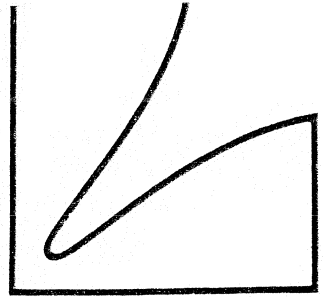
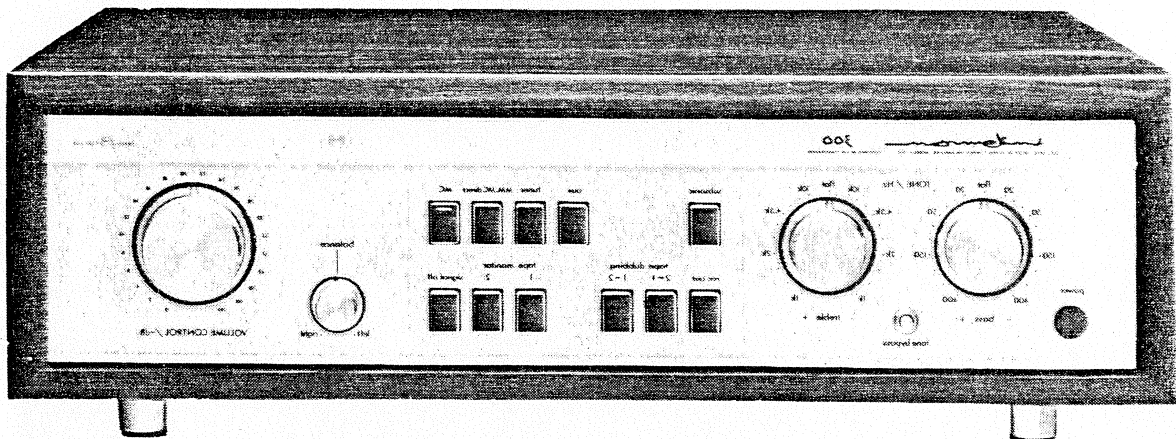


SERVICE MANUAL



DC STEREO CONTROL PREAMPLIFIER **C-300**



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C-300, C300KA POINT OF DIFFERENCE ----- 1
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REMARKS

The C-300 diversifies the original C-300 and C-300KA, whose difference exists in the printed circuit board of the equalizer amp, flat amp, tone control, protector, muting and regulator circuit board.

Circuit	Model No.	
	C-300	C-300KA
Equalizer Amp.	PB-1353	PB-1388
Flat Amp., Tone Control	PB-1354	PB-1389
Protector, Muting, Regulator	PB-1355	PB-1390

In this manual the parts, which differ depending on destination and mains voltage, are classified and indicated as follows:

*NOTES

- J 100V for Japan
- A { AZ: 120V(With Line Voltage Selector) for U.S.A., South Asia, East Asia
- AK: 220V(With Line Voltage Selector) for Europe, South Asia, East Asia
- AG: 240V(With Line Voltage Selector) for England, Australia

C-300 ALIGNMENT PROCEDURES

1) Alignment of Regulator

Setting Conditions - Volume Control: Minimum
Balance Control: Center
Filter Switch: Off
Tone Control: Flat



- (1) Put on the Power Switch and after 30 seconds adjust VR501ab (positive-going, L&R) and VR502ab (negative-going, L&R) respectively to make the voltage of terminals (+32V and -32V/C-300, +33.5V and -33.5V/C-300KA) shown in the (PB-1355/C-300, PB-1390/C-300KA).

Remarks: Reconfirm and readjust 10 minutes after the Power Switch has been put on.

2) Alignment of PRE OUT, MC OUT and OFF SET

- (1) Connect a high sensitivity DC volt meter to the PRE OUT terminals shown in the (PB-1354/C-300, PB-1389/C-300KA) and adjust VR303ab(L&R) to make the volt meter 0V after alignment of the regulator.

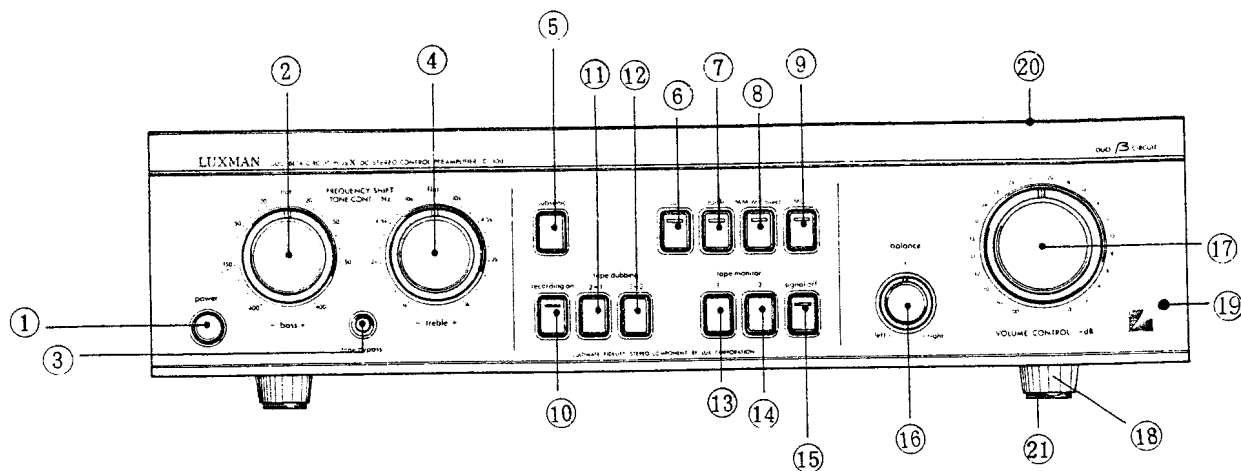
Remarks: Reconfirm and readjust 10 minutes after the Power Switch has been put on.

- (2) Connect a high sensitivity DC volt meter to the MC OUT pattern ( ) shown in the PB-1355 and adjust VR101ab(L&R) to make the volt meter -0.05V (-50mV). C-300 only.

Remarks: Readjust at +0.2V(+200mV) 10 minutes after the Power Switch has been put on.

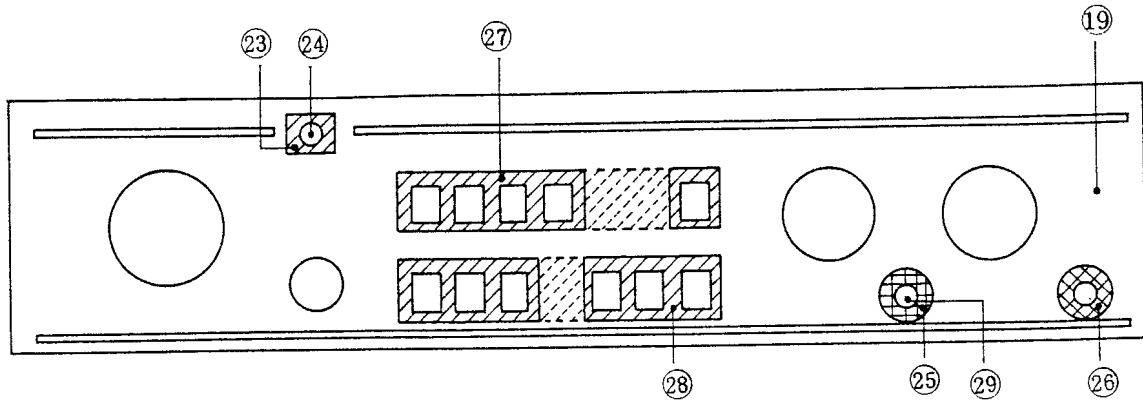
PARTS LIST (Cosmetic)

