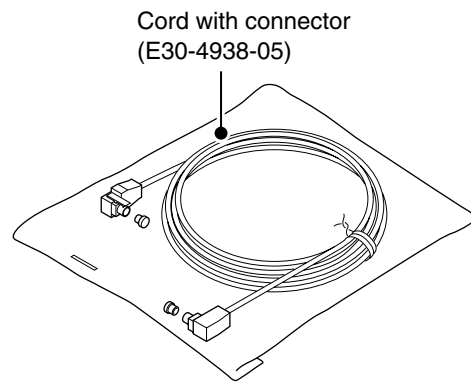
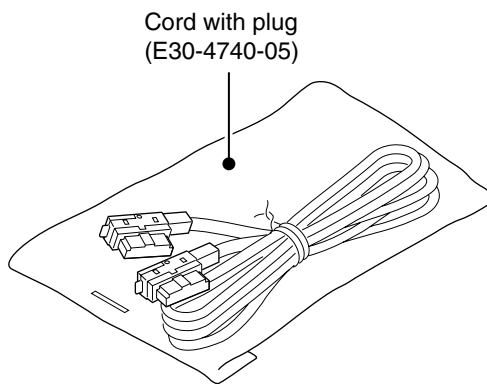
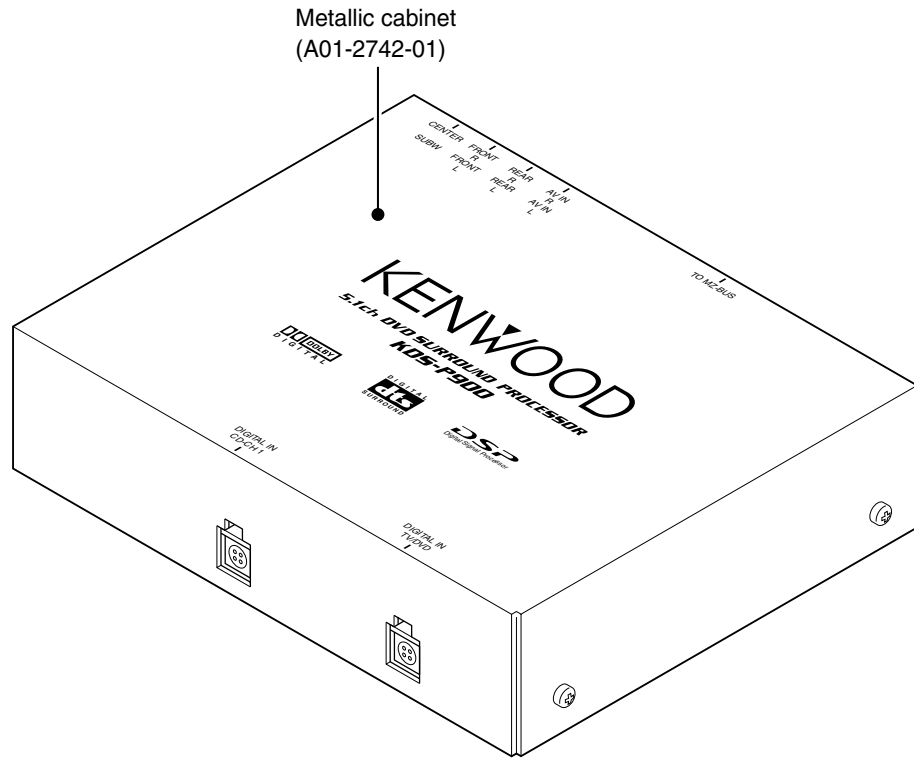
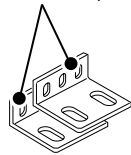


# KDS-P900

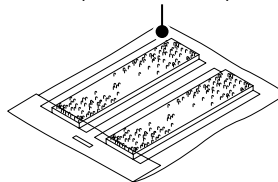
## SERVICE MANUAL



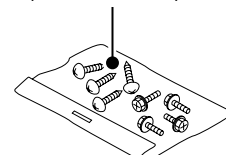
Mounting hardware  
(J21-3801-04) x2



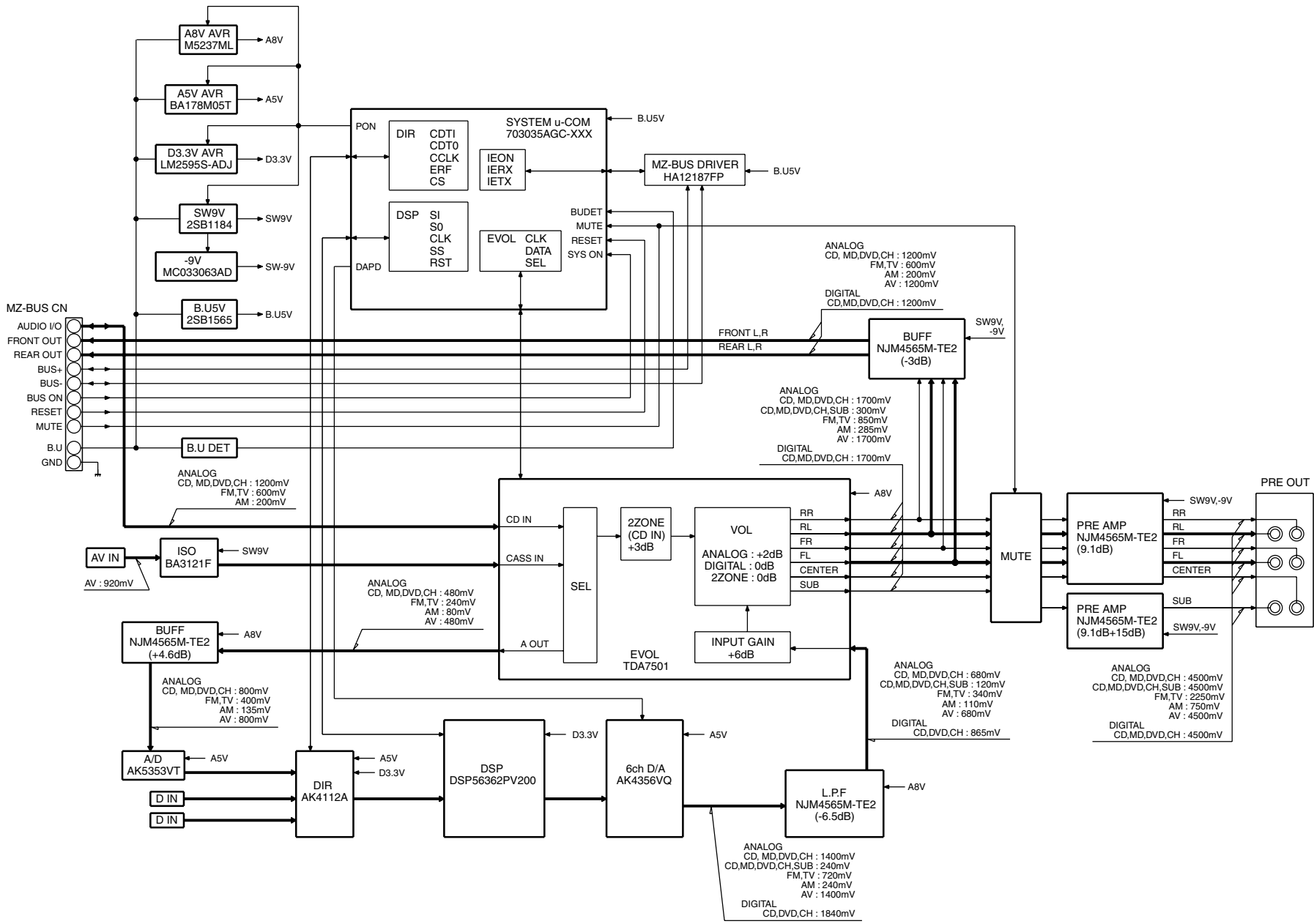
Magic tape  
(H30-0051-05)



Screw set  
(N99-1558-05)



BLOCK DIAGRAM



## COMPONENTS DESCRIPTION

### PROCESSOR UNIT (X32-4980-00)

Ref.	Purpose, Function	Operation, Condition, Compatibility
IC1	System microcomputer	
IC2	DSP IC	
IC3	DIR	
IC4	A/D converter	Analog-to-digital conversion.
IC5	E-VOL	
IC6	D/A converter	Digital-to-analog conversion.
IC7	Inverter for DSP IC's oscillator	
IC8	Isolation IC	Isolation IC for AUDIO IN.
IC9	Switching regulator	DIGITAL 3.3 V AVR.
IC10	Power supply IC	Preamp (for -9 V).
IC12	Reset IC	Executes resetting at below 4.2 V (Output L).
IC13	BUS IC	Bus communication IC.
IC14	Power supply IC	AVR for AUDIO 5 V.
IC15	Power supply IC	
IC16	SRAM for DSP IC	
IC17	SRAM for DSP IC	
IC18	ROM for dts	
IC19	Opamp	Opamp for reference voltage output.
IC20-22	Opamp	D/A converter output LPF.
IC23-25	Opamp	Opamp for Pre-Out output.
IC26	Muting logic circuit	2-input NOR (x 2).
IC28, 29	Opamp	Bus audio output buffer.
IC30	Opamp	A/D converter input buffer.
IC31	Muting logic circuit	2-input NOR (x 2).
IC32	Muting logic circuit	2-input AND.
Q1-3	Preamp (+9 V) SW	Supplies +9 V when the bases of Q1 and Q3 are "H" and the base of Q2 is "L".
Q4-6	Preamp (-9 V) SW	Supplies -9 V when the bases of Q4 and Q6 are "L" and the base of Q5 is "H".
Q7, 8	Preamp (+9 V) AVR	Turns ON when the base of Q7 is "H".

