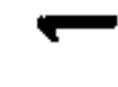
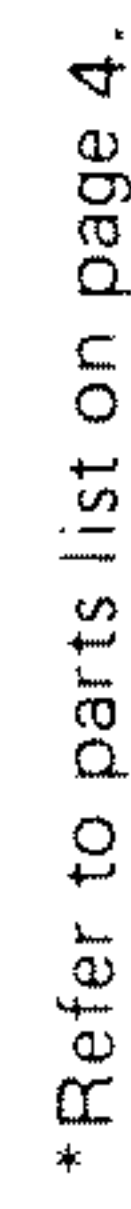
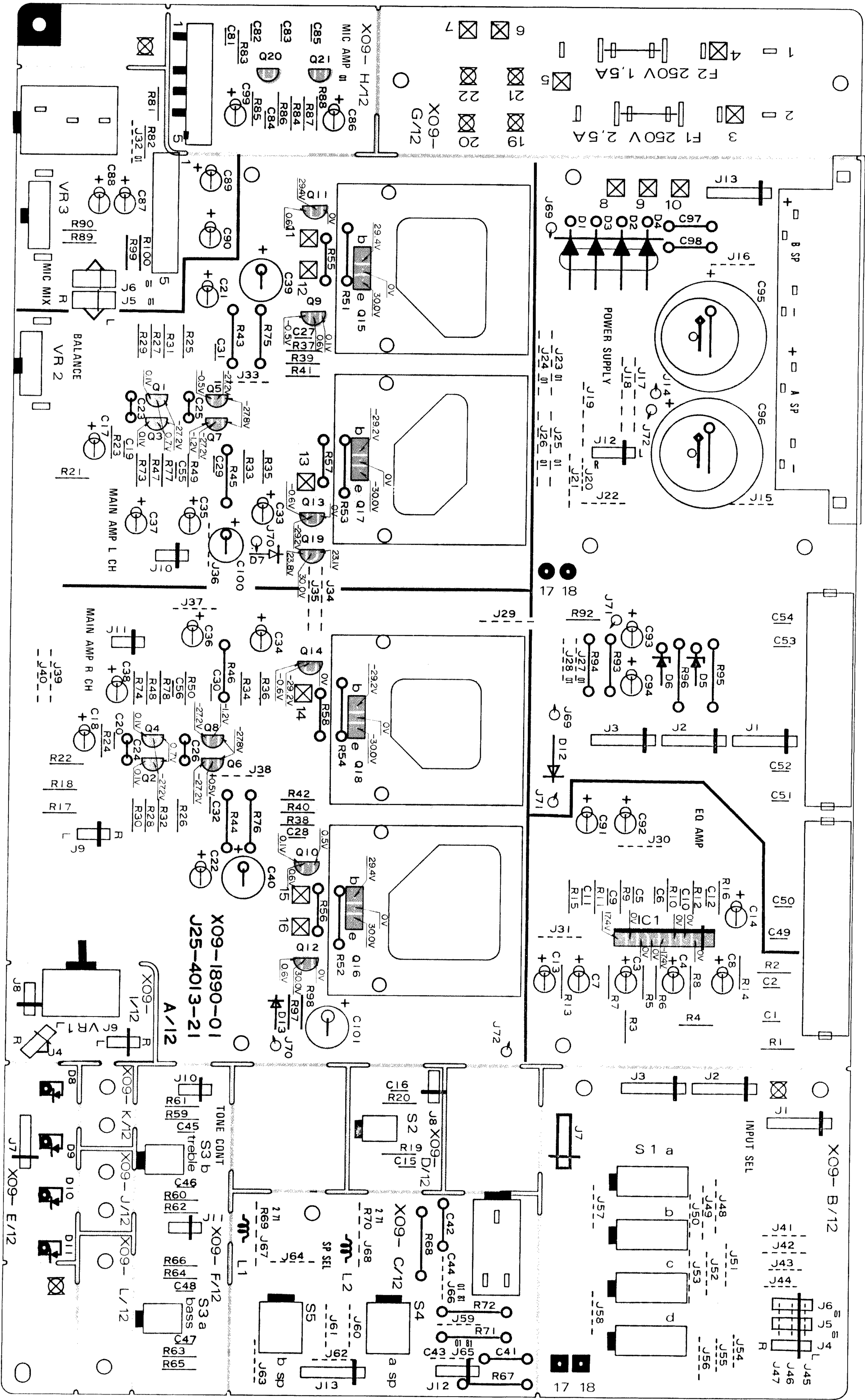


