TOYOTA
AUDIO COMPONENT SERVICE MANUAL

CQ-TS7471A

AM/FM/RDS MPX ELECTRONIC TUNING RADIO with CD Player

TOYOTA PART No. 86120-12880

ID CODE : 58816

VEHICLE : COROLLA

DESTINATION : Europe

PRODUCED AFTER : Apr., 2004

Specifications

General	
Power Supply	DC 12V
	Test Voltage 14.4V
	Negative Ground
Current Consumption	Less than 3.0A (at 0.5W)
FM Stereo Radio	
Frequency Range	87.50 - 108MHz
Effective Sensitivity	Less than 14dB/μV
Signal to Noise Ratio	More than 46dB
LW Radio	
Frequency Range	153 - 279Hz
Effective Sensitivity	43dB/μV
Signal to Noise Ratio	More than 42dB
MW Radio	
Frequency Range	522 - 1611Hz
Effective Sensitivity	34dB/μV
Signal to Noise Ratio	More than 42dB

CD Player (YGFD15269)	
Signal to Noise Ratio	More than 65dB
Total Harmonic Distortion	Less than 0.3%
Channel Separation	More than 70dB
Dimensions**	178×100×136mm(W×H×D)
Weight**	2000g

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

・Above specifications comply with EIA standards.

PUB. No. 80677

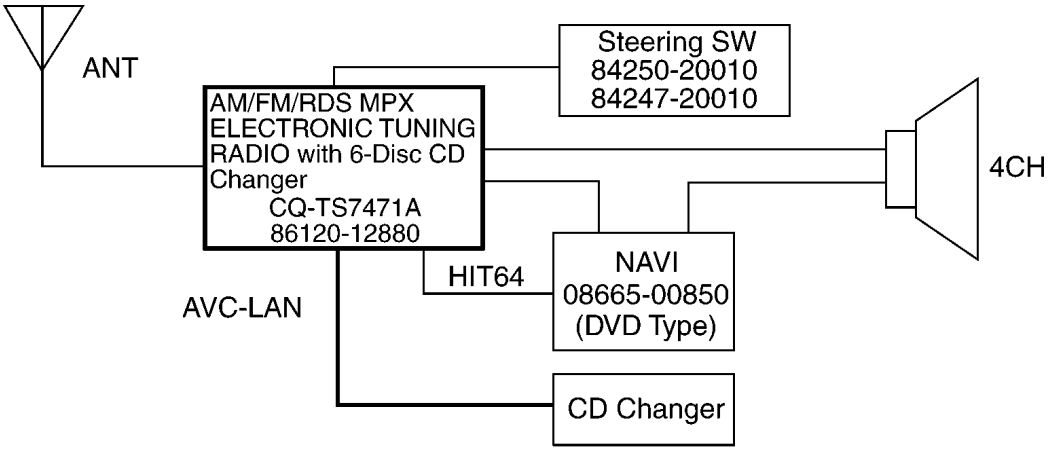
Manufactured for TOYOTA
by Matsushita Electric Industrial Co., Ltd.

CONTENTS

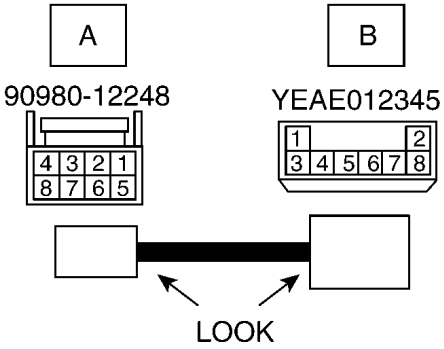
1 FEATUERS

- TOYOTA AVC-LAN
- 10-Pro Tuner Pack
- 24-station preset (18-FM, 6-AM)
- RDS (Radio Data System)
- LCD Module
- Escutcheon Color : Black
- The corner of the view is27°
- CD changer control
- Compatible with Audio CD, CD-R and CD-RW

2 SYSTEM BLOCK DIAGRAM



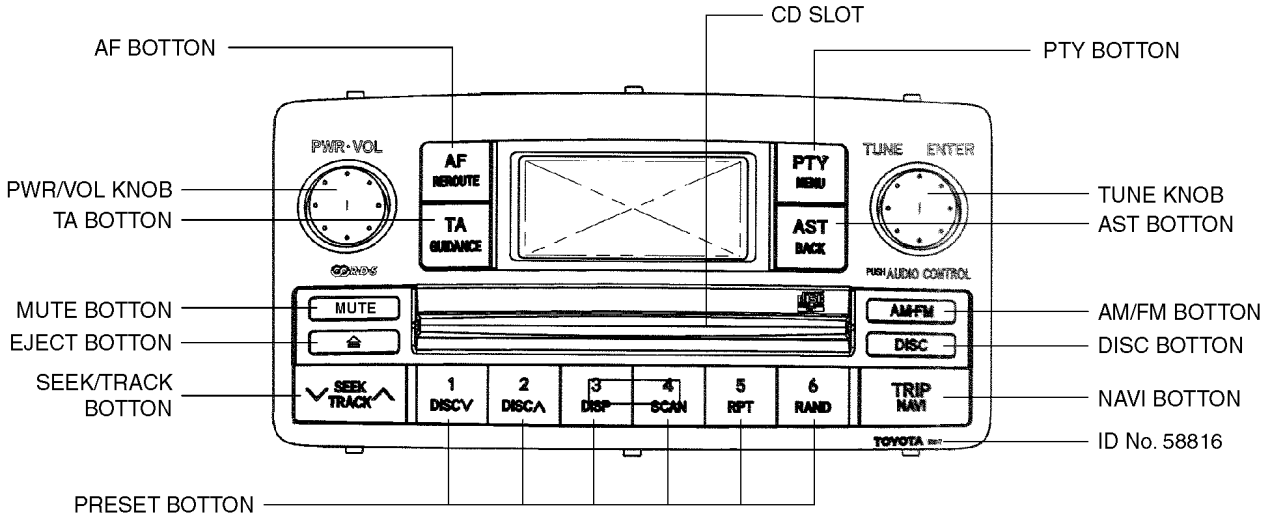
When "NAVI" is connected, the harness of the right drawing is necessary.



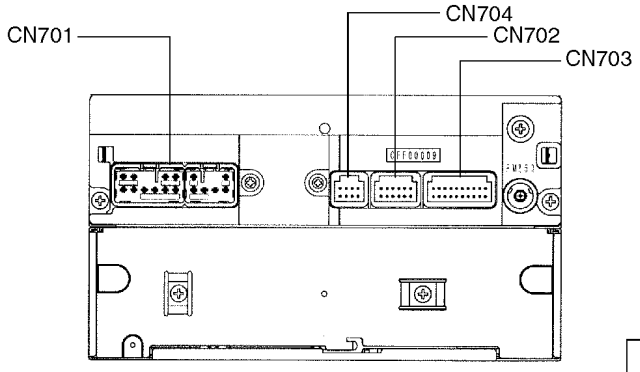
Connected	
A1	B1
A2	-
A3	-
A4	-
A5	B3
A6	B4
A7	B5
A8	-

3 VIEW AND CONNECTORS

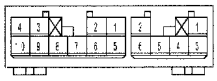
■ Front View



■ Rear View



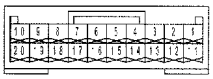
CN701 10P+6P CONNECTOR



1.	Front Signal Output, Right ⊕	(FR⊕)
2.	Front Signal Output, Left ⊕	(FL⊕)
3.	Power Supply, ACC	(ACC)
4.	Power Supply, +B	(⊕B)
5.	Front Signal Output, Right ⊖	(FR⊖)
6.	Front Signal Output, Left ⊖	(FL⊖)
7.	Ground	(GND)
8.	N.C	
9.	Power Supply, AMP ⊕	(AMP⊕)
10.	Illumination ⊕	(ILL⊕)

1.	Rear Signal Output, Right ⊕	(RR⊕)
2.	Rear Signal Output, Left ⊕	(RL⊕)
3.	Rear Signal Output, Right ⊖	(RR⊖)
4.	Tel Mute	(TLMT)
5.	N.C	
6.	Rear Signal Output, Left ⊖	(RL⊖)

CN703 20P CONNECTOR

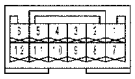


1.	Engine Type Ver.1 Input	(VER1)
2.	Engine Type Ver.3 Input	(VER3)
3.	Engine Type Ver.5 Input	(VER5)
4.	Outside Temperature Signal ⊕	(TH⊕)
5.	Outside Temperature Signal ⊖	(TH⊖)
6.	SW Ground	(SWGND)
7.	Steering SW1	(SW1)
8.	Steering SW2	(SW2)
9.	Bus Communication ⊕	(TX1⊕)
10.	Bus Communication ⊖	(TX1⊖)
11.	Engine Type Ver.2 Input	(VER2)
12.	Engine Type Ver.4 Input	(VER4)
13.	N.C	
14.	N.C	
15.	Speed Pulse Input	(SPD)
16.	Ground	(GND)
17.	TAUB	(TAUB)
18.	Injecter Drive Signal Input	(TAU)
19.	Ignition Pulse Input	(IG)
20.	N.C	

CN704 8P CONNECTOR

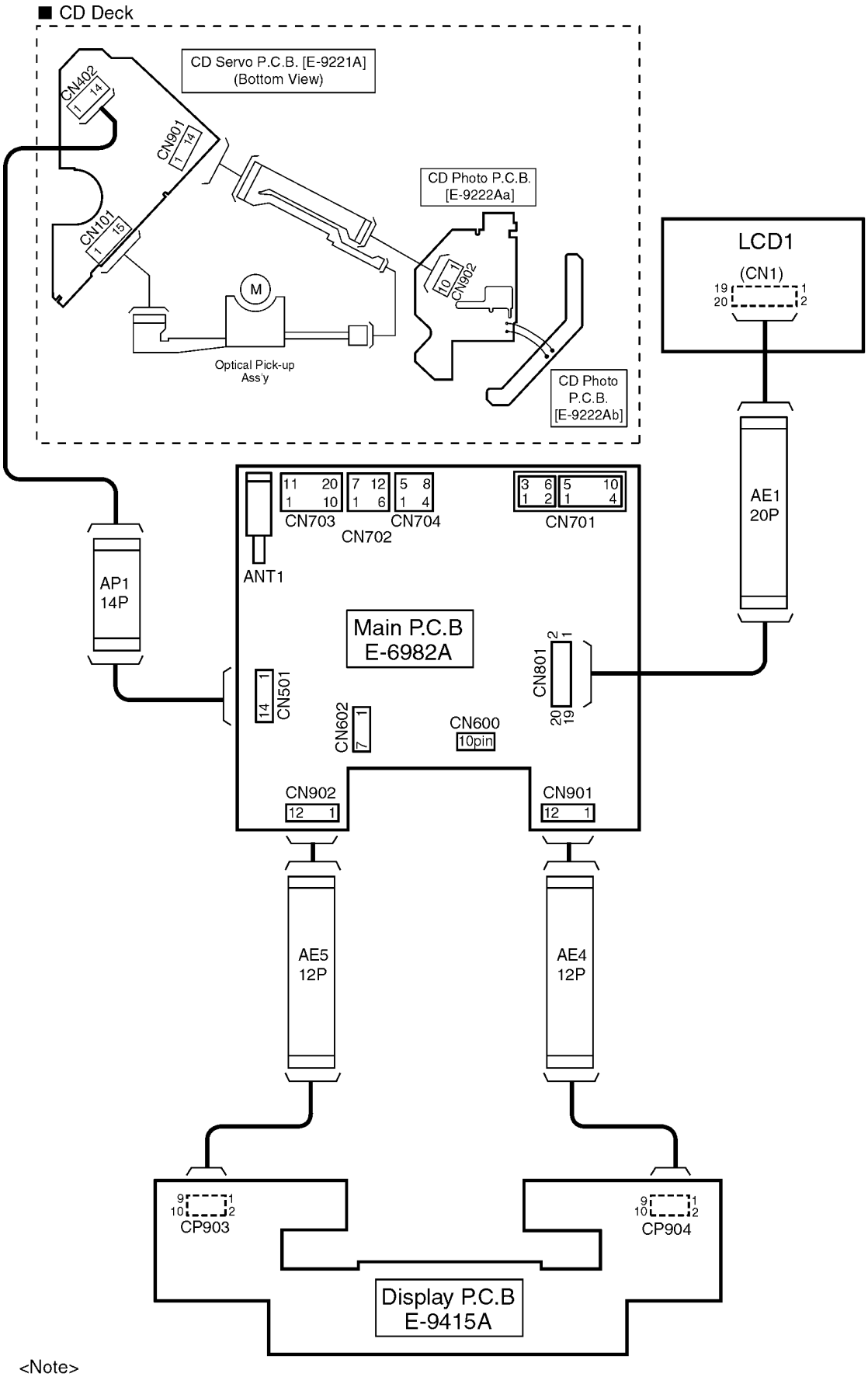
1.	BUS Request Output	(BRQ)
2.	N.C	
3.	N.C	
4.	N.C	
5.	Signal Ground	(S GND)
6.	HIT64 Communication ⊖	(HIT⊖)
7.	HIT64 Communication ⊕	(HIT⊕)
8.	N.C	

CN702 12P CONNECTOR



1.	Shild Ground	(SLD)
2.	Signal Input Right ⊕	(R⊕)
3.	Signal Input Right ⊖	(R⊖)
4.	Signal Input Left ⊕	(L⊕)
5.	Signal Input Left ⊖	(L⊖)
6.	Mute Control	(MUTE)
7.	Ground	(GND)
8.	N.C	
9.	Bus Communication ⊕	(TX⊕)
10.	Bus Communication ⊖	(TX⊖)
11.	Power Supply, ACC	(ACC)
12.	Power Supply, +B	(⊕B)

