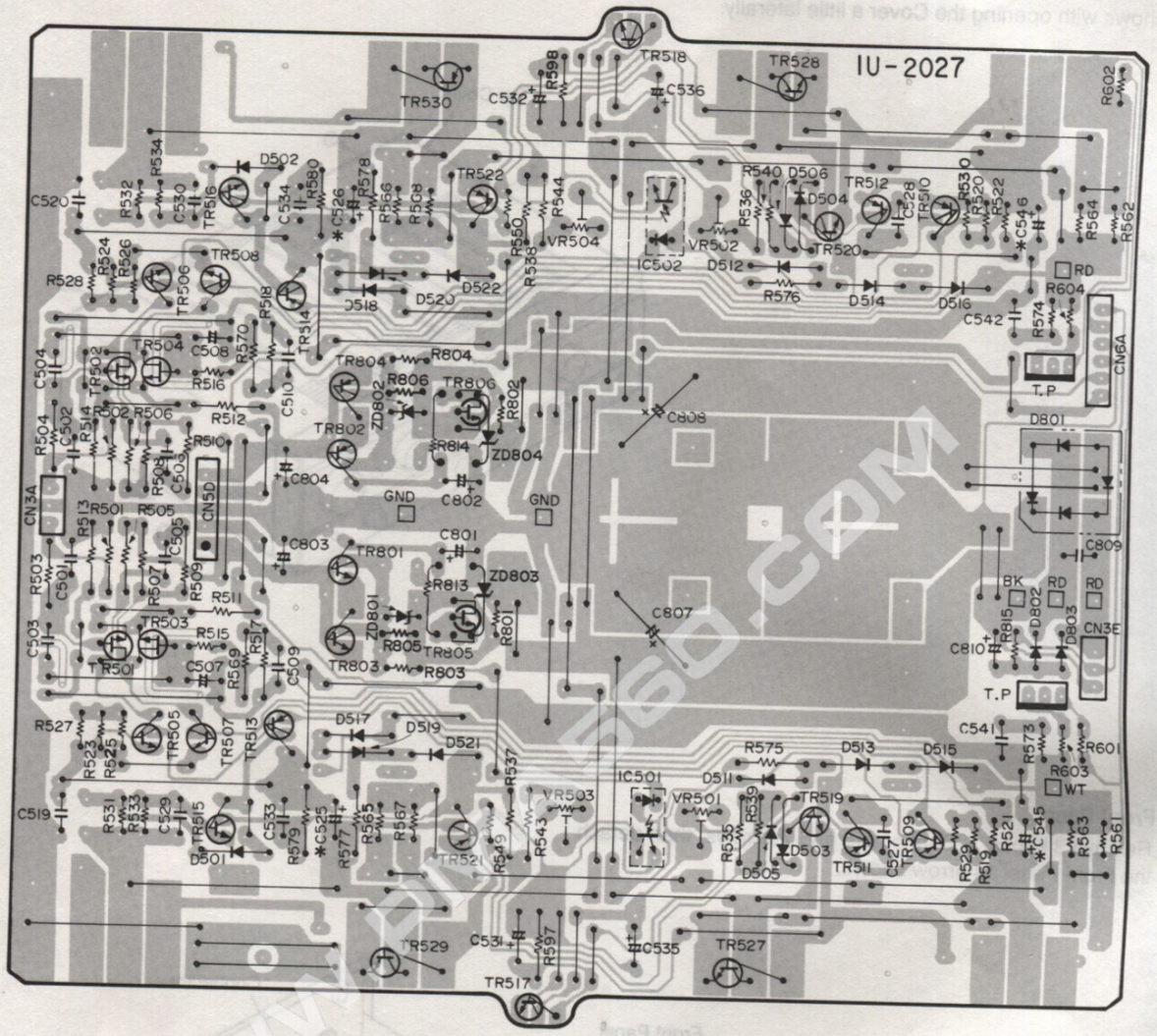


LED
SLP-171E

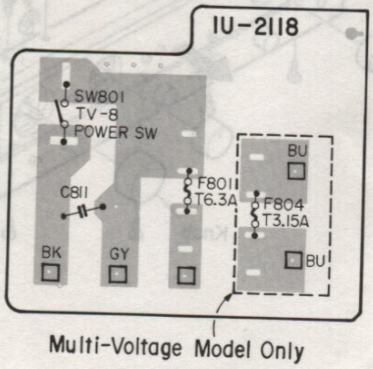


PRINTED WIRING BOARD

1U-2027 P. AMP & SUPPLY UNIT

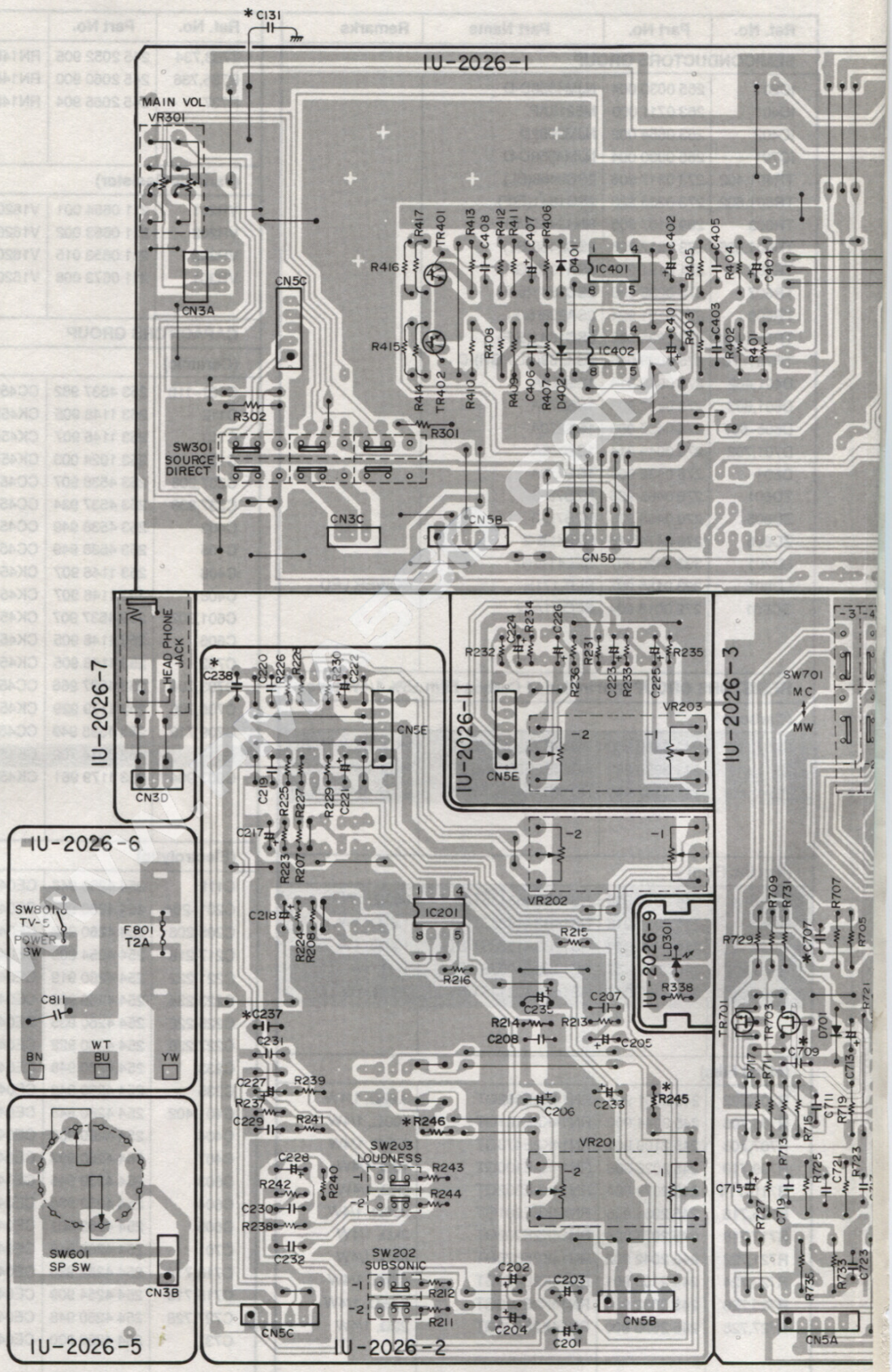


1U-2118 POWER SWITCH UNIT



Multi-Voltage Model Only

1U-2026 INPUT & CONTROL UNIT



IU-2026-3
IU-2026-4
IU-2026-8
CN5A
CN3F
SW102
INPUT
SELECTOR
SW101
REC OUT
SELECTOR
CD
TUNER
AUX
PB
TAPE 1
REC
TAPE 1
PB
TAPE 2
REC
TAPE 2
PHONO
SW701
MC
MW
IC701
CN3D
CN3B
CN6A
RL603
RL601
RL602
SPEAKER
TERMINALS
L-A
L-B
R-A
R-B
CN2A

NOTE ON PARTS LIST

- Part indicated with the mark " ⊙ " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

• Resistors

Ex.: RN (Type) 14K (Shape and performance) 2E (Power) 182 (Resistance) G (Allowable error) FR (Others)

RD : Carbon RC : Fixed RS : Metallic film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/4W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse resistor F : Lead wire forming

Resistance
1 8 2 ⇨ 1800Ω = 1.8kΩ
- 2-digit effective number, decimal point indicated by R.
- Indicates number of zeros after effective number
- Units: Ω

• Capacitors

Ex.: CE (Type) 04W (Shape and performance) 1H (Dielectric strength) 2R2 (Capacity) M (Allowable error) BP (Others)

CE : Aluminum foil electrolyte CA : Aluminum solid electrolyte CS : Tantalum electrolyte CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For charge and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