צבא וכלכלה שותפים



AUDIO (X09-1890-10) Component side view

PC BOARD



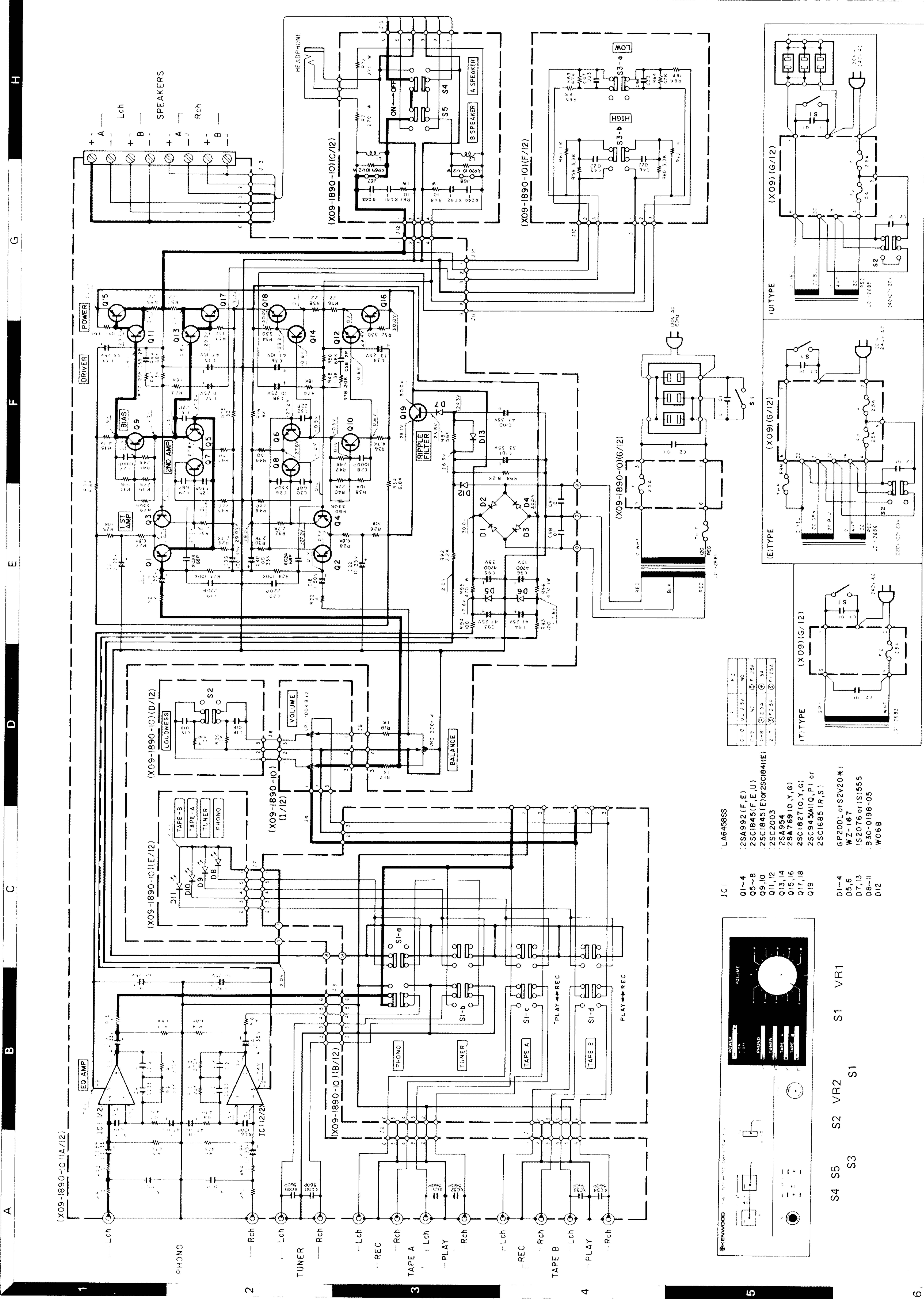
In this model, there are separated pc boards which was originally one. These separated pc boards can't be shipped independently.

ex.