FRONT VIEW



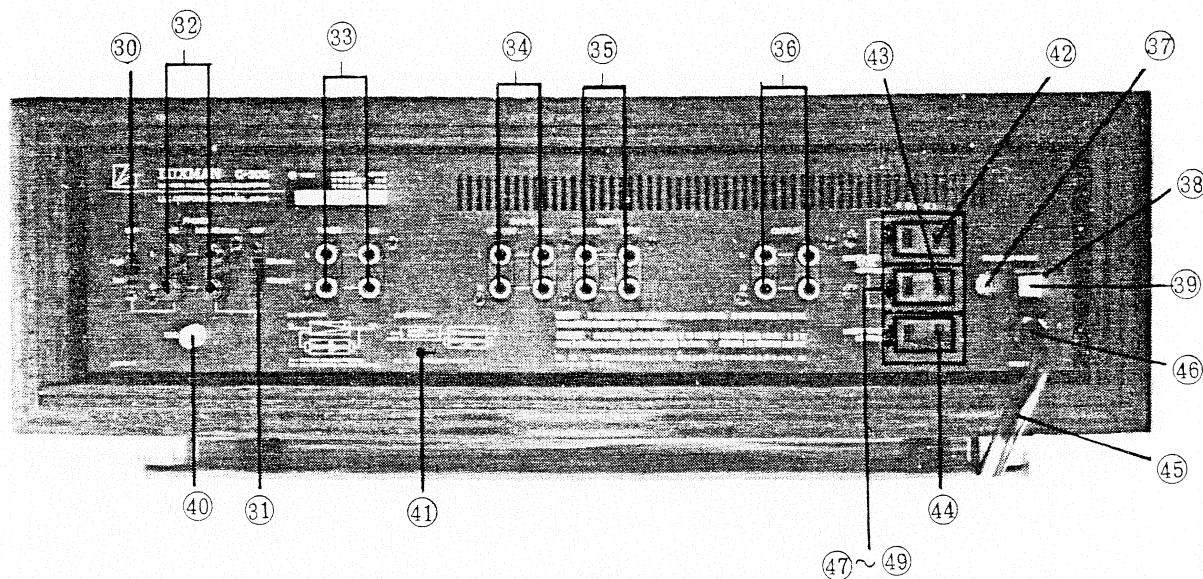
SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK	SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
(Knob)				(Knob)			
1	WJ1090	Power Switch		9	WH1125-1	MC	
*2	WH1120-1	Bass Control	AZ.J	10	WH1125-1	Recout	
*2	WH1120-2		AG.AK	11	WH1125-2	Tape Dubbing 2 1	
*3	WK1120-1	Tone Bypass	AZ.J	12	WH1125-2	Tape Dubbing 1 2	
*3	WK1120-2		AG.AK	13	WH1125-2	Tape Monitor 1	
*4	WH1120-1	Treble Control	AZ.J	14	WH1125-2	Tape Monitor 2	
*4	WH1120-2		AG.AK	15	WH1125-2	Signaloff	
5	WH1125-2	Subsonic		*16	WH1122-1	Balance Control	AZ.J
6	WH1125-1	AUX		*16	WH1122-2		AG.AK
7	WH1125-1	Tuner		*17	WH1121-1	Volume Control	AZ.J
8	WH1125-1	MM, MC, Direct		*17	WH1121-2		AG.AK
(Foot)				(Enclosures)			
18	WN1022	Foot, Metal		*20	WB1090	Wooden Case	AZ.J
21	WN1019	Foot, Felt			UG1030	Bonnet	AG.AK
					UE1110	Botom Plate	AG.AK

FRONT PANEL Ass'y



SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK	SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
(Front Panel Ass'y)				(Front Panel Ass'y)			
*19	WA1221-1	Front Panel	J	*25	WZ1133-2	Metal Escutcheon	AG.AK
*19	WA1221-2	Front Panel	A	26	WE1051	Protector	
23	WG1019	Pilot Acrylic		27	WZ7042	Knob Guide	
24	WG1011	Pilot, Cover		28	WZ7042	Knob Guide	
*25	WZ1133-1	Metal Escutcheon	AZ.J	29	WE1036	Protector	

REAR VIEW



SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Terminal)				(Line Phase Sensor) J Only			
32	AT0131	Input 4 Phono MM MC		* 37	AL0001	Neon Lamp	J
33	AT0130	Input 4 P Tuner, AUX		* 38	UZ1244	L. P. S. Housing	J
34	AT0130	Input 4 P Tape-II		* 39	UZ1245	L. P. S. Terminal	J
35	AT0130	Input 4 P Tape-I		(Bushing. Power Cord)			
36	AT0130	Output 4 P		* 45	BK0019	Power Cord UP-720-001	AZ
40	AG0110	G N D		* 45	BK0022	Power Cord C-2-461-B	AK
(Switch, Cover)				* 45	BK0023	Power Cord SAAMini	AG
30	SS0014	Slide SSB-02201		* 45	BK0048	Power Cord VKF2.0MM	J
31	SS0014	Slide SSB-02201		* 46	BU0033	Bushing SR-4N-4	AZ,AK
47	UJ1092	Cover 1092	AG.AK	* 46	BU0039	Bushing SR-5N-4	AG
48	UJ1092	Cover 1092	AG.AK	* 46	BU0080	Bushing 5KN-4	J
49	UJ1092	Cover 1092	AG.AK	(Extra AC Outlet)			
(Rear Panel)				42	AC0050	Switched	
* 41	UC1191-1	Rear Panel 1191-1	J	43	AC0050	Switched	
* 41	UC1191-2	Rear Panel 1191-2	A	44	AC0050	Unswitched	

MECHANISM

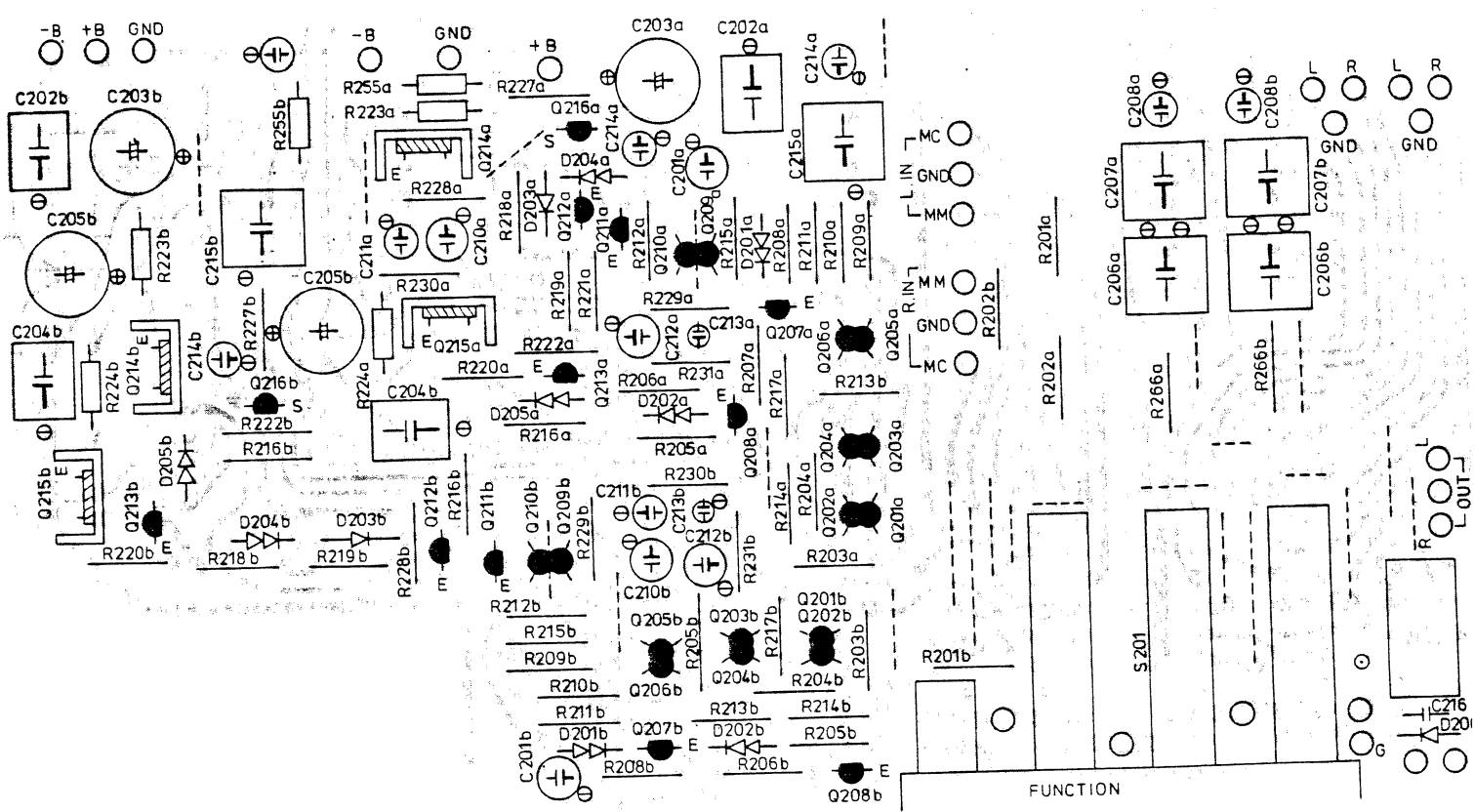
SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Potentiometer)				(Resistor, Capacitor)			
VR001	RVO270	250 KMKN Blance Control		CO01	CK0159	0.1 F 25 WV	Ce
VR002	RVO269	70 K S x2 Volume Control		CO02	CU0010	0.47 F 250 WV	AC
VR301	RVO271	150 K S x2 Bass Control		RO01	RB0158	100 0.25 W	RD
VR302	RVO272	19 K S x2 Treble Control		RO02	RB0158	100 0.25 W	RD
(Switch, Flexible Cable)				(Lamp, Holder)			
S001	SS0014	MC Phono Impedance	A J	LA	AL0065	Lamp 75mA12V(B7-5)	
S002	SS0014	MM Phono Impedance		LA	WZ0003	Lamp holder White	
*S003	SP0090	Push Power Switch		(Fush holder, Fuse)			
	SP0172	Push Power Switch		*F001	AH0016	Fuse holder X-N1157	J
S201	SP0173	Push Input Selector		*F001	AH0019	Fuse holder X-N1153	A
S301	SP0189	Push Tone Bypass(C-300)		*F002	AH0016	Fuse holder X-N1157	J
	SP0176	Push Tone Bypass(C-300KA)		*F002	AH0019	Fuse holder X-N1153	A
S801~				*F003	AH0016	Fuse holder X-N1157	J
S804	SP0175	Rec, Tape 1, Tape 2, Pre		*F003	AH0019	Fuse holder X-N1153	A
S1001~				*F004	AH0016	Fuse holder X-N1157	J
S1002	SP0175	Dubbing	*F004	AH0019	Fuse holder X-N1153	A	
S901	SP5030	Push Subsonic	*F005	AH0016	Fuse holder X-N1157	J	
S301	SZ0015	F. Cable Tone Bypass(C-300)	*F005	AH0019	Fuse holder X-N1153	A	
	SZ0013	F. Cable Tone Bypass(C300KA)	*F006	AH0016	Fuse holder X-N1157	J	
S1001	SZ0014	F. Cable Tape Dubbing	*F006	AH0019	Fuse holder X-N1153	A	
S1002	SZ0014	F. Cable Tape Dubbing	*F006	AH0019	Fuse holder X-N1153	A	
(Power Transformer)				*F001	BF0115	Fuse MF60NR-2A	J
*	PT2531	P-2531	J	*F001	BF0208	Fuse 5 X 20 1A(T)	AZ
*	PT2534	P-2534	A	*F001	BF0206	Fuse 5 X 20 0.5A(T)	AK, A
(Line Voltage Selector) A ONLY				*F002	BF0402	Fuse FGLBO-125V-1.5A	J
*	AC0013	Socket M-1625	A	*F002	BF0206	Fuse 5 X 20 1A(T)	A
*	AC0014	Plug P-2120	A	*F002	BF0402	Fuse FGLBO-125V-1.5A	J
(Packing Material)				*F003	BF0402	Fuse FGLBO-125V-1.5A	J
*	XA1277	Carton 1277 (C-300)	AZ	*F003	BF0206	Fuse 5 X 20 1A(T)	A
*	XA1278	Carton 1278 (C-300)	AK, AG	*F004	BF0402	Fuse FGLBO-125V-1.5A	J
*	XA1277J	Carton 1277J(C-300)	J	*F004	BF0206	Fuse 5 X 20 1A(T)	A
*	XA1306	Carton 1306 (M300KA)	J	*F005	BF0402	Fuse FGLBO-125V-1.5A	J
*	XD1028	Pad 1028	AZ, J	*F005	BF0206	Fuse 5 X 20 1A(T)	A
*	XD1029	Pad	AK, AG	*F006	BF0113	Fuse MF60NR-1A	J
*	MA0137	Owner's manial	J	*F006	BF0206	Fuse 5 X 20 1A(T)	A
*	MA0180	Owner's manial	A				