Capacity
2 R 2 ⇨ 2.2μF
- 1-digit effective number, decimal point indicated by R.
- 2-digit effective number, decimal point indicated by R.
- Units: μF, (for P, pF (μμF)
- When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PRINTED WIRING BOARD PARTS LIST
1U-2026A INPUT & CONTROL UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC201	265 0030 004	NJM4558D-D	
IC401	263 0711 000	M5218AP	
IC402	263 0654 002	NJM2082D	
IC701	265 0030 004	NJM4558D-D	
TR401,402	273 0317 906	2SC2458(BL)	
TR601,602	273 0235 923	2SC1841(E/F)	
TR603	269 0107 900	RN1241(A/B)	
TR604,605	273 0317 906	2SC2458(BL)	
TR606	271 0191 906	2SA1048(GR)	
TR607	273 0235 923	2SC1841(E/F)	
TR608	271 0131 924	2SA988(E/F)	
TR610~612	273 0235 923	2SC1841(E/F)	
TR701~704	275 0038 045	2SK369(BL)/(GR)-C	
D401,402	276 0049 914	1S2076A	
D601,602	276 0432 903	1SS270A	
D605~607	276 0432 903	1SS270A	
D701,702	276 0049 914	1S2076A	
D804	276 0432 903	1SS270A	
ZD601	276 0465 925	HZS7B-3	
ZD805	276 0465 925	HZS7B-3	
ZD806	276 0474 916	HZS12B-2	
LD301	393 9420 907	SEL4117R	
LD801	393 9155 007	SLP-171E	POWER LED
SC601	279 0016 904	SFOR1A42	
RESISTORS GROUP (not included Carbon Film ±5% 1/4W type)			
(Carbon)			
⚠ R607,608	241 2380 950	RD14B2E202JNBST	2kΩ, 1/4W, (N.B)
⚠ R611,612	241 2380 950	RD14B2E202JNBST	2kΩ, 1/4W, (N.B)
⚠ R901,902	241 2387 940	RD14B2E4R7JNBST	4.7Ω, 1/4W, (N.B)
(Metalic Film)			
⚠ R639~642	244 2043 908	RS14B3A681JST(S)	680Ω, 1W
⚠ R643	244 2052 915	RS14B3A182JST(S)	1.8kΩ, 1W
⚠ R644	244 2052 944	RS14B3A152JST(S)	1.5kΩ, 1W
⚠ R903,904	244 2043 937	RS14B3A100JST(S)	10Ω, 1W
⚠ R905~908	244 2052 960	RS14B3A221JST(S)	220Ω, 1W
(Metal Film)			
R301,302	245 2081 905	RN14K2E362GT	3.6kΩ, 1/4W
R705,706	245 2044 900	RN14K2E101GT	100Ω, 1/4W
R707,708	245 2108 901	RN14K2E473GT	47kΩ, 1/4W
R709,710	245 2020 908	RN14K2E100GT	10Ω, 1/4W
R711~714	245 2079 904	RN14K2E302GT	3kΩ, 1/4W
R715,716	245 2051 906	RN14K2E201GT	200Ω, 1/4W
R717,718	245 2075 908	RN14K2E202GT	2kΩ, 1/4W
R721,722	245 2042 902	RN14K2E820GT	82Ω, 1/4W
R723,724	245 2108 901	RN14K2E473GT	47kΩ, 1/4W
R725,726	245 2082 904	RN14K2E392GT	3.9kΩ, 1/4W
R727,728	245 2028 900	RN14K2E220GT	22Ω, 1/4W
T733,734	245 2052 905	RN14K2E221GT	220Ω, 1/4W
R735,736	245 2060 900	RN14K2E471GT	470Ω, 1/4W
R737	245 2066 904	RN14K2E821GT	820Ω, 1/4W
(Variable Resistor)			
VR201	211 0654 001	V1620P30FW104K	100kΩ, BALANCE
VR202	211 0653 002	V1620P30FD103K	10kΩ, TREBLE
VR203	211 0653 015	V1620P30FD303K	30kΩ, BASS
VR301	211 0673 008	V1620V30FB303T	30kΩ, MAIN VOL
CAPACITORS GROUP			
(Ceramic)			
C101~110	253 4537 982	CC45SL1H560JT(DD-3)	56pF/50V
C112	253 1148 905	CK45F1H223ZT	0.022μF/50V
C113	253 1146 907	CK45F1H103ZT	0.01μF/50V
C131	253 1024 003	CK45F1H103Z	0.01μF/50V
C207,208	253 4538 907	CC45SL1H680JT(DD-3)	68pF/50V
C237,238	253 4537 924	CC45SL1H330JT(DD-3)	33pF/50V
C403	253 4538 949	CC45SL1H101JT(DD-3)	100pF/50V
C405	253 4538 949	CC45SL1H101JT(DD-3)	100pF/50V
C406	253 1146 907	CK45F1H103ZT	0.01μF/50V
C408	253 1146 907	CK45F1H103ZT	0.01μF/50V
C601,602	253 4537 907	CK45F1H103ZT	0.01μF/50V
C606	253 1148 905	CK45F1H223ZT	0.022μF/50V
C702	253 1148 905	CK45F1H223ZT	0.022μF/50V
C703,704	253 4537 966	CC45SL1H470JT(DD-3)	47pF/50V
C705,706	253 1179 929	CK45B1H151KT(DD-3)	150pF/50V
C709,710	253 4538 949	CC45SL1H101JT(DD-3)	100pF/50V
⚠ C811	253 8014 702	CK45F2GAC103MC	0.01μF/400V AC
C903,904	253 1179 961	CK45B1H331KT(DD-3)	330pF/50V
(Electrolytic)			
C111	254 4260 948	CE04W1H010MT(SME)	1μF/50V
C201~204	254 4260 906	CE04W1H0R1MT(SME)	0.1μF/50V
C205,206	254 4260 948	CE04W1H010MT(SME)	1μF/50V
C217,218	254 4254 909	CE04W1C100MT(SME)	10μF/16V
C221,222	254 4260 919	CE04W1HR22MT(SME)	0.22μF/50V
C223,224	254 4260 906	CE04W1H0R1MT(SME)	0.1μF/50V
C225,226	254 4260 935	CE04W1HR47MT(SME)	0.47μF/50V
C227,228	254 4260 922	CE04W1HR33MT(SME)	0.33μF/50V
C233	254 4260 948	CE04W1H010MT(SME)	1μF/50V
C235	254 4260 948	CE04W1H010MT(SME)	1μF/50V
C401,402	254 4260 948	CE04W1H010MT(SME)	1μF/50V
C404	254 4260 980	CE04W1H100MT(SME)	10μF/50V
C407	254 4260 993	CE04W1H220MT(SME)	22μF/50V
C603	254 4250 945	CE04W0J331MT(SME)	330μF/6.3V
C604	254 4252 930	CE04W1A101MT(SME)	100μF/10V
C605	254 4252 901	CE04W1A220MT(SME)	22μF/10V
C701	254 4260 948	CE04W1H010MT(SME)	1μF/50V
C713,714	254 4252 930	CE04W1A101MT(SME)	100μF/10V
C715,716	254 4254 909	CE04W1C100MT(SME)	10μF/16V
C727,728	254 4260 948	CE04W1H010MT(SME)	1μF/50V
C731	254 4252 930	CE04W1A101MT(SME)	100μF/10V

Ref. No.	Part No.	Part Name	Remarks
(Film)			
C115,116	255 4199 986	CQ92M1H102JT(MRZ)	1000pF/50V
C707,708	255 4199 986	CQ92M1H102JT(MRZ)	1000pF/50V
C711,712	255 6179 920	CQ09S1H332JT(SMT)	3300pF/50V
C719,720	255 6178 976	CQ09S1H122JT(SMT)	1200pF/50V
C721,722	255 4199 957	CQ92M1H183JT(MRZ)	0.018μF/50V
C723,724	255 4199 986	CQ92M1H102JT(MRZ)	1000pF/50V
C901,902	255 4199 960	CQ92M1H223JT(MRZ)	0.022μF/50V
C907,908	255 4199 973	CQ92M1H103JT(MRZ)	0.01μF/50V
C911,912	255 4199 973	CQ92M1H103JT(MRZ)	0.01μF/50V
(Metalized)			
C219,220	256 1034 911	CF93A1H333JT	0.033μF/50V
C229,230	256 1034 953	CF93A1H683JT	0.068μF/50V
C231,232	256 1034 911	CF93A1H333JT	0.033μF/50V
C717,718	256 1034 953	CF93A1H683JT	0.068μF/50V
RELAYS, SWITCHES, COILS GROUP			
L701~704	235 9003 002	FTZ CHOKE COIL	
L901,902	235 0068 004	INDUCTOR	AMP OUT
RL601,602	214 0129 001	RELAY (DH2TU)	SP
RL603	214 0127 003	RELAY (RY-12W)	H/P
SW101	212 4331 006	SLIDE SW (4-6) REMOTE	REC OUT
SW102	212 1035 004	SLIDE SW (2-6) REMOTE	INPUT
SW202,203	212 1038 001	2P PUSH SWITCH	SUB. LOUD
SW301	235 1051 004	1P PUSH SWITCH	S. DIRECT
SW601	212 0324 004	ROTARY SWITCH	SP. SW
SW701	212 1041 001	1P PUSH SWITCH	MM-MC
⚠ SW801	212 1031 008	POWER SWITCH (TV-5)	
OTHER PARTS GROUP			**Q'ty**
	205 0003 107	3T LUG	1
	202 0022 008	FUSE HOLDER	2
⚠ F801	206 1015 061	FUSE 2A	1
	415 0299 000	CONDENSER COVER	for C-811 1
	204 8354 004	HEADPHONE JACK	1
	205 0274 004	2P CONN. BASE	1
	204 8266 008	4P PIN JACK (S-GND)	2
	204 8300 003	6P PIN JACK	1
	205 0484 001	8P SP TERMINAL (E2)	1
	205 0185 025	2P WIRE HOLDER	1
	205 0185 054	5P WIRE HOLDER	7
	205 0233 032	3P EH CONN. BASE	1
	205 0233 058	5P EH CONN. BASE	1
	205 0277 056	5P EH CONN. BASE (RED)	1
	205 0233 061	6P EH CONN. BASE	1
	203 2265 002	2P SIN CORD ASS'Y	CN2A 1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
	203 4706 022	3P EH CONN. CORD ASS'Y	CN3C	1
	203 4706 019	3P EH CONN. CORD ASS'Y	CN3E	1
	203 4716 009	3P SCN-SCN CONN CORD	CN3D	1
	203 4716 012	3P SCN-SCN CONN. CORD	CN3B	1
	002 0015 017	5C RIBBON CABLE	CN5E	1
	002 0015 020	5C RIBBON CABLE	CN5B	1
	002 0007 025	5C RIBBON CABLE	CN5C	1
	203 8244 014	5P EH CONN. CORD (RED)	CN5A	1
	203 4705 010	3P EH SCN CORD (RED)	CN3A	1
	203 4721 007	3P SCN-SCN CONN. CORD	CN3F	1
	415 0309 026	P.V.C. TUBE (L=20)		2
	415 0564 007	UL TUBE (9.6) BK	for CN3D	1

1U-2026B INPUT & CONTROL UNIT PARTS LIST (for Europe Gold Version)

[Same as 1U-2026A (for Europe Black Version) except the followings]

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS GROUP				
	204 8355 003	HEADPHONE JACK	CHANGE	1

1U-2026C INPUT & CONTROL UNIT PARTS LIST (for Multi-Voltage, U.S.A., Canada Black Version)

[Same as 1U-2026A (for Europe Black Version) except the followings]