Part No. of pc board	Separated portion no.
X09-1230-00 (A/3)	
X09-1230-00 (B/3)	
X09-1230-00 (C/3)	

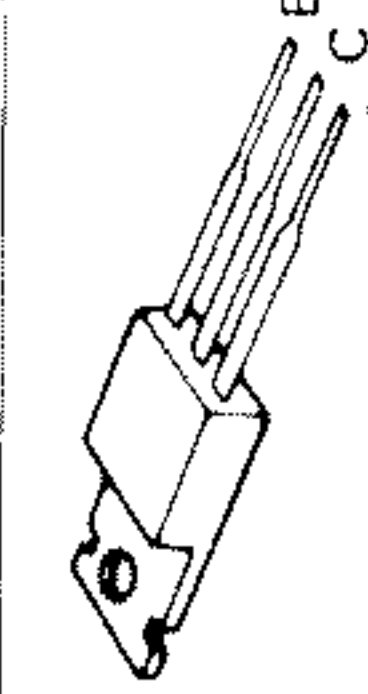
In the example shown above, separated portion can't be ordered independently. In case only A/3 was ordered, pc board assy of X09-1230-00, which all A/3, B/3, C/3 included, will be shipped.

Refer to the schematic diagram for the values of capacitors and resistors.
The PC board drawing is viewed from the side easy to check.

