

# ORDER NO. ARP-691-0



### MODEL A-77X COMES IN SEVEN VERSIONS DISTINGUISHED AS FOLLOWS:

Туре	Voltage	Remarks	Black	Silver
KU	AC120V only	U.S.A. model	0	-
кс	AC120V only	Canada model	0	_
HE	AC220V, 240V (switchable)	European continent model	0	0
НВ	AC220V, 240V (switchable)	United Kingdom model	0	-
S	AC110V, 120V, 220V, 240V (switchable)	General export model	0	
S/G	AC110V, 120V, 220V, 240V (switchable)	U.S. Military model	0	
HEZ	AC220V, 240V (switchable)	West Germany model	0	0

This service manual is applicable to the KU type.
For servicing of the KC, HE, HB and S, S/G, HEZ types, please refer to the additional service manual.

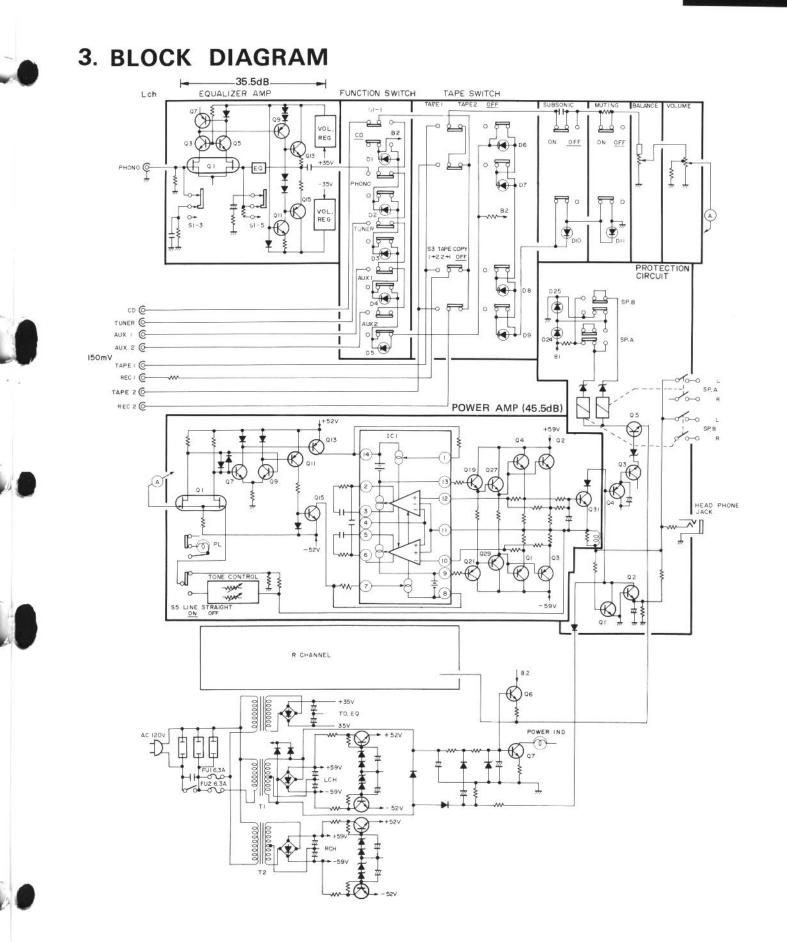
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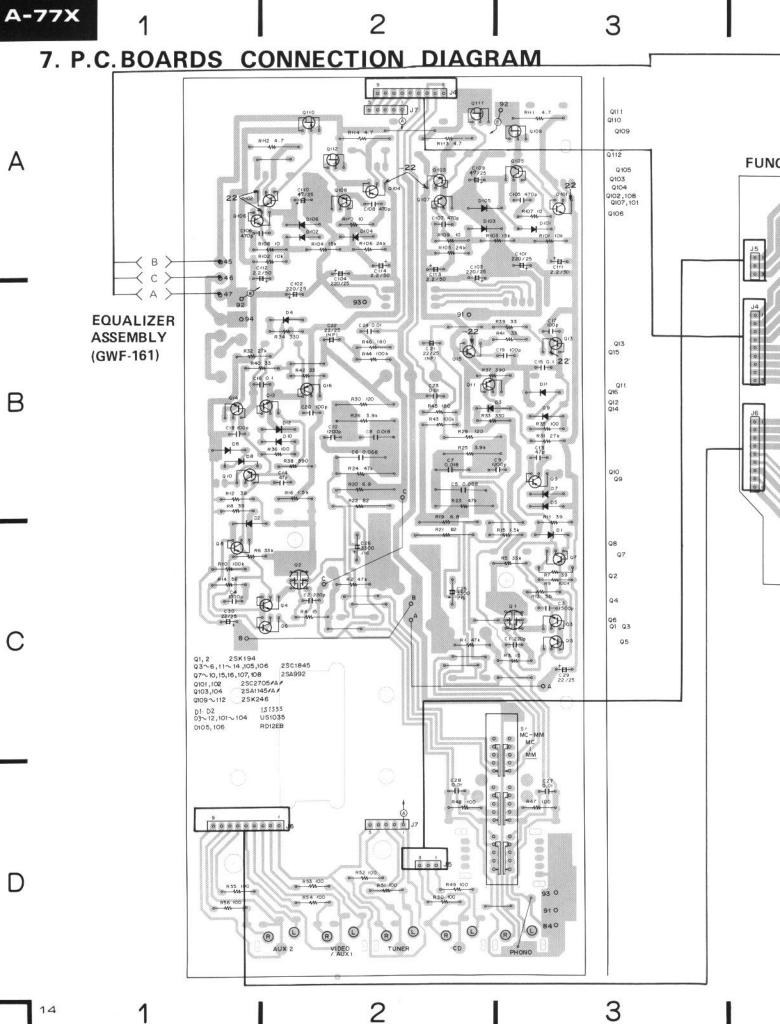
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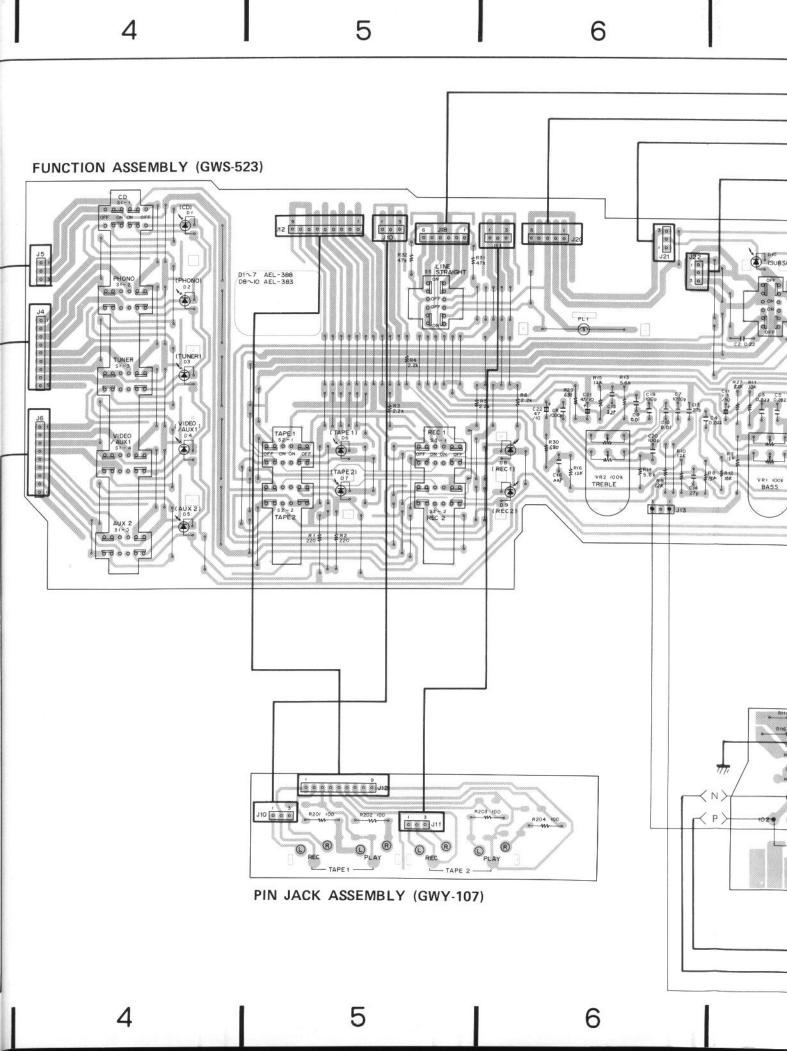
PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, California 90801 U.S.A. TEL: [800] 421-1404, [800] 237-0424