Ref. No.	Part No.	Part Name	Remarks	
CAPACITORS GROUP				
Ceramic				
C101~110	253 4537 982	CC45SL1H560JT(DD-3)	DELETE	
C112	253 1148 905	CK45F1H223ZT	DELETE	
C131	253 1024 003	CK45F1H103Z	DELETE	
C237,238	253 4537 924	CC45SL1H330JT(DD-3)	DELETE	
C702	253 1148 905	CK45F1H223ZT	DELETE	
C703,704	253 4537 966	CC45SL1H470JT(DD-3)	DELETE	
C709,710	253 4538 949	CC45SL1H101JT(DD-3)	DELETE	
⚠ C811	253 8014 702	CK45F2GAC103MC	DELETE	
C903,904	253 1179 961	CK45B1H331KT(DD-3)	DELETE	
(Plastic Film)				
C707,708	255 4199 986	CQ92M1H102JT(MRZ)	DELETE	
COILS, SWITCH GROUP				
L701~704	235 9003 002	FTZ CHOKE COIL	DELETE	
⚠ SW801	212 1031 008	POWER SWITCH (TV-5)	DELETE	
OTHER PARTS GROUP				**Q'ty**
	205 0003 107	3T LUG	DELETE	1
	205 0472 000	8P SP TERMINAL (EU)	CHANGE	1
⚠ F801	206 1015 061	FUSE 2A	DELETE	1
	202 0022 008	FUSE HOLDER	DELETE	2
	415 0299 000	CONDENSER COVER	DELETE	1
	415 0309 026	P.V.C. TUBE (L=20)	DELETE	2

1U-2026D INPUT & CONTROL UNIT PARTS LIST (for U.K., Australia Black Version)

[Same as 1U-2026A (for Europe Black Version) except the followings]

Ref. No.	Part No.	Part Name	Remarks	
OTHER PARTS GROUP				**Q'ty**
	205 0472 013	8P SP TERMINAL (EA, EK)	CHANGE	

1U-2027A P. AMP & SUPPLY UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC501,502	262 0874 009	TLP521-1(BL)	
TR501~504	275 0055 015	2SK184C(GR)/(BL)	
TR505~508	273 0235 923	2SC1841 (E/F)	
TR509~514	271 0131 924	2SA988(E/F)	
TR515,516	273 0235 923	2SC1841(E/F)	
TR517,518	273 0198 002	2SC1815(Y)	
TR519,520	274 0151 000	2SD2004(P)	
TR521,522	272 0107 906	2SB1328(P)	
TR801	273 0235 923	2SC1841(E/F)	
TR802	271 0131 924	2SA988(E/F)	
TR803	274 0136 012	2SD1913(R/S)	
TR804	272 0093 010	2SB1274(R/S)	
TR805,806	275 0043 946	2SK381(C)	
D501~506	276 0049 914	1S2076A	
D511~522	276 0049 914	1S2076A	
D801	276 0305 001	S4VB20	
D802,803	276 0553 905	1SR35-200A(T93X)	
ZD801,802	276 0485 921	HZS36-3	
ZD803,804	276 0249 905	HZ18-2	
RESISTORS (not included Carbon Film ±5%, 1/4W type)			
(Carbon)			
⚠ R519~522	241 2315 983	RD14B2E331FRT	330Ω, 1/4W, Fusible
⚠ R523~526	241 2376 922	RD14B2E330JNBST	33Ω, 1/4W, (N.B)
⚠ R527,528	241 2380 918	RD14B2E132JNBST	1.3kΩ, 1/4W, (N.B)
⚠ R529,530	241 2377 921	RD14B2E820JNBST	82Ω, 1/4W, (N.B)
⚠ R531~534	241 2371 930	RD14B2E161FRT	160Ω, 1/4W, Fusible
⚠ R549,550	241 2378 920	RD14B2E221JNBST	220Ω, 1/4W, (N.B)
⚠ R801,802	241 2387 940	RD14B2E4R7JNBST	4.7Ω, 1/4W, (N.B)
(Metalic Film)			
⚠ R561~568	244 2043 982	RS14B3AR22JST(S)	0.22Ω, 1W
⚠ R573,574	244 2050 904	RS14B3A220JST(S)	22Ω, 1W
⚠ R803~806	244 2043 908	RS14B3A681JST(S)	680Ω, 1W
(Metal Film)			
R503,504	245 2060 900	RN14K2E471GT	470Ω 1/4W
R505~508	245 2084 902	RN14K2E472GT	4.7kΩ, 1/4W
R509,510	245 2044 900	RN14K2E101GT	100Ω 1/4W
R511,512	245 2090 909	RN14K2E822GT	8.2kΩ, 1/4W
R513,514	245 2046 908	RN14K2E121GT	120Ω, 1/4W
R517,518	245 2099 900	RN14K2E203GT	20kΩ, 1/4W
R535,536	245 2068 902	RN14K2E102GT	1kΩ, 1/4W
R537,538	245 2084 902	RN14K2E472GT	4.7kΩ 1/4W
R539,540	245 2105 904	RN14K2E363GT	36kΩ, 1/4W
R543,544	245 2096 903	RN14K2E153GT	15kΩ, 1/4W
R569,570	245 2060 900	RN14K2E471GT	470Ω, 1/4W
R597,598	245 2116 906	RN14K2E104GT	100kΩ, 1/4W

Ref. No.	Part No.	Part Name	Remarks
Semifixed Resistor			
VR501,502	211 6077 941	V06PB502	5kΩ
VR503,504	211 6077 983	V06PB473	47kΩ
CAPACITORS GROUP			
(Ceramic)			
C503,504	253 4538 949	CC45SL1H101JT(DD-3)	100pF/50V
C509,510	253 4422 903	CC45SL1H270JT	27pF/50V
C519,520	253 1179 945	CK45B1H221KT(DD-3)	220pF/50V
C527,528	253 4500 906	CC45SL2H150KT	15pF/500V
C529,530	253 4538 949	CC45SL1H101JT(DD-3)	100pF/50V
C533,534	253 4538 949	CC45SL1H101JT(DD-3)	100pF/50V
(Electrolytic)			
C507,508	254 4260 977	CE04W1H4R7MT(SME)	4.7µF/50V
C525,526	254 4262 904	CE04W1J4R7MT(SME)	4.7µF/63V
C531,532	254 4260 948	CE04W1H010MT(SME)	1µF/50V
C535,536	254 4260 948	CE04W1H010MT(SME)	1µF/50V
C545,546	254 4262 904	CE04W1J4R7MT(SME)	4.7µF/63V
C801,802	254 4261 921	CE04W1H101MT(SME)	100µF/50V
C803,804	254 4260 948	CE04W1H010MT(SME)	1µF/50V
⚠ C807,808	254 4365 720	CE04W==123MC(DL)	12000µF/56V
C810	254 4180 950	CE04W1J2R2MT(SM)	2.2µF/63V
(Film)			
C501,502	255 6177 948	CQ09S1H101JT(SMT)	100pF/50V
C505,506	255 6178 963	CQ09S1H102JT(SMT)	1000pF/50V
C541,542	255 4199 973	CQ92M1H103JT(MRZ)	0.01µF/50V
(Metalized)			
C809	256 1042 903	CF93A2E104KT	0.1µF/250V
OTHER PARTS GROUP			Q'ty
TP001,002	205 0190 036	3P NH CONN. BASE	2
	205 0233 032	3P EH CONN. BASE	1
	205 0277 030	3P EH CONN. BASE (RED)	1
	205 0185 054	5P WIRE HOLDER	1
	203 8218 082	5P EH-CONN. CORD CN5D	1
	204 0309 002	6P EH-SCN CONN. CORD CN6A	1

1U-2027E P.AMP & SUPPLY UNIT PARTS LIST (for U.S.A. Black Version)

[Same as 1U-2027A (for Europe Black Version) except the followings]

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
(Metalized)			
C525,526	256 1042 903	CF93A2E104KT	CHANGE
C545,546	256 1042 903	CF93A2E104KT	CHANGE
OTHER PARTS GROUP			Q'ty
	203 8287 000	5P EH-SCN CONN. CORD	CN5D CHANGE
	204 0310 004	6P EH-SCN CONN. CORD	CN6A CHANGE
	205 0185 054	5P WIRE HOLDER	DELETE

1U-2027F P.AMP & SUPPLY UNIT PARTS LIST (for Canada Black Version)

[Same as 1U-2027A (for Europe Black Version) except the followings]

Ref. No.	Part No.	Part Name	Remarks
OTHER PARTS GROUP			Q'ty
	203 8287 000	5P EH-SCN CONN. CORD	CN5D CHANGE
	204 0310 004	6P EH-SCN CONN. CORD	CN6A CHANGE
	205 0185 054	5P WIRE HOLDER	DELETE

1U-2118C POWER SWITCH UNIT PARTS LIST (for Multi-Voltage Black Version)

Ref. No.	Part No.	Part Name	Remarks	
CAPACITORS GROUP				
(Ceramic)				
⚠ C811	253 8014 702	CK45F2GAC103MC	0.01µF/400V AC	
SWITCH				
⚠ SW801	212 9534 002	POWER SW (PUSH) TV-8		
OTHER PARTS GROUP				**Q'ty**
	202 0022 008	FUSE HOLDER		4
	415 0299 000	CONDENSER COVER	for C811	1
⚠ F801	206 1061 057	FUSE 6.3A (250V)		1
⚠ F804	206 1061 028	FUSE 3.15A (250V)		1

1U-2118E POWER SWITCH UNIT PARTS LIST (for U.S.A., Canada Black Version)

Ref. No.	Part No.	Part Name	Remarks	
CAPACITORS GROUP				
(Ceramic)				
⚠ C811	253 8014 702	CK45F2GAC103MC	0.01µF/125V AC	
SWITCH				
⚠ SW801	212 9534 002	POWER SW (PUSH) TV-8		
OTHER PARTS GROUP				**Q'ty**
	202 0022 008	FUSE HOLDER		2
⚠ F801	206 1046 001	FUSE 6.3A UL 20mm		1

PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks	Q'ty
◉ 1	See add. list	INPUT & CONTROL UNIT		1
1-1	—	INPUT UNIT		
1-2	—	CONTROL UNIT		
1-3	—	EQ. UNIT		
1-4	—	PROTECTOR & SP. UNIT		
1-5	—	SPEAKER SWITCH UNIT		
1-7	—	H/P UNIT		
1-8	—	POWER LED UNIT		
1-9	—	S.D. LED UNIT		
1-11	—	BASS UNIT		
◉ 2	See add. list	P. AMP & SUPPLY UNIT		1
◉ 3	411 0951 207	FRONT CHASSIS		1
◉ 4	411 0762 506	TRANS CHASSIS		1
◉ 5	412 2741 036	P.W.B. HOLDER (H=10)		3
◉ 6	411 0761 413	SIDE CHASSIS		1
◉ 7	412 2992 102	RADIATOR BRACKET (A)		2
◉ 8	412 3105 008	SUPPORT BRACKET		1
◉ 9	See add. list	BACK PANEL		1
10	477 0018 001	WASHER (P-87)		1
11	205 0071 016	TERMINAL Ass'y		1
⚠ 12	See add. list	AC CORD		1
◉⚠ 13	See add. list	UL TUBE (8.3)		1
⚠ 14	445 0056 008	CORD BUSH		1
◉ 15	See add. list	MASKING SHEET		1
◉ 16	412 2814 028	CARD SPACER (L=10)		1
◉ 17	417 0395 104	POWER RADIATOR		2
18	273 0389 015	2SC3855LB(O/P/Y)(Z)	TR527,528 POWER TRANSISTOR	2
19	271 0240 019	2SA1491LB(O/P/Y)(Z)	TR529,530 POWER TRANSISTOR	2
20	415 0234 007	INSULATING SHEET		4
21	212 0325 003	ROTARY REMOTE SWITCH	INPUT SELECTOR	1
22	212 0326 002	ROTARY REMOTE SWITCH	REC OUT SELECTOR	1
23	See add. list	PUSH KNOB (MARU)		4
24	113 1370 006	PUSH KNOB JOINT (B)	MM/MC	1
25	See add. list	FUJI KNOB	REC OUT	1
26	See add. list	MARU KNOB (S)		3
◉ 27	See add. list	FRONT PANEL Ass'y		1
◉ 28	412 2549 047	BRACKET (E)		1
◉ 29	412 2549 050	BRACKET (F)		1
◉ 30	105 0895 206	BOTTOM COVER		1
31	104 0194 001	FOOT Ass'y		4
◉ 32	See add. list	SIDE PLATE (L)		1
◉ 33	See add. list	SIDE PLATE (R)		1
⚠ 34	See add. list	POWER TRANS		1
35	See add. list	P. KNOB (P) Ass'y		1
36	See add. list	VOLUME KNOB Ass'y		1
37	See add. list	MARU KNOB Ass'y		2
◉ 38	445 8004 007	WIRE CLAMPER		8
◉ 39	445 0048 016	CORD HOLDER (L50)		1
◉ 40	461 0501 005	RUBBER SHEET		2
◉ 41	462 0094 007	SCREW TUBE		1
◉ 42	See add. list	TOP COVER		1
51	212 4331 006	SLIDE SW (4-6) REMOTE	REC OUT	1
52	212 1035 004	SLIDE SW (2-6) REMOTE	INPUT	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
53	212 1038 001	2P PUSH SWITCH	SUB. LOUD	1
54	235 1051 004	1P PUSH SWITCH	S. DIRECT	1
55	212 0324 004	ROTARY SWITCH	SP. SW	1
56	212 1041 001	1P PUSH SWITCH	MM-MC	1
⚠ 57	See add. list	POWER SWITCH		1
58	See add. list	HEADPHONE JACK		1
59	205 0274 004	2P CONNECTOR BASE		1
60	204 8266 008	4P PIN JACK (S-GND)		2
61	204 8300 003	6P PIN JACK		1
62	See add. list	8P SP TERMINAL		1
63	211 0654 001	V1620P30FW104K	100kΩ, BALANCE	1
64	211 0653 002	V1620P30FD103K	10kΩ TREBLE	1
65	211 0653 015	V1620P30FD303K	30kΩ, BASS	1
66	211 0673 008	V1620V30FB303T	30kΩ, MAIN VOL	1
⚠ 67	See add. list	FUSE	F801	1
⚠ 68	See add. list	FUSE	F804	1
69	See add. list	POWER SWITCH UNIT		1
74	393 9155 007	SLP-171E (LED)	POWER LD801	1
75	393 9420 907	SEL4117R (LED)	S.D LD301	1
⚠ 76	254 4365 720	CE04W==123MC(DL)	C807,808 12000μF/56V	2

SCREWS & WASHER

101	473 7015 018	TAPPING SCREW(S) (BLACK) 3×8		31
102	477 0064 107	FIXING SCREW		6
103	473 8007 009	3×12 CUP SCREW		4
104	473 3806 014	TAPPING SCREW (2) 3×8		2
105	473 7002 018	TAPPING SCREW(S) 3×8		8
106	473 7003 004	TAPPING SCREW(S) 3×8		4
107	473 7004 003	TAPPING SCREW(S) 4×8		4
108	See add. list	3P SWELLING SCREW		4

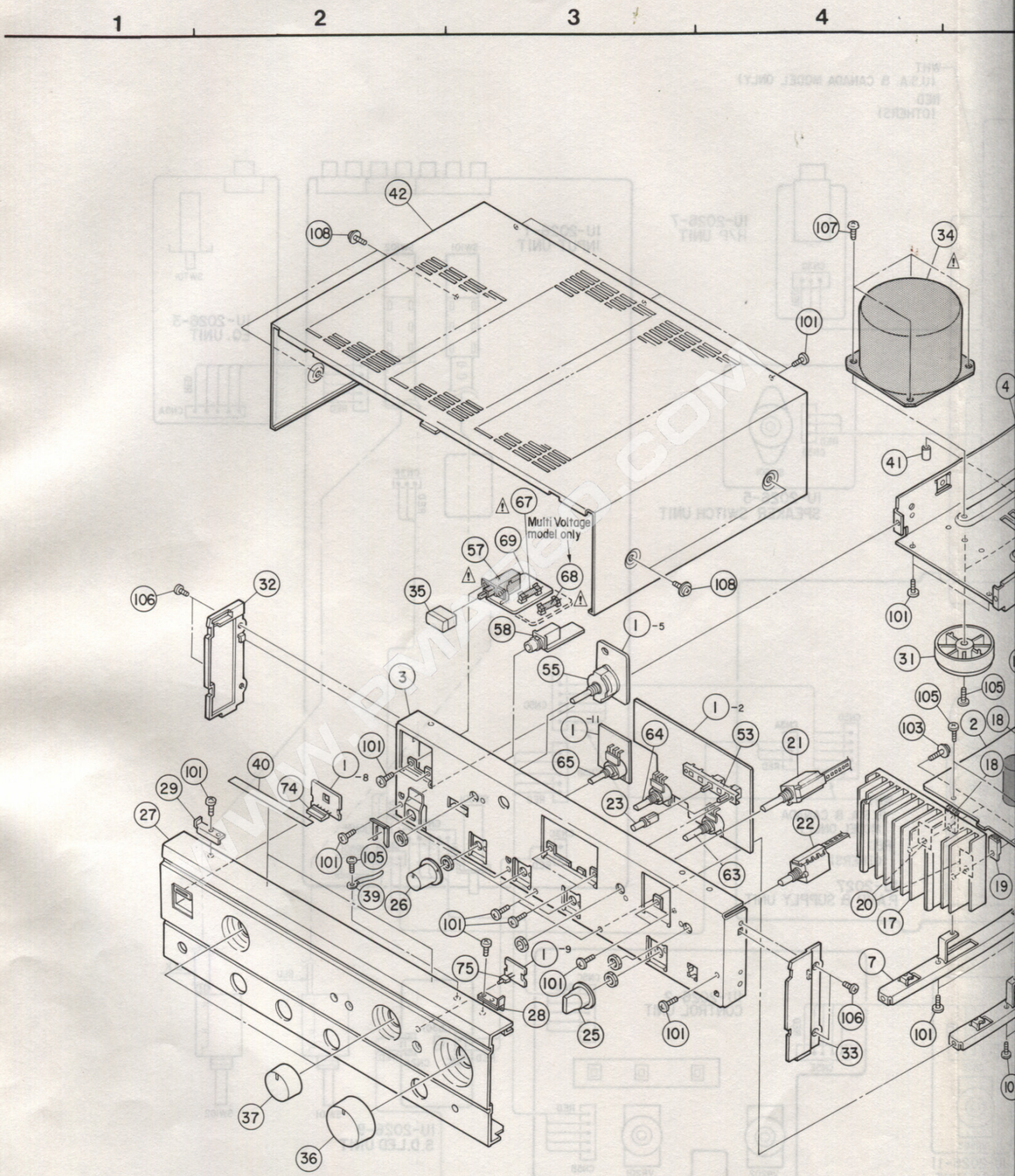
PACKING & ACCESSORIES (not included EXPLODED VIEW)

201	511 1957 005	INST. MANUAL		1
202	504 9102 003	STYRENE PAPER		1
203	505 9102 006	POLY COVER		1
204	504 0092 060	STYRENE PAER		1
205	503 0888 006	CUSHION		2
206	501 1432 002	CARTON CASE		1
207	513 1389 006	CONTROL CARD BASE		1
208	513 1349 004	THERMAL CARBON FILM		1

ADDENDUM LIST

Ref. No.	Parts Name & Descriptions	Part No.						
		Europe Black	Europe Gold	U.K. Black	Australia Black	Asia Black	U.S.A. Black	Canada Black
◉ 1	INPUT & CONTROL UNIT	1U-2026A	1U-2026B	1U-2026D	1U-2026D	1U-2026C	1U-2026C	1U-2026C
◉ 2	P. AMP & SUPPLY UNIT	1U-2027A	1U-2027A	1U-2027A	1U-2027A	1U-2027A	1U-2027E	1U-2027F
69	POWER SWITCH UNIT	—	—	—	—	1U-2118C	1U-2118E	1U-2118E
⚠ 70	AC OUTLET (POLARIZED)	—	—	—	—	203 3926 007	203 3926 007	203 3926 007
⚠ 71	VOLTAGE SEL SWITCH	—	—	—	—	212 9555 007	—	—
72	PRESET LABEL	—	—	—	—	515 8030 008	—	—
62	8P SP TERMINAL	205 0484 001	205 0484 001	205 0472 013	205 0472 013	205 0472 000	205 0472 000	205 0472 000
58	HEAD PHONE JACK	204 8354 004	204 8355 003	204 8354 004	204 8354 004	204 8354 004	204 8354 004	204 8354 004
⚠ 57	POWER SWITCH	212 1031 008	212 1031 008	212 1031 008	212 1031 008	212 9534 002	212 9534 002	212 9534 002
◉ 9	BACK PANEL	105 0896 001	105 0896 001	105 0896 014	105 0896 014	105 0896 027	105 0896 030	105 0896 043
⚠ 12	AC CORD	206 2063 009	206 2063 009	206 2024 006	206 2025 005	206 2054 005	206 2060 002	206 2060 002
◉ 15	MASKING SHEET	513 1144 005	513 1144 005	—	—	—	—	—
73	BLIND SHEET	—	—	—	—	—	513 9224 008	—
◉⚠13	UL TUBE (8.3)	415 0364 032	415 0364 032	415 0364 032	415 0364 032	415 0364 032	—	—
23	PUSH KNOB (MARU)	113 1356 004(4)	113 1356 017(4)	113 1356 004(4)	113 1356 004(4)	113 1356 004(4)	113 1356 004(4)	113 1356 004(4)
25	FUJI KNOB	112 0641 005	112 0641 018	112 0641 005	112 0641 005	112 0641 005	112 0641 005	112 0641 005
26	MARU KNOB (S)	112 0646 000(3)	112 0646 013(3)	112 0646 000(3)	112 0646 000(3)	112 0646 000(3)	112 0646 000(3)	112 0646 000(3)
◉ 27	FRONT PANEL Ass'y	144 1993 102	144 1993 115	144 1993 102	144 1993 102	144 1993 102	144 1993 102	144 1993 102
◉ 32	SIDE PLATE (L)	146 1142 205	146 1142 218	146 1142 205	146 1142 205	146 1142 205	146 1142 205	146 1142 205
◉ 33	SIDE PLATE (R)	146 1143 204	146 1143 217	146 1143 204	146 1143 204	146 1143 204	146 1143 204	146 1143 204
⚠ 34	POWER TRANS	233 5802 007	233 5802 007	233 5803 006	233 5803 006	233 5804 005	233 5805 004	233 5805 004
35	P. KNOB (P) Ass'y	113 9213 000	113 9213 026	113 9213 000	113 9213 000	113 9213 000	113 9213 000	113 9213 000
36	VOLUME KNOB Ass'y	112 0654 005	112 0654 018	112 0654 005	112 0654 005	112 0654 005	112 0654 005	112 0654 005
37	MARU KNOB Ass'y	112 0651 008(2)	112 0651 011(2)	112 0651 008(2)	112 0651 008(2)	112 0651 008(2)	112 0651 008(2)	112 0651 008(2)
◉ 42	TOP COVER	102 0416 000	102 0416 013	102 0416 000	102 0416 000	102 0416 000	102 0416 000	102 0416 000
108	3P SWELLING SCREW	477 0263 005(4)	477 0263 018(4)	477 0263 005(4)	4770263005(4)	477 0263 005(4)	477 0263 005(4)	477 0263 005(4)
	COLOR LABEL (GOLD)	—	513 9111 001(2)	—	—	—	—	—
⚠ 67	FUSE (F801)	206 1015 061 (2A)	206 1015 061 (2A)	206 1015 061 (2A)	206 1015 061 (2A)	206 1061 057 (6.3A[250V])	206 1046 001 (6.3A)	206 1046 001 (6.3A)
⚠ 68	FUSE (F804)	—	—	—	—	206 1061 028 (3.15A[250V])	—	—