4 WIRING CONNECTION

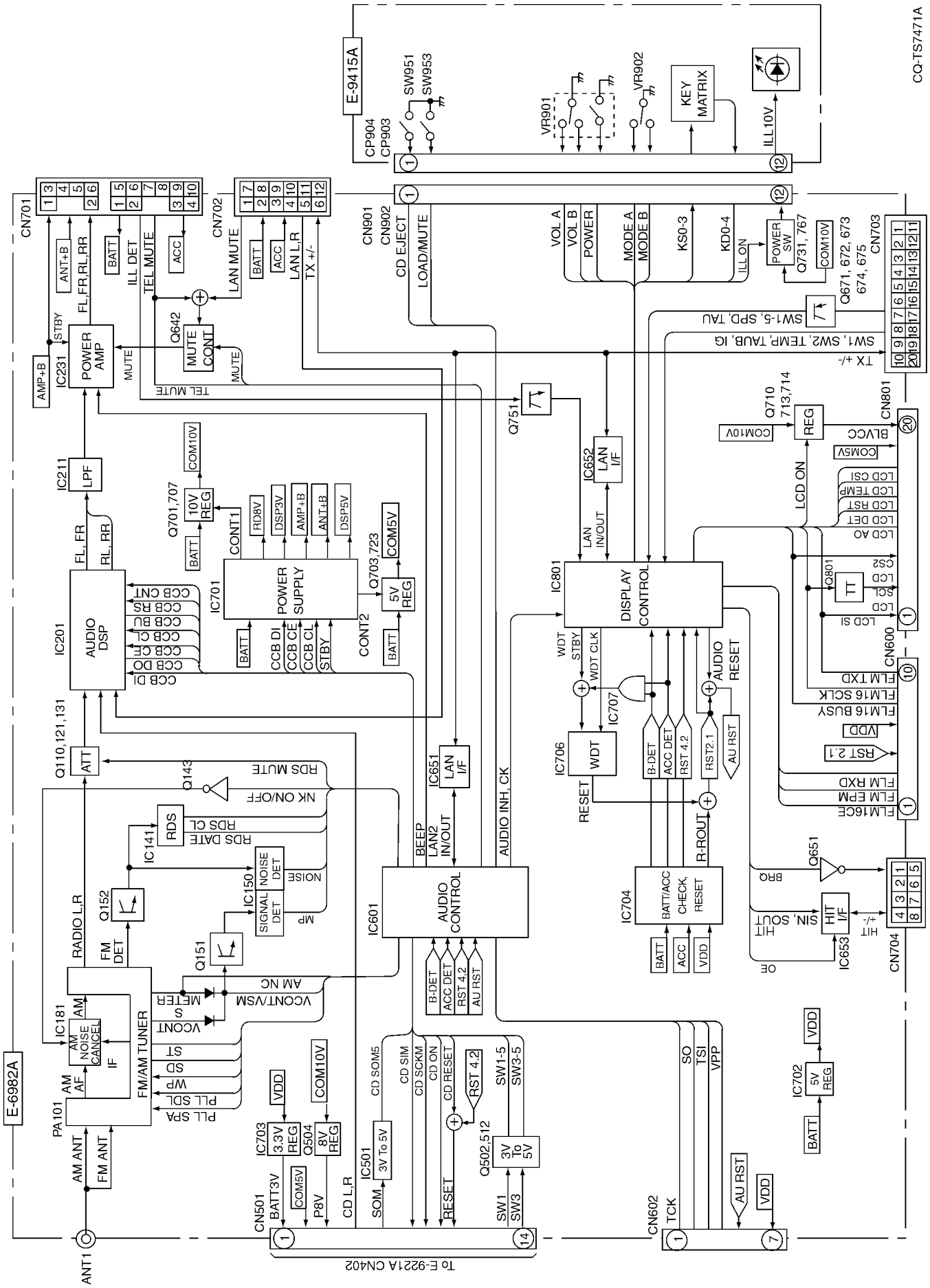


<Note>

▭ ·····This mark shows a Ref. No. of connector.

▭ ·····This mark shows a mounting position of connector.

5 BLOCK DIAGRAM



6 TERMINALS DESCRIPTION

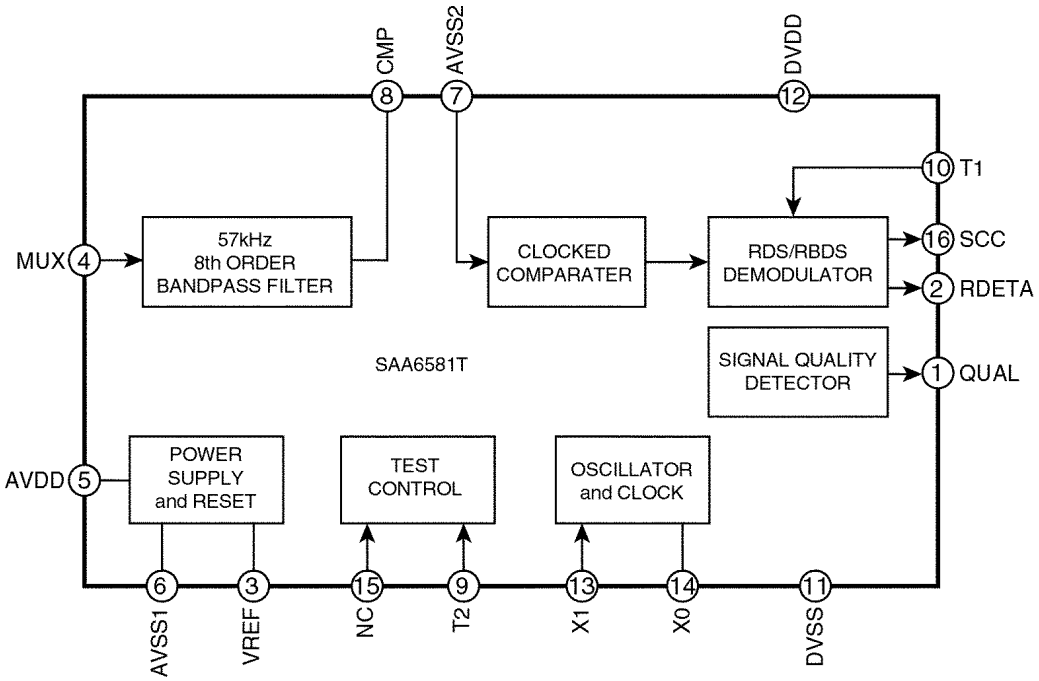
6.1. Main Block

IC601 : C2CBKH000103

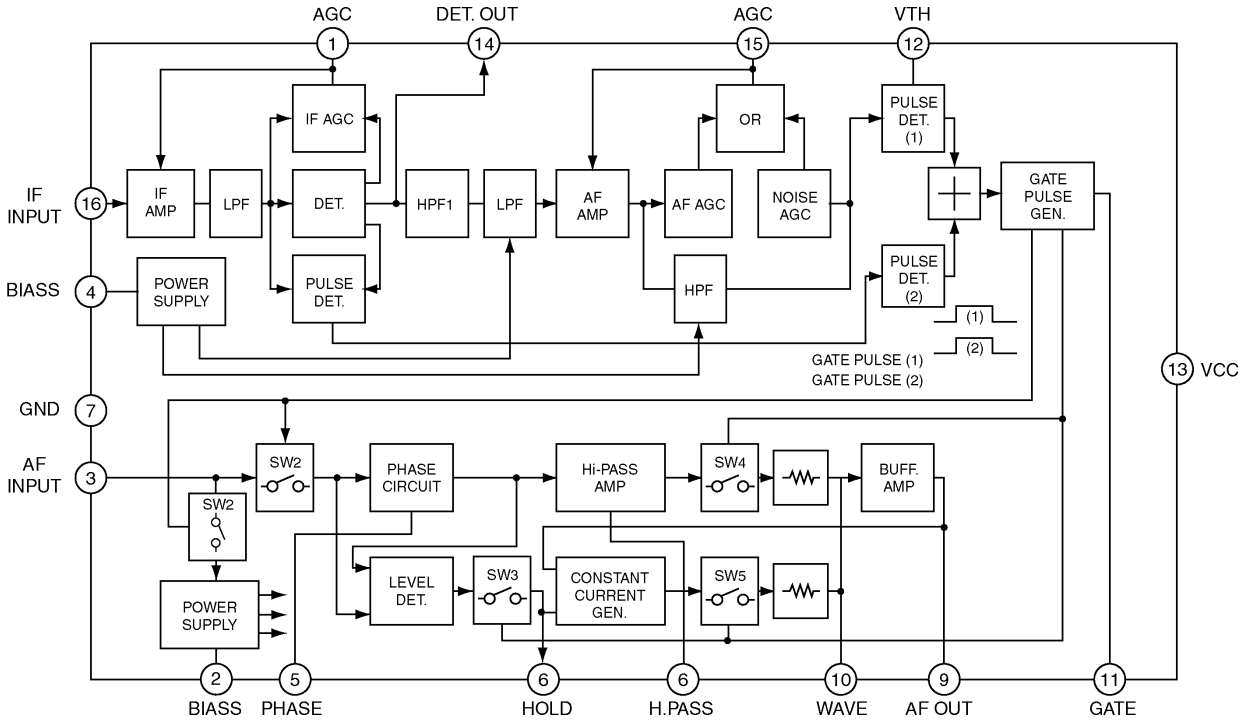
Pin No.	Port	Descriptions	I/O	(V)		
				FM	AM	CD
1	BEEP	-	O	0	0	0
2	NC	No connection	-	-	-	-
3	NC	No connection	-	-	-	-
4	SW3-5	CD Mute	I/O	4.8	4.9	0
5	NC	No connection	-	-	-	-
6	CD-ON	CD.C controller enable	O	0	0	4.9
7	CD-RESET	CD.C reset	O	4.9	5.0	5.0
8	CD-SCKM	CD.C shift clock	O	0	0	4.9
9	CD-SOM	CD serial data input	I	4.9	4.9	1.5
10	CD-SIM	CD serial data output	O	4.9	4.9	4.9
11	RESET	Reset	I	4.9	4.9	5.0
12	XT2(NC)	No connection	-	-	-	-
13	XT1	Ground	I	0	0	0
14	GND	Ground	-	0	0	0
15	X2	Crystal oscillator terminal	-	1.8	1.8	1.8
16	X1	Crystal oscillator terminal	I	1.5	1.5	1.5
17	REGOFF	Ground	-	0	0	0
18	REGCPU	Capacitor terminal	-	3.6	3.6	3.6
19	VDD0	+5V power supply	-	4.9	5.0	5.0
20	NC	No connection	-	-	-	-
21	GREEN(NC)	No connection	-	-	-	-
22	RED(NC)	No connection	-	-	-	-
23	Phanton	(Ground Pull-down)	-	0	0	0
24	MODE	Ground	I	4.9	4.9	5.0
25	NC	No connection	-	-	-	-
26	LOAD	Loading Detection	-	4.9	4.9	4.9
27	MODE-A	Mode encoder data	O	4.9	4.9	4.9
28	MODE-B	Mode encoder data	O	4.9	4.9	4.9
29	VOL-A	Volume encoder data	O	4.9	4.9	4.9
30	VOL-B	Volume encoder data	O	4.9	4.9	4.9
31	NC	No connection	-	-	-	-
32	AUDIO-CK	Audio clock	O	1.5	1.5	1.5
33	AUDIO-INH	Audio enable	O	4.9	5.0	4.9
34	LCD-SCK	LCD serial clock	O	0	0	0
35	LCD-DATA	LCD serial data	I	4.8	4.9	4.8
36	LCD-STB	LCD CE data	O	0	0	0
37	LCD-REQ	LCD data	O	0	0	0
38	NC	No connection	-	-	-	-
39	LCD-RESET	LCD Reset	O	0	0	0
40	GND	Ground	-	0	0	0
41	VDD	+5V power supply	-	4.9	5.0	5.0
42	-	-	-	-	-	-
43	STBY	Stand-by	I	4.9	5.0	5.0
44	CCB-DI	CCB Data input	I	4.8	5.0	4.9
45	CCB-DO	CCB Data output	O	0.5	0.5	0.5
46	CCB-CL	CCB serial clock	I	4.8	5.0	4.9
47	CCB-CE	CCB chip enable	I	0	0	0
48	CCB-RS	CCB RS	O	4.9	5.0	5.0
49	CCB-BU	CCB bus	I	0.5	0.5	0.5
50	CCB-CNT	CCB control	I	4.9	0	0
51	NC	No connection	-	-	-	-
52	MP	-	O	4.9	4.9	4.8
53	SD	SD signal	I	4.9	4.9	4.8
54	PLL-SDA	PLL serial data	I/O	4.9	4.9	4.9
55	PLL-SCL	PLL serial clock	O	4.9	5.0	5.0
56	ST	FM stereo detection	I	4.9	4.9	4.8
57	NC	No connection	-	-	-	-
58	NK ON/OFF	AM noise cancellor on/off	-	4.8	0	0
59	NC	No connection	-	-	-	-
60	TEL MUTE	TEL Mute	-	4.9	4.9	4.9
61	MUTE	Mute	-	0	0	0
62	NC	No connection	-	-	-	-
63	NC	No connection	-	-	-	-
64	NC	No connection	-	-	-	-
65	RDS CL	RDS clock	O	2.4	2.4	2.4
66	RDS DATA	RDS data	I	2.7	2.7	2.5
67	NC	No connection	-	-	-	-
68	RDS MUTE	RDS Mute	O	5.0	5.0	0
69	NC	No connection	-	-	-	-
70	NC	No connection	-	-	-	-
71	NC	No connection	-	-	-	-
72	NC	No connection	-	-	-	-
73	TEST(FLASH VPP)	(Ground pull-down)	-	0	0	0
74	ACC-IN	Temperature sensor	-	0	1.4	0
75	VCONT (VSM)	Field intensity detection	I	0.6	1.1	0.6
76	MP	-	I	0	0	0
77	NOISE	FM noise detection	I	1.4	0	1.4
78	NC	No connection	-	-	-	-
79	NC	No connection	-	-	-	-
80	NC	No connection	-	-	-	-
81	NC	No connection	-	-	-	-
82	VDD	+5V power supply	-	5.0	5.0	5.0
83	AVDD	+5V power supply	-	4.9	4.9	4.9
84	GND (AVSS)	Ground	-	0	0	0
85	LAN IN	LAN data input	I	0	0	0
86	LAN OUT	LAN data output	O	0	0	0
87	GND	Ground	-	0	0	0
88	CD EJ	CD Eject	I	4.9	4.9	4.9
89	NC	(Ground Pull-down)	-	0	0	0
90	PACK(SW)	-	I	4.9	4.9	0
91	+B-DET	Battery detection	I	4.9	4.9	4.9
92	ACC-DET	ACC detection	I	4.9	4.9	4.9
93	RESET 4.2	-	I	4.9	4.9	4.9
94	TSO(SUBC)	CD text serial data input	I	0	0	0
95	SO	Serial data output	O	0	0	0
96	TSI	CD text serial data output	O	0	0	0
97	TCK(SBCK)	CD text serial clock	O	0	0	0
98	TSTB	CD text TSTB No	I	0	0	0
99	NC	No connection	-	-	-	-
100	NC	No connection	-	-	-	-