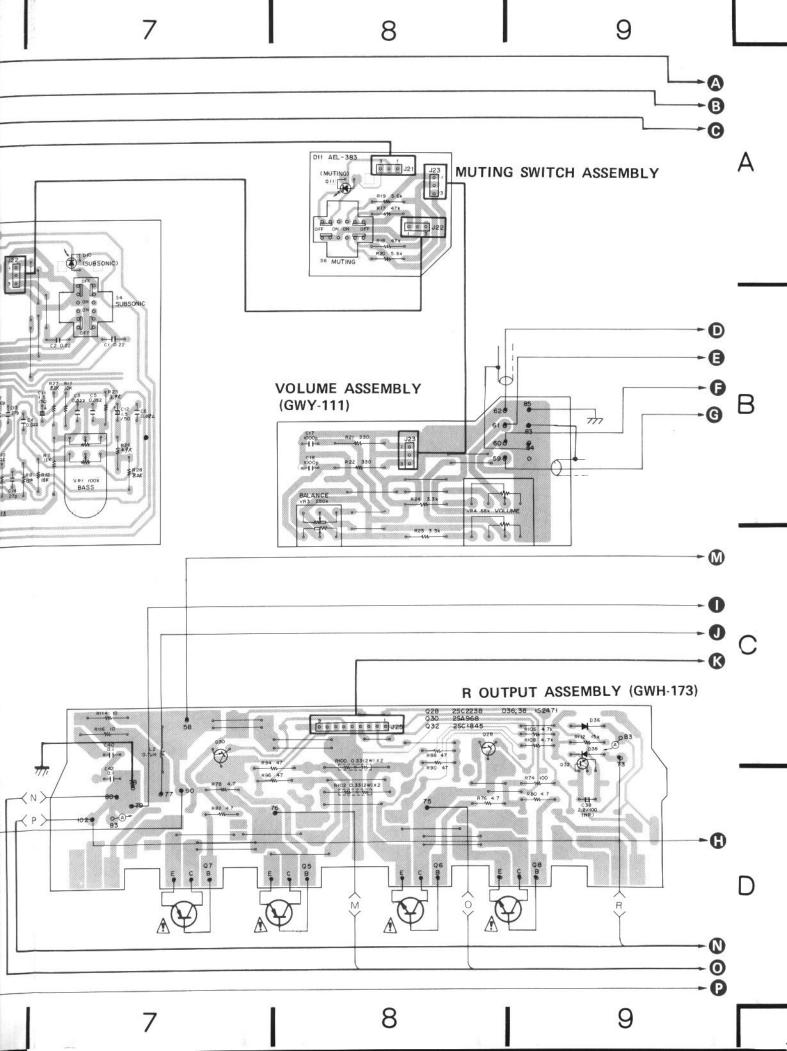
PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium TEL: 03/775:28:08 PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