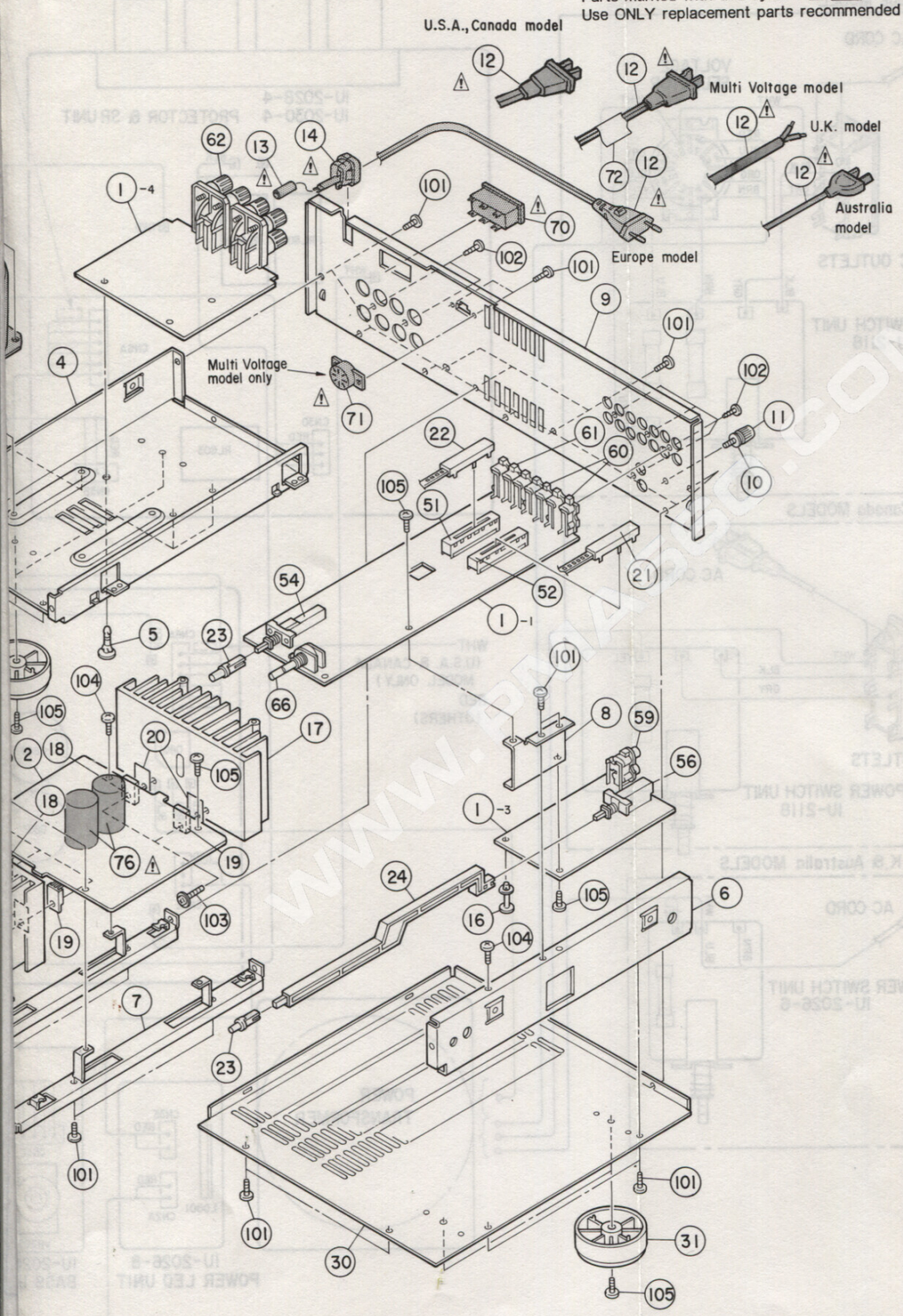
EXPLODED VIEW OF CHASSIS AND CABINET



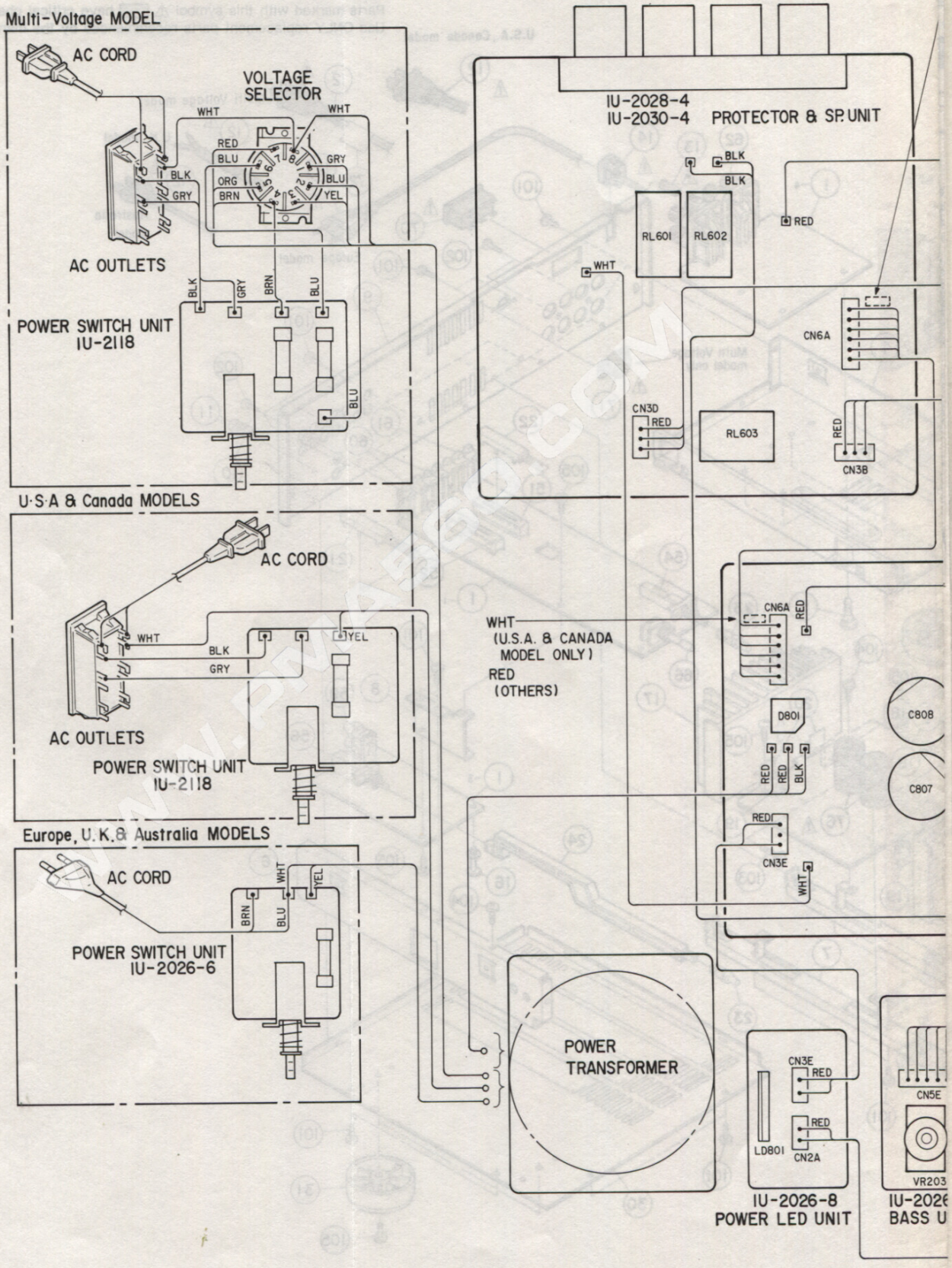
5 6 7 8

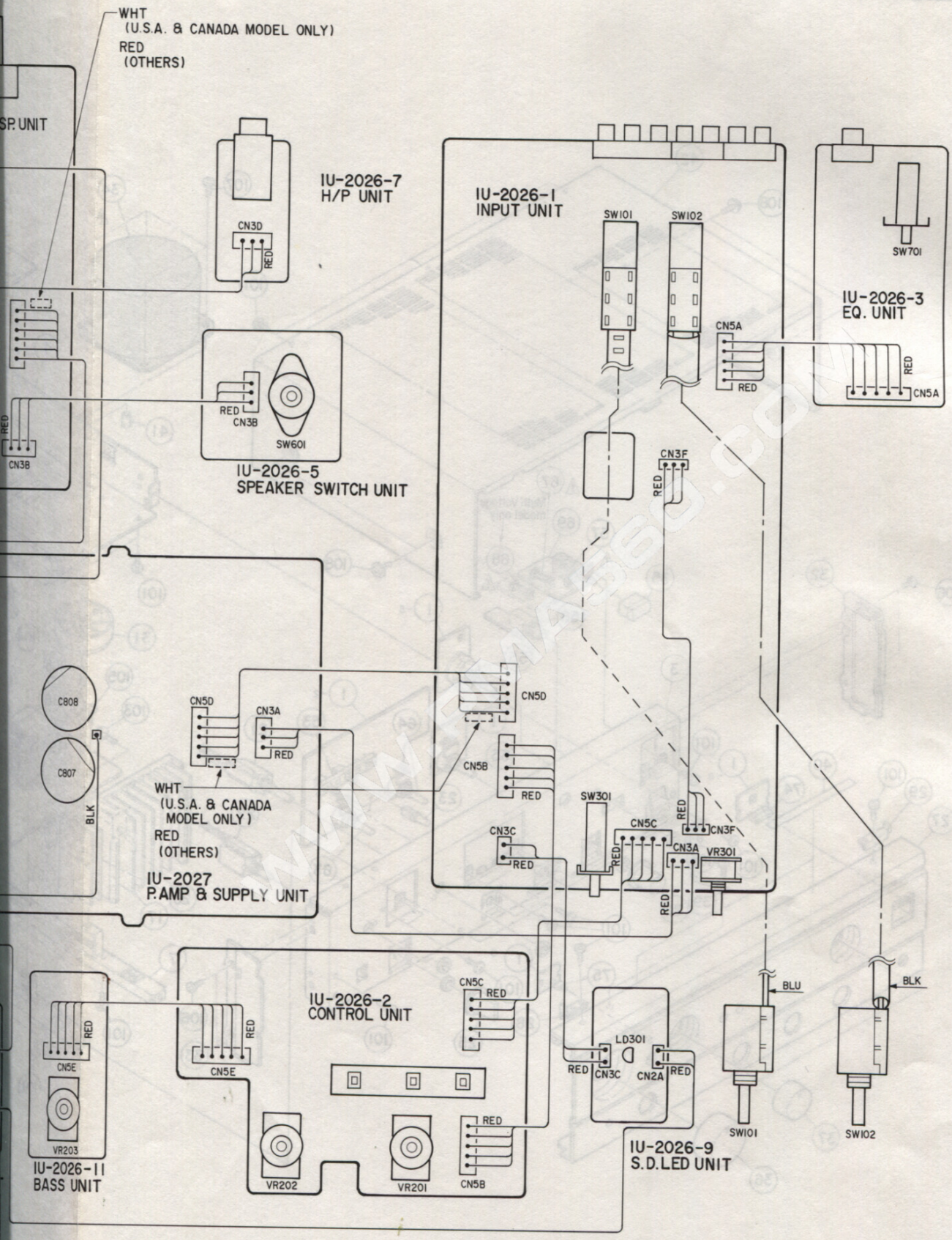
A B C D E

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.



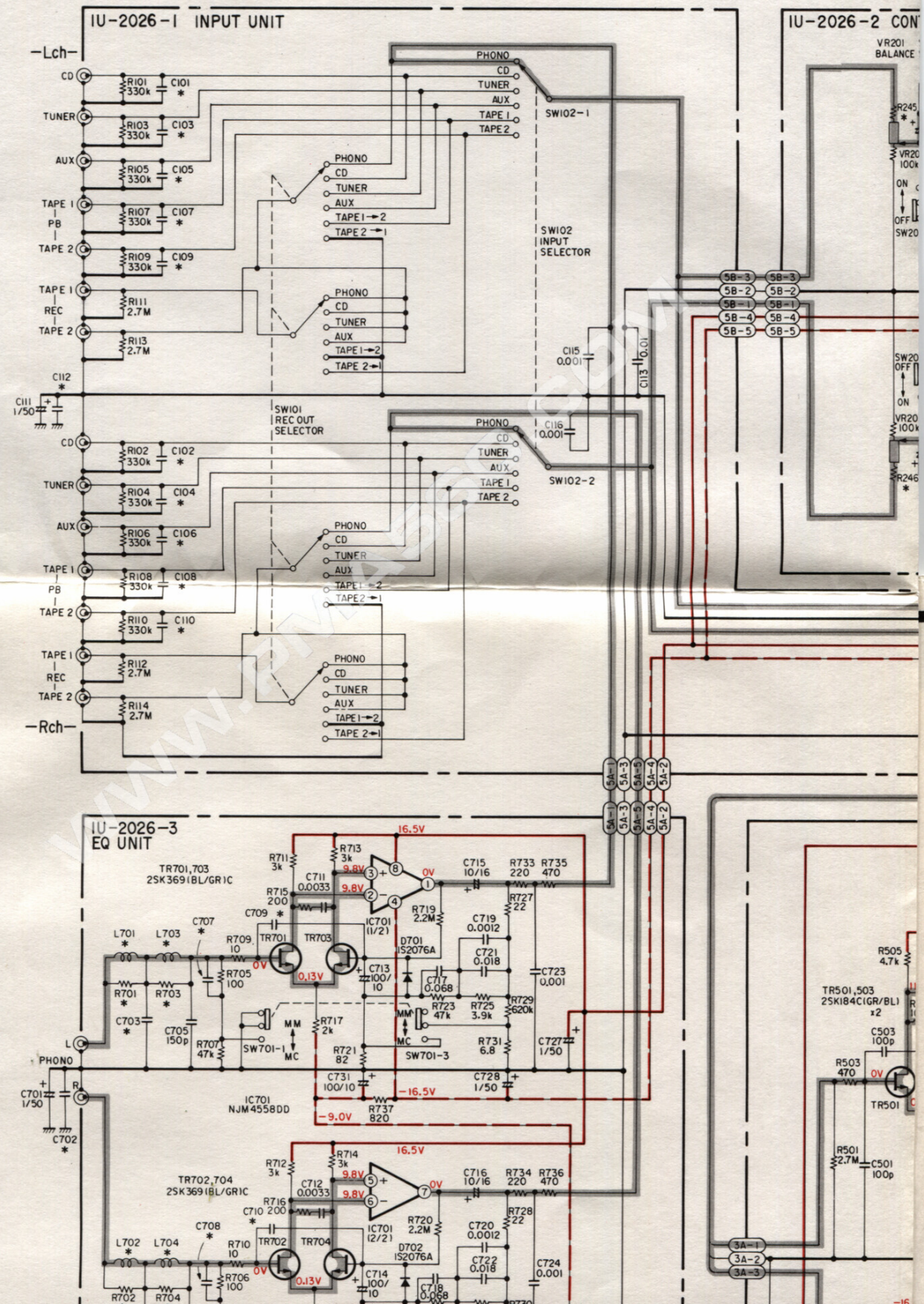
WIRING DIAGRAM

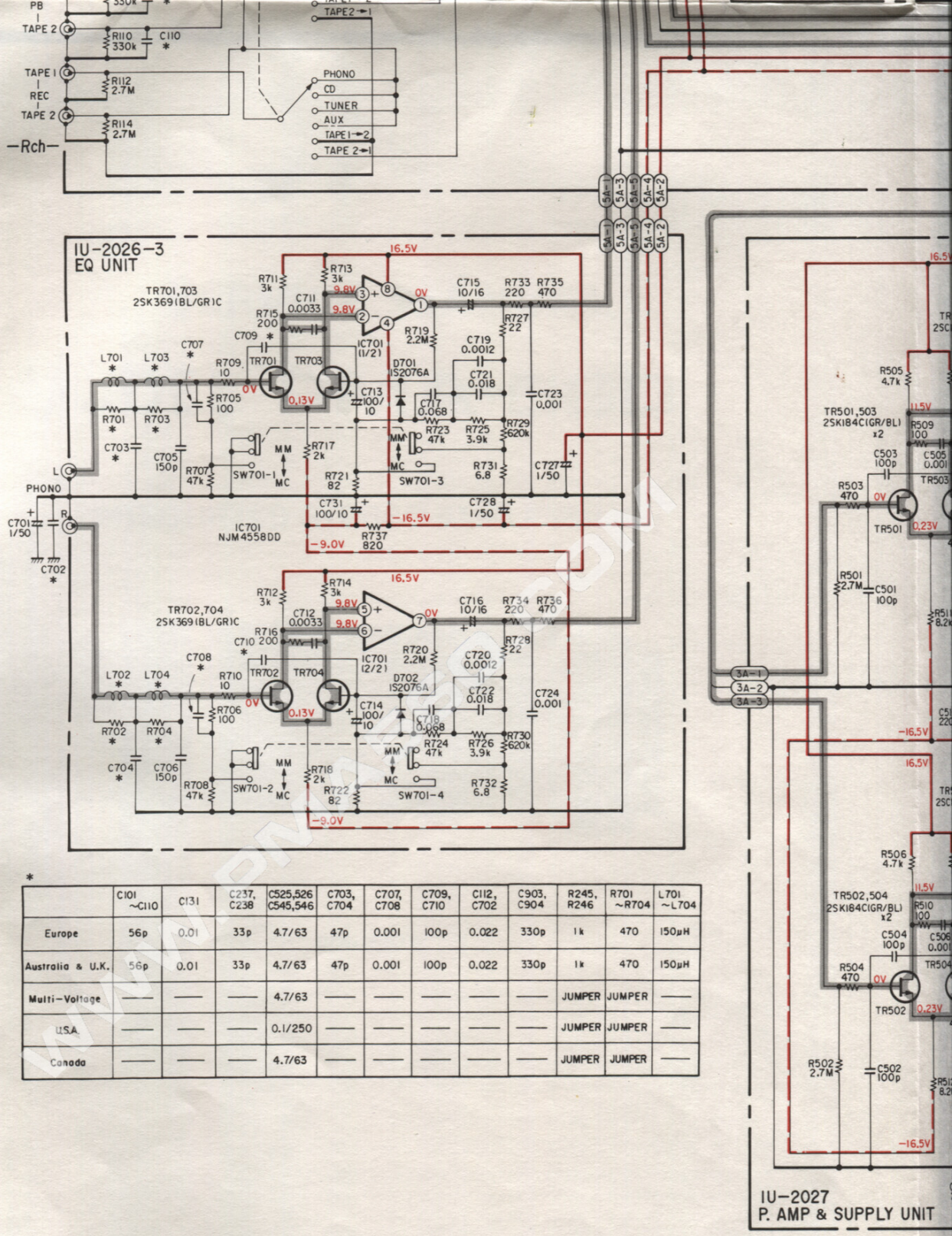



WHT
(U.S.A. & CANADA MODEL ONLY)
RED
(OTHERS)
SP. UNIT
IU-2026-7
H/P UNIT
CN3D
RED
IU-2026-1
INPUT UNIT
SW101
SW102
SW701
IU-2026-3
EQ. UNIT
CN5A
RED
CN5A
CN3B
RED
CN3B
SW601
IU-2026-5
SPEAKER SWITCH UNIT
CN3F
RED
C808
C807
BLK
CN5D
CN3A
RED
CN5D
CN5B
RED
WHT
(U.S.A. & CANADA
MODEL ONLY)
RED
(OTHERS)
IU-2027
P.AMP & SUPPLY UNIT
CN3C
RED
SW301
CN5C
RED
CN3A
VR301
RED
CN3F
RED
IU-2026-2
CONTROL UNIT
CN5C
RED
CN5E
RED
CN5E
RED
LD301
RED
CN3C
CN2A
RED
BLU
BLK
SW101
SW102
VR203
IU-2026-11
BASS UNIT
VR202
VR201
RED
CN5B
IU-2026-9
S.D.LED UNIT