Notes

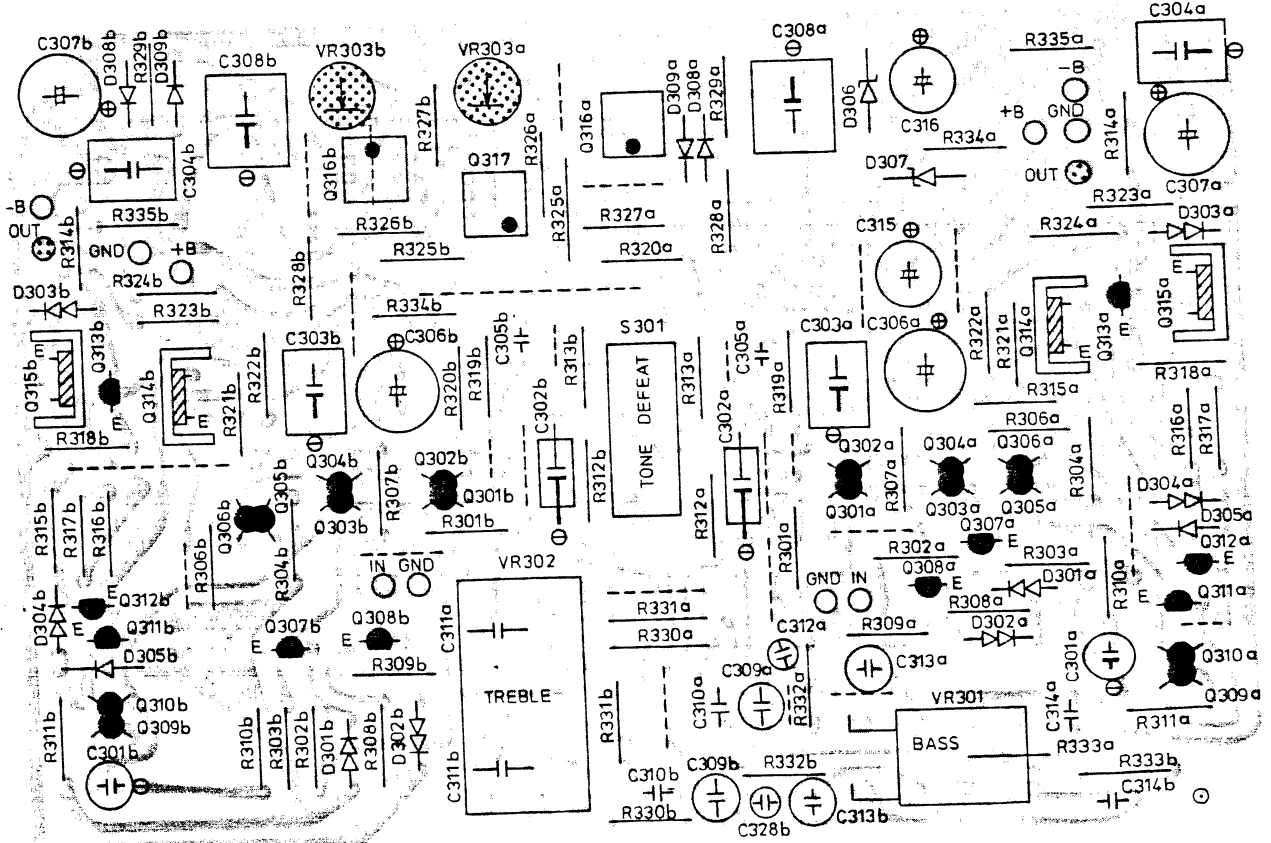
Flexible Cable Switch A'ssy Canbe disintegrated into 3 components-Switch Body, Flexible Cable, Switch Mechanism. In this list, the respective disintegrated Components are classified into the categories

- Switch Body - PCB Unit Parts List
- Flexible Cable - Mechanism Parts List
- Switch Mechanism - Mechanism Parst List

PB-1353.....(Equalizer)C-300 only



PB-1354.....(Flat, Tone Control)C-300 only



PARTS LIST.....(P. C. B)

REMARKS

Capacitor: My...Mylar, El...Electrolytic, St...Styrol, Ce...Ceramic
 Mi...Mica, Ta...Tantalum, Lp...Line pass(AC Cap.)
 Tm...Trimmer, Ac...AC Capacitor, Fi...Film Cap.
 Resistor: Rd...Carbon, Rc...Cement, Rm...Metal Film, Rf...Flame proof
 Ro...Oxid Metal,

PB-1 353.....(Equalizer) C-300 only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Capacitor)				(FET, Transistor)			
C201	CQ1206	6800 PF 50 WV	St	Q201	TF0020	2SK-163-L-PAIR	
C202	CQ1201	560 PF 50 WV	St	Q202	TF0020	2SK-163-L-PAIR	
C203	CE1970	220 μ F 35 WV AR	El	Q203	TF0020	2SK-163-L-PAIR	
C204	CQ1201	560 PF 50 WV	St	Q204	TF0020	2SK-163-L-PAIR	
C205	CE1970	220 μ F 35 WV AR	El	Q205	TR5005	2SA-970	
C206	CQ2010	0.22 μ F 125 WV	Fi	Q206	TR5005	2SA-970	
C207	CQ2010	0.22 μ F 125 WV	Fi	Q207	TR5005	2SA-970	
C208	CQ1201	560 PF 50 WV	St	Q208	TR0236	2SC-2229	
C209	CQ1220	100 PF 50 WV	St	Q209	TR0091	2SA-836	
C210	CQ1213	6200 PF 50 WV	St	Q210	TR0091	2SA-836	
C211	CQ1220	680 PF 50 WV	St	Q211	TR0091	2SA-836	
C213	CQ1200	101 PF 50 WV	St	Q212	TR0237	2SA-949	
C214	CQ1201	560 PF 50 WV	St	Q213	TR0236	2SC-2229	
C215	CQ2010	0.22 μ F 125 WV	Fi	Q214	TR0196	2SD-668	
C216	CK0159	0.1 μ F 25 WV	Ce	Q215	TR0192	2SB-648	
C242	CQ1204	1800 PF 50 WV	St	Q216	TF0020	2SK-163-L-PAIR	
(Diode)				(Relay, PCB Board)			
D201	TV0030	KB-265C4		RY201	AY0025	RZ-24 (24V)	
D202	TV0030	KB-265C4			PC1353	P C B Board	
D203	TD0214	US-1035		(Switch)			
D204	TV0030	KB-265C4		S201	SP0173	Input Selector	
D205	TV0030	KB-265C4					
D206	TD0073	US-1035					
(Resistor) Unit: Ω							
R201	RDO446	47 K 0.33 W	RD	R216	RDO448	33 K 0.33 W	RD
R202	RDO442	100 K 0.33 W	RD	R217	RDO473	270 0.33 W	RD
R203	RDO442	100 K 0.33 W	RD	R218	RDO480	68 0.33 W	RD
R204	RDO452	15 K 0.33 W	RD	R220	RS1232	120 0.33 W	Rf
R205	RDO448	33 K 0.33 W	RD	R221	RDO448	33 K 0.33 W	RD
R206	RS1281	100 0.33 W	Rf	R222	RDO439	180 K 0.33 W	RD
R207	RDO448	33 K 0.33 W	RD	R223	RD1540	18 0.5 W	RD
R208	RDO466	1 K 0.33 W	RD	R224	RD1540	18 0.5 W	RD
R209	RDO479	82 0.33 W	RD	R225	RD0139	100 0.5 W	RD
R210	RDO464	1.5 K 0.33 W	RD	R226	RDO437	270 K 0.33 W	RD
R211	RDO479	82 0.33 W	RD	R227	RD2158	1.5 M 0.33 W	RD
R212	RDO489	10 0.33 W	RD	R228	RD0454	10 K 0.33 W	RD
R213	RDO447	39 K 0.33 W	RD	R230	RD0434	470 K 0.33 W	RD
R214	RBO180	820 0.25 W	RD	R231	RD0447	39 K 0.33 W	RD
R215	RS1273	47 0.33 W	RD				