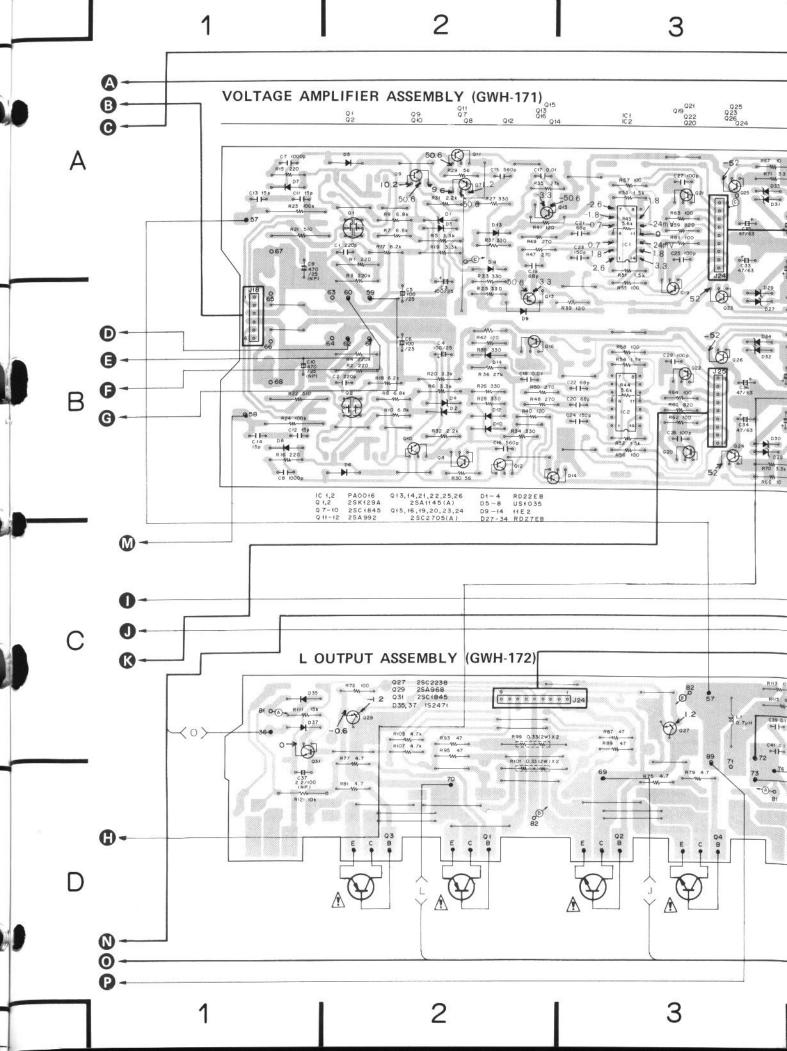


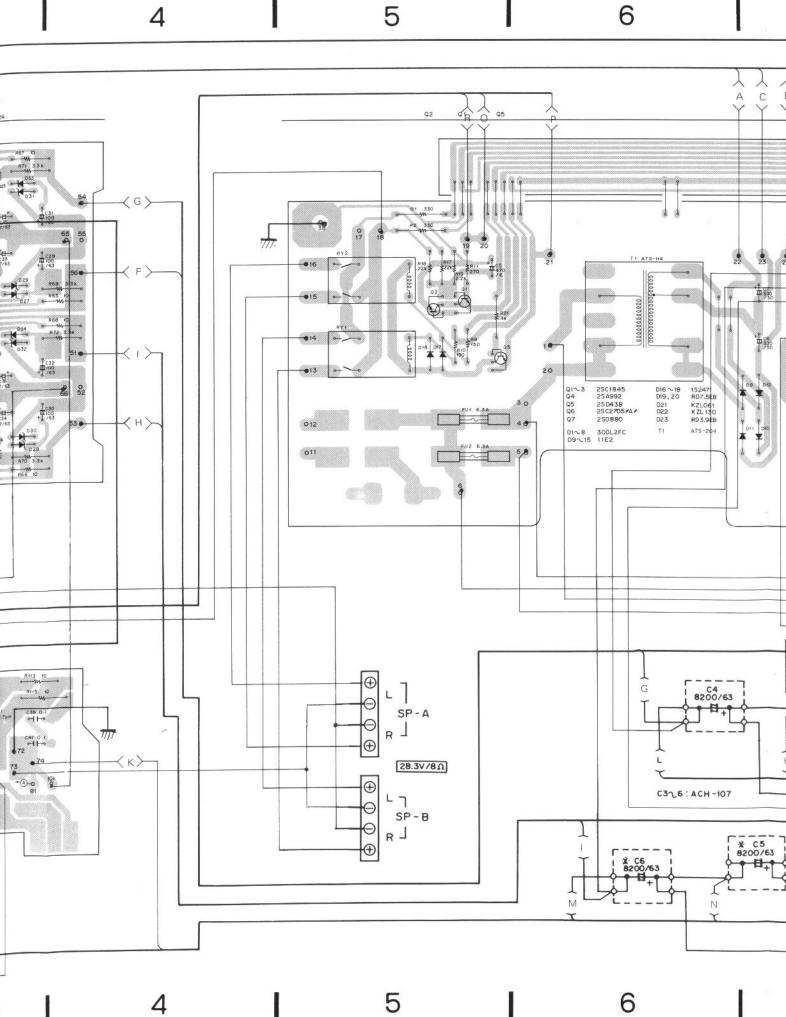
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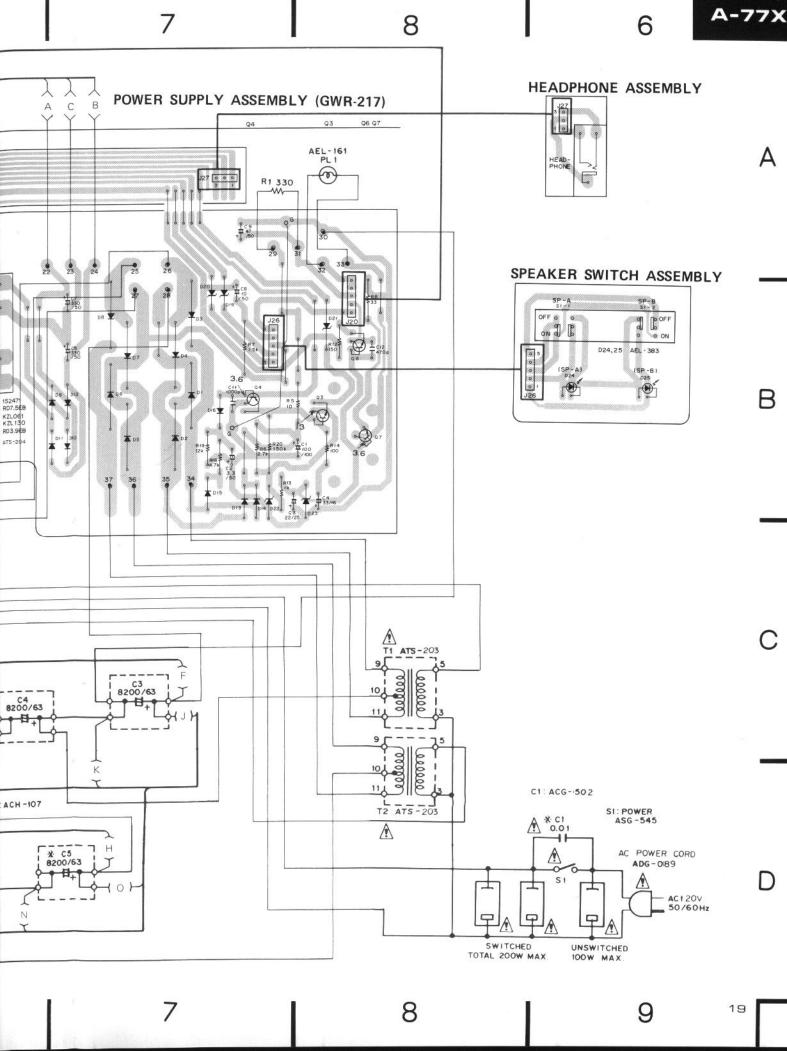












A-77X 8. SCHEMATIC DIAGRAM

EQUALIZER ASSEMBLY (GWF-161)

Α

B

С

VIDEO / AUX I

ALLY 2 F ISOMV LR

TAPE

ISDAV R

REC 2 1 Ģ

ISOMV LR C

D

White

856 100

(GWY -107)