7 PACKAGE AND IC BLOCK DIAGRAM

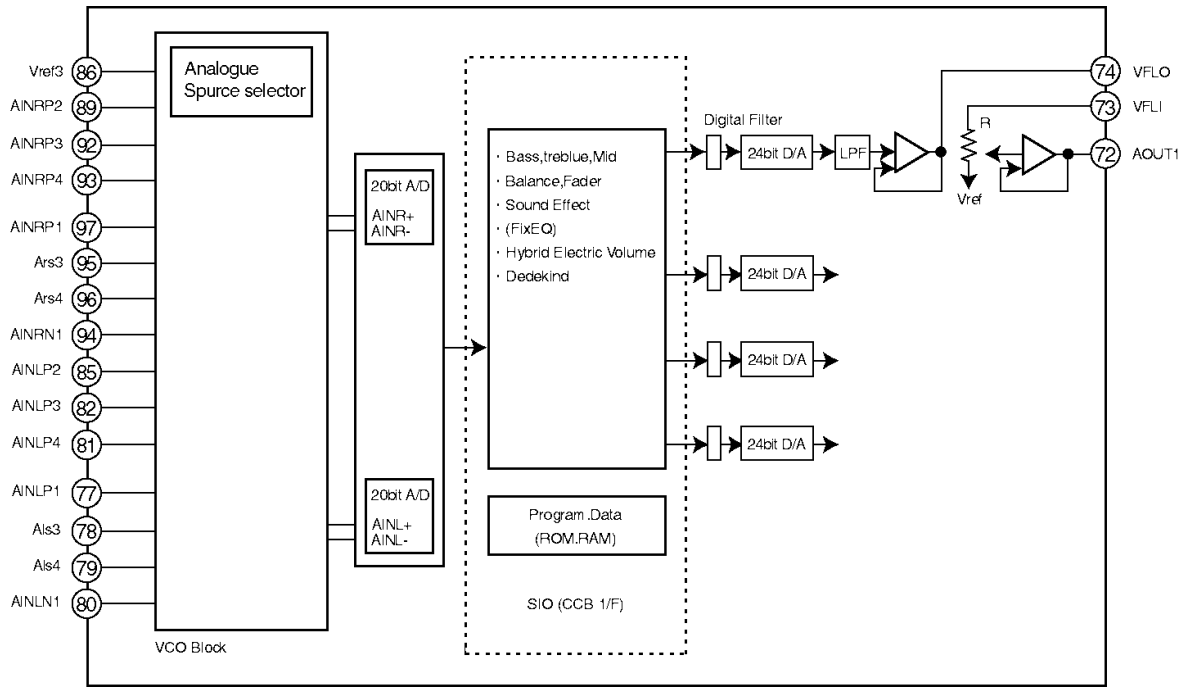
7.1. Main Block



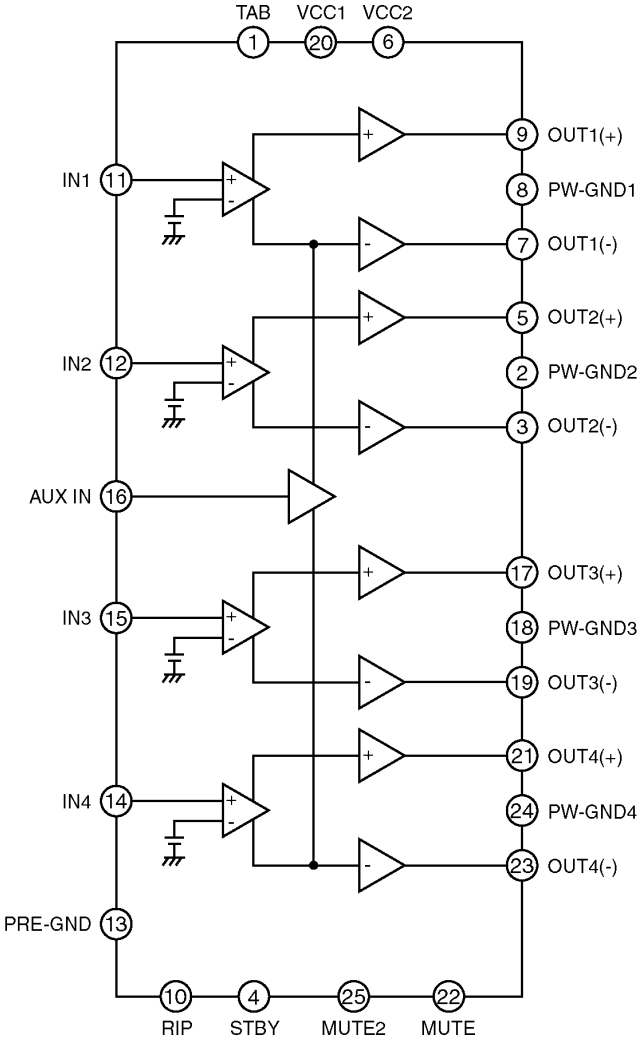
IC141 : C1EB00000061



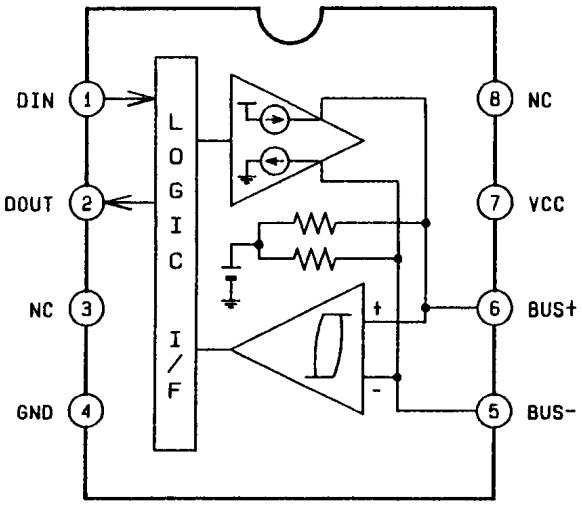
IC181 : YEAMHA12181F



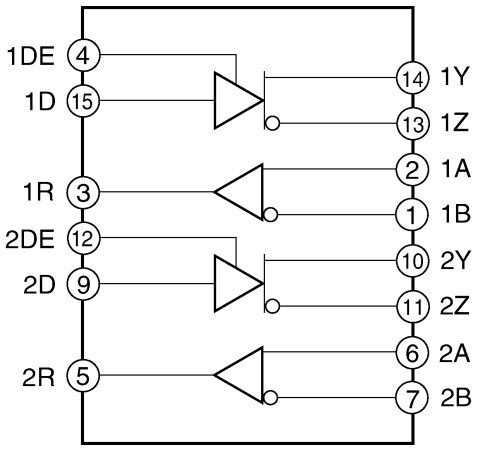
IC201 : C2HBZF000007



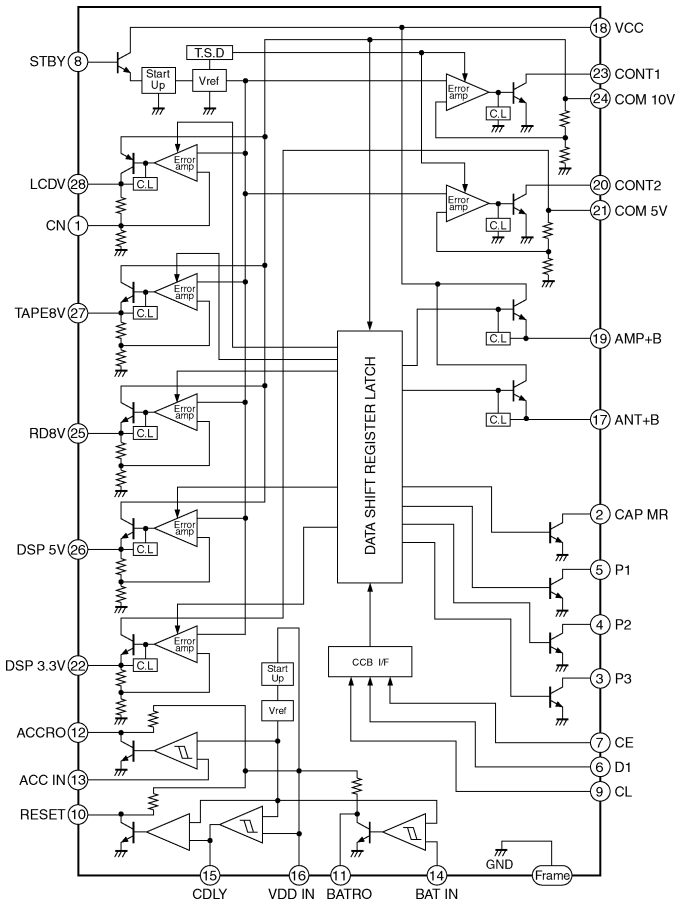
IC231 : C1BA00000345



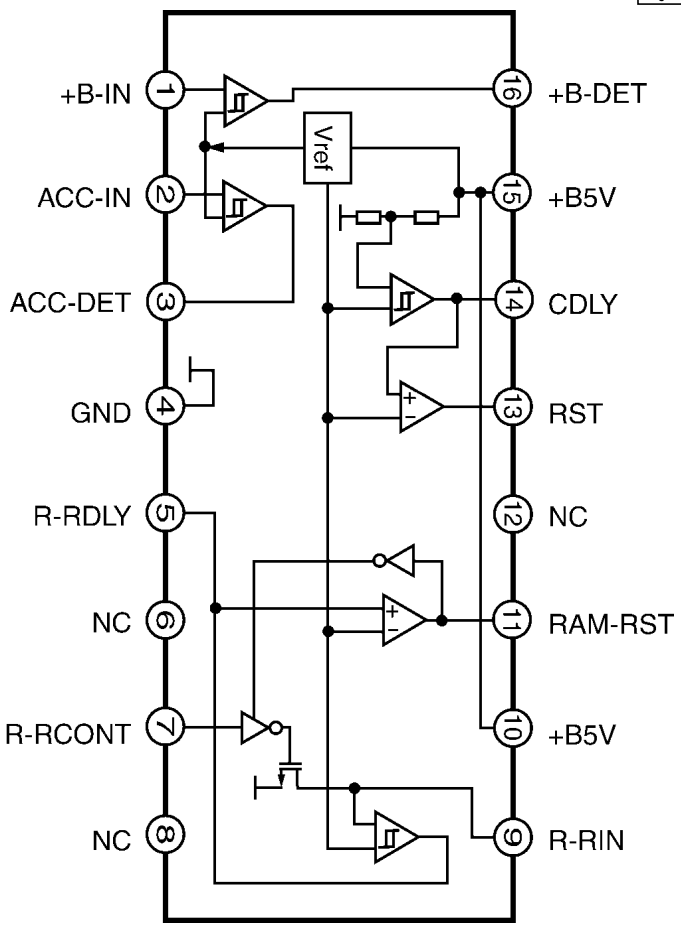
IC651,652 : C1EB00000001



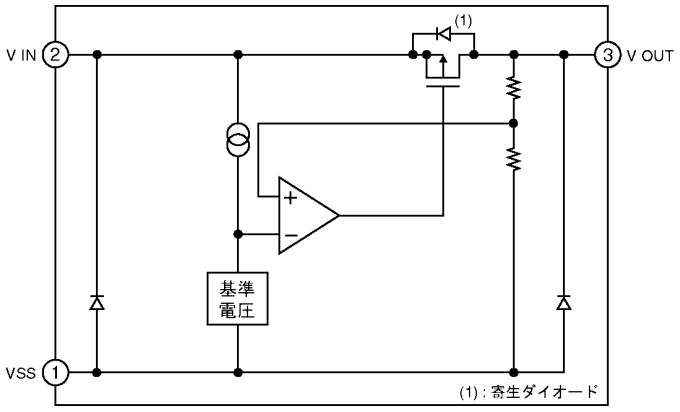
IC653 : C1EB00000017



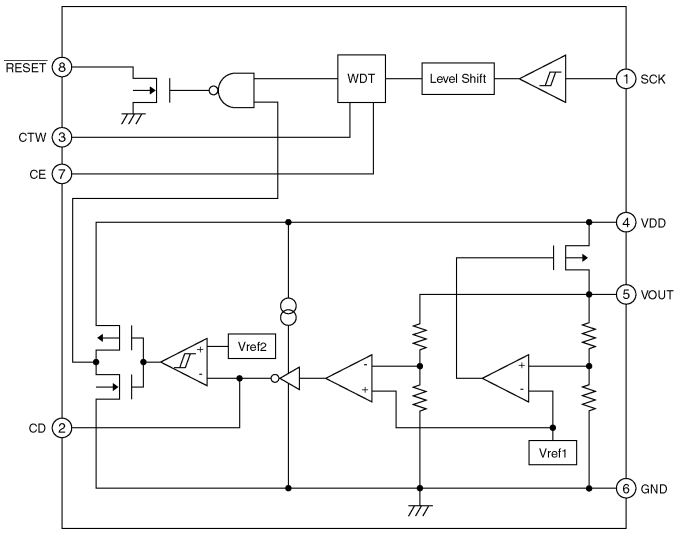
IC701 : C0DBZHZ00020



IC704 : AN31910A-NF



IC703 : C0CBABC00138



IC706 : C0EBE0000174

8 REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer´s specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
[E6982A] Main Block			
IC´s AND TRANSISTORs			
IC141	C1EB00000061	IC	
IC150	C0ABCB000032	IC	
IC181	YEAMHA12181F	IC	
IC201	C2HBZF000007	IC	
IC211	C0ABCB000038	IC	
IC231	C1BA00000345	IC	
IC501	YEAMT7ST00UL	IC	
IC601	C2CBKH000103	IC	
IC651	C1EB00000001	IC	
IC652	C1EB00000001	IC	
IC653	C1EB00000017	IC	
IC701	C0DBZHZ00020	IC	
IC702	C1BB00000828	IC	
IC703	C0CBABC00138	IC	
IC704	AN31910A-NF	IC	
IC706	C0EBE0000174	IC	
IC707	C0JBAA000102	IC	
IC801	C2CBJH000062	IC	
PA101	YEP0PTB566B0	Electronic Tuner	
Q110	B1GDCFNN0007	Transistor	
Q121	YEANC323TUTX	Transistor	
Q131	YEANC323TUTX	Transistor	
Q143	B1GBCFGN0001	Transistor	
Q151	B1ABCF000044	Transistor	
Q152	B1ABCF000044	Transistor	
Q502	YEAN2SK3018T	Transistor	
Q504	B1BBCD000001	Transistor	
Q512	YEAN2SK3018T	Transistor	
Q642	B1GKCFNN0006	Transistor	
Q651	B1GBCFNN0004	Transistor	
Q671	B1GDCFJJ0002	Transistor	
Q672	B1GDCFJJ0002	Transistor	
Q673	B1GDCFJJ0002	Transistor	
Q674	B1GDCFJJ0002	Transistor	
Q675	B1GDCFJJ0002	Transistor	
Q681	B1ABCF000042	Transistor	
Q691	B1ABCF000042	Transistor	
Q701	YEAN2SA1757	Transistor	
Q703	YEAN2SA1757	Transistor	
Q707	YEAN2SA1757	Transistor	
Q710	B1BBCD000001	Transistor	
Q713	B1GDCFGN0001	Transistor	
Q714	B1GBCFNN0009	Transistor	
Q723	YEAN2SA1757	Transistor	
Q731	2SB1073TX	Transistor	
Q751	B1GBCFNN0009	Transistor	
Q767	YEANC114YKX	Transistor	
Q801	YEAN2SK1133T	Transistor	
DIODEs			
D16	YEADEC10DS1	Diode	
D101	B0ADDJ000007	Diode	
D110	B0ACCK000005	Diode	
D141	MA153TX	Diode	
D142	MA153TX	Diode	
D501	B0BC8R200012	Diode	
D502	B0ADDJ000006	Diode	
D601	B0ADDJ000006	Diode	
D641	B0ACCK000005	Diode	
D643	B0ACCK000005	Diode	
D644	B0ACCK000005	Diode	
D651	YEADRD18M2T1	Diode	
D652	YEADRD18M2T1	Diode	
D653	YEADRD18M2T1	Diode	
D654	YEADRD18M2T1	Diode	
D655	YEADRD13P2T1	Diode	
D656	YEADRD13P2T1	Diode	
D658	B0ACCK000005	Diode	
D671	MA8056LMHTX	Diode	
D672	MA8056LMHTX	Diode	
D673	MA8056LMHTX	Diode	
D674	MA8056LMHTX	Diode	
D675	MA8056LMHTX	Diode	
D676	B0ACCK000005	Diode	
D677	B0ACCK000005	Diode	
D678	B0ACCK000005	Diode	
D679	B0ACCK000005	Diode	
D680	B0ACCK000005	Diode	
D683	MA153TX	Diode	
D684	MA153TX	Diode	
D685	MA153TX	Diode	
D691	YEADSR1544TL	Diode	
D701	B0BC02700005	Diode	
D703	YEADRB051L40	Diode	
D705	B0BC3R900023	Diode	
D712	B0ADDJ000007	Diode	
D751	B0BC6R800004	Diode	
D760	B0ADDJ000008	Diode	
D761	B0ADDJ000008	Diode	
D762	B0ADDJ000006	Diode	
D800	B0ACCK000005	Diode	
D801	B0ACCK000005	Diode	
D802	B0ACCK000005	Diode	
D803	B0ACCK000005	Diode	
CAPACITORs			
C51	F1J1H102A394	Ceramic, 1000PF 50WV	
C101	YECUS1C154KX	Ceramic, 0.15µF 16WV	
C102	YECUS1H123KX	Ceramic, 0.012µF 50WV	
C103	YECUZ1E223KX	Ceramic, 0.022µF 25WV	
C104	ECEA1AKA101I	Electrolytic, 100µF 10WV	
C107	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C109	F1H1A1050019	Ceramic, 1µF 10WV	
C110	ECEA1HKAR22I	Electrolytic, 0.22µF 50WV	
C111	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C112	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C115	EEUFC1A221B	Electrolytic, 220µF 10WV	
C118	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C119	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C120	F1J1H471A665	Ceramic, 470PF 50WV	
C121	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C123	YECUS1A105KX	Ceramic, 1µF 10WV	
C131	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C133	YECUS1A105KX	Ceramic, 1µF 10WV	
C141	F1J1H331A665	Ceramic, 330PF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C142	ECEA1HKA2R2I	Electrolytic, 2.2µF 50WV	
C143	F1J1H271A672	Ceramic, 270PF 50WV	
C144	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C145	F1J1H561A672	Ceramic, 560PF 50WV	
C146	ECEA0JKA470I	Electrolytic, 47µF 6.3WV	
C147	F1J1H103A513	Ceramic, 0.01µF 50WV	
C148	YECUS1H470JC	Ceramic, 47PF 50WV	
C149	F1J1H560A025	Ceramic, 56PF 50WV	
C150	F1J1H122A675	Ceramic, 1200PF 50WV	
C151	F1J1H152A675	Ceramic, 1500PF 50WV	
C152	F1J1H103A513	Ceramic, 0.01µF 50WV	
C153	ECEA1HKA4R7I	Electrolytic, 4.7µF 50WV	
C154	F1J1H151A672	Ceramic, 150PF 50WV	
C155	YECUZ1H151JC	Ceramic, 150PF 50WV	
C156	F1J1H151A672	Ceramic, 150PF 50WV	
C157	F1J1H151A672	Ceramic, 150PF 50WV	
C158	F1J1H1020024	Ceramic, 1000PF 50WV	
C159	YECUS1H100CC	Ceramic, 10PF 50WV	
C160	F1J1H1020024	Ceramic, 1000PF 50WV	
C161	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C162	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C178	ECEA1AKA101I	Electrolytic, 100µF 10WV	
C180	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C181	F1H1E273A011	Ceramic, 0.027µF 25WV	
C182	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C183	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C184	YECUS1C683KX	Ceramic, 0.068µF 16WV	
C186	ECEA1HKA3R3I	Electrolytic, 3.3µF 50WV	
C187	F1H1E153A011	Ceramic, 0.015µF 25WV	
C188	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C189	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C190	F1H1E103A011	Ceramic, 0.01µF 25WV	
C191	F1J1H562A675	Ceramic, 5600PF 50WV	
C192	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C196	YECUZ1H102KX	Ceramic, 1000PF 50WV	
C201	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C202	F1J1C1050013	Ceramic, 1µF 16WV	
C203	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C204	F1J1C1050013	Ceramic, 1µF 16WV	
C205	F1J1C1050013	Ceramic, 1µF 16WV	
C206	F1H1H152A201	Ceramic, 1500PF 50WV	
C207	ECEA1HSN2R2I	Electrolytic, 2.2µF 50WV	
C208	ECEA1HSN2R2I	Electrolytic, 2.2µF 50WV	
C209	F1H1H180A231	Ceramic, 18PF 50WV	
C210	F1H1H180A231	Ceramic, 18PF 50WV	
C213	F1H1H821A190	Ceramic, 820PF 50WV	
C215	F1H1H821A190	Ceramic, 820PF 50WV	
C219	ECEA1HSNR33I	Electrolytic, 0.33µF 50WV	
C220	ECEA1HSNR33I	Electrolytic, 0.33µF 50WV	
C221	YECUZ1H221JC	Ceramic, 220PF 50WV	
C222	YECUZ1H221JC	Ceramic, 220PF 50WV	
C225	F1J1E2240009	Ceramic, 0.22µF 25WV	
C226	F1J1E2240009	Ceramic, 0.22µF 25WV	
C227	F1J1E2240009	Ceramic, 0.22µF 25WV	
C228	F1J1E2240009	Ceramic, 0.22µF 25WV	
C229	YECUZ1H102KX	Ceramic, 1000PF 50WV	
C230	F1H1E4730007	Ceramic, 0.047µF 25WV	
C231	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C233	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C270	EEUFC1A221B	Electrolytic, 220µF 10WV	
C271	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C272	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C273	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C274	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C275	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C276	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C277	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C278	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C279	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C280	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C281	F1H1H100A226	Ceramic, 10PF 50WV	
C282	F1H1H100A226	Ceramic, 10PF 50WV	
C283	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C284	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C285	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C289	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C290	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C291	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C292	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C293	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C294	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C295	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C296	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C297	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C298	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C299	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C301	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C302	F1J1C1050013	Ceramic, 1µF 16WV	
C304	F1J1C1050013	Ceramic, 1µF 16WV	
C305	F1J1C1050013	Ceramic, 1µF 16WV	
C306	F1H1H152A201	Ceramic, 1500PF 50WV	
C307	ECEA1HSN2R2I	Electrolytic, 2.2µF 50WV	
C308	ECEA1HSN2R2I	Electrolytic, 2.2µF 50WV	
C309	F1H1H180A231	Ceramic, 18PF 50WV	
C310	F1H1H180A231	Ceramic, 18PF 50WV	
C313	F1H1H821A190	Ceramic, 820PF 50WV	
C315	F1H1H821A190	Ceramic, 820PF 50WV	
C319	ECEA1HSNR33I	Electrolytic, 0.33µF 50WV	
C320	ECEA1HSNR33I	Electrolytic, 0.33µF 50WV	
C321	YECUZ1H221JC	Ceramic, 220PF 50WV	
C322	YECUZ1H221JC	Ceramic, 220PF 50WV	
C325	F1J1E2240009	Ceramic, 0.22µF 25WV	
C326	F1J1E2240009	Ceramic, 0.22µF 25WV	
C327	F1J1E2240009	Ceramic, 0.22µF 25WV	
C328	F1J1E2240009	Ceramic, 0.22µF 25WV	
C363	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C502	YECUZ1H102KX	Ceramic, 1000PF 50WV	
C521	YECUZ1H271JC	Ceramic, 270PF 50WV	
C522	YECUZ1H271JC	Ceramic, 270PF 50WV	
C531	YECUZ1H271JC	Ceramic, 270PF 50WV	
C532	YECUZ1H271JC	Ceramic, 270PF 50WV	
C600	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C602	F1J1C1050013	Ceramic, 1µF 16WV	
C603	F1H1H180A231	Ceramic, 18PF 50WV	
C604	F1H1H180A231	Ceramic, 18PF 50WV	
C607	F1J1H103A700	Ceramic, 0.01µF 50WV	
C609	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C611	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C612	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C614	F1J1H103A700	Ceramic, 0.01µF 50WV	
C615	F1J1H103A700	Ceramic, 0.01µF 50WV	
C640	ECEA1HKAR47I	Electrolytic, 0.47µF 50WV	
C641	F1J1H103A513	Ceramic, 0.01µF 50WV	
C644	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C651	F1J1H103A700	Ceramic, 0.01µF 50WV	
C653	YECUS1H820JM	Ceramic, 82PF 50WV	
C654	YECUS1H820JM	Ceramic, 82PF 50WV	
C655	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C656	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C657	F1J1H221A665	Ceramic, 220PF 50WV	
C671	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C672	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C673	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C674	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C675	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C676	YECUV2A102KX	Ceramic, 1000PF 100WV	
C677	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C682	YECUS1E473KX	Ceramic, 0.047µF 25WV	
C684	F1J1H471A665	Ceramic, 470PF 50WV	
C685	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C686	YECUV1H221JM	Ceramic, 220PF 50WV	
C687	F1J1H471A665	Ceramic, 470PF 50WV	
C688	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C690	YECUV1H221JM	Ceramic, 220PF 50WV	
C691	YECUV2A102KX	Ceramic, 1000PF 100WV	
C701	ECA1CM222B	Electrolytic, 2200µF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C702	ECA1CM222B	Electrolytic, 2200µF 16WV	
C703	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C704	F1J1H102A394	Ceramic, 1000PF 50WV	
C705	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C707	F2A1C2220064	Electrolytic, 2200µF 16WV	
C708	ECA1CHG102B	Electrolytic, 1000µF 16WV	
C709	EEUFC1C471LB	Electrolytic, 470µF 16WV	
C710	ECEA1CKA100I	Electrolytic, 10µF 16WV	
C711	F1J1H103A700	Ceramic, 0.01µF 50WV	
C713	EEAFC0J121H	Electrolytic, 120µF 6.3WV	
C714	F1H1E103A011	Ceramic, 0.01µF 25WV	
C716	ECA1CM100I	Electrolytic, 10µF 16WV	
C719	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C721	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C725	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C727	YECUB1H104KX	Ceramic, 0.1µF 16WV	
C728	YECUB1H104KX	Ceramic, 0.1µF 50WV	
C738	ECA1AM221B	Electrolytic, 220µF 10WV	
C750	ECA1CM101I	Electrolytic, 100µF 16WV	
C751	F1J1H103A700	Ceramic, 0.01µF 50WV	
C756	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C757	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C772	ECEA1HKAR22I	Electrolytic, 0.22µF 50WV	
C773	ECEA1HKAR22I	Electrolytic, 0.22µF 50WV	
C774	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C776	F1J1H221A665	Ceramic, 220PF 50WV	
C777	F1J1H221A665	Ceramic, 220PF 50WV	
C778	YECUS2A103KX	Ceramic, 0.01µF 100WV	
C780	F1J1H221A665	Ceramic, 220PF 50WV	
C781	F1J1H221A665	Ceramic, 220PF 50WV	
C782	YECUS1H820JM	Ceramic, 82PF 50WV	
C783	YECUS1H820JM	Ceramic, 82PF 50WV	
C788	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C790	YECUS1C823KX	Ceramic, 0.082µF 16WV	
C791	YECUZ1E223KX	Ceramic, 0.022µF 25WV	
C792	F1J1C1050013	Ceramic, 1µF 16WV	
C793	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C794	YECUZ1H102KX	Ceramic, 1000PF 50WV	
C795	F1J1C1050013	Ceramic, 1µF 16WV	
C796	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C797	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C798	F1J1H103A700	Ceramic, 0.01µF 50WV	
C800	ECA1AM221B	Electrolytic, 220µF 10WV	
C801	F1H1H2200007	Ceramic, 22PF 50WV	
C802	F1H1H2200007	Ceramic, 22PF 50WV	
C803	YECUZ1H220JC	Ceramic, 22PF 50WV	
C804	YECUZ1H220JC	Ceramic, 22PF 50WV	
C805	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C806	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C807	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C808	YECUZ1H102KX	Ceramic, 1000PF 50WV	
C809	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C810	F1J1H103A700	Ceramic, 0.01µF 50WV	
C811	YECUS1H100CC	Ceramic, 10PF 50WV	
C812	F1H1E103A011	Ceramic, 0.01µF 25WV	
C814	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C816	F1J1H103A700	Ceramic, 0.01µF 50WV	
C841	F1H1C473A005	Ceramic, 0.047µF 16WV	
C842	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C844	YECUZ1H221JC	Ceramic, 220PF 50WV	
C845	YECUZ1H221JC	Ceramic, 220PF 50WV	
C846	F1J1H221A665	Ceramic, 220PF 50WV	
C847	F1J1H221A665	Ceramic, 220PF 50WV	
RESISTORs			
C211	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
C212	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
C288	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
C311	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
C312	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
C605	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
L2	ERJ6GEY0R00V	Chip, 0Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
L140	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L500	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L502	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L504	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