PB-1354.....(Flat, Tone Control) C-300 only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Resistor) Unit: Ω							
R301	RD2170	4.7 M 0.33 W	RD	R318	RS1232	120 0.33 W	Rf
R302	RDO448	33 K 0.33 W	RD	R319	RDO448	33 K 0.33 W	RD
R303	RDO466	1 K 0.33 W	RD	R320	RDO433	560 K 0.33 W	RD
R304	RDO479	82 0.33 W	RD	R321	RDO440	150 K 0.33 W	RD
R306	RDO479	82 0.33 W	RD	R322	RD1540	18 0.5 W	RD
R307	RDO452	1.5 K 0.33 W	RD	R323	RD1540	18 0.5 W	RD
R308	RS1281	100 0.33 W	Rf	R325	RDO447	39 K 0.33 W	RD
R309	RDO448	33 K 0.33 W	RD	R326	RDO454	10 K 0.33 W	RD
R310	RD2036	12 0.33 W	RD	R327	RDO458	4.7 K 0.33 W	RD
R311	RS1273	47 0.33 W	RD	R328	RDO431	820 K 0.33 W	RD
R312	RBO200	5.6 0.25 W	RD	R329	RDO431	820 K 0.33 W	RD
R313	RDO430	1 M 0.33 W	RD	R330	RDO461	2.7 K 0.33 W	RD
R314	RDO448	33 K 0.33 W	RD	R331	RDO470	470 0.33 W	RD
R315	RDO448	33 K 0.33 W	RD	R332	RDO448	33 K 0.33 W	RD
R317	RDO480	68 0.33 W	RD	R333	RBO200	5.6 K 0.25 W	RD
(Capacitor)				(FET, Transistor, IC)			
C301	CQ1206	6800 PF 50 WV	St	Q301	TF0020	2SK-163-L-PAIR	
C302	CQ2008	1 μ F 125 WV	Fi	Q302	TF0020	2SK-163-L-PAIR	
C303	CE0093	33 μ F 35 WV	El	Q303	TF0020	2SK-163-L-PAIR	
C304	CQ1201	560 PF 50 WV	St	Q304	TF0020	2SK-163-L-PAIR	
C305	CM0159	10 PF 100 WV	Mi	Q305	TR5005	2SA-970	
C306	CE1970	220 μ F 35 WV	AR El	Q306	TR5005	2SA-970	
C307	CE1970	220 μ F 35 WV	AR El	Q307	TR5005	2SA-970	
C308	CQ2006	0.47 μ F 125 WV	Fi	Q308	TR0236	2SC-2229	
C309	CQ0283	8200 PF 50 WV	St	Q309	TRO091	2SA-836	
C310	CQ1338	0.047 μ F 25 WV	My	Q310	TRO091	2SA-836	
C311	CQ0267	100 PF 50 WV	St	Q311	TRO091	2SA-836	
C312	CQ0071	100 PF 50 WV	St	Q312	TR0237	2SA-949	
C313	CQ0283	8200 PF 50 WV	St	Q313	TR0236	2SC-2229	
C314	CQ1338	0.047 μ F 25 WV	My	Q314	TRO196	2SD-668	
C315	CQ1201	560 PF 50 WV	St	Q315	TRO192	2SB-648	
C316	CQ1201	560 PF 50 WV	St	Q316	TC5010	IC. NJM4558DX 22V	
				Q317	TC0180	IC. LF13741	
(Diode)				(Potentiometer)			
D301	TV0030	KB-265C4		VR301	RV0271	150 K Ω \odot x 2	
D302	TV0030	KB-265C4		VR302	RV0272	19 K Ω \odot x 2	
D303	TV0030	KB-265C4		(Trimming Potentiometer)			
D304	TV0030	KB-265C4		VR303	RT0009	10 K Ω B	
D305	TD0214	US-1035		(Switch)			
D308	TD0214	US-1035		S301	SP0189	Switch 9150	
D309	TD0214	US-1035					
(PCB Board)							
	PC1354	PB-1354					

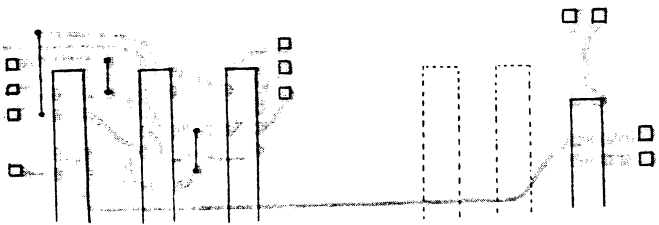
PB-1 355.....(Protector, Mute, Regulator) C-300 only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Capacitor)							
C1001	CK0159	0.1 μ F 25 WV	Ce	C408	CE1744	220 μ F 35 WV	El
C1002	CK0159	0.1 μ F 25 WV	Ce	C409	CK0159	0.1 μ F 25 WV	Ce
C101	CQ1214	1000 PF 50 WV	St	C501ab	CE1996	470 μ F 63 WV	AR El
C102	CQ1206	6800 PF 50 WV	St	C502ab	CE1996	470 μ F 63 WV	AR El
C103	CM0127	56 PF 500 WV	Mi	C503ab	CE1996	470 μ F 63 WV	AR El
C105	CQ1201	560 PF 50 WV	St	C504ab	CE1996	470 μ F 63 WV	AR El
C106	CQ2008	1 μ F 125 WV	Fi	C505ab	CE1996	470 μ F 63 WV	AR El
C107	CQ1201	560 PF 50 WV	St	C506ab	CE1996	470 μ F 63 WV	AR El
C108	CQ1201	560 PF 50 WV	St	C515ab	CE1979	22 μ F 50 WV	AR El
C109	CE1963	470 μ F 25 WV	AR El	C516ab	CE1979	22 μ F 50 WV	AR El
C112	CE0832	100 μ F 25 WV	El	C519	CE1725	1000 μ F 16 WV	El
C113	CE1956	10 μ F 25 WV	AR El	C520	CE1722	220 μ F 16 WV	El
C401	CE1710	47 μ F 10 WV	El	C521	CE1722	220 μ F 16 WV	El
C402	CE1710	47 μ F 10 WV	El	C601	CE1719	33 μ F 16 WV	El
J403	CE1727	47 μ F 25 WV	El	C602	CE1719	33 μ F 16 WV	El
C404	CE1720	47 μ F 16 WV	El	C901	CQ2006	0.47 μ F 125 WV	Fi
C405	CK0159	0.1 μ F 25 WV	Ce	C902	CQ2006	0.47 μ F 125 WV	Fi
C406	CE1750	1 μ F 50 WV	El	C903	CQ2008	1 μ F 125 WV	Fi
C407	CE1744	220 μ F 35 WV	El	C904	CQ1200	100 PF 50 WV	St
(Resistor) Unit: Ω							
R1001	RDO430	1 M 0.33 W	RD	R406	RDO454	10 K 0.33 W	RD
R1002	RDO430	1 M 0.33 W	RD	R407	RDO433	560 K 0.33 W	RD
R102	RDO158	100 0.33 W	RD	R408	RDO460	3.3K 0.33 W	RD
R103	RD2510	1 0.5 W	RD	R409	RDO455	8.2K 0.33 W	RD
R104	RDO457	5.6 K 0.33 W	RD	R410	RDO456	6.8K 0.33 W	RD
R105	RDO130	1.2 K 0.5 W	RD	R411	RS5026	220 1 W	RD
R107	RDO468	680 0.33 W	RD	R501ab	RDO449	27 K 0.33 W	RD
R108	RDO454	10 K 0.33 W	RD	R502ab	RS1299	560 0.33 W	Rf
R109	RDO449	27 K 0.33 W	RD	R503ab	RDO449	27 K 0.33 W	RD
R110	RDO459	3.9 K 0.33 W	RD	R504ab	RS1299	560 0.33 W	Rf
R111	RDO489	10 0.33 W	RD	R508ab	RDO450	22 K 0.33 W	RD
R112	RDO489	10 0.33 W	RD	R509ab	RDO450	22 K 0.33 W	RD
R114	RDO140	47 0.5 W	RD	R513	RS2746	560 1 W	Ro
R115	RDO452	15 K 0.33 W	RD	R601	RDO451	18 K 0.33 W	RD
R116	RDO447	39 K 0.33 W	RD	R602	RDO450	22 K 0.33 W	RD
R118	RDO447	39 K 0.33 W	RD	R603	RDO464	1.5K 0.33 W	RD
R119	RDO442	100 K 0.33 W	RD	R604	RDO458	4.7K 0.33 W	RD
R120	RDO477	120 0.33 W	RD	R605	RDO430	1 M 0.33 W	RD
R401	RDO438	220 K 0.33 W	RD	R606	RDO430	1 M 0.33 W	RD
R402	RDO438	220 K 0.33 W	RD	R607	RS1269	33 0.33 W	Ro
R403	RDO440	150 K 0.33 W	RD	R901	RDO446	47 K 0.33 W	RD
R404	RDO466	1 K 0.33 W	RD	R902	RDO446	47 K 0.33 W	RD
R405	RDO458	4.7 K 0.33 W	RD	R903	RDO449	27 K 0.33 W	RD
(FET, Transistor)							
Q101	TF0018	2SK-147-BL		Q402	TRO029	2SC-945	
Q102	TF0018	2SK-147-BL		Q403	TRO029	2SC-945	
Q103	TR5004	2SC-2240		Q404	TRO029	2SC-945	
Q104	TR5005	2SA-970		Q405	TRO043	2SA-733	
Q105	TRO236	2SC-2229		Q406	TRO029	2SC-945	
Q106	TRO237	2SA-949		Q407	TRO264	2SC-2235	
Q107	TRO264	2SC-2235		Q408	TRO264	2SC-2235	
Q108	TRO263	2SA-965		Q501ab	TRO043	2SA-733	
Q401	TRO029	2SC-945					