W R205

6

LĢ ISOMV

PIN JACK ASSEMBLY

6-6 6-7 6-8

6-9

12-1 12-3 12-3 12-4 12-5 12-5 12-5 12-5 12-5 12-5 12-9

10-1 10-2 10-3

11-1

1-3

- 60

000

91-5-1 AUX 2

#3 2.2x

22

R5 2.21

R6 2.21

0 60

5-2

TAPE

0 500

50-

52-2-1 TAPE 2

5-0-| \$3-1-1 REC 1

53-2-1 REC 2

60

05 AUX 21

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9 TT 53-1-2

مفعر

9 00 83-2-2

CTAPE CTAPE

DT TTAPE 2

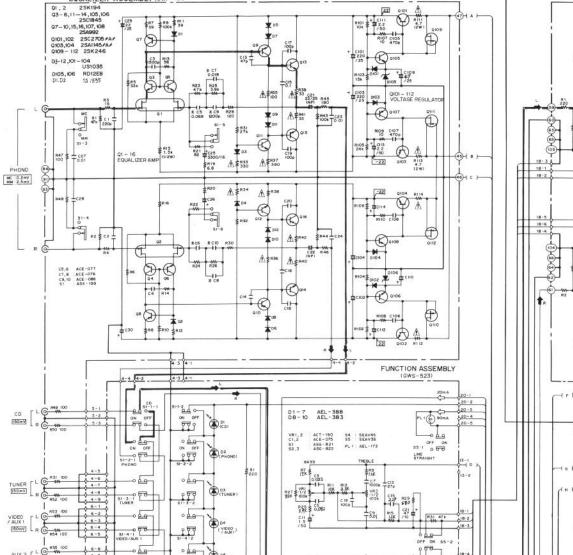
DB IREC 11

DOS IREC 2)

\$82 220

2

3



R26 CE II

YP!

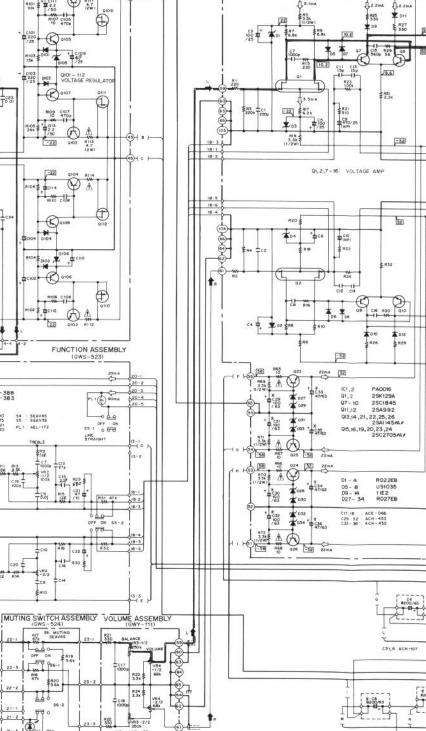
RB

11 54-2

570

# C2 0.22 \$4: \$UB:

11



VOLTAGE AMPLIFIER ASSEMBLY (GWH-17

[52]

20

2

55

R 16

A30

F19

VR2

tca

Ann

H17 17k

R18 47k

Ц

21-2 21-2 21-3 (MUTING) AEL-383

\$420 5.6k

86-2

C22 1

18-5 A18-6

VR4 -1/2 68k

R23 3.3k

R24 \$

VR3 -2/2 250k

VR3 ACT-179 VR4 : ACW-132

C18

H22 330

3

5

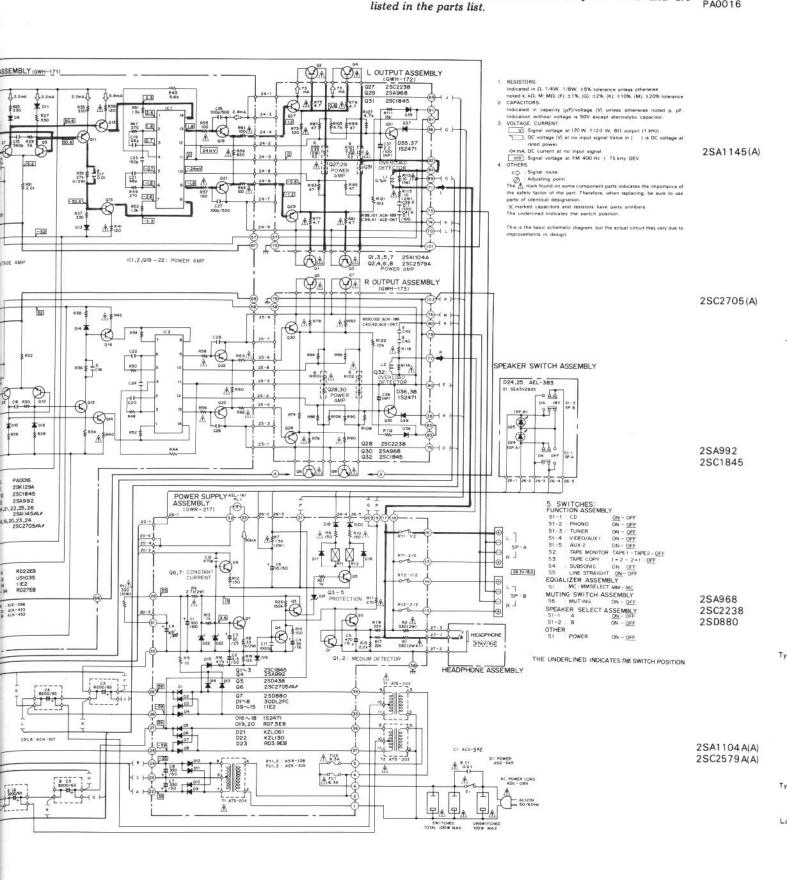
NOTE:



The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are

#### External App

PA0016



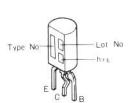
5

6

External Appearance of Transistors and ICs





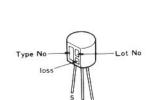




8

Type No

2SD438



 9

А

В

С

D

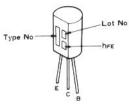
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Lot No

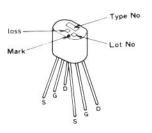
h FE

2SC2705(A)

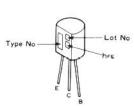
2SA1145(A)



2SK194

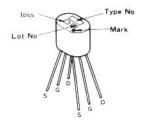


2SA992 2SC1845



2SK129A

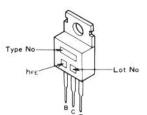
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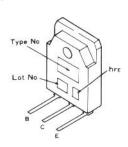
2SA968 2SC2238 2SD880

an a

SITION



2SA1104A(A) 2SC2579A(A)





- For Servicing this model, please refer to the A-77X/KU Service manual (ARP-691-0) with the exception of this Additional Service Manual.
- This additional service manual is applicable to the HE, HB, S, S/G types.
- A-77X is the same as the A-77X [BK] except for the exterior design (color).

	Applicat	ole model		
Туре	A-77X [BK]	A-77X	Power equipment	Destination
HE	0	0	AC220V (240V) switchable	European continent
нв	0	and (	AC240V (220V) switchable	United Kingdom
S	0	-	AC110V, 120V, AC220V, 240V (switchable)	General market
S/G	0	-	AC110V, 120V, AC220V, 240V (switchable)	U.S. Military

NOTES:

- Parts without part number cannot be supplied.
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- For your Parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
  - **★★** GENERALLY MOVES FASTER THAN ★.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

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The A-77X/HE, HB, S, S/G types are the same as the A-77X/KU type with the exception of the following sections.

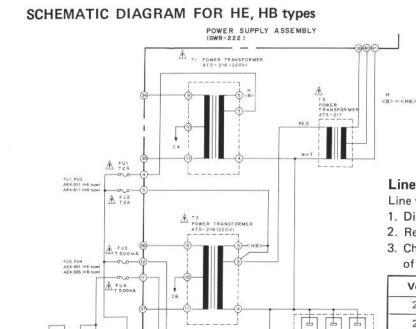
#### **Contrast of Miscellaneous Parts**