L521	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L531	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L671	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L672	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L673	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L674	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L675	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L681	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L710	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R51	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R66	ERA6YED103V	Metal Film, 10kΩ 1/10W	
R101	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R102	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R110	ERJ3GEYJ332V	Chip, 3.3kΩ 1/16W	
R111	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R122	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R123	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R124	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R132	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R133	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R134	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R140	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R142	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R145	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R147	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R148	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R150	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R151	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R152	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R153	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R154	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R155	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R156	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R157	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R158	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R159	ERJ3GEYJ393V	Chip, 39kΩ 1/16W	
R160	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R161	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R162	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R163	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R164	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R165	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R166	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R167	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R168	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R169	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R184	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R187	ERJ3GEYJ332V	Chip, 3.3kΩ 1/16W	
R189	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R190	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R194	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R195	ERJ3GEYJ303V	Chip, 30kΩ 1/16W	
R196	ERJ3GEYJ332V	Chip, 3.3kΩ 1/16W	
R197	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R200	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R204	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R205	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R206	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R207	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R209	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R210	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R211	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R212	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R213	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R216	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R217	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R218	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R219	ERJ3GEYJ152V	Chip, 1.5kΩ 1/16W	
R220	ERJ3GEYJ152V	Chip, 1.5kΩ 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R221	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R222	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R225	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R226	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R227	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R228	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R229	ERJ3GEYJ471V	Chip, 470Ω 1/16W	
R230	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R251	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R252	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R253	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R254	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R255	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R256	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R271	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R272	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R274	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R276	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R281	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R304	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R305	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R306	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R307	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R309	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R310	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R311	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R312	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R313	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R316	ERJ3GEYJ223V	Chip, 22kΩ 1/16W	
R317	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R318	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R319	ERJ3GEYJ152V	Chip, 1.5kΩ 1/16W	
R320	ERJ3GEYJ152V	Chip, 1.5kΩ 1/16W	
R321	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R322	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R325	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R326	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R327	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R328	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R351	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R352	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R353	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R354	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	
R355	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R356	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R502	ERJ3GEYJ562V	Chip, 5.6kΩ 1/16W	
R504	ERJ3GEYJ474V	Chip, 470kΩ 1/16W	
R505	ERJ3GEYJ561V	Chip, 560Ω 1/16W	
R512	ERJ3GEYJ562V	Chip, 5.6kΩ 1/16W	
R514	ERJ3GEYJ474V	Chip, 470kΩ 1/16W	
R515	ERJ3GEYJ123V	Chip, 12kΩ 1/16W	
R516	ERJ3GEYJ123V	Chip, 12kΩ 1/16W	
R521	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R522	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R531	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R532	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R600	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R602	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R604	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R605	ERJ3GEYJ221V	Chip, 220Ω 1/16W	
R607	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R610	ERJ3GEYJ274V	Chip, 270kΩ 1/16W	
R615	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R618	ERJ3GEYJ332V	Chip, 3.3kΩ 1/16W	
R619	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R620	ERJ6GEYJ474	Chip, 470kΩ 1/10W	
R621	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R622	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R623	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R625	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R628	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R630	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R631	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R633	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R634	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R637	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R638	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R639	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R641	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R643	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R644	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R646	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R648	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R649	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R650	ERG1SJ680E	Metal Oxid, 68Ω 1W	
R651	ERJ8GEYJ101V	Chip, 100Ω 1/8W	
R652	ERJ8GEYJ101V	Chip, 100Ω 1/8W	
R653	ERJ8GEYJ101V	Chip, 100Ω 1/8W	
R654	ERJ8GEYJ101V	Chip, 100Ω 1/8W	
R655	ERG1SJ101E	Metal Oxid, 100Ω 1W	
R656	ERG1SJ101E	Metal Oxid, 100Ω 1W	
R657	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R658	ERJ6GEYJ391	Chip, 390Ω 1/10W	
R659	ERJ6GEYJ391	Chip, 390Ω 1/10W	
R660	ERJ3GEYJ562V	Chip, 5.6kΩ 1/16W	
R661	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R662	ERJ3GEYJ562V	Chip, 5.6kΩ 1/16W	
R663	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R671	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R672	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R673	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R674	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R675	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R676	ERA6YED472V	Metal Film, 4.7kΩ 1/10W	
R677	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R679	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R680	ERA6YED303V	Metal Film, 30kΩ 1/10W	
R681	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R682	ERJ6GEYJ432V	Chip, 4.3kΩ 1/10W	
R683	ERJ6GEYJ512V	Chip, 5.1kΩ 1/10W	
R685	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R686	ERA6YED303V	Metal Film, 30kΩ 1/10W	
R687	ERA6YED103V	Metal Film, 10kΩ 1/10W	
R688	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R691	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R692	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R693	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R696	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R699	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R702	ERJ6GEYJ1R0V	Chip, 1Ω 1/10W	
R703	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R704	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R706	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R711	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R712	ERJ6RED274V	Metal Film, 270kΩ 1/10W	
R716	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R717	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R718	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R720	ERJ3GEYJ471V	Chip, 470Ω 1/16W	
R727	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R730	ERJ6GEYJ680	Chip, 68Ω 1/10W	
R741	ERJ6GEYJ1R0V	Chip, 1Ω 1/10W	
R742	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R744	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R750	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R751	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R753	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R758	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R760	ERJ3GEYJ152V	Chip, 1.5kΩ 1/16W	
R761	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R762	ERJ3GEYJ152V	Chip, 1.5kΩ 1/16W	
R763	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R764	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R765	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R766	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R767	ERJ6GEY0R00V	Chip, 0Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R788	ERJ3RED274V	Metal Film, 270kΩ 1/16W	
R789	ERJ3RBD332V	Metal Glaze, 3.3kΩ 1/16W	
R790	ERJ3RBD392V	Metal Glaze, 3.9kΩ 1/16W	
R792	ERJ3RBD223V	Metal Glaze, 22kΩ 1/16W	
R793	ERJ6RBD393V	Metal Film, 39kΩ 1/10W	
R794	YER816R4702D	Metal Glaze, 47kΩ 1/16W	
R795	YER816R4702D	Metal Glaze, 47kΩ 1/16W	
R796	D1BB15030001	Chip, 150kΩ 1/16W	
R797	ERJ3RBD104V	Metal Glaze, 100kΩ 1/16W	
R798	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R799	ERJ3RBD223V	Metal Glaze, 22kΩ 1/16W	
R801	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R807	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R809	ERJ3GEYJ684V	Chip, 680kΩ 1/16W	
R810	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R811	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R819	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R820	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R823	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R825	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R826	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R827	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R828	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R830	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R833	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R834	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R836	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R840	YER816R4702D	Metal Glaze, 47kΩ 1/16W	
R841	ERJ3GEYJ471V	Chip, 470Ω 1/16W	
R843	ERJ3RED274V	Metal Film, 270kΩ 1/16W	
R846	ERJ6GEYJ152	Chip, 1.5kΩ 1/10W	
R854	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R855	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R861	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R863	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R864	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R865	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R868	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R873	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R882	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R889	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R895	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
CONNECTORs			
CN501	YEAE012763	Connector, 14P	
CN600	K1MN10B00062	Connector, 10P	
CN602	YEAEBM07BSRS	Connector, 7P	
CN701	K1FA116B0023	Connector, 10P+6P	
CN702	K1FA112B0017	Connector, 12P	
CN703	K1FA120B0009	Connector, 20P	
CN704	K1FA108B0011	Connector, 8P	
CN801	K1MN20A00020	Connector, 20P	
CN901	K1MN12B00131	Connector, 12P	
CN902	K1MN12B00131	Connector, 12P	
COILs			
L1	J0JCC0000030	Coil	
L143	YELT03N220JT	Coil	
L144	YELTBLM2A102	Coil	
L151	J0JCC0000030	Coil	
L191	YELTBLM21A10	Coil	
L271	J0JCC0000053	Coil	
L272	J0JCC0000053	Coil	
L273	J0JCC0000053	Coil	
L274	YELTBLM2B601	Coil	
L275	J0JCC0000053	Coil	
L276	G1C330K00022	Coil	
L601	YELTBLM21A10	Coil	
L602	YELTBLM21A10	Coil	
L603	YELTBLM21A10	Coil	
L604	YELTBLM21A10	Coil	