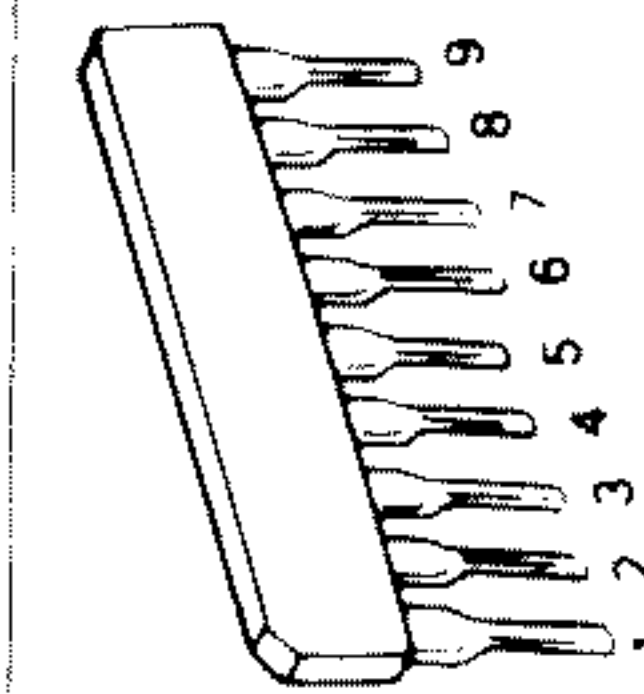


*** CAUTION:**
When using the substitution, make sure the transistor leads are inserted in the correct position

- 2SA945
- 2SA992
- 2SC945(A)
- 2SC1685
- 2SC1841
- 2SC1845
- 2SC2003

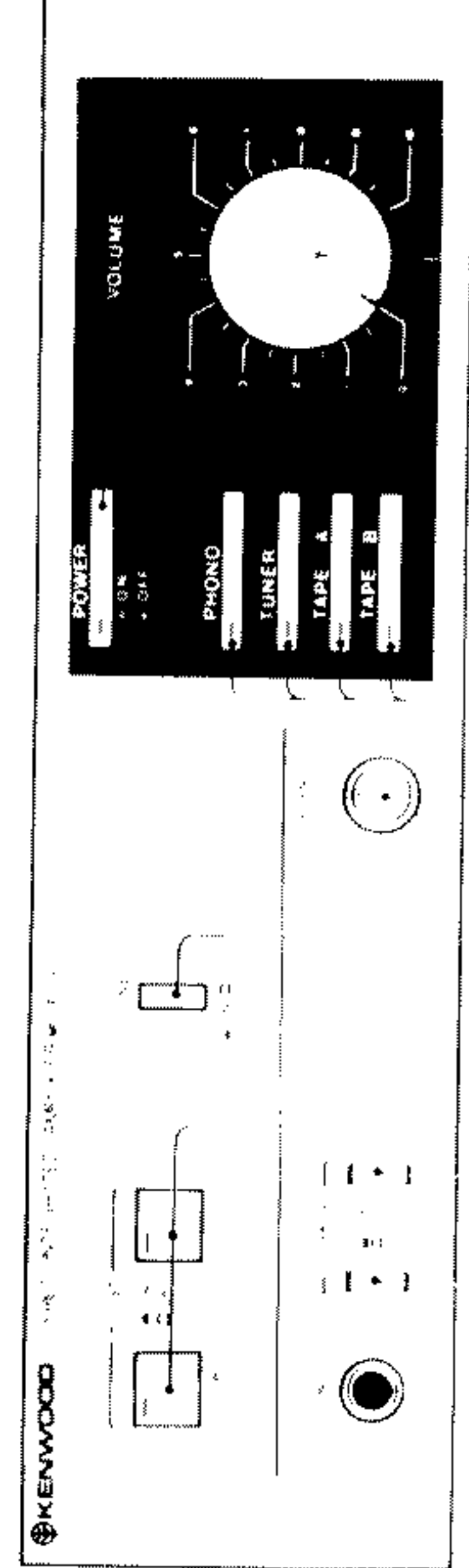


2SA769
2SC1827



LA6458SS

- IC1
Q1~4
Q5~8
Q9,10
Q11,12
Q13,14
Q15,16
Q17,18
Q19
- LA6458SS
2SA992(F,E)
2SC1845(F,E,U)
2SC1845(E) or 2SC1841(E)
2SC2003
2SA954
2SA769(O,Y,G)
2SC1827(O,Y,G)
2SC945(A) or 2SC1841(P) or 2SC1685(R,S)
GP200L or S2V20*1
WZ-167
IS2076 or IS1555
B30-0198-05
W06B
- D1~4
D5,6
D7,13
D8~11
D12



- S4 S5 S2 VR2 S1
VR1
S3

SPECIFICATIONS

Power output
22 watts* per channel minimum RMS, both channels driven, at 8 ohms from 40 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion.

Total Harmonic Distortion
AUX input to SPEAKER output
(40 Hz to 20,000 Hz).....0.09% at rated power into 8 ohms
(40 Hz to 20,000 Hz).....0.05% at 1/2 rated power into 8 ohms

PHONO input to SPEAKER output (1 kHz).....0.05% at rated power with VOLUME -20 dB
Intermodulation Distortion.....0.09% at rated power (60 Hz, 7 kHz = 4:1)
Damping Factor.....30:1 kHz into 8 ohms
Power Bandwidth.....20 Hz to 35,000 Hz at 0.2% T.H.D.
Frequency Response.....10 Hz to 60 kHz, -0 dB, -3 dB

Input Sensitivity/Impedance
Phono.....2.5 mV/50 k ohms
Tuner, Tape.....150 mV/30 k ohms
Signal-to-Noise Ratio (IHF, A)
Phono.....71 dB for 2.5 mV input
77 dB for 5.0 mV input
100 dB for 150 mV input
Phono Maximum Input Level.....150 mV RMS
T.H.D. 0.05% at 1,000 Hz
Output Level/Impedance
Tape REC (Pin).....150 mV/14 ohms
Phono Frequency Response.....150 mV/14 ohms
20 Hz to 20,000 Hz
Boost Control
Low.....+8 dB at 100 Hz
High.....+8 dB at 10 kHz
Loudness Control.....+3 dB at 100 Hz
at -30 dB VOLUME Level

GENERAL
Power Requirements.....60 Hz 120 V U.S.A. & Canada
Model or 50/60 Hz 110-120 V
220-240 V, switchable
1.1 A U.L. and CSA
95 W

Power Consumption.....20 W (A, signal)
A.C. Outlet.....Switched 2-Pronged
Dimensions.....250 mm (9.8 in.)
Weight.....2.3 kg (5.1 lb)

* When substituting, Extra Trace Components Table Required
For Output Stage Output Caps. by Amplifier U.S.A.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

DC voltages are measured by a VOM of 20kΩ/V input impedance.