		Part No.								
Mark	Symbol & Description	KU type	HE type	HB type	S type	S/G type				
▲ ★	Power supply assembly	GWR-217	GWR-222	GWR-222	GWR-225	GWR-225				
▲ ★	T1 Power transformer (AC120V)	ATS-203								
▲ ★	T1 Power transformer (AC220V, 240V)		ATS-216	ATS-216						
▲ ★	T1 Power transformer (AC110, 120, 220, 240V)		*****		ATS-224	ATS-224				
▲ ★	T2 Power transformer (AC120V)	ATS-203								
▲ ★	T2 Power transformer (AC220V, 240V)		ATS-216	ATS-216						
▲ ★	T2 Power transformer (AC110, 120, 220, 240V)				ATS-224	ATS-224				
▲ ★	T3 Power transformer (AC120V)	ATS-204								
A *	T3 Power transformer (AC220V)		ATS-217	ATS-217						
<u> </u>	T3 Power transformer (AC120V only)				ATS-226	ATS-226				
A **	FU1, FU2 Fuse (6.3A)	AEK-309								
	FU1, FU2 Fuse (T2A)		AEK-017	AEK-511						
1 **	FU3, FU4 Fuse (T500mA)		AEK-401	AEK-505						
**	FU1 – FU4 Fuse (3.15A)				AEK-124	AEK-124				
**	Line voltage selector				AKX-507	AKX-507				
V V	AC socket 3P	AKP-504	AKP-502	AKP-505	AKP-504	AKP-504				
<u> </u>	Side board	AMS-057			AMS-057	AMS-057				
	Operating instructions (English)	ARB-660		ARB-660	ARB-660	ARB-660				
	Operating instructions (English/German/French/Italian)		ARE-140			******				
	Strain relief		AEC-882	AEC-882						
<u>A</u>	AC power cord	ADG-089	ADG-041	ADG-051	ADG-087	ADG-087				
-	Nylon rivet (Black)	AEP-194	AEP-194	AEP-194	AEP-194	AEP-194				
	Nyling rivet (Silver)		AEP-210							
	Packing case (Black)	AHE-517	AHE-629	AHE-629	AHE-517	AHE-602				
	Packing case (Silver)		AHE-630							
	Carton spacer					AHB-152				
	Screw (3 x 6)		BBZ030P060FZK	BBZ030P060FZK	BBZ030P060FZK	BBZ030P060FZ				
	Front panel assembly (black)	ANY-048	ANY-048	ANY-048	ANY-048	ANY-048				
	Front panel assembly (silver)		ANY-052							
	Bonnet case (Silver)		ANE-573							
	Knob (VOLUME) (Silver)		AAB-432							
1	Rotary knob (PHONO-SELECTOR) (Silver)		AAB-427							
	Rotary knob (BALANCE) (Silver)		AAB-429							
	Rotary knob (BASS, TREBLE) (Silver)		AAB-430							
	Push knob (POWER) (Silver)		AAY-277		*******					

## Power supply assembly (GWR-223, GWR-225)

The power supply assembly GWR-223 and GWR-225 are the same as the (GWR-217) with the exception of the following section.

			Part No.	
Mark	Symbol & Description	GWR-217 KU type	GWR-222 HE, HB types	GWR-225 S, S/G type
▲ ★	T1 Power transformer (120V)	ATS-204		



# Line voltage selection (FOR HE, HB TYPE)

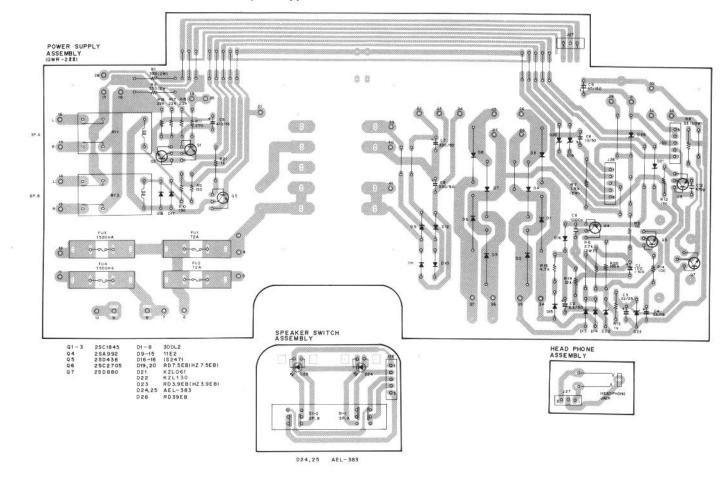
- Line voltage can be changed with following steps.
- 1. Disconnect the AC power cord.
- 2. Remove the top cover.
- 3. Change the connection wire (To Power transformer) of Terminal No. 3 (ORANGE) as follows.

Voltage	Terminal No. 3	Terminal No. 5
220V	Orange wire	
240V		Orange wire

4. Stick the line voltage lavel on the rear panel.

Part No.	Description					
AAX-193	220V lavel					
AAX-192	240V lavel					
Note:						

Transformer voltage switching is allowed with T1 and T2 but not with T3.



**P P** 

05 IHB typel 02 (HE type)

A 3P AC SOCKET (AC OUTLETS) UNSWITCHED SWICHED DUT 100W OUT 100W

P.C. BOARD PATTERN FOR HE, HB types

A

A

ST PUSH SWITCH IPOWER) ASG-545

0.01 AC G

502

AC POWER

ADG-061 (HB