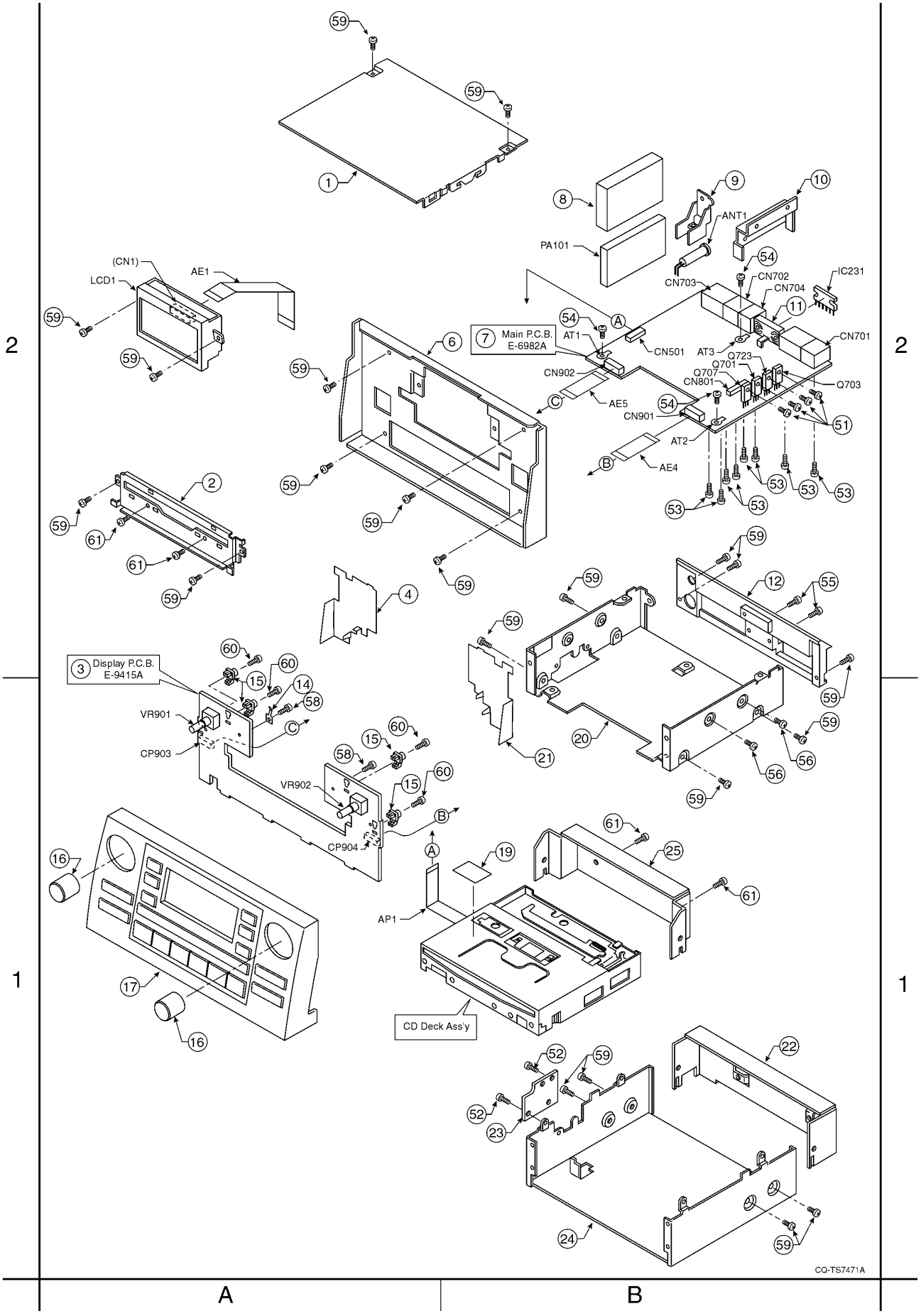
Ref. No.	Part No.	Part Name & Description	Remarks
L640	YELTBLM2B222	Coil	
L701	G0A111J00003	Coil	
L751	YELTBLM32A06	Coil	
L752	YELTBLM21A10	Coil	
L801	YELT03N100KT	Coil	
L803	J0JCC0000030	Coil	
L804	J0JCC0000030	Coil	
L805	J0JCC0000030	Coil	
L806	J0JCC0000030	Coil	
L841	YELT03N100KT	Coil	
R208	YELTBLM2B601	Coil	
CRYSTALs			
XL140	YEXL49U0433T	Crystal Oscillator	
XL271	H0D168500001	Crystal Oscillator	
XL601	H0D123500002	Crystal Oscillator	
XL801	H0A327200080	Crystal Oscillator	
XL802	H0D100500005	Crystal Oscillator	
NETWORK RESISTORs			
R103	D1H84724A024	Network Resistor	
R273	D1H410320002	Network Resistor	
R277	D1H81024A024	Network Resistor	
R506	D1H856140002	Network Resistor	
R507	D1H83324A024	Network Resistor	
R601	D1H82224A024	Network Resistor	
R603	D1H84724A024	Network Resistor	
R608	D1H422220001	Network Resistor	
R609	D1H82224A024	Network Resistor	
R612	D1H82224A024	Network Resistor	
R613	D1H81024A024	Network Resistor	
R614	D1H81024A024	Network Resistor	
R616	D1H81024A024	Network Resistor	
R617	D1H410220001	Network Resistor	
R624	D1H81024A024	Network Resistor	
R626	D1H81024A024	Network Resistor	
R627	D1H81024A024	Network Resistor	
R629	D1H410220001	Network Resistor	
R632	D1H81024A024	Network Resistor	
R802	D1H81024A024	Network Resistor	
R816	D1H81024A024	Network Resistor	
R821	D1H81024A024	Network Resistor	
R822	D1H84724A024	Network Resistor	
R835	D1H410220001	Network Resistor	
R851	EXBV8V102JV	Network Resistor	
R856	D1H81024A024	Network Resistor	
R857	D1H847340001	Network Resistor	
R867	D1H81024A024	Network Resistor	
R874	D1H410220001	Network Resistor	
R883	D1H81024A024	Network Resistor	
R888	D1H410220001	Network Resistor	
R890	D1H410220001	Network Resistor	
R892	D1H410220001	Network Resistor	
R899	D1H410220001	Network Resistor	
FILTERs			
Z53	J0LM00000001	Noise Filter	
ZL655	YECCL51R206T	EMI Filter	
ZL656	YECCL51R206T	EMI Filter	
[E9415A] Display Block			
DIODEs			
D900	B3ABB0000140	Diode	
D903	B3ABB0000140	Diode	
D905	B3ABB0000140	Diode	
D906	B3ABB0000140	Diode	
D908	B3ABB0000140	Diode	
D910	B3ABB0000140	Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D913	B3ABB0000140	Diode	
D915	B3ABB0000140	Diode	
D916	B3ABB0000140	Diode	
D918	B3ABB0000140	Diode	
D920	B3ABB0000140	Diode	
D921	B3ABB0000140	Diode	
D922	B3ABB0000140	Diode	
D925	B3ABB0000140	Diode	
D931	B3ABB0000140	Diode	
D932	B3ABB0000140	Diode	
D933	B3ABB0000140	Diode	
D936	B3ABB0000140	Diode	
D938	B3ABB0000140	Diode	
D940	B3ABB0000140	Diode	
D941	B3ABB0000140	Diode	
D942	B3ABB0000140	Diode	
D945	B3ABB0000140	Diode	
D946	B3ABB0000140	Diode	
D948	B3ABB0000140	Diode	
D951	B3ABB0000140	Diode	
D952	B3ABB0000140	Diode	
D953	B3ABB0000140	Diode	
D961	B3ABB0000140	Diode	
D962	B3ABB0000140	Diode	
D970	B3ABB0000140	Diode	
D971	B3ABB0000140	Diode	
D991	MA8056LMHTX	Diode	
D992	MA8056LMHTX	Diode	
D993	MA8056LMHTX	Diode	
D994	MA8056LMHTX	Diode	
D995	MA8056LMHTX	Diode	
D996	MA8056LMHTX	Diode	
D997	MA8056LMHTX	Diode	
D998	MA8056LMHTX	Diode	
D999	MA8056LMHTX	Diode	
CAPACITORs			
C901	F1J1H221A665	Ceramic, 220PF 50WV	
C902	F1J1H221A665	Ceramic, 220PF 50WV	
C903	F1J1H221A665	Ceramic, 220PF 50WV	
C904	F1J1H221A665	Ceramic, 220PF 50WV	
C951	F1J1H103A513	Ceramic, 0.01µF 50WV	
C953	F1J1H103A513	Ceramic, 0.01µF 50WV	
C961	F1J1H101A667	Ceramic, 100PF 50WV	
C990	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C991	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C992	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C993	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C994	YECUS1H103ZF	Ceramic, 0.01µF 50WV	
C995	F1J1H221A665	Ceramic, 220PF 50WV	
C996	F1J1H221A665	Ceramic, 220PF 50WV	
C997	F1J1H221A665	Ceramic, 220PF 50WV	
C998	F1J1H221A665	Ceramic, 220PF 50WV	
C999	F1J1H221A665	Ceramic, 220PF 50WV	
RESISTORs			
R900	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R903	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R906	ERJ6GEYJ391	Chip, 390Ω 1/10W	
R910	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R918	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R920	ERJ6GEYJ391	Chip, 390Ω 1/10W	
R921	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R931	ERJ6GEYJ391	Chip, 390Ω 1/10W	
R932	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R933	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R940	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R941	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R951	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R974	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R975	ERJ6GEYJ821	Chip, 820Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R990	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R991	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R992	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R993	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
CONNECTORs			
CP903	K1MN12A00071	Connector, 12P	
CP904	K1MN12A00071	Connector, 12P	
COILs			
L991	YELTBLM21A10	Coil	
L992	YELTBLM21A10	Coil	
L993	YELTBLM21A10	Coil	
L994	YELTBLM21A10	Coil	
L995	YELTBLM21A10	Coil	
L996	YELTBLM21A10	Coil	
L997	YELTBLM21A10	Coil	
L998	YELTBLM21A10	Coil	
L999	YELTBLM21A10	Coil	
SWITCHes			
SW900	EVQ23504M	Push Switch	
SW903	EVQ23504M	Push Switch	
SW910	EVQ23504M	Push Switch	
SW913	EVQ23504M	Push Switch	
SW920	EVQ23504M	Push Switch	
SW921	EVQ23504M	Push Switch	
SW922	EVQ23504M	Push Switch	
SW930	EVQ23504M	Push Switch	
SW931	EVQ23504M	Push Switch	
SW932	EVQ23504M	Push Switch	
SW933	EVQ23504M	Push Switch	
SW940	EVQ23504M	Push Switch	
SW941	EVQ23504M	Push Switch	
SW942	EVQ23504M	Push Switch	
SW948	EVQ23504M	Push Switch	
SW951	EVQ23504M	Push Switch	
SW953	EVQ23504M	Push Switch	
VR901	K9AA015B0028	Switch	
VR902	K9AA009B0009	Switch	
LCD			
LCD1	L5DZAHE00004	INDICATOR PANEL LCD	
Mechanical Parts			
MISCELLANEOUS			
ANT1	YEAA10091	Antenna Receptacle	
AE1	K9ZZ00001062	Flat Cable, 20P	
AE4	K9ZZ00001158	Flat Cable, 12P	
AE5	K9ZZ00001166	Flat Cable, 12P	
AP1	YEAP2880	Flat Cable, 14P	
AT1	YEAT03346A	Terminal	
AT2	YEAT03346A	Terminal	
AT3	YEAT03346A	Terminal	
1	YEFA031909	Upper Cover	
2	YGFX0216260	Bracket, Deck Front-1	
3	YEP0PT9415A0	Display PCB w/Component	RTL
4	YEFV012454	Insulator, Display Block (L)	
6	YGFA07663	Front Plate	
7	YEP0PT6982A0	Main PCB w/Component	RTL
8	YEFV03508	Magnetic Shield, PA101	
9	YEFX0216100	Bracket, ANT1	
10	YEFX0216173	Bracket, Q701,703,707,723	
11	YEFX0215142	Bracket, IC231	
12	YEFF011122	Heat Sink	
14	YEFX0213978	Fix Earth	