Ref.	Purpose, Function	Operation, Condition, Compatibility
Q9, 10	Preamp (+9 V) SW	Turns ON when the base of Q10 is "H".
Q11, 12	AUDIO +B AVR	Turns ON when pin 2 of Q12 is "H".
Q13, 14	AUDIO 5 V SW	Turns ON when pin 2 of Q17 is "H".
Q16	DIGITAL 3.3 V SW	Turns ON when the base is "H".
Q17	AUDIO 5 V SW	Turns ON when pin 2 of Q17 is "H".
Q18, 19	B.U. 5 V AVR	Turns ON when the base of Q18 is "H".
Q101	P-ON 5 V	Turns ON when the base is "L".
Q103	System ON/OFF request SW	Turns ON and sends the System ON request when the base is "H".
Q104	Back-Up detection SW	Turns ON when Back-Up is "H", OFF when power down is detected.
Q105	Reset SW	Executes resetting when the base is "H".
Q106	IC26 muting SW	Turns ON to apply muting when the base is "L".
Q107	BUS MUTE inversion SW	Turns ON when BUSMUTE is "H".
Q201	FET	5 V:3.3 V level shifting FET.
Q202	FET	5 V:3.3 V level shifting FET.
Q204	FET	5 V:3.3 V level shifting FET.
Q301	E-VOL muting SW	Turns ON to apply muting when the base is "H".
Q499	PRE-OUT muting SW	Turns ON to mute CENTER/SUB when pin 2 is "H".
Q500	PRE-OUT muting SW	Turns ON to mute FR/FL when pin 2 is "H".
Q501	PRE-OUT muting SW	Turns ON to mute RR/RL when pin 2 is "H".
Q502	PRE-OUT muting SW	Turns ON to mute CENTER when pin 2 of Q499 is "H".
Q503	PRE-OUT muting SW	Turns ON to mute SUB when pin 2 of Q499 is "H".
Q504	PRE-OUT muting SW	Turns ON to mute FR when pin 2 of Q500 is "H".
Q505	PRE-OUT muting SW	Turns ON to mute FL when pin 2 of Q500 is "H".
Q506	PRE-OUT muting SW	Turns ON to mute RR when pin 2 of Q501 is "H".
Q507	PRE-OUT muting SW	Turns ON to mute RL when pin 2 of Q500 is "H".

## Relation Between 2ZONE MUTE Terminals

	MUTE_F Terminal	MUTE_R Terminal	MUTE Terminal
2zone ON [Speaker Select NORMAL]	Lo output	Hi output	Hi: MUTE ON (Muting enabled for Front speakers)
2zone ON [Speaker Select REVERSE]	Hi output	Lo output	Hi: MUTE ON (Muting enabled for Rear speakers)
2zone OFF	Lo output	Lo output	Hi: MUTE ON (Muting enabled for Front/R

# KDS-P900

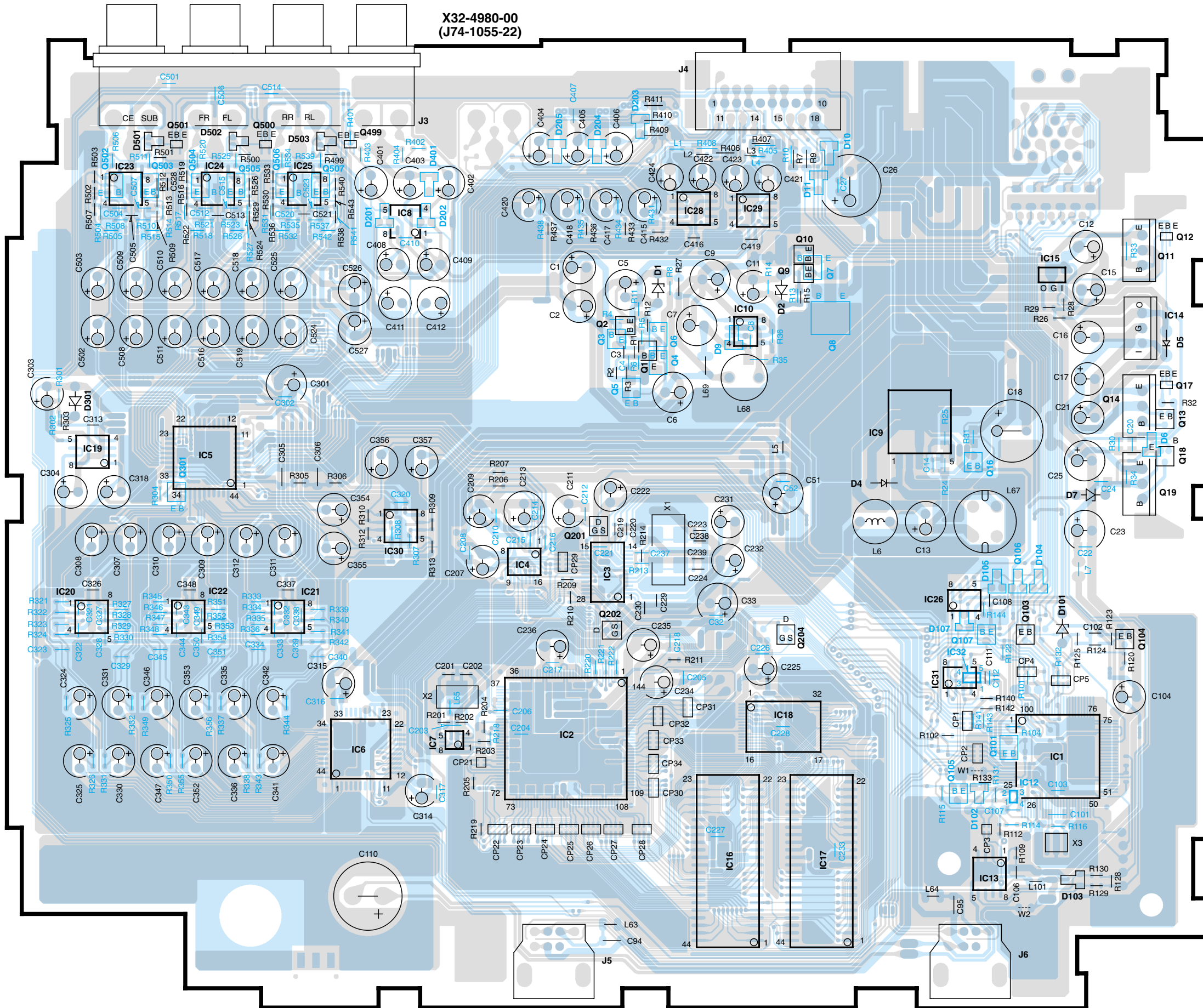
## MICROCOMPUTER'S TERMINAL DESCRIPTION

System Microcomputer 703035AGC-015 : IC1 (X32-4980-00)

Pin	Pin Name	I/O	Purpose	Processing Operation	Processing During Non-Operation
1	DIR_CS	O	DIR (AK4112A) chip select.	L: DIR communication permitted.	H
2	MUTE_F	O	FRONT muting enable terminal.	L: 2-zone main source (when 2ZONE is OFF). H: 2-zone sub source.	H
3	DIR CDTI	I	DIR (AK4112A) DATA input terminal.	DIR data input.	Input
4	DIR CDTO	O	DIR (AK4112A) DATA output terminal.	DIR data output.	Last status held
5	DIR CCLK	O	DIR (AK4112A) CLOCK output terminal.	DIR communication clock output.	H
6	Evdd	-	Positive power supply terminal for function-sharing terminals.	Positive power supply.	-
7	Evss	-	GND terminal for function-sharing terminals.	GND potential.	-
8-11	NC	O	Not used.	Open (Output fixed at Low).	L
12	DSP_SI	I	DSP (DSP56362) DATA input terminal.	DSP data input	
13	DSP_SO	O	DSP (DSP56362) DATA output terminal.	DSP data output.	Last status held
14	DSP_CLK	O	DSP (DSP56362) CLOCK output terminal.	DSP communication clock output.	L
15	DSP_SS	O	DSP (DSP56362) Communication Permission output terminal.	L: Start of communication permitted.	H
16	DSP_RST	O	(DSP56362) RESET output terminal.	L: DSP Reset.	H
17	NC	O	Not used.	Open (Output fixed at Low).	L
18	IC/Vpp	-	IC connected directly to Vss.	Internally connected terminal.	-
19	DA_PD	O	D/A converter Power Down SW.	L: Power Down.	H
20	P_ON	O	P-ON control output terminal.	H: OFF. L: ON.	Hi-Z
21,22	NC	O	Not used.	Open (Output fixed at Low).	L
23	IERX	I	IE bus input.	IE bus input.	
24	IETX	O	IE bus output.	IE bus output.	L
25,26	NC	O	Not used.	Open (Output fixed at Low).	L
27	IE_ON	O	IEBUS current driver power supply terminal.	L: STBY. H: Bus communication permitted.	L
28	MUTE	O	MUTE control terminal.	L: OFF. H: ON.	L
29,30	NC	O	Not used.	Open (Output fixed at Low).	L
31	RESET	I	System reset input	L: Reset. → H: Start of operation.	-
32	XT1	I	Sub system clock oscillation terminal.	Open.	-
33	XT2	-	Sub system clock oscillation terminal.	Open.	-
34	REGC	I	Regulator oscillator connection terminal.	Connection of an electrolytic capacitor (1 uF).	-
35	X2	-	Main system clock oscillation terminal (12.58 MHz).	System clock oscillation terminal.	-
36	X1	I	Main system clock oscillation terminal (12.58 MHz).	System clock oscillation terminal.	-
37	Vss	-	GND potential.	GND potential.	-
38	Vdd	-	5 V potential.	5 V potential.	-
39	CLKOUT	O		Internal system clock output terminal.	-
40-54	NC	O	Not used.	Open (out fixed at Low).	L
55	BVdd	-		Positive power supply for bus interfacing.	-
56	BVss	-		GND for bus interfacing.	-
57-69	NC	O	Not used.	Open (Output fixed at Low).	L
70	REF_CON	O	A/D port reference voltage control terminal.	A/D reference voltage control.	
71	Avdd	-		A/D power supply.	-
72	Avss	-		A/D GND potential.	-
73	Avref	I	A/D port reference voltage input.	A/D reference voltage input.	-
74-85	NC	I	Not used	Connected to GND potential.	
86	NC	O	Not used	Open (Output fixed at Low).	L
87	BU_DET	I	Back-Up detection terminal.	L: Back-Up ON detection. Open (Output fixed at Low). Detection voltage: 8.12 - 8.42 V.	
88	NC	O	Not used.	Open (Output fixed at Low).	L
89	SYS_REQ	I	K-Bus ON request detection terminal.	L: System ON request detected.	Input
90,91	NC	O	Not used.	Open (Output fixed at Low).	L
92	DIR_ERF	I	DIR digital data error input terminal.	L: Normal. H: Error.	
93	NC	O	Not used.	Open (Output fixed at Low).	L
94	EVOL_SEL	O	E-VOL (A354) selector output terminal.	L: Communication permitted.	H
95	EVOL_DATA	O	E-VOL (A354) DATA output terminal.	Electronic Volume data output.	Last status held
96	EVOL_CLK	O	E-VOL (A354) CLOCK output terminal.	Electronic Volume communication clock output.	H
97-99	NC	O	Not used.	Open (Output fixed at Low).	L
100	MUTE_R	O	Rear muting enable terminal.	L: 2-zone main source (when 2ZONE is OFF). H: 2-zone sub source.	H