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Diode)							
D401	TD0214	US-1035		D504ab	TD0023	WZ-071 ZENER 7.1 V	
D402	TD0214	US-1035		D505ab	TD0023	WZ-071 ZENER 7.1 V	
D403	TD0023	WZ-071 ZENER 7.1 V		D506	TD0215	UB-152	
D404	TD0073	WG-713		D507	TD0216	WZ-110 11 V	
D405	TD0214	US-1035		D601	TD0214	US-1035	
D406	TD0004	1N-4004		D602	TD0214	US-1035	
D407	TD0004	1N-4004		D603	TD0018	1K-188 FM-1	
D408	TD0002	1N-4002		Q502ab	TV0030	KB-265C4	
D409	TD0085	WZ-230 ZENER 23 V		Q503ab	TV0030	KB-265C4	
D501ab	TD0215	UB-152					
(Trimming Potentiometer)				(Switch, wire)			
VR101	RT0023	4.7 K Ω B		S1001	SP0178	Slide, Tape Dubbing	
VR501ab	RT0009	10 K Ω B		S1002	SP0178	Slide, Tape Dubbing	
VR502ab	RT0009	10 K Ω B		S901	SP0177	Slide, Subsonic	
(Relay)							
RY401	AY0025	RZ-24 (24V)					
(PCB Board)							
	PC1355	PB-1355					

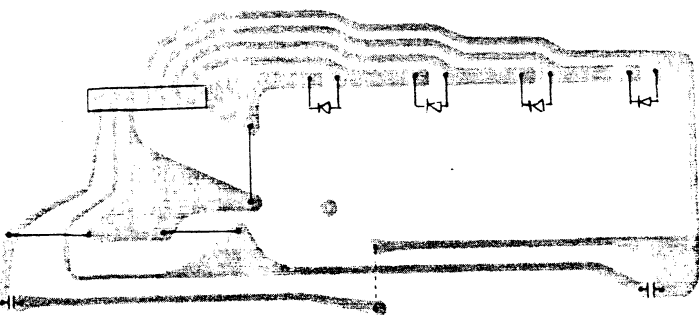
PB-1356 (Tape Selector, Pre. Out. S)

(Switch, Resistor)			
S801~			
S804	SP0175	Push Switch	
R1101	RDO466	1 K Ω 0.33 W	RD
R1102	RDO466	1 K Ω 0.33 W	RD
R1103	RDO466	1 K Ω 0.33 W	RD
(PCB Board)			
	PC1356	PB-1356	

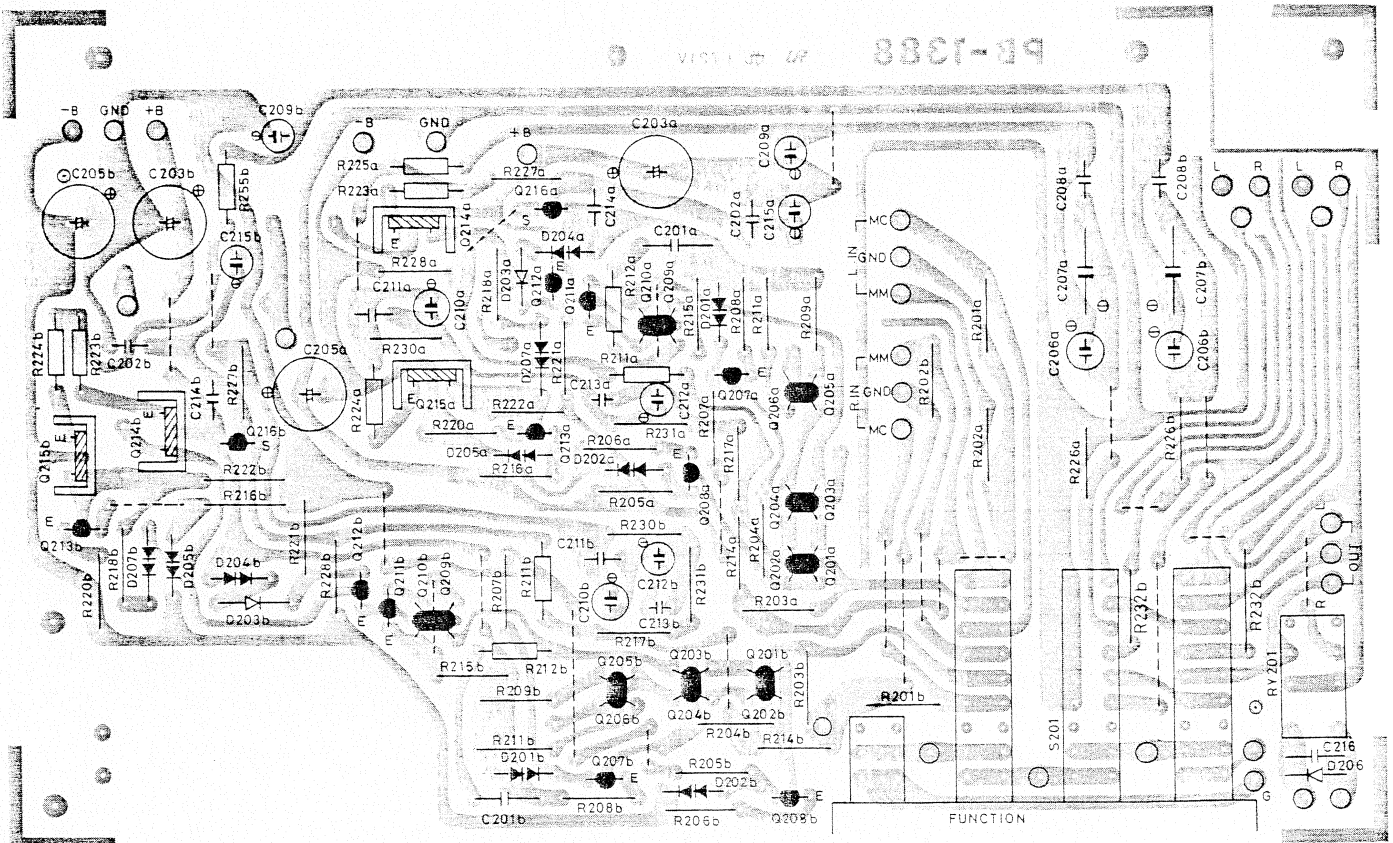


PB-1357 (Indicator)