SCHEMATIC DIAGRAM

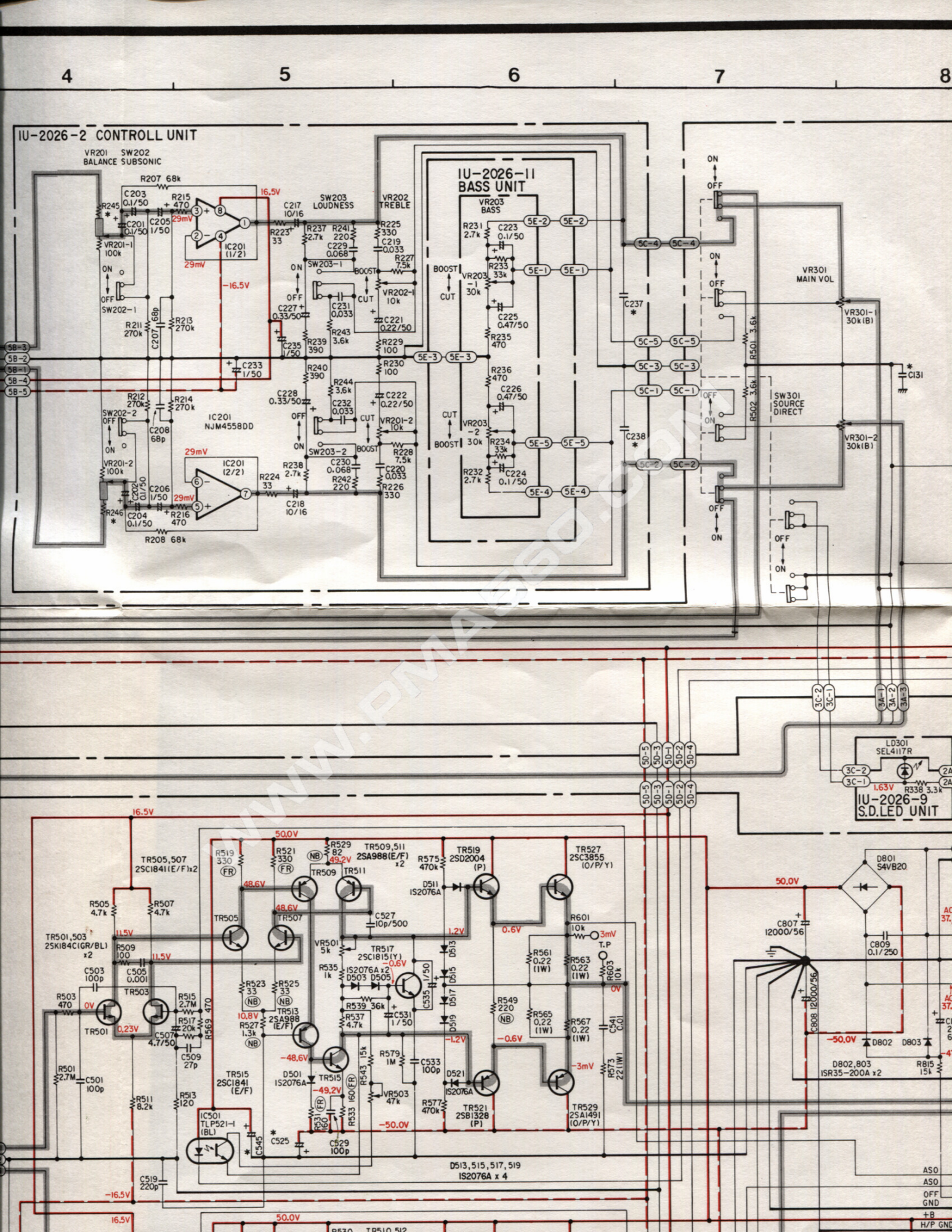
1 2 3 4

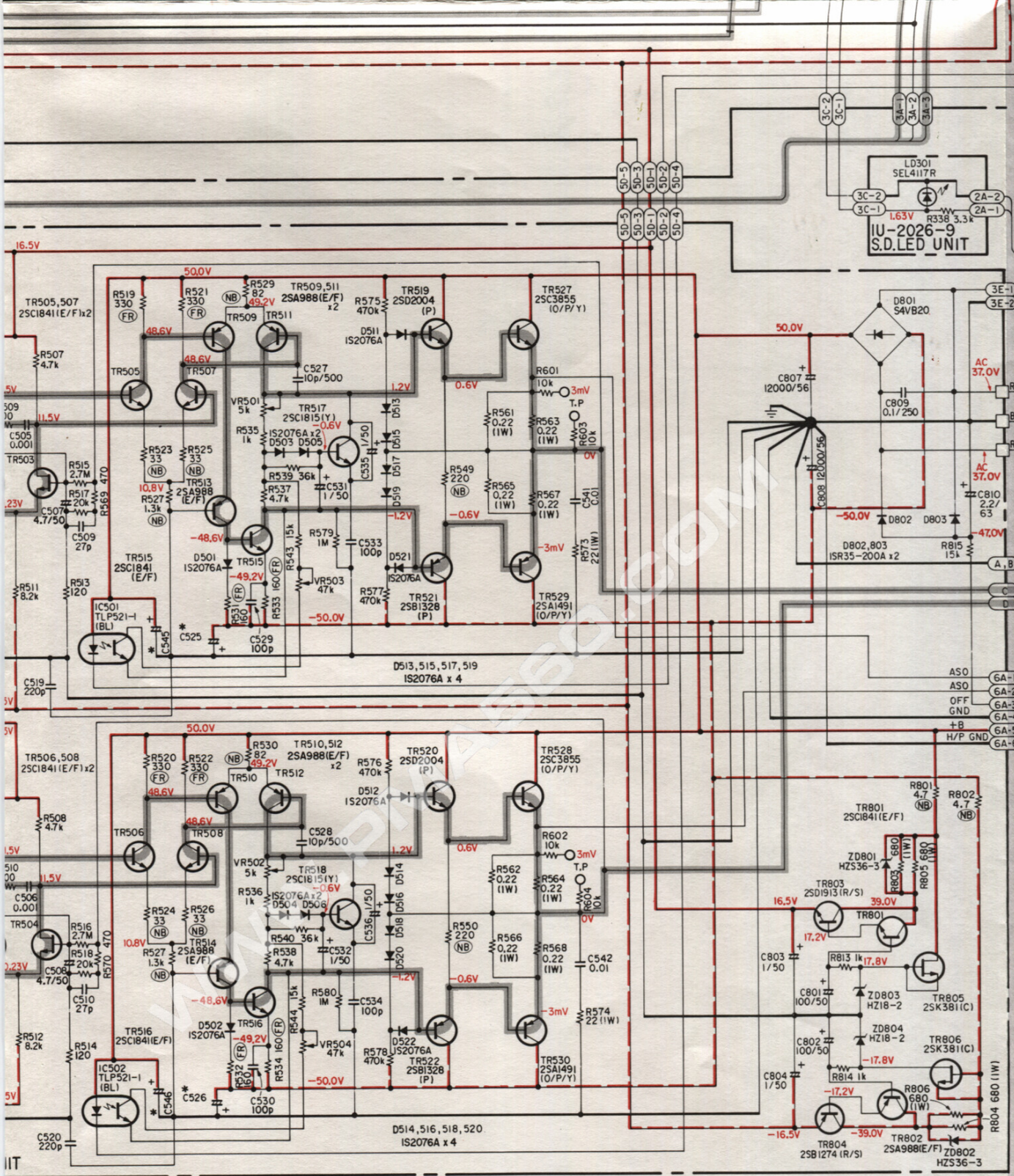




*

	C101 ~C110	C131	C237, C238	C525,526 C545,546	C703, C704	C707, C708	C709, C710	C112, C702	C903, C904	R245, R246	R701 ~R704	L701 ~L704
Europe	56p	0.01	33p	4.7/63	47p	0.001	100p	0.022	330p	1k	470	150μH
Australia & U.K.	56p	0.01	33p	4.7/63	47p	0.001	100p	0.022	330p	1k	470	150μH
Multi-Voltage	——	——	——	4.7/63	——	——	——	——	——	JUMPER	JUMPER	——
U.S.A.	——	——	——	0.1/250	——	——	——	——	——	JUMPER	JUMPER	——
Canada	——	——	——	4.7/63	——	——	——	——	——	JUMPER	JUMPER	——


4
5
6
7
8
IU-2026-2 CONTROLL UNIT
VR201 SW202
BALANCE SUBSONIC
IU-2026-11
BASS UNIT
VR203
BASS
SW203
LOUDNESS
VR202
TREBLE
VR301
MAIN VOL
SW301
SOURCE DIRECT
IC201
NJM4558DD
IC201 (1/2)
IC201 (2/2)
IU-2026-9
S.D.LED UNIT
LD301
SEL4117R
TR505,507
2SC1841(E/F)x2
TR501,503
2SK184C(GR/BL)
x2
TR509,511
2SA988(E/F)
x2
TR519
2SD2004
(P)
TR527
2SC3855
(O/P/Y)
TR515
2SC1841
(E/F)
TR517
2SC1815(Y)
TR513
2SA988
(E/F)
TR521
2SB1328
(P)
TR529
2SA1491
(O/P/Y)
D501
IS2076A
D503
D505
D511
IS2076A
D513
D515
D517
D519
D521
IS2076A
D513,515,517,519
IS2076A x 4
D801
S4VB20
D802
D803
D802,803
ISR35-200A x2
IC501
TLP521-1
(BL)
16.5V
-16.5V
50.0V
-50.0V
29mV
ASO
OFF
GND
+B
H/P GND