# PC BOARD (COMPONENT SIDE VIEW)

X32-4980-00  
(J74-1055-22)



X32-4980-00

IC	Q	
1		6H
2		5E
3		5F
4		4E
5		4C
6		6D
7		5E
8		2D
9		4G
10		3F
12		6H
13		6H
14		3I
15		3H
16		6F
17		6G
18		5G
19		4B
20		5B
21		5D
22		5C
23		2C
24		2C
25		2D
26		5H
28		2F
29		2F
30		4D
31		5H
32		5H
1	2	3F
2	3	3F
3	4	3F
4	5	3F
5	6	3F
6	7	3G
7	8	3G
8	9	3G
9	10	3G
10	11	3I
11	12	2I
12	13	4I
13	14	3I
14	15	4H
15	16	3I
16	17	6H
17	18	5H
18	19	6H
19	101	5H
101	103	5H
103	104	5I
104	105	6H
105	106	5H
106	107	5H
107	201	4F
201	202	5F
202	204	5G
204	301	4C
301	499	2D
499	500	2C
500	501	2C
501	502	2C
502	503	2C
503	504	2C
504	505	2C
505	506	2D
506	507	2D

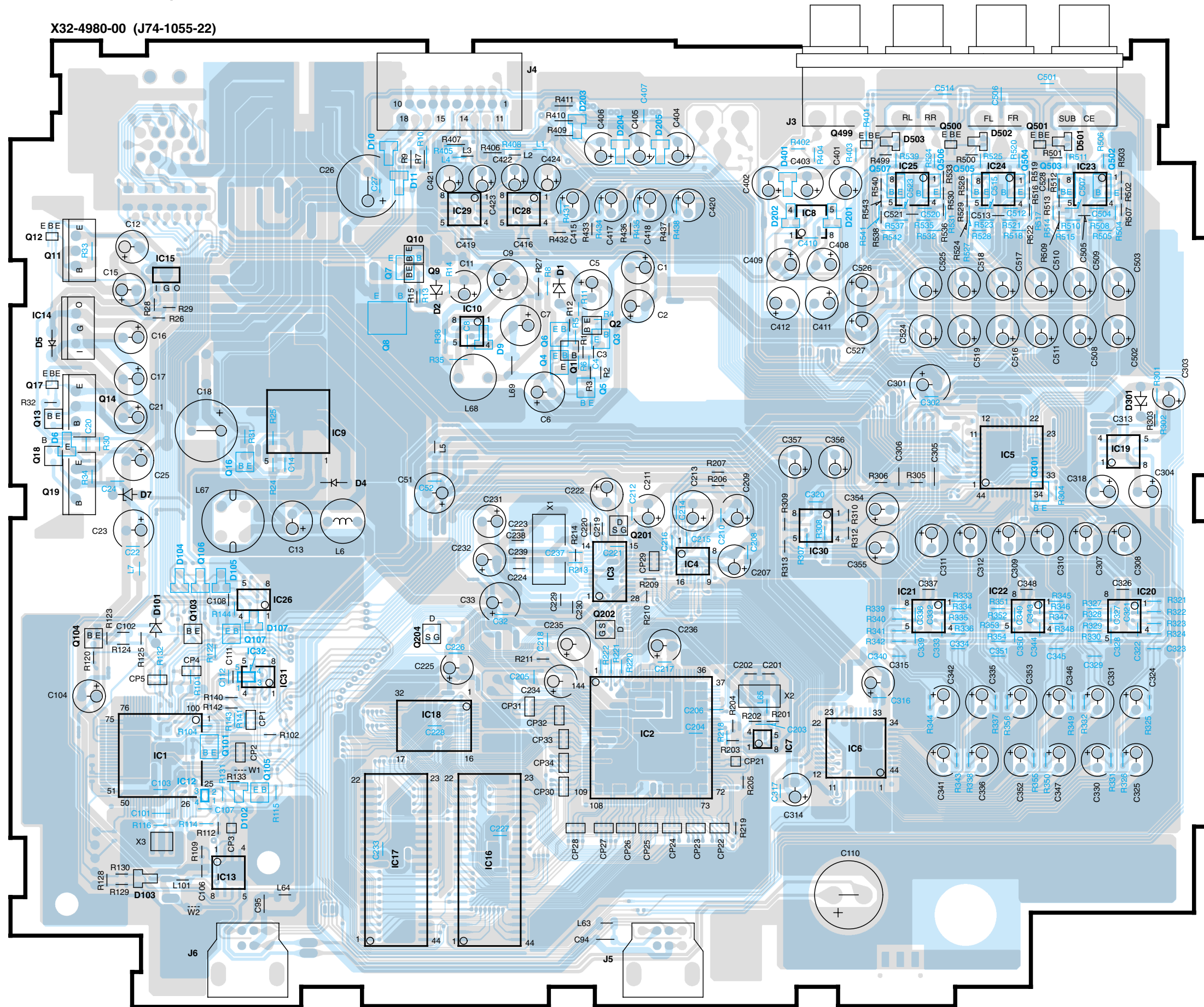
Refer to the schematic diagram for the values of resistors and capacitors.

5

6

# PC BOARD (FOIL SIDE VIEW)

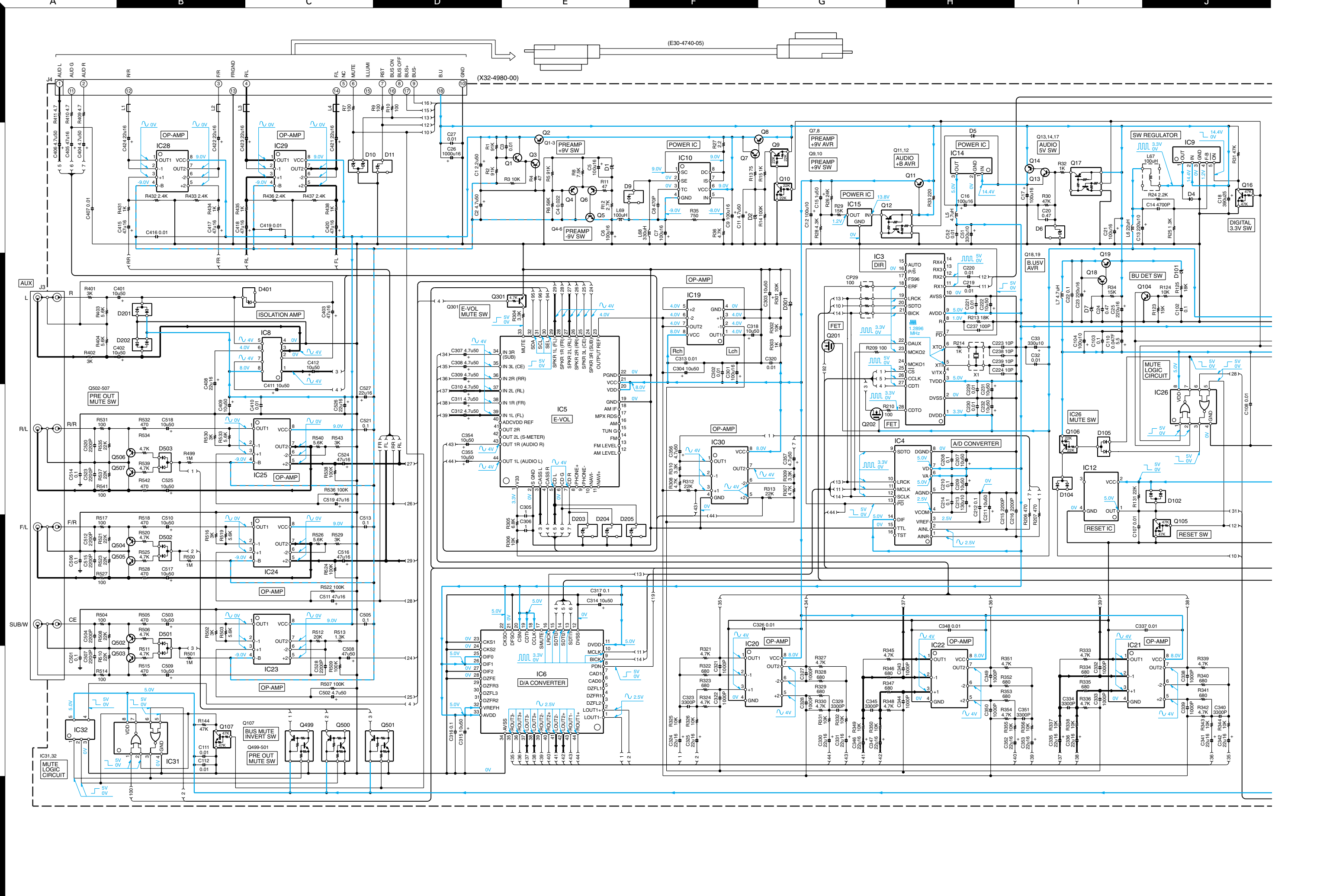
X32-4980-00 (J74-1055-22)