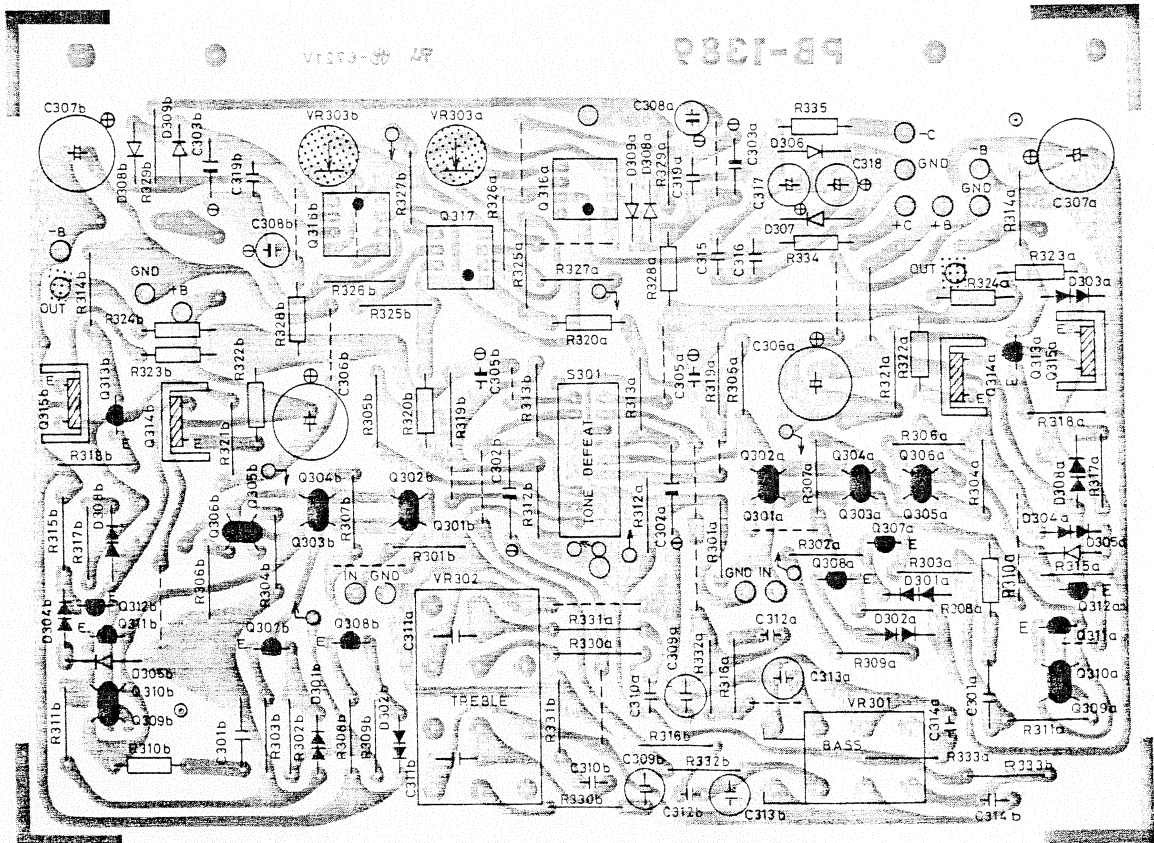
(LED, Resistor)			
D1001	TD0222	LED, SEL171 OK(Y) MC	
D1002	TD0222	LED, SEL171 OK(Y)MC.Direct	
D1003	TD0223	LED, SEL191 OA(A) Tuner	
D1004	TD0223	LED, SEL191 OA(O) AUX	
D1005	TD0224	LED, SEL111 OS(R) Signal	
D1006	TD0224	LED, SEL111 OS(R) Rec.	
R1101	RDO466	1 K Ω 0.33 W	RD
R1102	RDO466	1 K Ω 0.33 W	RD
R1103	RDO466	1 K Ω 0.33 W	RD
(PCB Board)			
	PC1357	PB-1357	



PB-1388 (Equalizer) C-300KA Only



PB-1389 (Flat, Tone Control) C-300 only



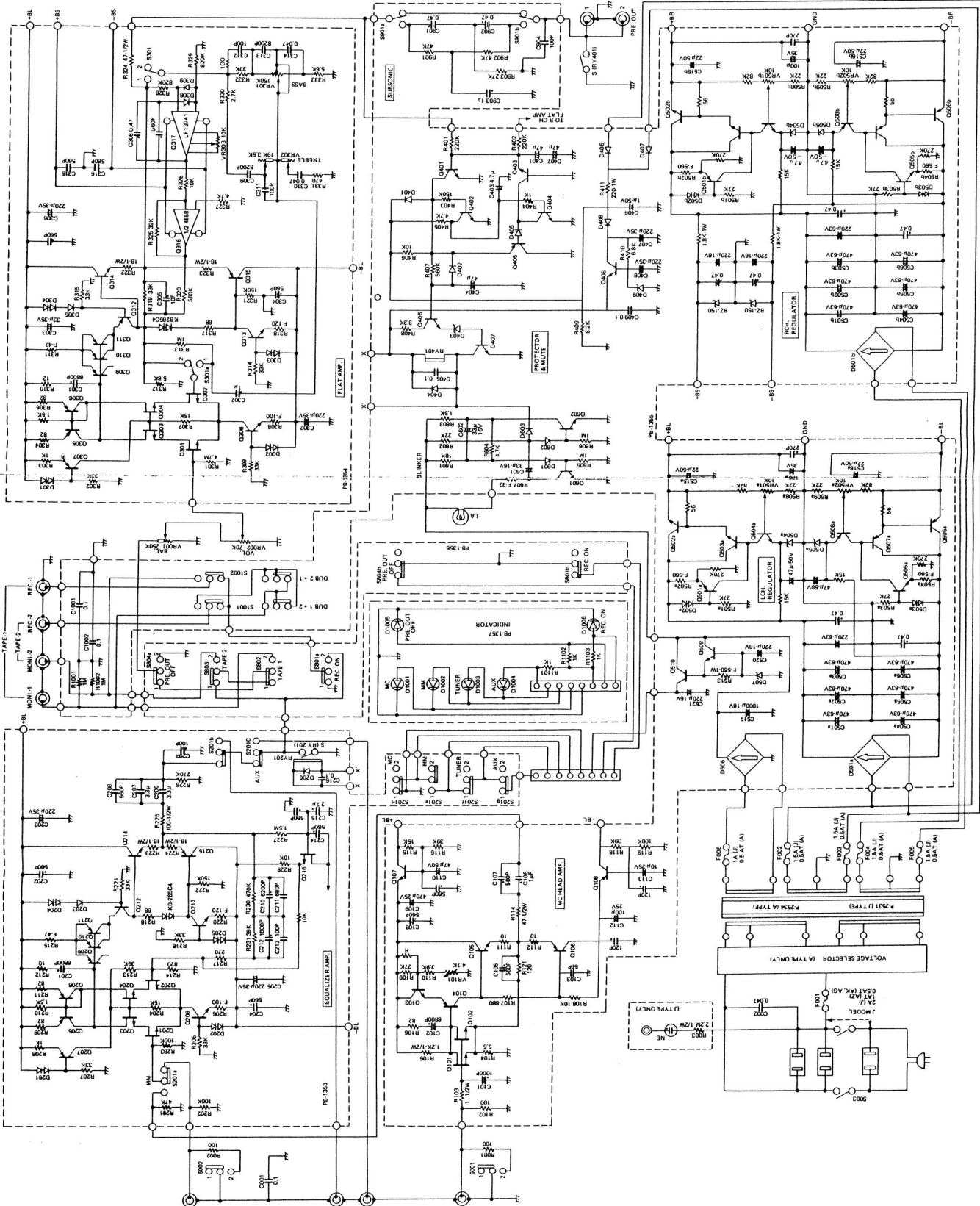
PB-1388(Equalizer) C-300KA Only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Capacitor)							
C201	CM0173	6800PF 50WV	Ml	Q201	TF0020	2SK-163-L-PAIR	(FET, Transistor)
C202	CM0168	50WV	Ml	Q202	TF0020	2SK-163-L-PAIR	
C203	CE1970	220uF 35WV AR	El	Q203	TF0020	2SK-163-L-PAIR	
C204	CE1970	220uF 35WV AR	El	Q204	TF0020	2SK-163-L-PAIR	
C205	CE1970	220uF 35WV AR	El	Q205	TR5005	2SA-970	
C206	CE2045	4.7uF 50WV NXA	El	Q206	TR5005	2SA-970	
C207	Q00697	1uF 100WV	F1	Q207	TR5005	2SA-970	
C208	CM0168	50WV	Ml	Q208	TR0236	2SC-2229	
C209	CM0171	100PF 50WV	Ml	Q210	TR0091	2SA-836	
C210	CQ1213	6200PF 50WV	Sy	Q211	TR0091	2SA-836	
C211	CM0172	50WV	Ml	Q212	TR0237	2SA-949	
C212	CQ1204	0.22uF 50WV	Sy	Q213	TR0236	2SC-2220	
C213	CQ1200	100PF 50WV	Sy	Q214	TR0196	2SD-668	
C214	CM0168	50WV	Ml	Q215	TR0192	2SB-648	
C215	CE2046	2.2uF 50WV NXA	El	Q216	TF0020	2SK-163-L-PAIR	
C216	CK0159	25WV	Ce				
(Diode)							
D202	TV0030	KB-265C4		RY201	AV0025	RZ-24 (24V)	(Relay, PCB Board)
D203	TD0214	US-1035			PC1388	PB-1388	
D204	TV0030	KB-265C4		(Switch)			
D205	TV0030	KB-265C4		S201a~	SP0173 Input Selector		
D206	TD0073	WG-713					
D207	TV0030	KB-265C4					
(Resistor) Unit:Ω							
R201	RD0442	100K 1/3W	Rd	R217	RD0474	220 1/3W	Rd
R202	RD0445	56K 1/3W	Rd	R218	RD0480	68 1/3W	Rd
R203	RD0430	1M 1/3W	Rd	R220	RD0477	120 1/4W	Rd
R204	RD0112	18K 1/2W	Rd	R221	RD0448	33K 1/3W	Rd
R205	RD0448	33K 1/3W	Rd	R223	RD1540	18 1/2W	Rd
R206	RD0478	100 1/4W	Rd	R224	RD1540	18 1/2W	Rd
R207	RD0448	33K 1/3W	Rd	R225	RD0139	100 1/2W	Rd
R208	RD0466	1K 1/3W	Rd	R226	RD0437	270K 1/3W	Rd
R209	RD0479	820 1/3W	Rd	R227	RD2160	1.8M 1/3W	Rd
R210	RD0479	320 1/3W	Rd	R228	RD0454	10K 1/3W	Rd
R211	RD0113	15K 1/2W	Rd	R230	RD0434	470K 1/3W	Rd
R212	RD0142	10 1/2W	Rd	R231	RD0447	39K 1/3W	Rd
R214	RB0180	820 1/4W	Rd	R232	RD0448	33K 1/3W	Rd
R215	RD0482	47 1/4W	Rd	R233	RD0484	33 1/3W	Rd
R216	RD0448	33K 1/3W	Rd				