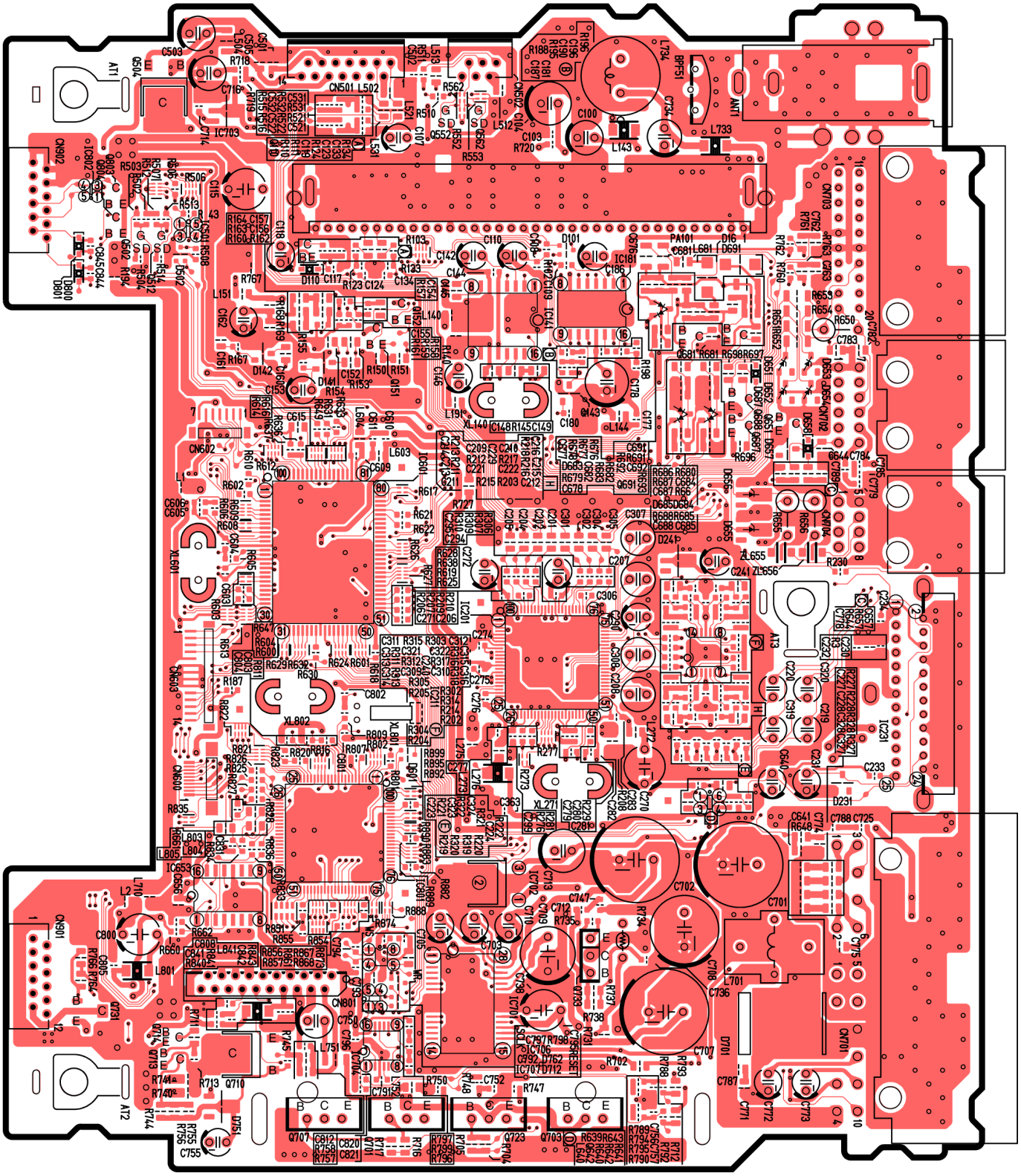
Ref. No.	Part No.	Part Name & Description	Remarks
15	YGFK061119	Holder, Escutcheon	
16	YGFE02495	Knob, Vol, Tuner	
17	YGFC028179	Escutcheon Ass´y	
19	YEFM031105	Laser Seal	
20	YEFA012083A	Chassis, Main Block	
21	YEFV012455	Insulator, Display Block (R)	
22	YEFX0216099	Bracket, Rear	
23	YEFX9993107A	Bracket, Left Side	
24	YEFA012084A	Bottom Cover	
25	YGFX0216261	Bracket, Deck Rear	
51	YEJS05035	Screw	
52	YEJS06303	Screw	
53	YEJT01103	Screw	
54	YEJT03015	Screw	
55	YEJT03289	Tapping Screw	
56	YEJT03312	Screw	
58	XTB2+6GFX	Screw, M2x6	
59	XTB3+6FFX	Screw, M3x6	
60	YEJT03279	Tapping Screw	
61	YEJT03324	Screw	