X32-4980-00

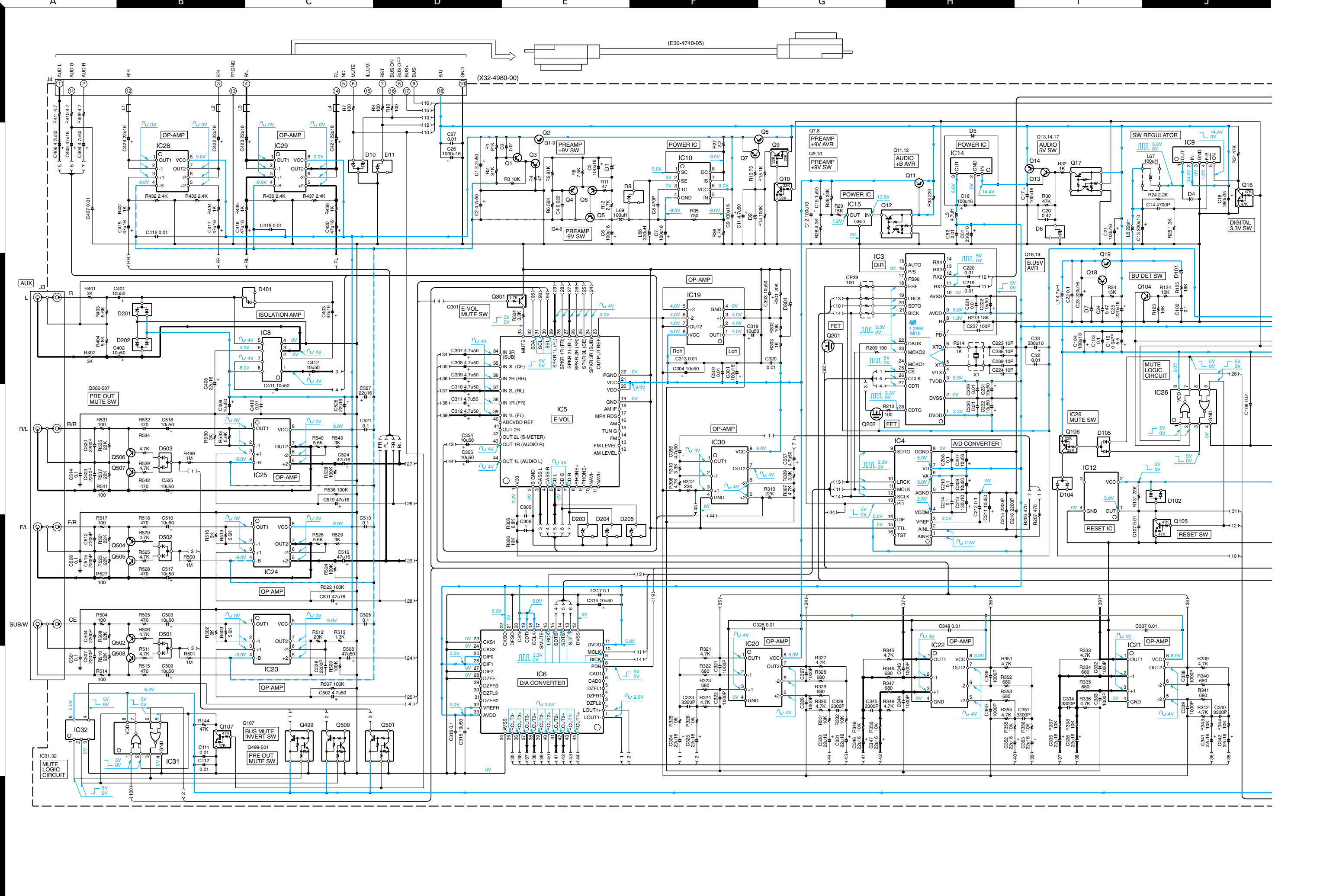
IC	Q	
1		6M
2		5P
3		4P
4		4P
5		4R
6		6Q
7		5P
8		2Q
9		4N
10		3O
12		6M
13		6M
14		3L
15		3M
16		6O
17		6N
18		5N
19		4S
20		5S
21		5Q
22		2R
23		2R
24		2Q
25		5M
26		2O
28		2O
29		4Q
30		4Q
31		5M
32		5M
1		3O
2		3O
3		3O
4		3O
5		3O
6		3O
7		3N
8		3N
9		3N
10		3N
11		3L
12		2L
13		4L
14		3L
16		4M
17		3L
18		4L
19		4L
101		6M
103		5M
104		5L
105		6M
106		5M
107		5M
201		4P
202		5O
204		5N
301		4R
499		2Q
500		2R
501		2R
502		2S
503		2R
504		2R
505		2R
506		2Q
507		2Q

Refer to the schematic diagram for the values of resistors and capacitors.



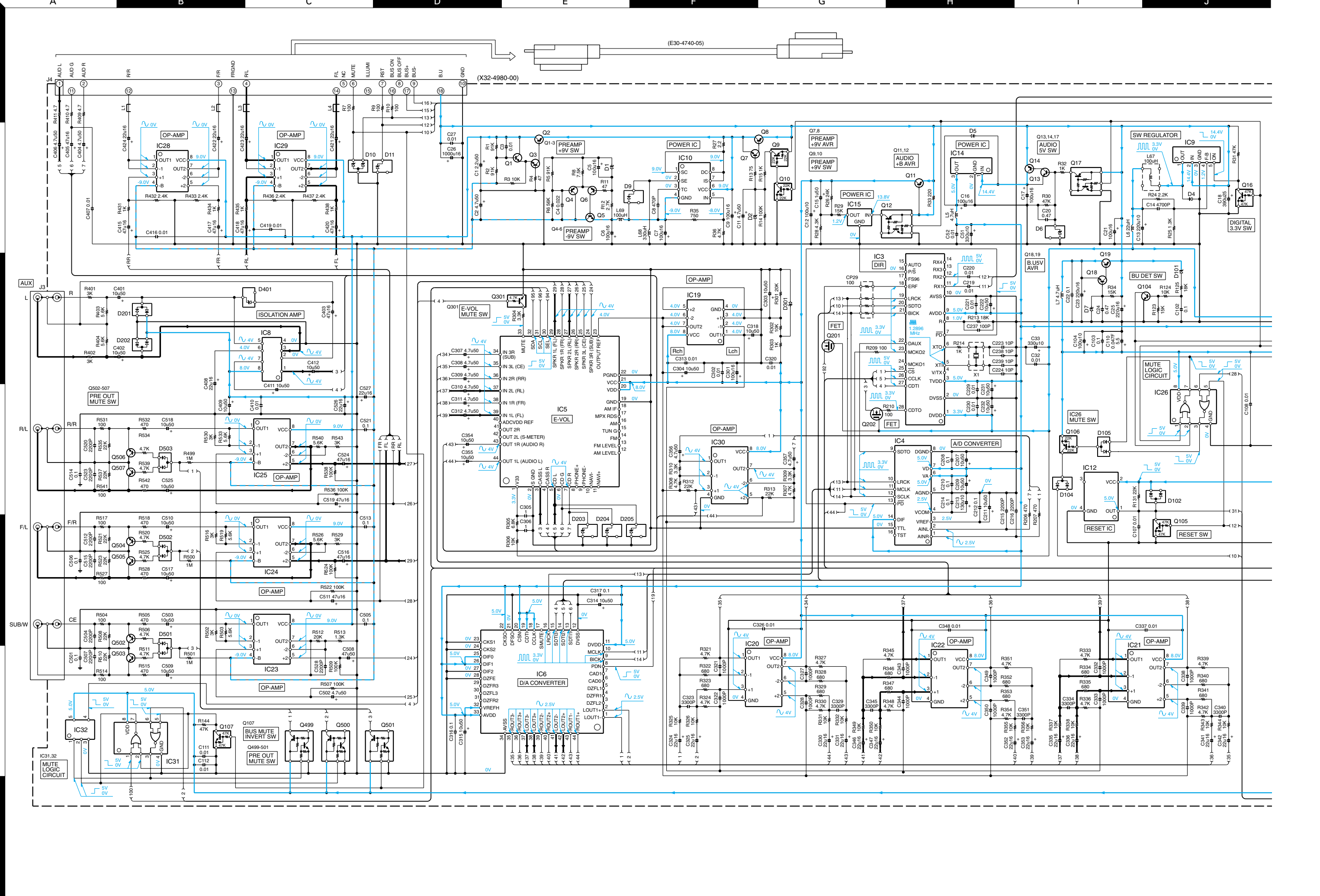
(E30-4740-05)

(X32-4980-00)



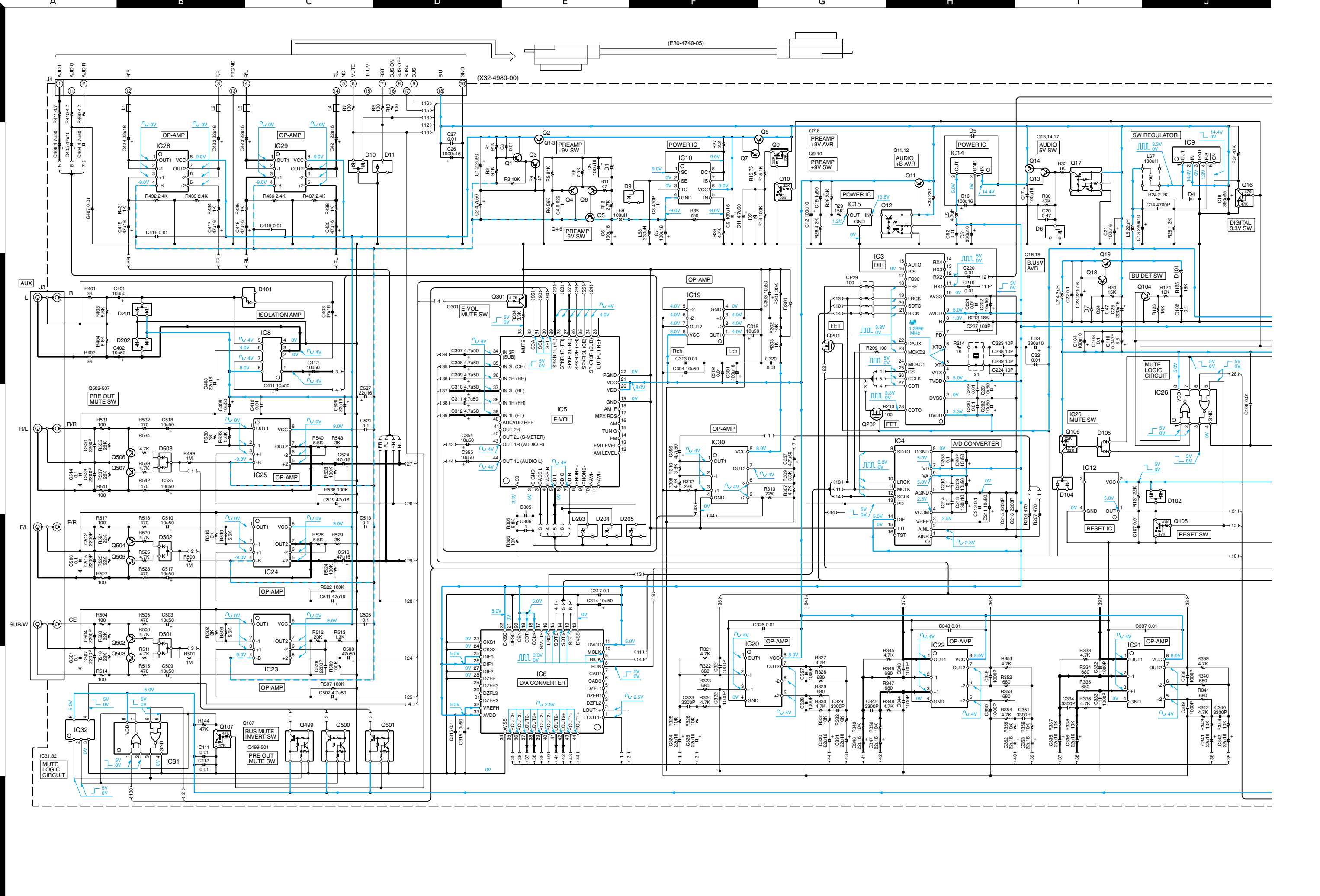
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(X32-4980-00)