PB-1389(Flat, Tone Control) C-300KA Only

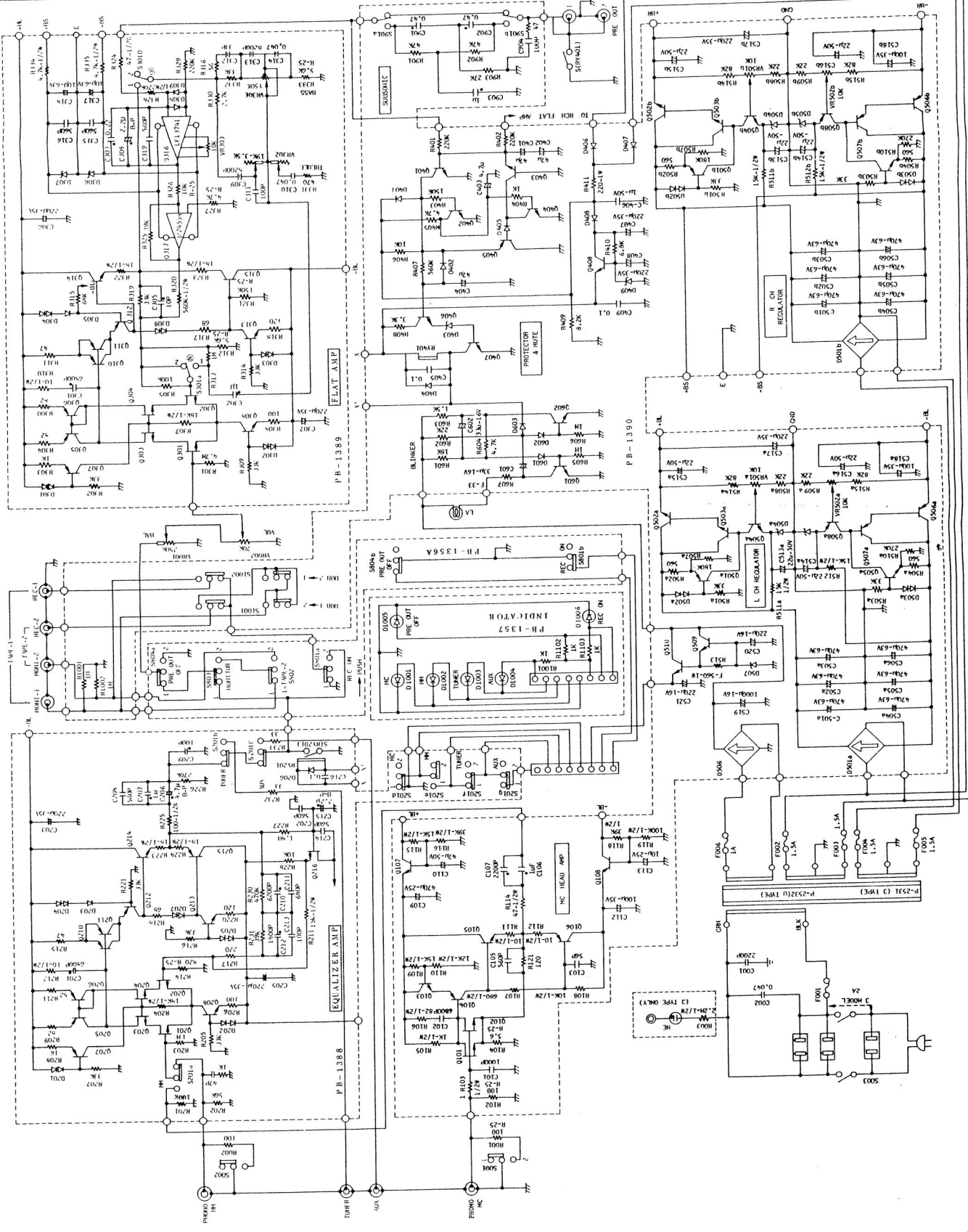
SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
(Resistor) Unit:Ω							
R301	RD2170	4.7M 1/3W	Rd	R319	RD0448	33K 1/3W	Rd
R302	RD0448	33K 1/3W	Rd	R320	RD0103	560K 1/2W	Rd
R303	RD0466	1K 1/3W	Rd	R321	RB0234	150K 1/4W	Rd
R304	RD0479	82 1/3W	Rd	R322	RD1540	18 1/2W	Rd
R305	RD0442	100K 1/3W	Rd	R323	RD1540	18 1/2W	Rd
R306	RD0479	82 1/3W	Rd	R324	RD0140	47 1/2W	Rd
R307	RD0112	18K 1/2W	Rd	R325	RD0447	39K 1/3W	Rd
R308	RD478	100 1/4W	Rd	R326	RD0206	10K 1/4W	Rd
R309	RD0448	33K 1/3W	Rd	R327	RB0198	4.7K 1/4W	Rd
R310	RD0142	10 1/2W	Rd	R328	RD0105	220K 1/2W	Rd
R311	RD0482	47 1/4W	Rd	R329	RD0438	220K 1/3W	Rd
R312	RB0200	5.6K 1/4W	Rd	R330	RD0461	2.7K 1/3W	Rd
R313	RD0430	1M 1/3W	Rd	R331	RD0470	470 1/3W	Rd
R314	RD0448	33K 1/3W	Rd	R332	RD0448	33K 1/3W	Rd
R315	RD0448	33K 1/3W	Rd	R333	RB0200	5.6K 1/4W	Rd
R316	RD0481	56 1/3W	Rd	R334	RD0117	4.7K 1/2W	Rd
R317	RD0480	68 1/3W	Rd	R335	RD0117	4.7K 1/2W	Rd
R318	RD0477	120 1/4W	Rd	(FET, Transistor, IC)			
(Capacitor)							
C301	CM0173	6800PF 50WV	Ml	Q301	TF0020	2SK-163-L-PAIR	
C302	CQ2008	1uF 100WV	F1	Q302	TF0020	2SK-163-L-PAIR	
C303	CQ0693	0.22uF 100WV	F1	Q303	TF0020	2SK-163-L-PAIR	
C305	CM0159	10PF 100WV	Ml	Q304	TF0020	2SK-163-L-PAIR	
C306	CE1970	220uF 35WV AR	El	Q305	TR5005	2SA-970	
C307	CE1970	220uF 35WV AR	El	Q306	TR5005	2SA-970	
C308	CE2046	2.2uF 50WV NXA	El	Q307	TR5005	2SA-970	
C309	CQ0283	8200PF 50WV	Sy	Q308	TR0236	2SC-2229	
C310	CQ1338	0.47uF 50WV	Ml	Q309	TR0091	2SA-836	
C311	CQ0071	100PF 50WV	Sy	Q310	TR0091	2SA-836	
C312	CM0119	33PF 500WV	Ml	Q311	TR0091	2SA-836	
C313	CQ0283	8200PF 50WV	Sy	Q312	TR0237	2SA-949	
C314	CQ1338	0.47uF 50WV	Ml	Q313	TR0236	2SC-2229	
C315	CM0168	560PF 50WV	Ml	Q314	TR0196	2SD-668	
C316	CM0168	560PF 50WV	Ml	Q315	TR0192	2SB-648	
C317	CE1763	10uF 63WV	El	Q316	TC0180	LF-13741	
C318	CE1763	10uF 63WV	El	Q317	TC05010	NJW4558DX	
C319	CM0168	560PF 50WV	Ml	(Potentiometer)			
(Diode)							
D301	TV0030	KB-265C4		VR301	RV0271	150K Sx2	
D303	TV0030	KB-265C4		VR302	RV0272	19K Sx2	
D304	TV0030	KB-265C4		(Trimming Potentiometer)			
D305	TD0214	US-1035		VR303	RT0009	10KΩ B SR19R	
D306	TD0109	WZ-150 ZENER 15V		(Switch, PCB Board)			
D307	TD0109	WZ-150 ZENER 15V					
D308	TV0030	KB-265C4		S301ab	SP0269		
D309	TD0214	US-1035		PC1389	PB-1389		
D310	TD0214	US-1035					