9 EXPLODED VIEW (Unit)



10 WIRING DIAGRAM

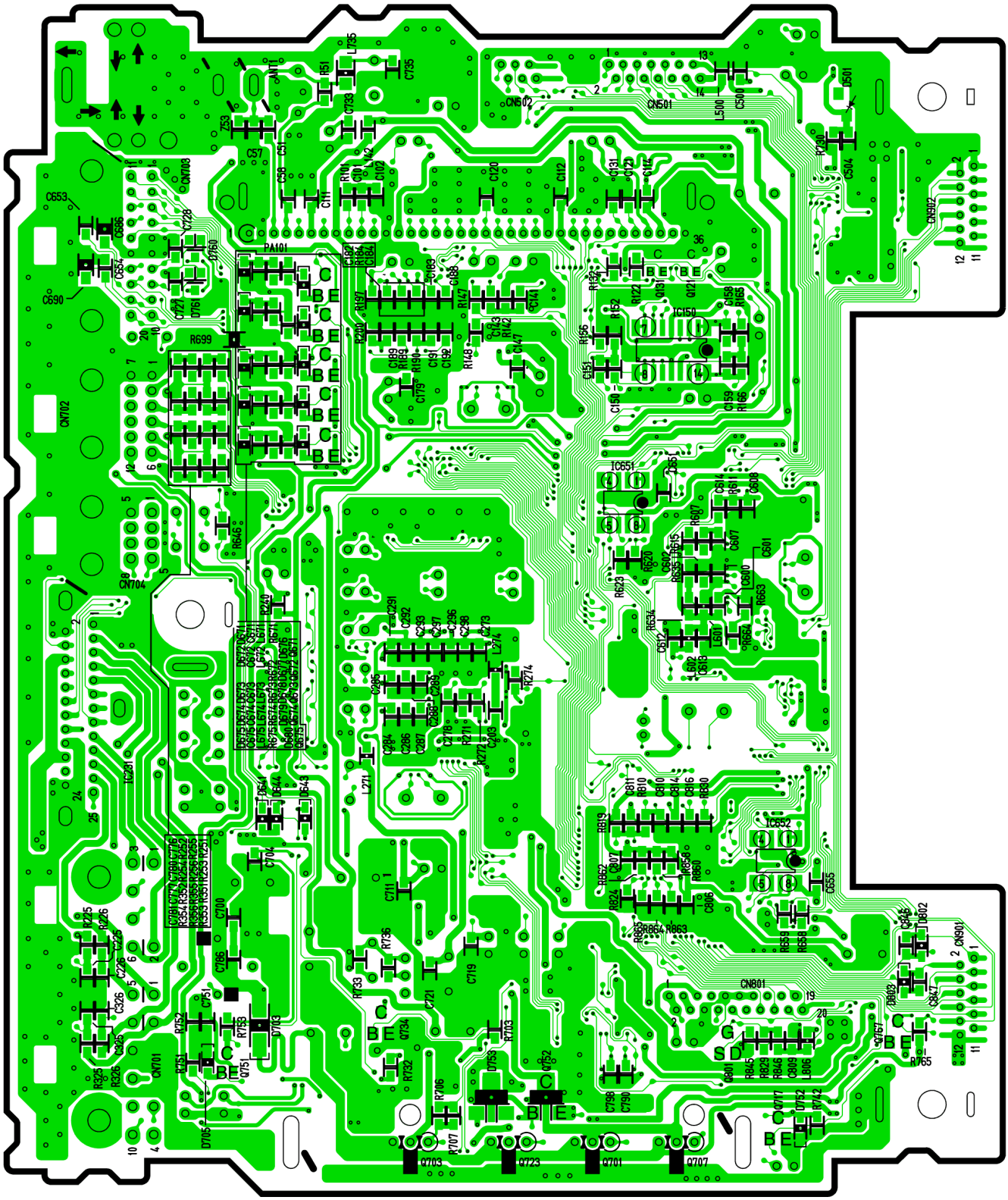
10.1. Main Block (Top View)



[E-6982A][Top View]

CQ-TS7471A MAIN P.C.B

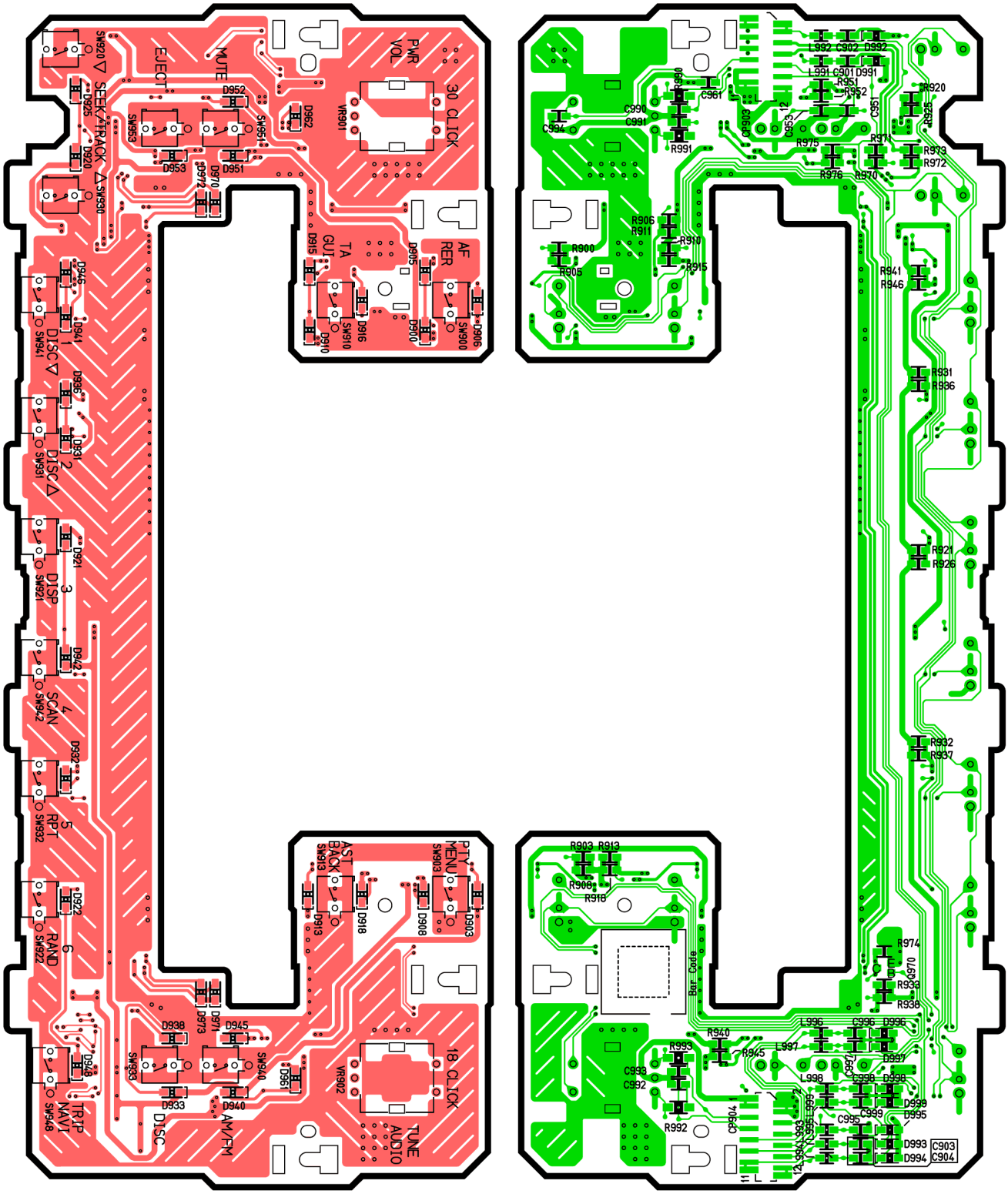
10.2. Main Block (Bottom View)



[E-6982A][Bottom View]

CQ-TS7471A MAIN P.C.B

10.3. Display Block



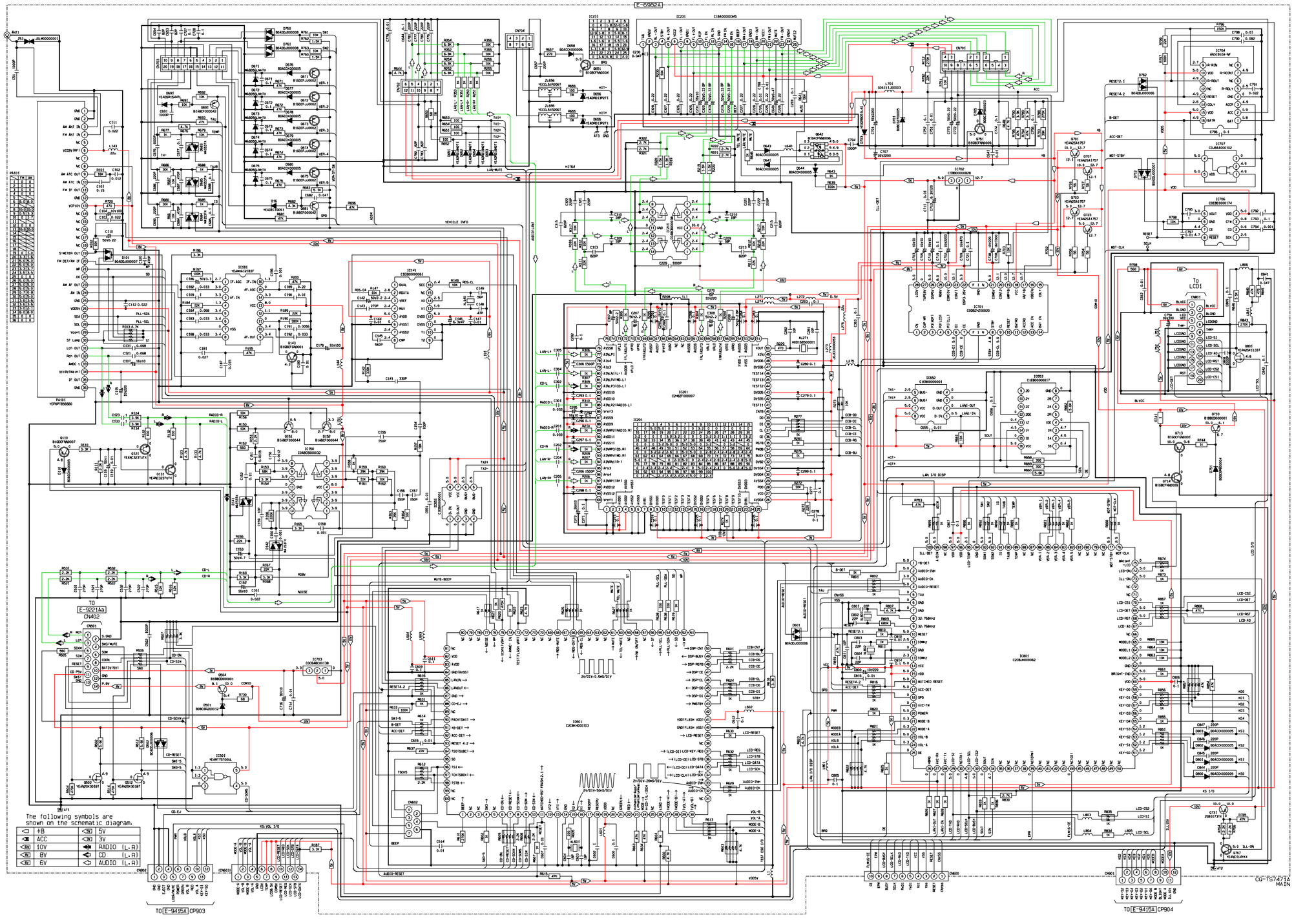
[E-9415A][Top View]

[E-9415A][Bottom View]

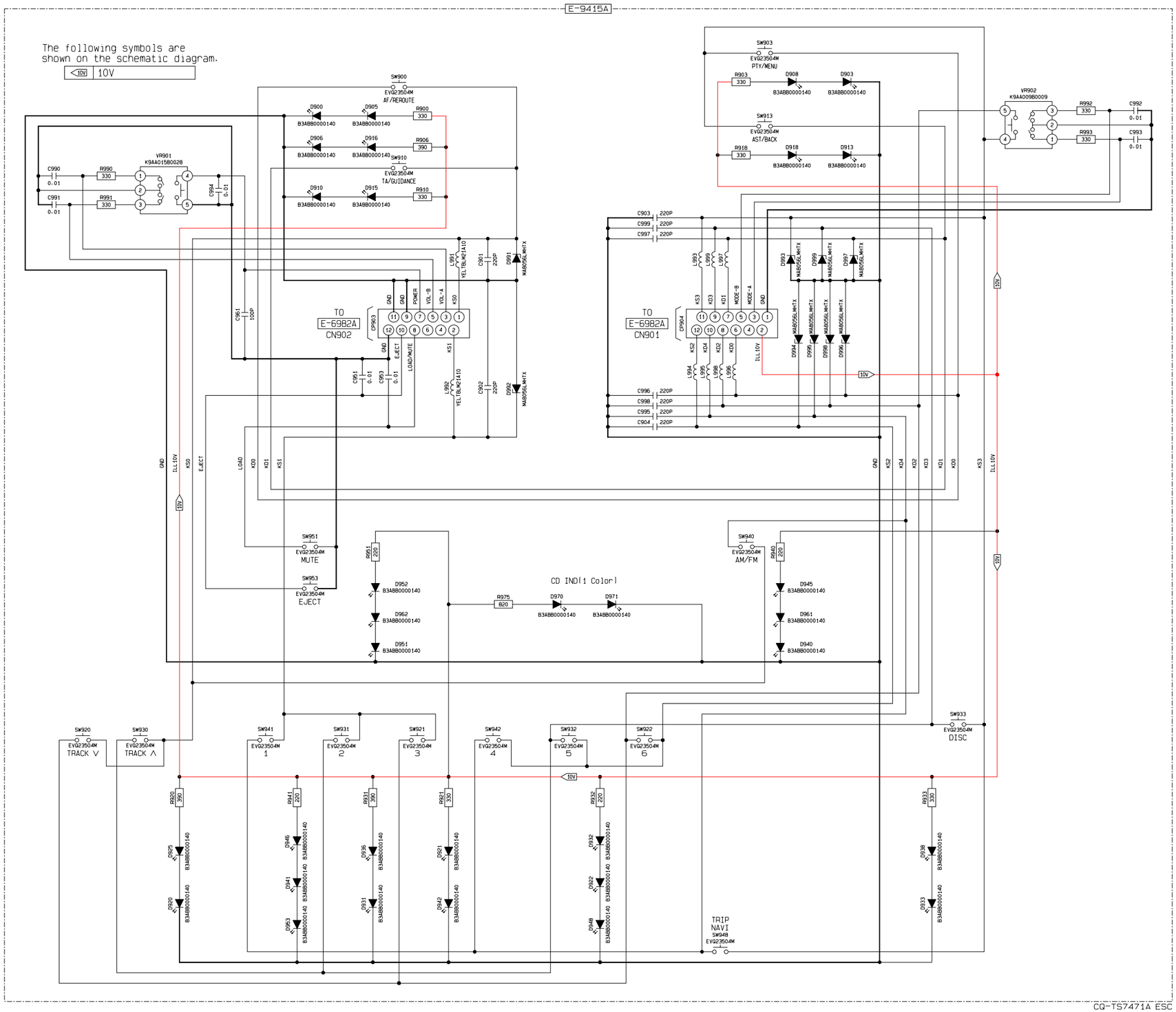
CQ-TS7471A Display P.C.B

11 SCHEMATIC DIAGRAM

11.1. Main Block



11.2. Display Block



12 MEMO

PARTS AVAILABILITY

HOW TO ORDER REPLACEMENT PARTS

Replacement parts can be ordered from either a Parts Depot or directly from Toyota Motor Corporation. When ordering, please refer to the Replacement Parts List in this service manual to insure that you receive the correct part.
Please enter not only part number(s) but also unit number of TOYOTA car radio / car stereo in a REMARKS columun of the order sheet.