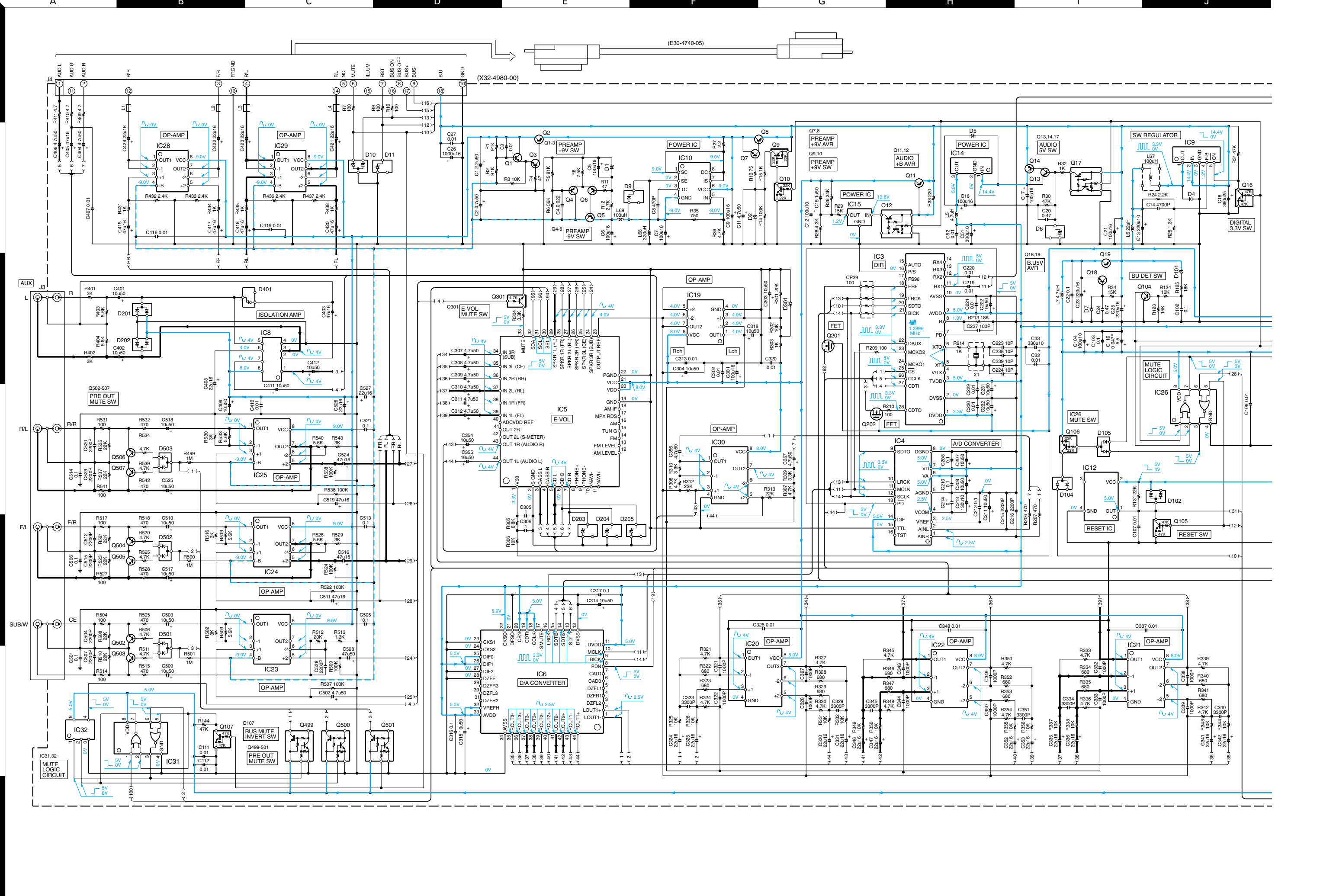
(E30-4740-05)

(X32-4980-00)



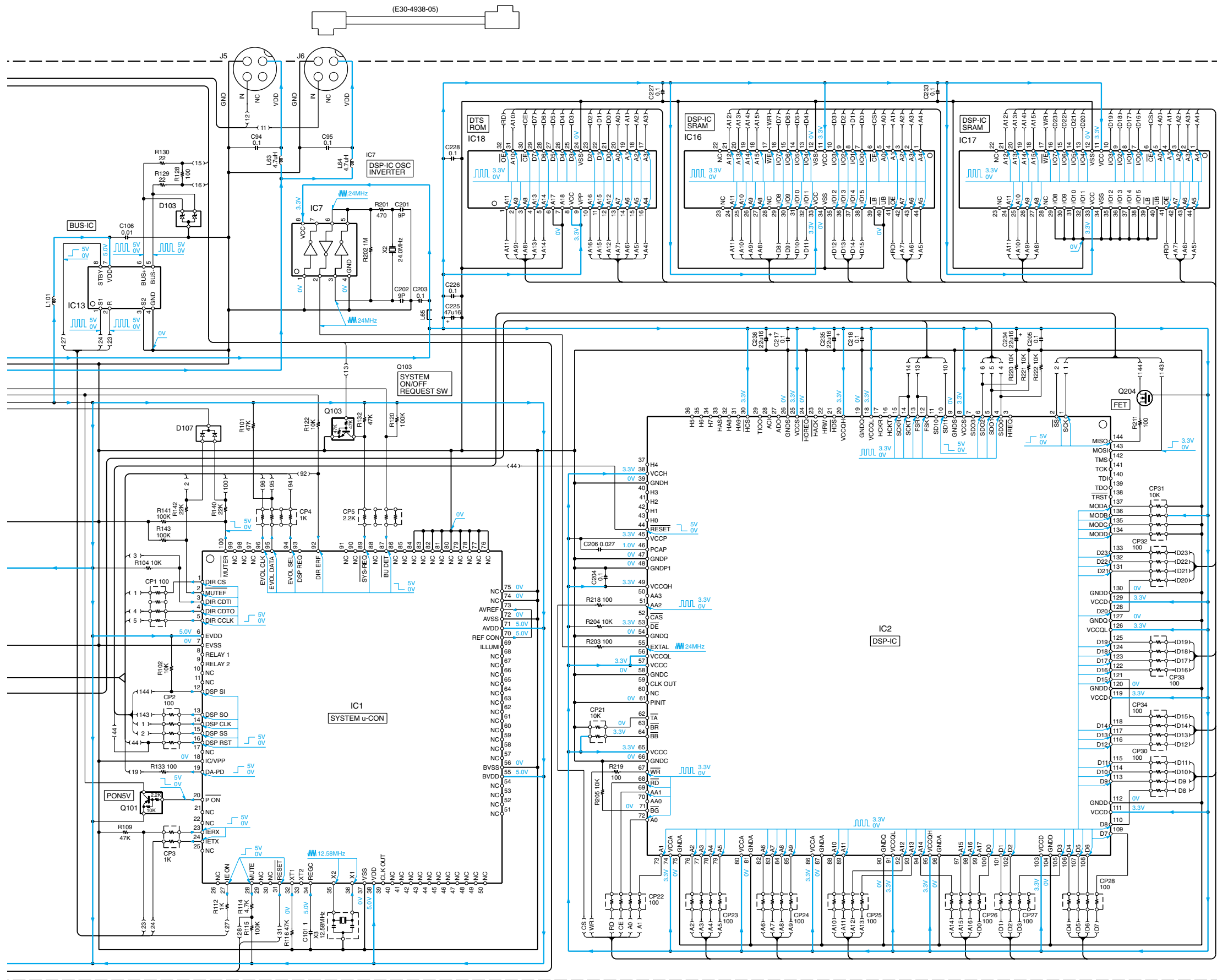
(E30-4740-05)

(X32-4980-00)



(E30-4740-05)

(X32-4980-00)



- IC1 : 709035AGC-105
- IC2 : DSP5632PV100
- IC3 : AK4112A
- IC4 : AK5353VT
- IC5 : TDA7501
- IC6 : AK4356VQ
- IC7 : TC7WU04FU
- IC8 : BA3121F
- IC9 : LM257401D-16TA
- IC10 : MC33063AD
- IC12 : S-80842ANNP
- IC13 : HA12187FP
- IC14 : BA178M0ST
- IC15 : M5237ML
- IC16,17 : AS7C31026-12JC
- IC18 : MF27401D-16TA
- IC19,25,28-30 : NJM4565M-TE2
- IC26,31 : TC7W02F
- IC27 : TC7S08F