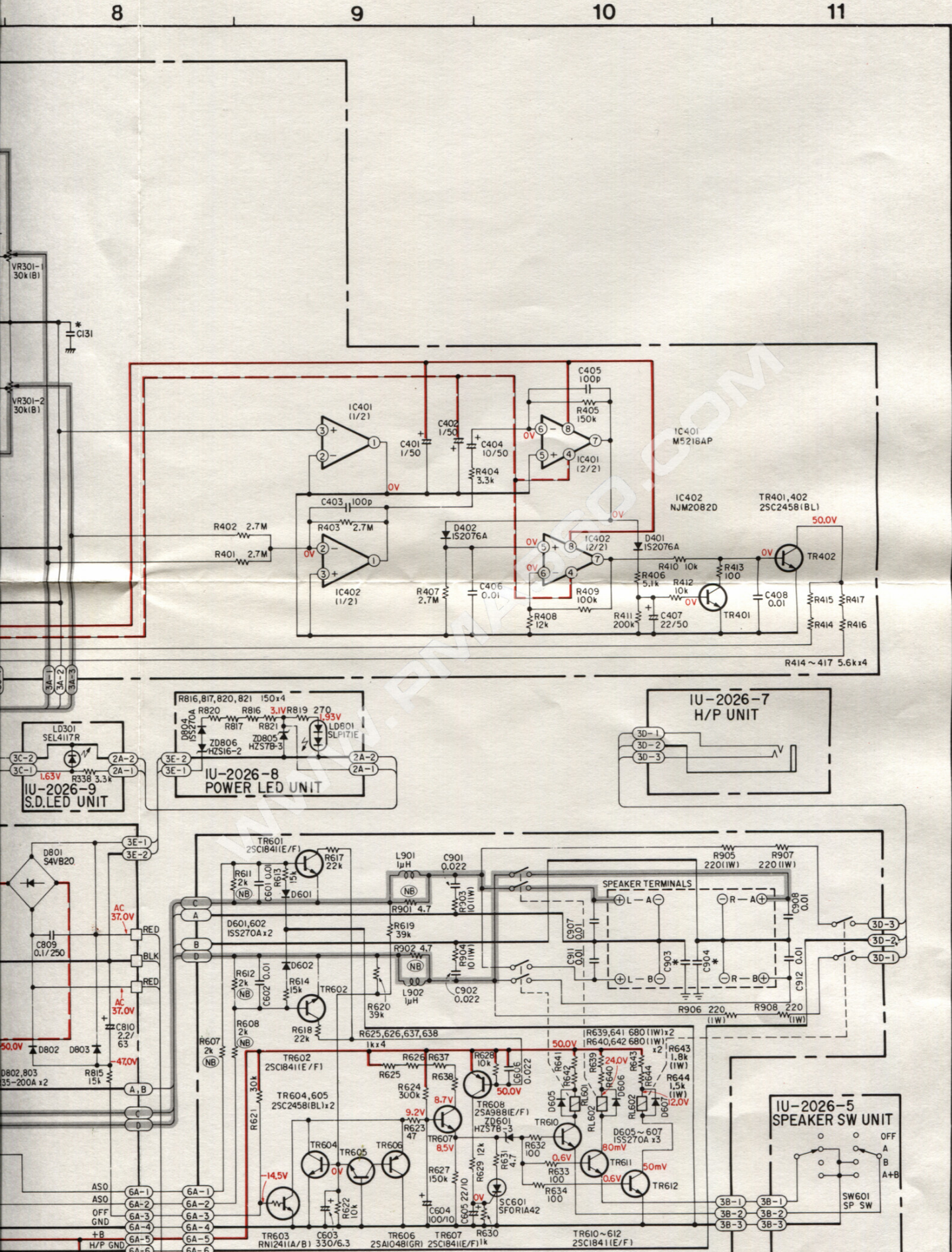


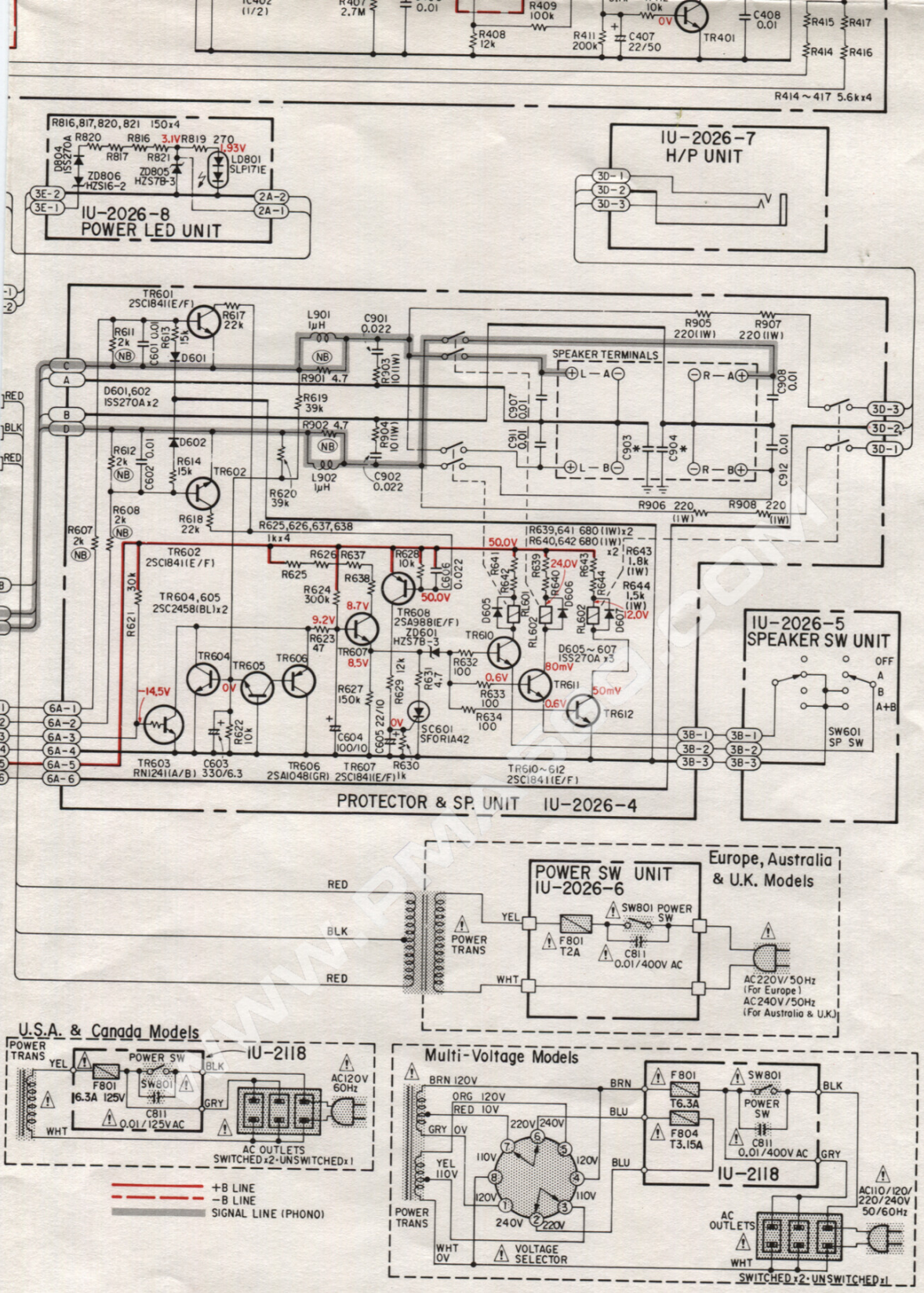
NOTES
ALL RESISTANCE VALUES IN OHM k = 1,000 OHM M = 1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD P = MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked w
Use ONLY repl

CAUTION:
Before returni
check. If the l
ohms, the unit

WARNING:
DO NOT retur


8
9
10
11
A
B
C
D
E
VR301-1 30k(B)
VR301-2 30k(B)
*C131
IC401 (1/2)
IC401 (2/2)
IC401 M5218AP
IC402 (1/2)
IC402 (2/2)
IC402 NJM2082D
TR401,402 2SC2458(BL)
TR401
TR402
C401 1/50
C402 1/50
C403 100p
C404 10/50
C405 100p
C406 0.01
C407 22/50
C408 0.01
R401 2.7M
R402 2.7M
R403 2.7M
R404 3.3k
R405 150k
R406 5.1k
R407 2.7M
R408 12k
R409 100k
R410 10k
R411 200k
R412 10k
R413 100
R414~417 5.6k×4
D401 1S2076A
D402 1S2076A
50.0V
0V
R816,817,820,821 150×4
R820
R816 3.1V
R819 270 1.93V
R817
R821
D804 1S270A
ZD806 HZS16-2
ZD805 HZS7B-3
LD801 SLP171E
LD301 SEL4117R
1.63V
R338 3.3k
IU-2026-9 S.D.LED UNIT
IU-2026-8 POWER LED UNIT
IU-2026-7 H/P UNIT
3D-1
3D-2
3D-3
3A-1
3A-2
3A-3
3C-1
3C-2
3E-1
3E-2
2A-1
2A-2
D801 S4VB20
AC 37.0V
RED
BLK
C809 0.1/250
C810 2.2/63
D802
D803
-47.0V
R815 15k
D802,803 1S35-200A×2
A,B
C
D
TR601 2SC1841(E/F)
R617 22k
R611 2k (NB)
C601 0.01
R613 15k
D601
D601,602 1SS270A×2
L901 1μH
C901 0.022
R901 4.7
R903 10Ω(1W)
R619 39k
R902 4.7
R904 10Ω(1W)
L902 1μH
C902 0.022
R620 39k
TR602
R612 2k (NB)
C602 0.01
R614 15k
D602
R618 22k
R608 2k (NB)
R607 2k (NB)
R625,626,637,638 1k×4
TR602 2SC1841(E/F)
R626
R637
R625
R638
R624 300k
R628 10k
C606 0.022
R621 30k
TR604,605 2SC2458(BL)×2
TR608 2SA988(E/F)
ZD601 HZS7B-3
8.7V
9.2V
R623 47
TR607
8.5V
TR604
TR605
TR606
0V
-14.5V
R627 150k
R629 12k
R631 4.7
C605 22/10
C604 100/10
R622 10k
C603 330/6.3
R630 1k
SC601 S5F01A42
TR603 RN1241(A/B)
TR606 2SA1048(GR)
TR607 2SC1841(E/F)
TR610~612 2SC1841(E/F)
R639,641 680(1W)×2
R640,642 680(1W)
R643 1.8k (1W)
R644 1.5k (1W)
R641
R642
R639
R640
R643
R644
RL601
RL602
D605
D606
D607
24.0V
12.0V
50.0V
TR610
TR611
TR612
R632 100
R633 100
R634 100
0.6V
80mV
50mV
D605~607 1SS270A×3
R905 220(1W)
R907 220(1W)
R906 220 (1W)
R908 220 (1W)
SPEAKER TERMINALS
L-A
R-A
L-B
R-B
C907 0.01
C908 0.01
C911 0.01
C903
C904
C912 0.01
IU-2026-5 SPEAKER SW UNIT
OFF
A
B
A+B
SW601 SP SW
3B-1
3B-2
3B-3
AS0
AS0
OFF
GND
+B
H/P GND
6A-1
6A-2
6A-3
6A-4
6A-5
6A-6
R414~417 5.6k×4
R816,817,820,821 150×4



NG:

rked with this symbol ⚠ ▨ have critical characteristics.
.Y replacement parts recommended by the manufacturer.

N:

eturning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance
the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 k
e unit is defective.

NG:

return the unit to the customer until the problem is located and corrected.

DENON

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