A-7

PARTS LIST

***New Parts**
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

[illegible][illegible]

A-7 A-7

PARTS LIST

Ref. No.	Parts No.	Description	Re-
参照番号	部品番号	部品名 / 規格	備考
C37 ,38	C24-1410-67	ELECTRO 10UF	25V
C39 ,40	C24-0510-77	ELECTRO 100UF	35V
C41 ,44	C46-1710-66	MYLAR 0.1UF	K
C41 ,44	C46-1710-66	MYLAR 0.1UF	K
C41 ,42	C46-1747-36	MYLAR 0.047UF	K
C45 ,46	C46-1722-36	MYLAR 0.022UF	K
C47 ,48	C46-1733-36	MYLAR 0.033UF	K
C49 -54	C52-1756-16	CERAMIC 560PF	K
C51 ,56	C71-1712-05	CERAMIC 12PF	K
C91 ,92	C24-1410-67	ELECTRO 10UF	25V
C93 ,94	C24-1447-67	ELECTRO 47UF	25V
C95 ,96	C90-0472-05	ELECTRO 4700UF	35V
C97 ,98	C54-2710-39	CERAMIC 0.01UF	P
C100	C24-0547-67	ELECTRO 47UF	35V
C101	C24-0533-67	ELECTRO 33UF	35V
C102	C55-1710-38	CERAMIC 0.01UF	Z
102 28	E11-0101-05	PHONE JACK (HEADPHONE)	*
103 28	E13-0618-05	PHONE JACK	
104 28	E20-0817-05	TERMINAL BOARD(SPKRS)	
F1	F05-2521-05	FUSE	250V 2.5A
F1	F05-3528-05	FUSE	250V F2.5A
F1	F05-2529-05	FUSE	250V 2.5A
F2	F05-1227-05	FUSE	250V F1.25A
F2	F05-1521-05	FUSE	250V 1.5A
105 38	J13-0041-05	FUSE HOLDER	KU
105 38	J13-0054-05	FUSE HOLDER	TE
L1 ,2	L39-0085-05	COIL	E
106	M09-0321-05	SCREW /3X10	
R43 ,44	R43-1215-15	FL-PROOF R0150	J 2E
R45 ,46	R43-1222-15	FL-PROOF R0220	J 2E
R51 -54	R43-1233-15	FL-PROOF R0330	J 2E
R55 -58	R92-0166-05	METAL-PLATED.22	K 3D
R67 ,68	R47-5410-05	FL-PROOF R310	J 3A
R69 ,70	R40-8310-05	RC	10
R71 ,72	R47-5427-15	FL-PROOF R3770	J 3A
R75 ,76	R43-1282-05	FL-PROOF R082	J 2E
R93 ,94	R43-1210-15	FL-PROOF R0100	J 2E
R95 ,96	R47-5447-15	FL-PROOF R5470	J 3A
VR1	R06-5068-05	POTENTIOMETER	100k Ω
VR2	R01-5039-05	POTENTIOMETER	200k
S1	S42-0024-05	PUSH SWITCH(SELECTION)	*
S2	S40-2153-05	PUSH SWITCH(LOUDNESS)	*
S3	S42-0075-05	PUSH SWITCH(CHIGH,LOW)	*
S4 ,5	S40-2154-05	PUSH SWITCH(SPKR SEL)	*
D1 -4	V11-2400-40	GP20UL	
D5 ,6	V11-4111-60	M2-167	
D7	V11-0271-05	1522076	
D12	V11-0295-05	M068	
D13	V11-0271-05	1522076	
IC1	V30-0746-10	LA6588S	
Q1 -4	V01-0992-10	2SA922(F,E)	
Q5 -8	V03-1845-10	2SC1845(F,E)	
Q9 ,10	V03-1845-40	2SC1845(E)	OR 2SC1841(E)
Q11 ,12	V03-0003-00	2SC2003	
Q13 ,14	V01-0954-00	2SA954	
Q15 ,16	V01-0769-10	2SA169(C,Y,G)	
Q17 ,18	V03-1827-20	2SC1827(C,Y,G)	
Q19	V03-0945-80	2SC945(A,I)(C,P)	
Q19	V03-1685-20	2SC1685(F,R,S)	

A product of
TRIO-KENWOOD CORPORATION
Shinryo, Shibuya Bldg., 17-5, 2-chome, Shibuya Shinjuku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION

TRIO-KENWOOD CANADA INC.

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TRIO KENWOOD AUSTRALIA PTY LTD

MINO-KENWOOD (AUSTRALIA) PTY LTD.
116 WOODROCK PLACE, GPO BOX 2550 MELBOURNE
KENWOOD & LEE ELECTRONICS LTD.

Wing Kee Building 5th Floor 34-37 Cantonment Road Central Hong Kong