**2SB1565** **DTB123YK**  
**DTC143TUA**  
**2SD2114K**

**2SB1184** **2SA1037K**  
**2SC4081**

**DTA124EUA** **UMC2N**  
**DTC124EUA**  
**DTC144EUA**

**HA12187FP** **DAN202U**  
**NJM4565M-TE2**

**DAP202U** **BA3121F**  
**DA204U**

**M5237ML** **TC7S08F**

**TC7WU04FU**  
**TC7W02F**

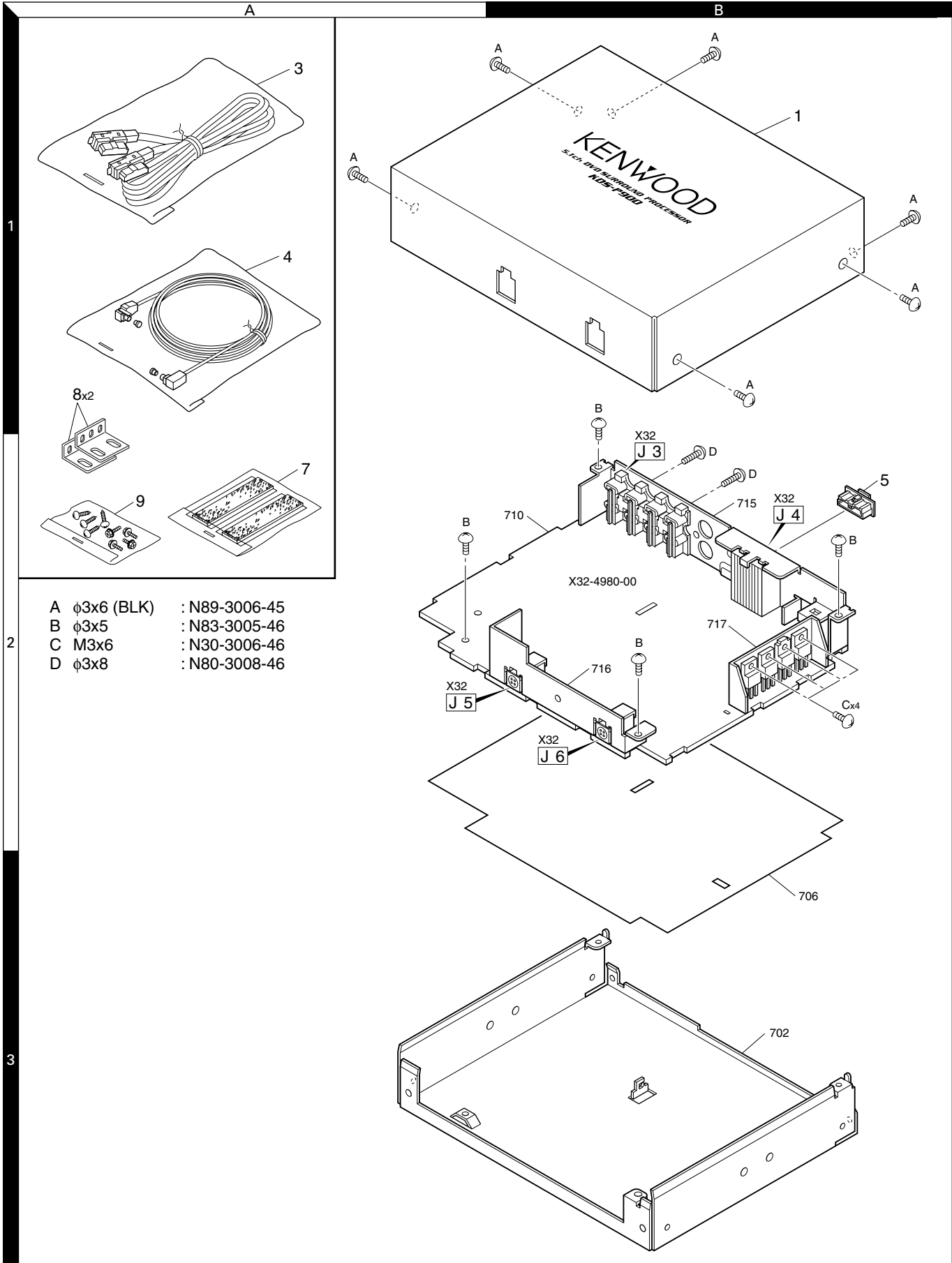
— SIGNAL LINE  
 — GND LINE  
 — +B LINE  
 - - - - - B LINE

**CAUTION** : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  
 ▲ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.  
 • DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



# KDS-P900

## EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

# KDS-P900

## 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.

Ref. No.	A d d	N e w	Parts No.	Description	De s t i n a
<b>KDS-P900</b>					
1	1B	*	A01-2742-01	METALLIC CABINET	
-			B46-0100-50	WARRANTY CARD	
-			B64-1779-00	INSTRUCTION MANUAL	
3	1A	*	E30-4740-05	CORD WITH PLUG	
4	1A	*	E30-4938-05	CORD WITH CONNECTOR	
5	2B		F07-1079-05	COVER	
7	2A		H30-0051-05	MAGIC TAPE	
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1115-04	PROTECTION BAG	
-		*	H54-1861-03	ITEM CARTON CASE	
8	1A		J21-3801-04	MOUNTING HARDWARE	
9	2A		N99-1558-05	SCREW SET	
A	1B		N89-3006-45	BINDING HEAD TAPTITE SCREW	
B	2B		N83-3005-46	PAN HEAD TAPTITE SCREW	
<b>PROCESSOR UNIT (X32-4980-00)</b>					
C1			CE04DW1H2R2M	ELECTRO 2.2UF 50WV	
C2			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C3			CK73GB1H103K	CHIP C 0.010UF K	
C4			CK73GB1E223K	CHIP C 0.022UF K	
C5 -7			CE04DW1C101M	ELECTRO 100UF 16WV	
C8			CC73GCH1H471J	CHIP C 470PF J	
C9			CE04DW1C101M	ELECTRO 100UF 16WV	
C11			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C12			C90-2672-05	ELECTRO 100UF 10WV	
C13		*	C90-2991-05	ELECTRO 220UF 10WV	
C14			CK73GB1H472K	CHIP C 4700PF K	
C15			CE04DW1H010M	ELECTRO 1.0UF 50WV	
C16 ,17			C90-2982-05	ELECTRO 100UF 16WV	
C18		*	C90-5300-05	ALMINIUM ELECTROLYTIC C.	
C20			CK73FB1C474K	CHIP C 0.47UF K	
C21			C90-2982-05	ELECTRO 100UF 16WV	
C22			CK73FB1E104K	CHIP C 0.10UF K	
C23			C90-2980-05	ELECTRO 220UF 16WV	
C24			CK73FB1C474K	CHIP C 0.47UF K	
C25			C90-2980-05	ELECTRO 220UF 16WV	
C26			CE04DW1C102M	ELECTRO 1000UF 16WV	
C27			CK73GB1H103K	CHIP C 0.010UF K	
C32			CK73GB1H103K	CHIP C 0.010UF K	
C33			C90-2981-05	ELECTRO 330UF 10WV	
C51			C90-2981-05	ELECTRO 330UF 10WV	
C52			CK73GB1H103K	CHIP C 0.010UF K	
C94 ,95			C93-1032-05	CERAMIC 0.10UF K	
C101			CK73EB1E105K	CHIP C 1.0UF K	
C102,103			CK73FB1E104K	CHIP C 0.10UF K	
C104			CE04DW1A101M	ELECTRO 100UF 10WV	
C106-108			CK73GB1H103K	CHIP C 0.010UF K	
C110			C90-2945-05	ELECTRO 0.047F 5.5WV	
C111,112			CK73GB1H103K	CHIP C 0.010UF K	
C201,202			CC73GCH1H090D	CHIP C 9.0PF D	
C203-205			CK73FB1E104K	CHIP C 0.10UF K	

Ref. No.	A d d	N e w	Parts No.	Description	De s t i n a
C206			CK73GB1E273K	CHIP C 0.027UF K	
C207			CE04DW1H100M	ELECTRO 10UF 50WV	
C208			CK73FB1E104K	CHIP C 0.10UF K	
C209			CE04DW1H100M	ELECTRO 10UF 50WV	
C210			CK73FB1E104K	CHIP C 0.10UF K	
C211			CE04DW1H100M	ELECTRO 10UF 50WV	
C212			CK73FB1E104K	CHIP C 0.10UF K	
C213			C90-2975-05	ELECTRO 130UF 10WV	
C214			CK73FB1E104K	CHIP C 0.10UF K	
C215,216			CK73GB1H222K	CHIP C 2200PF K	
C217,218			CK73FB1E104K	CHIP C 0.10UF K	
C219-221			CK73GB1H103K	CHIP C 0.010UF K	
C222			CE04DW1H100M	ELECTRO 10UF 50WV	
C223,224			CC73GCH1H100D	CHIP C 10PF D	
C225			CE04DW1C470M	ELECTRO 47UF 16WV	
C226-228			CK73FB1E104K	CHIP C 0.10UF K	
C229,230			CK73GB1H103K	CHIP C 0.010UF K	
C231,232			CE04DW1H100M	ELECTRO 10UF 50WV	
C233			CK73FB1E104K	CHIP C 0.10UF K	
C234-236		*	C90-2967-05	ELECTRO 22UF 16WV	
C237			CC73GCH1H101J	CHIP C 100PF J	
C238,239			CC73GCH1H100D	CHIP C 10PF D	
C301			CE04DW1C101M	ELECTRO 100UF 16WV	
C302			CK73GB1H103K	CHIP C 0.010UF K	
C303,304			CE04DW1H100M	ELECTRO 10UF 50WV	
C305,306			CK73EB1E105K	CHIP C 1.0UF K	
C307-312			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C313			CK73GB1H103K	CHIP C 0.010UF K	
C314,315			CE04DW1H100M	ELECTRO 10UF 50WV	
C316,317			CK73FB1E104K	CHIP C 0.10UF K	
C318			CE04DW1H100M	ELECTRO 10UF 50WV	
C320			CK73GB1H103K	CHIP C 0.010UF K	
C321,322			CK73GB1H102K	CHIP C 1000PF K	
C323			CK73GB1H332K	CHIP C 3300PF K	
C324,325			CE04DW1C220M	ELECTRO 22UF 16WV	
C326			CK73GB1H103K	CHIP C 0.010UF K	
C327,328			CK73GB1H102K	CHIP C 1000PF K	
C329			CK73GB1H332K	CHIP C 3300PF K	
C330,331			CE04DW1C220M	ELECTRO 22UF 16WV	
C332,333			CK73GB1H102K	CHIP C 1000PF K	
C334			CK73GB1H332K	CHIP C 3300PF K	
C335,336			CE04DW1C220M	ELECTRO 22UF 16WV	
C337			CK73GB1H103K	CHIP C 0.010UF K	
C338,339			CK73GB1H102K	CHIP C 1000PF K	
C340			CK73GB1H332K	CHIP C 3300PF K	
C341,342			CE04DW1C220M	ELECTRO 22UF 16WV	
C343,344			CK73GB1H102K	CHIP C 1000PF K	
C345			CK73GB1H332K	CHIP C 3300PF K	
C346,347			CE04DW1C220M	ELECTRO 22UF 16WV	
C348			CK73GB1H103K	CHIP C 0.010UF K	
C349,350			CK73GB1H102K	CHIP C 1000PF K	
C351			CK73GB1H332K	CHIP C 3300PF K	
C352,353			CE04DW1C220M	ELECTRO 22UF 16WV	
C354,355			CE04DW1H100M	ELECTRO 10UF 50WV	
C356,357			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	