TRANSISTORS & IC	
0101, 0102	2SC2740
0103	2SC2740
0104	2SC2740
0105	2SC2740
0106	2SC2740
0107	2SC2740
0108	2SC2740
0109	2SC2740
0110	2SC2740
0111	2SC2740
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0114	2SC2740
0115	2SC2740
0116	2SC2740
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0198	2SC2740
0199	2SC2740
0200	2SC2740



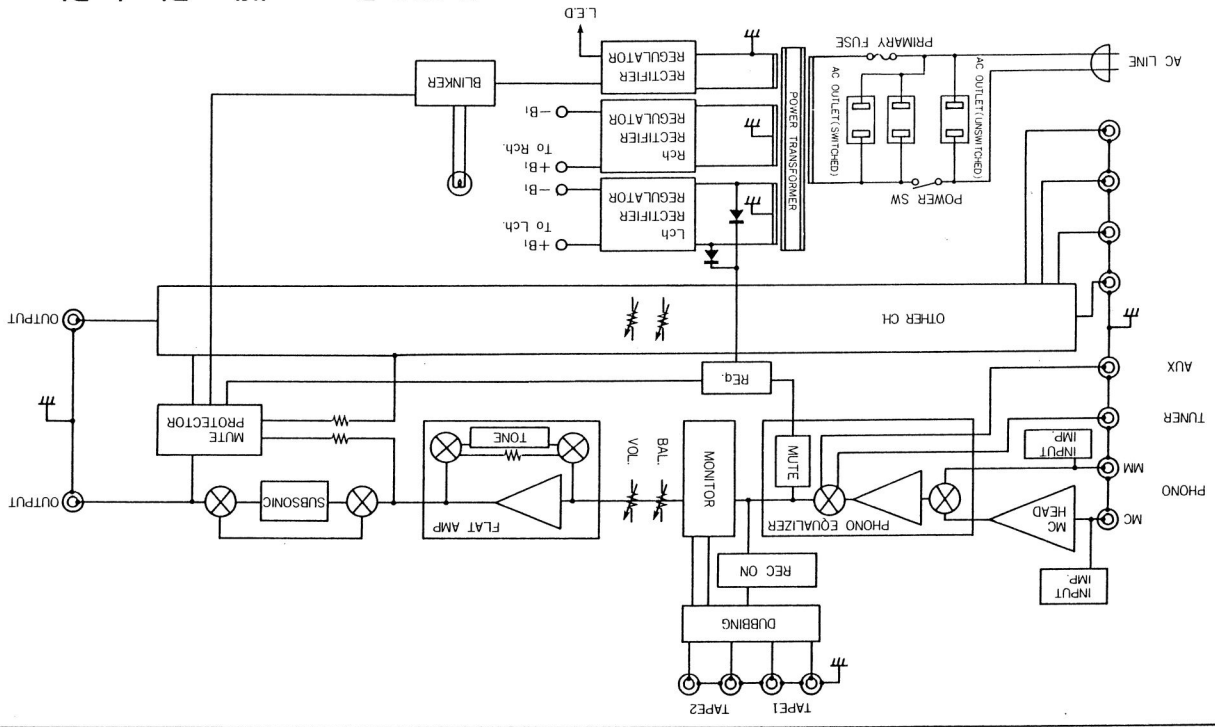
C-300KA

TRANSISTORS & IC		DIODES		SWITCHES		VARIABLE RESISTORS	
0101	0102	0501	0502	0801	0802	VR001	VR002
0103	0104	0503	0504	0803	0804	VR003	VR004
0105	0106	0505	0506	0805	0806	VR005	VR006
0107	0108	0507	0508	0807	0808	VR007	VR008
0109	0110	0509	0510	0809	0810	VR009	VR010
0111	0112	0511	0512	0811	0812	VR011	VR012
0113	0114	0513	0514	0813	0814	VR013	VR014
0115	0116	0515	0516	0815	0816	VR015	VR016
0117	0118	0517	0518	0817	0818	VR017	VR018
0119	0120	0519	0520	0819	0820	VR019	VR020
0121	0122	0521	0522	0821	0822	VR021	VR022
0123	0124	0523	0524	0823	0824	VR023	VR024
0125	0126	0525	0526	0825	0826	VR025	VR026
0127	0128	0527	0528	0827	0828	VR027	VR028
0129	0130	0529	0530	0829	0830	VR029	VR030
0131	0132	0531	0532	0831	0832	VR031	VR032
0133	0134	0533	0534	0833	0834	VR033	VR034
0135	0136	0535	0536	0835	0836	VR035	VR036
0137	0138	0537	0538	0837	0838	VR037	VR038
0139	0140	0539	0540	0839	0840	VR039	VR040
0141	0142	0541	0542	0841	0842	VR041	VR042
0143	0144	0543	0544	0843	0844	VR043	VR044
0145	0146	0545	0546	0845	0846	VR045	VR046
0147	0148	0547	0548	0847	0848	VR047	VR048
0149	0150	0549	0550	0849	0850	VR049	VR050
0151	0152	0551	0552	0851	0852	VR051	VR052
0153	0154	0553	0554	0853	0854	VR053	VR054
0155	0156	0555	0556	0855	0856	VR055	VR056
0157	0158	0557	0558	0857	0858	VR057	VR058
0159	0160	0559	0560	0859	0860	VR059	VR060
0161	0162	0561	0562	0861	0862	VR061	VR062
0163	0164	0563	0564	0863	0864	VR063	VR064
0165	0166	0565	0566	0865	0866	VR065	VR066
0167	0168	0567	0568	0867	0868	VR067	VR068
0169	0170	0569	0570	0869	0870	VR069	VR070
0171	0172	0571	0572	0871	0872	VR071	VR072
0173	0174	0573	0574	0873	0874	VR073	VR074
0175	0176	0575	0576	0875	0876	VR075	VR076
0177	0178	0577	0578	0877	0878	VR077	VR078
0179	0180	0579	0580	0879	0880	VR079	VR080
0181	0182	0581	0582	0881	0882	VR081	VR082
0183	0184	0583	0584	0883	0884	VR083	VR084
0185	0186	0585	0586	0885	0886	VR085	VR086
0187	0188	0587	0588	0887	0888	VR087	VR088
0189	0190	0589	0590	0889	0890	VR089	VR090
0191	0192	0591	0592	0891	0892	VR091	VR092
0193	0194	0593	0594	0893	0894	VR093	VR094
0195	0196	0595	0596	0895	0896	VR095	VR096
0197	0198	0597	0598	0897	0898	VR097	VR098
0199	0200	0599	0600	0899	0900	VR099	VR100



C-300 C-300

C-300 Preampifier Block Diagram



BLOCK DIAGRAM

SPECIFICATIONS

Output Voltage:	pre out;	rated 1V, max 20V
	rec. out;	rated 140mV, max 20V
Output Impedance:	pre out;	47 ohms
	rec. out;	100 ohms
Total Harmonic Distortion:	phono (MM, MC);	no more than 0.005% (rec. out; 140mV, 20-20kHz)
	tuner, aux;	no more than 0.005% (pre. out; 1V, 20-20kHz)
	monitor-1, -2;	no more than 0.005% (pre. out; 1V, 20-20kHz)
Rated I.M.:	phono (MM, MC);	no more than 0.002% (rec. out; 140mV, 60Hz : 7kHz=4:1)
	tuner, aux;	no more than 0.002% (pre. out; 1V, 60Hz: 7kHz=4:1)
	monitor-1, -2;	no more than 0.002% (pre.out; 1V, 60Hz:7kHz=4:1)
Frequency Response:	phono;	20Hz-20,000Hz (± 0.2 dB)
	tuner, aux;	0.5Hz-140,000Hz (-0.5dB)
	monitor-1, -2;	0.5Hz-140,000Hz (-0.5dB)
Input Sensitivity: (pre. out; 1V)	phono (MC);	0.09mV
	phono (MM);	2.0mV
	tuner, aux;	140mV
	monitor-1, -2;	140mV
Input Impedance:	phono (MC);	high (100 ohms), low (50 ohms)
	phono (MM);	MM (50k ohms), MC (100 ohms)
	tuner, aux;	55k ohms
	monitor-1, -2;	55k ohms
Signal-to-Noise Ratio: (IHF-A wtd, input short-circuited)	phono (MC);	-148dB/V (input-inverted)
	phono (MM);	80dB
	tuner, aux;	100dB
	monitor-1, -2;	100dB
Additional Features:	MC Impedance Selector, MM, MC direct Impedance Selector, Tone Bypass Switch, Tone Control (frequency shift type), REC. OUT Switch, Dual Tape Monitoring, Tape Dubbing, etc.	
Power Consumption:	25W	
Dimensions:	478(W) x 163(H) x 384(D) mm (Wood) (19.1" x 6.5" x 15.4")	
Weight:	Net 9 kgs (19.8 lbs.)	

Specifications and appearance design subject to change without notice.