# KDS-P900

## PARTS LIST

\* New Parts

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### PROCESSOR UNIT (X32-4980-00)

Ref. No.	A d d	N e w	Parts No.	Description	De s t i n a
C401,402			CE04DW1H100M	ELECTRO 10UF 50WV	
C403			CE04DW1C470M	ELECTRO 47UF 16WV	
C404			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C405			CE04DW1C470M	ELECTRO 47UF 16WV	
C406			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C407			CK73GB1H103K	CHIP C 0.010UF K	
C408			CE04DW1C220M	ELECTRO 22UF 16WV	
C409			CE04DW1H100M	ELECTRO 10UF 50WV	
C410			CK73GB1H103K	CHIP C 0.010UF K	
C411,412			CE04DW1H100M	ELECTRO 10UF 50WV	
C415			CE04DW1C470M	ELECTRO 47UF 16WV	
C416			CK73GB1H103K	CHIP C 0.010UF K	
C417,418			CE04DW1C470M	ELECTRO 47UF 16WV	
C419			CK73GB1H103K	CHIP C 0.010UF K	
C420			CE04DW1C470M	ELECTRO 47UF 16WV	
C421-424			CE04NW1C220M	ELECTRO 22UF 16WV	
C501			CK73FB1E104K	CHIP C 0.10UF K	
C502			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C503			CE04DW1H100M	ELECTRO 10UF 50WV	
C504			C93-1044-05	CERAMIC 2200PF K	
C505,506			CK73FB1E104K	CHIP C 0.10UF K	
C507			C93-1044-05	CERAMIC 2200PF K	
C508			CE04DW1H4R7M	ELECTRO 4.7UF 50WV	
C509,510			CE04DW1H100M	ELECTRO 10UF 50WV	
C511			CE04DW1C470M	ELECTRO 47UF 16WV	
C512			C93-1044-05	CERAMIC 2200PF K	
C513,514			CK73FB1E104K	CHIP C 0.10UF K	
C515			C93-1044-05	CERAMIC 2200PF K	
C516			CE04DW1C470M	ELECTRO 47UF 16WV	
C517,518			CE04DW1H100M	ELECTRO 10UF 50WV	
C519			CE04DW1C470M	ELECTRO 47UF 16WV	
C520			C93-1044-05	CERAMIC 2200PF K	
C521			CK73FB1E104K	CHIP C 0.10UF K	
C523			C93-1044-05	CERAMIC 2200PF K	
C524			CE04DW1C470M	ELECTRO 47UF 16WV	
C525			CE04DW1H100M	ELECTRO 10UF 50WV	
C526,527			CE04DW1C220M	ELECTRO 22UF 16WV	
C528			CK73GB1H222K	CHIP C 2200PF K	
J3		*	E63-0871-05	PIN JACK	
J4			E58-0870-05	RECTANGULAR RECEPTACLE	
J5 ,6		*	E56-0816-05	CYLINDRICAL RECEPTACLE	
L1 -4			L92-0332-05	CHIP FERRITE	
L5			L40-4792-78	SMALL FIXED INDUCTOR(4.7UH)	
L6			L33-1029-05	SMALL FIXED INDUCTOR	
L7			L40-4792-78	SMALL FIXED INDUCTOR(4.7UH)	
L63 ,64			L40-4792-78	SMALL FIXED INDUCTOR(4.7UH)	
L65			L92-0331-05	CHIP FERRITE	
L67			L33-1122-05	CHOKE COIL	
L68		*	L33-1017-05	CHOKE COIL	
L69			L40-1011-39	SMALL FIXED INDUCTOR(100UH)	
L101			L33-0385-05	SMALL FIXED INDUCTOR	
X1		*	L77-2776-05	CRYSTAL RESONATOR	
X2		*	L77-2731-05	CRYSTAL RESONATOR	
X3			L78-0575-05	RESONATOR (12.58MHZ)	

Ref. No.	A d d	N e w	Parts No.	Description	De s t i n a
C	2B		N30-3006-46	PAN HEAD MACHINE SCREW	
D	2B		N80-3008-46	PAN HEAD TAPTITE SCREW	
CP1 ,2			R90-1014-05	MULTI-COMP 100 X4	
CP3			R90-0725-05	MULTI-COMP 1K X2	
CP4			R90-0724-05	MULTI-COMP 1K X4	
CP5			R90-0722-05	MULTI-COMP 2.2K X4	
CP21			R90-0726-05	MULTI-COMP 10K X2	
CP22-30			R90-1014-05	MULTI-COMP 100 X4	
CP31			R90-0714-05	MULTI-COMP 10K X4	
CP32-34			R90-1014-05	MULTI-COMP 100 X4	
R1 ,2			RK73GB1J913J	CHIP R 91K J 1/16W	
R3			RK73FB2A103J	CHIP R 10K J 1/10W	
R4			RK73FB2A470J	CHIP R 47 J 1/10W	
R5			RK73GB1J913J	CHIP R 91K J 1/16W	
R6			RK73GB1J563J	CHIP R 56K J 1/16W	
R7			RK73EB2B101J	CHIP R 100 J 1/8W	
R8			RK73GB1J752J	CHIP R 7.5K J 1/16W	
R9 ,10			RK73EB2B101J	CHIP R 100 J 1/8W	
R11			RK73FB2A470J	CHIP R 47 J 1/10W	
R12			RK73FB2A272J	CHIP R 2.7K J 1/10W	
R13			RK73FB2A750J	CHIP R 75 J 1/10W	
R14			RK73GB1J104J	CHIP R 100K J 1/16W	
R15			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R24			R92-3028-05	METAL GLAZE RESISTOR	
R25			R92-3025-05	METAL R 1.3K D 1/10W	
R26			RK73GH1J243D	CHIP R 24K D 1/16W	
R27			RK73EB2B2R2J	CHIP R 2.2 J 1/8W	
R28			RK73GH1J432D	CHIP R 4.3K D 1/16W	
R29			RK73GB1J153J	CHIP R 15K J 1/16W	
R30 ,31			RK73FB2A473J	CHIP R 47K J 1/10W	
R32			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R33			RK73EB2B221J	CHIP R 220 J 1/8W	
R34			RK73FB2A153J	CHIP R 15K J 1/10W	
R35			RK73EB2B751J	CHIP R 750 J 1/8W	
R36			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R101			RK73GB1J473J	CHIP R 47K J 1/16W	
R102			RK73GB1J103J	CHIP R 10K J 1/16W	
R104			RK73GB1J103J	CHIP R 10K J 1/16W	
R109			RK73GB1J473J	CHIP R 47K J 1/16W	
R112			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R114			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R115			RK73GB1J104J	CHIP R 100K J 1/16W	
R116			RK73GB1J473J	CHIP R 47K J 1/16W	
R120			RK73GB1J104J	CHIP R 100K J 1/16W	
R122			RK73GB1J103J	CHIP R 10K J 1/16W	
R123			RK73GB1J153J	CHIP R 15K J 1/16W	
R124			RK73GB1J103J	CHIP R 10K J 1/16W	
R125			RK73GB1J183J	CHIP R 18K J 1/16W	
R128			RK73GB1J101J	CHIP R 100 J 1/16W	
R129,130			RK73GB1J220J	CHIP R 22 J 1/16W	
R131			RK73GB1J223J	CHIP R 22K J 1/16W	
R132			RK73GB1J473J	CHIP R 47K J 1/16W	
R133			RK73GB1J101J	CHIP R 100 J 1/16W	
R140			RK73GB1J223J	CHIP R 22K J 1/16W	

# KDS-P900

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### PROCESSOR UNIT (X32-4980-00)

Ref. No.	A d d	N e w	Parts No.	Description	De s t i n a	Ref. No.	A d d	N e w	Parts No.	Description	De s t i n a
R141			RK73GB1J104J	CHIP R 100K J 1/16W		R499-501			RK73GB1J105J	CHIP R 1.0M J 1/16W	
R142			RK73GB1J223J	CHIP R 22K J 1/16W		R502			RK73GB1J302J	CHIP R 3.0K J 1/16W	
R143			RK73GB1J104J	CHIP R 100K J 1/16W		R503			RK73GB1J562J	CHIP R 5.6K J 1/16W	
R144			RK73GB1J473J	CHIP R 47K J 1/16W		R504			RK73GB1J101J	CHIP R 100 J 1/16W	
R201			RK73GB1J471J	CHIP R 470 J 1/16W		R505			RK73GB1J471J	CHIP R 470 J 1/16W	
R202			RK73GB1J105J	CHIP R 1.0M J 1/16W		R506			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R203			RK73GB1J101J	CHIP R 100 J 1/16W		R507			RK73GB1J104J	CHIP R 100K J 1/16W	
R204,205			RK73GB1J103J	CHIP R 10K J 1/16W		R508			RK73GB1J223J	CHIP R 22K J 1/16W	
R206,207			RK73GB1J471J	CHIP R 470 J 1/16W		R509			RK73GB1J104J	CHIP R 100K J 1/16W	
R209-211			RK73GB1J101J	CHIP R 100 J 1/16W		R510			RK73GB1J223J	CHIP R 22K J 1/16W	
R213			RK73GB1J183J	CHIP R 18K J 1/16W		R511			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R214			RK73GB1J102J	CHIP R 1.0K J 1/16W		R512			RK73GB1J203J	CHIP R 20K J 1/16W	
R218,219			RK73GB1J101J	CHIP R 100 J 1/16W		R513			RK73GB1J132J	CHIP R 1.3K J 1/16W	
R220-222			RK73GB1J103J	CHIP R 10K J 1/16W		R514			RK73GB1J101J	CHIP R 100 J 1/16W	
R301			RK73GB1J203J	CHIP R 20K J 1/16W		R515			RK73GB1J471J	CHIP R 470 J 1/16W	
R302			RK73GB1J103J	CHIP R 10K J 1/16W		R516			RK73GB1J302J	CHIP R 3.0K J 1/16W	
R303			RK73GB1J102J	CHIP R 1.0K J 1/16W		R517			RK73GB1J101J	CHIP R 100 J 1/16W	
R304			RK73GB1J332J	CHIP R 3.3K J 1/16W		R518			RK73GB1J471J	CHIP R 470 J 1/16W	
R305			RK73FB2A682J	CHIP R 6.8K J 1/10W		R519			RK73GB1J562J	CHIP R 5.6K J 1/16W	
R306			RK73FB2A103J	CHIP R 10K J 1/10W		R520			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R307,308			RK73GH1J472D	CHIP R 4.7K D 1/16W		R521			RK73GB1J223J	CHIP R 22K J 1/16W	
R309,310			RK73GH1J332D	METAL GLAZE RESISTOR		R522			RK73GB1J104J	CHIP R 100K J 1/16W	
R312,313			RK73GB1J223J	CHIP R 22K J 1/16W		R523			RK73GB1J223J	CHIP R 22K J 1/16W	
R321			RK73GB1J472J	CHIP R 4.7K J 1/16W		R524			RK73GB1J104J	CHIP R 100K J 1/16W	
R322,323			RK73GB1J681J	CHIP R 680 J 1/16W		R525			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R324			RK73GB1J472J	CHIP R 4.7K J 1/16W		R526			RK73GB1J562J	CHIP R 5.6K J 1/16W	
R325,326			RK73GB1J103J	CHIP R 10K J 1/16W		R527			RK73GB1J101J	CHIP R 100 J 1/16W	
R327			RK73GB1J472J	CHIP R 4.7K J 1/16W		R528			RK73GB1J471J	CHIP R 470 J 1/16W	
R328,329			RK73GB1J681J	CHIP R 680 J 1/16W		R529,530			RK73GB1J302J	CHIP R 3.0K J 1/16W	
R330			RK73GB1J472J	CHIP R 4.7K J 1/16W		R531			RK73GB1J101J	CHIP R 100 J 1/16W	
R331,332			RK73GB1J103J	CHIP R 10K J 1/16W		R532			RK73GB1J471J	CHIP R 470 J 1/16W	
R333			RK73GB1J472J	CHIP R 4.7K J 1/16W		R533			RK73GB1J562J	CHIP R 5.6K J 1/16W	
R334,335			RK73GB1J681J	CHIP R 680 J 1/16W		R534			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R336			RK73GB1J472J	CHIP R 4.7K J 1/16W		R535			RK73GB1J223J	CHIP R 22K J 1/16W	
R337,338			RK73GB1J103J	CHIP R 10K J 1/16W		R536			RK73GB1J104J	CHIP R 100K J 1/16W	
R339			RK73GB1J472J	CHIP R 4.7K J 1/16W		R537			RK73GB1J223J	CHIP R 22K J 1/16W	
R340,341			RK73GB1J681J	CHIP R 680 J 1/16W		R538			RK73GB1J104J	CHIP R 100K J 1/16W	
R342			RK73GB1J472J	CHIP R 4.7K J 1/16W		R539			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R343,344			RK73GB1J103J	CHIP R 10K J 1/16W		R540			RK73GB1J562J	CHIP R 5.6K J 1/16W	
R345			RK73GB1J472J	CHIP R 4.7K J 1/16W		R541			RK73GB1J101J	CHIP R 100 J 1/16W	
R346,347			RK73GB1J681J	CHIP R 680 J 1/16W		R542			RK73GB1J471J	CHIP R 470 J 1/16W	
R348			RK73GB1J472J	CHIP R 4.7K J 1/16W		R543			RK73GB1J302J	CHIP R 3.0K J 1/16W	
R349,350			RK73GB1J103J	CHIP R 10K J 1/16W		D1			HZS6A3L	ZENER DIODE	
R351			RK73GB1J472J	CHIP R 4.7K J 1/16W		D2			HZS9C3L	ZENER DIODE	
R352,353			RK73GB1J681J	CHIP R 680 J 1/16W		D4			RB160L-40	DIODE	
R354			RK73GB1J472J	CHIP R 4.7K J 1/16W		D5			1SR154-400	DIODE	
R355,356			RK73GB1J103J	CHIP R 10K J 1/16W		D6			HZM10N(B1)	ZENER DIODE	
R401,402			RK73GB1J302J	CHIP R 3.0K J 1/16W		D7			HZS6B1L	ZENER DIODE	
R403,404			RK73GB1J562J	CHIP R 5.6K J 1/16W		D9			RB411D	DIODE	
R409-411			RK73EB2B4R7J	CHIP R 4.7 J 1/8W		D10			STZ6.8N	ZENER DIODE	
R431			RK73GB1J102J	CHIP R 1.0K J 1/16W		D11			HZM6.8N(B2)	ZENER DIODE	
R432,433			RK73GB1J242J	CHIP R 2.4K J 1/16W		D101			HZS7A2L	ZENER DIODE	
R434,435			RK73GB1J102J	CHIP R 1.0K J 1/16W		D102			DAP202U	DIODE	
R436,437			RK73GB1J242J	CHIP R 2.4K J 1/16W		D103			STZ6.8N	ZENER DIODE	
R438			RK73GB1J102J	CHIP R 1.0K J 1/16W							

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Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
D104,105			DAP202U	DIODE	
D107			DAN202U	DIODE	
D201,202			DA204U	DIODE	
D203-205			HZM8.2N(B2)	ZENER DIODE	
D301			HZS6C3L	ZENER DIODE	
D401			HZM8.2N(B2)	ZENER DIODE	
D501-503			DAP202U	DIODE	
IC1		*	703035AGC-015	MI-COM IC	
IC2		*	DSP56362PV100	MOS-IC	
IC3		*	AK4112A	MOS-IC	
IC4		*	AK5353VT	MOS-IC	
IC5			TDA7501	ANALOGUE IC	
IC6		*	AK4356VQ	MOS-IC	
IC7			TC7WU04FU	MOS-IC	
IC8			BA3121F	IC(ISO AMP)	
IC9		*	LM2595S-ADJ	ANALOGUE IC	
IC10			MC33063AD	ANALOGUE IC	
IC12		*	S-80842ANNP	MOS-IC	
IC13			HA12187FP	ANALOGUE IC	
IC14		*	BA178M05T	ANALOGUE IC	
IC15			M5237ML	IC(VOLTAGE REGULATOR)	
IC16,17		*	AS7C31026-12JC	MEMORY IC	
IC18		*	MR27V401D-16TA	MEMORY IC	
IC19-25			NJM4565M-TE2	ANALOGUE IC	
IC26			TC7W02F	MOS-IC	
IC28-30			NJM4565M-TE2	ANALOGUE IC	
IC31			TC7W02F	MOS-IC	
IC32			TC7S08F	IC(2CH AND GATE)	
Q1			2SC4081	TRANSISTOR	
Q2			2SA1037K	TRANSISTOR	
Q3			2SC4081	TRANSISTOR	
Q4			2SA1037K	TRANSISTOR	
Q5			2SC4081	TRANSISTOR	
Q6			2SA1037K	TRANSISTOR	
Q7			2SC4081	TRANSISTOR	
Q8			2SB1184	TRANSISTOR	
Q9			DTA124EUA	DIGITAL TRANSISTOR	
Q10			DTC124EUA	DIGITAL TRANSISTOR	
Q11			2SB1565(E,F)	TRANSISTOR	
Q12			UMC2N	TRANSISTOR	
Q13			2SC4081	TRANSISTOR	
Q14			2SB1565(E,F)	TRANSISTOR	
Q16			DTC144EUA	DIGITAL TRANSISTOR	
Q17			UMC2N	TRANSISTOR	
Q18			2SC4081	TRANSISTOR	
Q19			2SB1565(E,F)	TRANSISTOR	
Q101			DTB123YK	DIGITAL TRANSISTOR	
Q103			DTC144EUA	DIGITAL TRANSISTOR	
Q104			2SC4081	TRANSISTOR	
Q105			DTC144EUA	DIGITAL TRANSISTOR	
Q106			DTA124EUA	DIGITAL TRANSISTOR	
Q107			DTC144EUA	DIGITAL TRANSISTOR	
Q201,202			2SK3018	FET	
Q204			2SK3018	FET	
Q301			DTC143TUA	DIGITAL TRANSISTOR	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
Q499-501			UMC5N	TRANSISTOR	
Q502-507			2SD2114K	TRANSISTOR	

E: Europe K: North America M: Other Areas  
W: Without Europe

△ indicates safety critical components.

# KDS-P900

## SPECIFICATIONS

DSP SECTION	D/A CONVERTER	24Bit	
	A/D CONVERTER	24Bit	
	Decorder	Linear PCM Dolby prologic Dolby digital DTS	
	Equalizer	BAND1 frequency 60/80/100/120/160/200/250Hz	
	4BAND Parametric equalizer	BAND2 frequency	315/400/500/630/800/1kHz
		BAND3 frequency	1.25k/1.6k/2k/2.5k/3.15k/4kHz
		BAND4 frequency	5k/6.3k/8k/10k/12.5k/16kHz
		GAIN	±9dB
	Q control	0.25/0.5/1.0/2.0	
	X'over	HIGHPASSFILTER frequency	30/60/90/120/150/180/250Hz
LOWPASSFILTER frequency		30/60/90/120/150/180/250Hz	
Time alignment	(0.15mSTEP)	0~3.0m	
	(0.5ft STEP)	0~10.0ft	
	(0.3mSTEP)	3.0~6.0m	
	(1.0ft STEP)	10.0~20.0ft	
Channel level		±10dB	
AUDIO SECTION	Preout Level(V)	4.5V/10kΩ	
	Preout Impedance(Ω)	≤600Ω	
	External audio max input level	1V22kΩ	
	S/N Ratio (dB)	100dB	
	Harmonic Distortion (20kHz LPF, 1kHz)	0.01%	
	Frequency Response	10Hz~24kHz	
GENERAL	SIZE (W)×(H)×(D)	280mm×40mm×163mm 8-3/16×1-9/16×6-7/16inch	
	Weight	0.9kg 2.0 lbs	

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

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