DISPONIBILIDAD DE PARTES DE REPUESTO

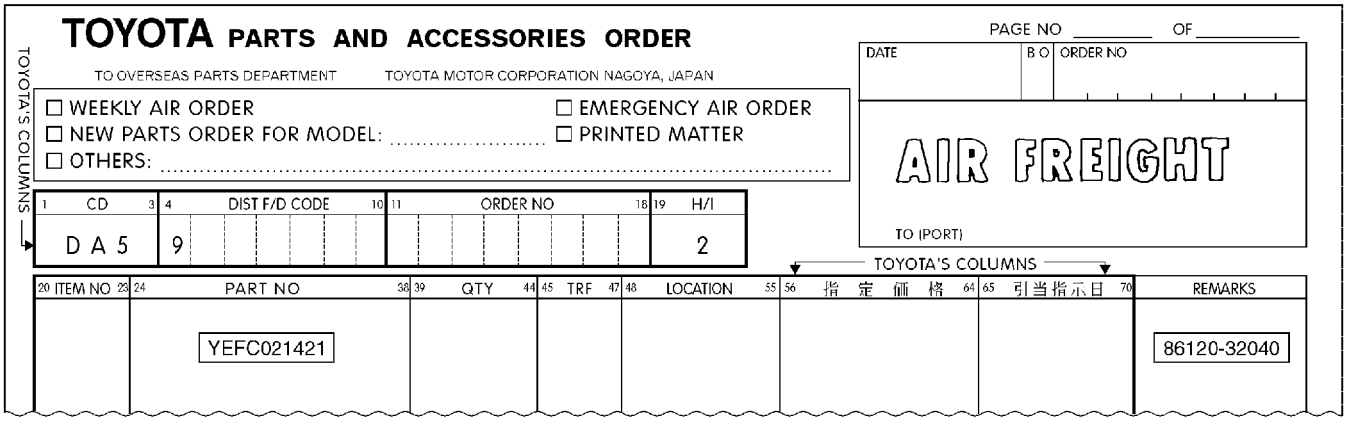
METODO DE HACER PEDIDOS DE PARTES DEREPUESTO

Partes de repuesto pueden pedirse tanto a un Depósito de Partes de Repuesto (Parts Depot) como directamente a la Toyota Motor Corporation. En hacer los pedidos, refiérase a la Lista de Partes de Repuesto que se encuentra en este manual de servicio a fin de asegurarse de su recibo de las partes correctas.
Favor llenar la columna OBSERVACIONES de la hoja de pedido no solamente con el (los) número(s) de part(s) sino también con el número de la unidad de radio/estéreo de carro, TOYOTA.

DISPONIBILITE DE PIECES

MOYEN DE COMMANDER DES PIECES DE RECHANGE.

Les pièces de rechange seront commandées au Depôt de Pièces (Parts Depot) ou directement à Toyota Motor Corporation. Lors d'une commande, veuillez consulter le Liste de pièces de rechange dans ce manuel d'atelier pour être sûr que vous recevez la pièce extacte. Veuillez écrire non seulement le(s) numéro(s) de pièce mais aussi le numéro d'unité de TOYOTA auto-radio/auto-stéréo dans la colonne REMARQUES du bullentin de commande.



U.S.A. — PANASONIC PARTS DEPOT

EASTERN REGIONAL PARTS DEPOT
1225 NORTHBROOK PARKWAY SUITE 2-400
SUWANEE, GA 30174
PHONE : (404) 388-6800

WESTERN REGIONAL PARTS DEPOT
20421 84TH AVE. SOUTH
KENT, WA 98032
PHONE : (206)-395-7343

CANADA — PANASONIC PARTS DEPOT

TRONTO
PANASONIC CANADA INC.
5770 AMBLER DRIVE, MISSISSAUGA, ONTARIO L4W 2T3
PHONE : (905)-624-5010

EUROPE — PANASONIC PARTS DEPOT

HAMBURG
PANASONIC SERVICE DEUTSCHLAND G.M.B.H.
2000 HAMBURG 28 AUSSCHLAGER BILLDEICH 32 F.R. GERMANY
PHONE : (040)-789511

SCANDINAVIA — PANASONIC PARTS DEPOT

STOCKHOLM
PANASONIC SERVICE SCANDINAVIAN A.B.
INSTRUMENTVAGEN 29-31, BOX 43047,
100 72 STOCKHOLM, SWEDEN
PHONE : 08-190180

AUSTRALIA — PANASONIC PARTS DEPOT

SYDNEY
PANASONIC AUSTRALIA PTY, LTD
1 GARIGAL ROAD, BELROSE, N.S.W. 2085
PHONE : (02)-986-7640

MELBOURNE
PANASONIC AUSTRALIA PTY, LTD
1 CARIBBEAN DRIVE, SCORESBY VIC. 3179
PHONE : (03)-213-8888

ADELAIDE
PANASONIC AUSTRALIA PTY, LTD
125 PORT ROAD, HINDMARSH S.A. 5007
PHONE : (08)-346-3999

BRISBANE
PANASONIC AUSTRALIA PTY, LTD
494 NUDGEE ROAD, HENDRA QUEENSLAND. 4012
PHONE : (07)-268-6455

PERTH
PANASONIC AUSTRALIA PTY, LTD
37 KEWDALE ROAD, WELSHPOOL, W.A. 6106
PHONE : (09)-451-7211

OTHER COUNTRIES

Please order from the Overseas Parts Department, Toyota Motor Corporation, using the normal Parts & Accessories Order From for ordering Automobile parts.

OTROS PAISES

Favor hacer pedidos al Departamento Partes al Ultramar (Overseas parts Department), Toyota Motor Corporation utilizando el formulario normal de pedido de partes y accesorios que se usa para pedir las partes de repuestos de automóviles.

AUTRES PAYS

Veuillez commandes au département de pièces d'outre-mer (Overseas Parts Department), Toyota Motor Corporation, en vous servant du Bulletin de Commande Pièces & Accessoires pour des commandes de pièces d'automobile.

TOYOTA MOTOR CORPORATION

Printed in Japan (K)
2004. 5.
(Recycled Paper)

YGFD15269

'05. 5. 12

CONTENTS

1 FEATUERS

- NCD-9 CD Deck.
- 12cm CD only.
- The specifications are based on the main unit.

2 LASER PRODUCTS

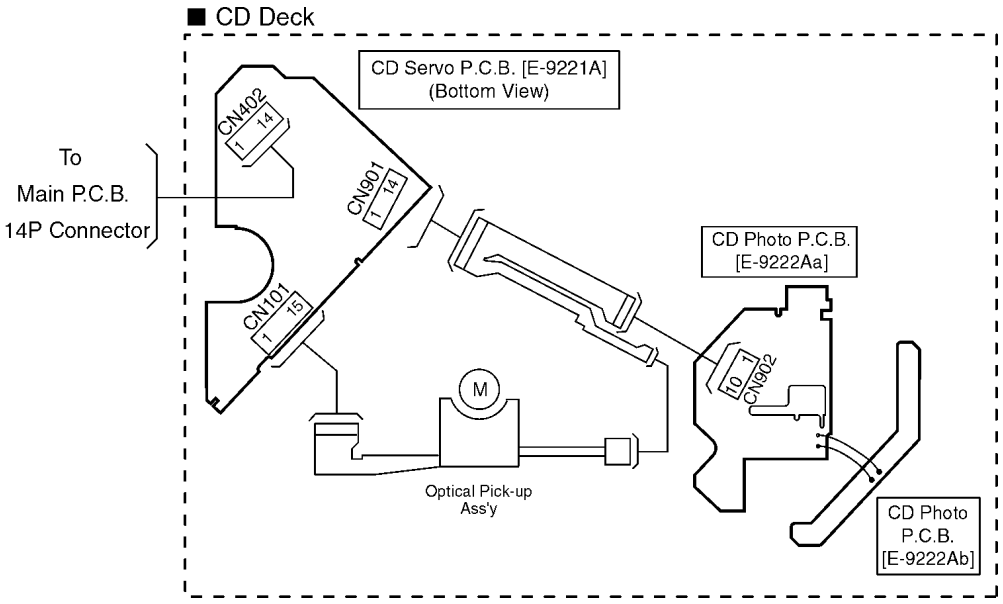
Do not take apart this unit or attempt to make any changes yourself.
This unit is very intricate that uses a laser pickup to retrieve information from the suface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

Laser products :

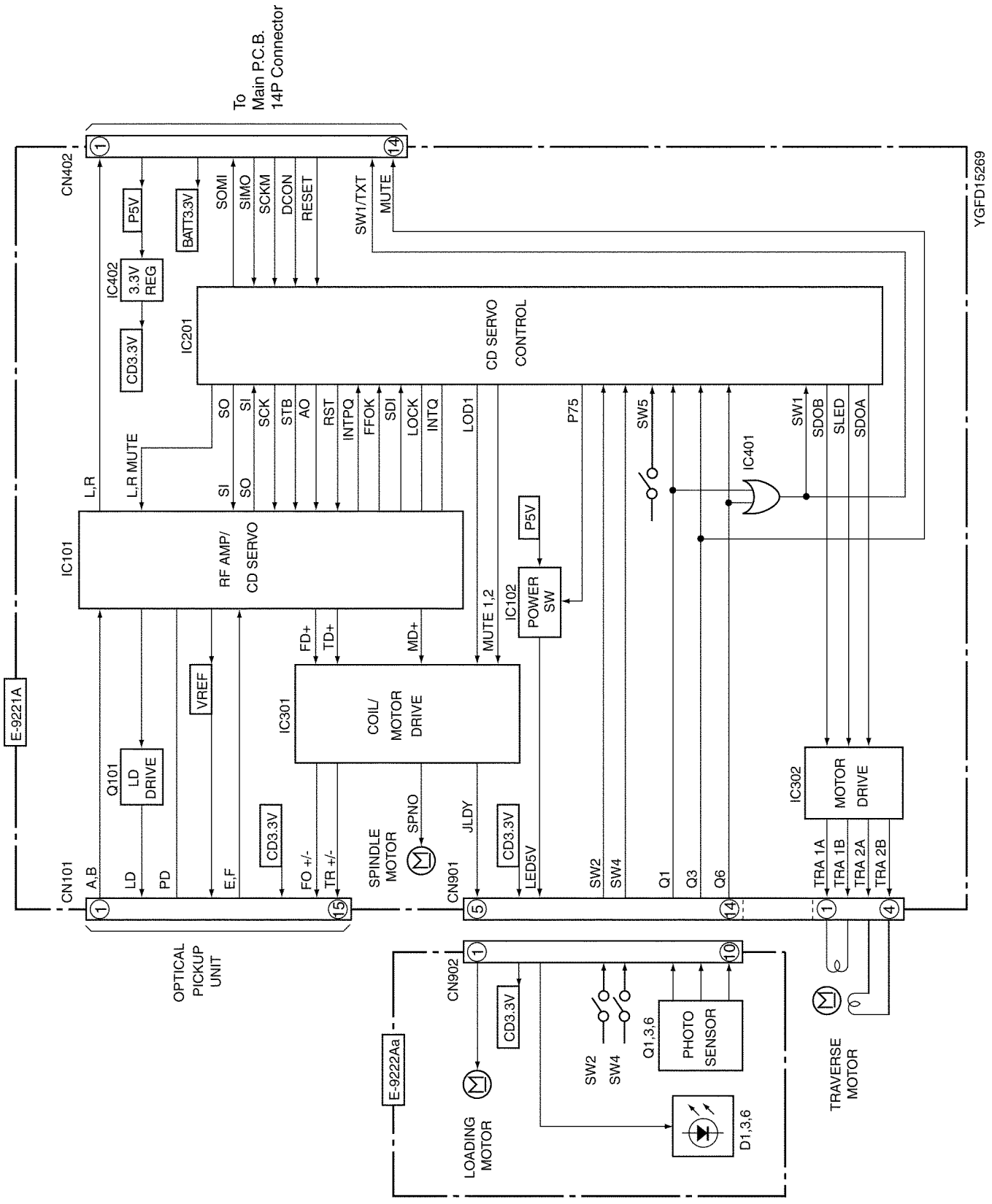
Wave length	780nm
Laser power	No hazardous radiation is emitted with safety protection.

Caution
This product utillzes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

3 WIRING CONNECTION (CD Deck)



4 BLOCK DIAGRAM (CD Deck)



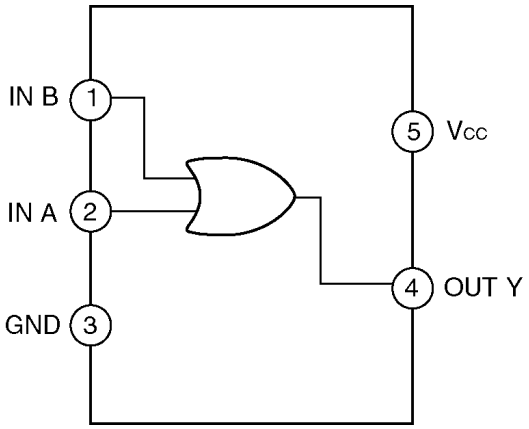
5 TERMINALS DESCRIPTION (CD Deck)

IC201 : C2BBFD000461

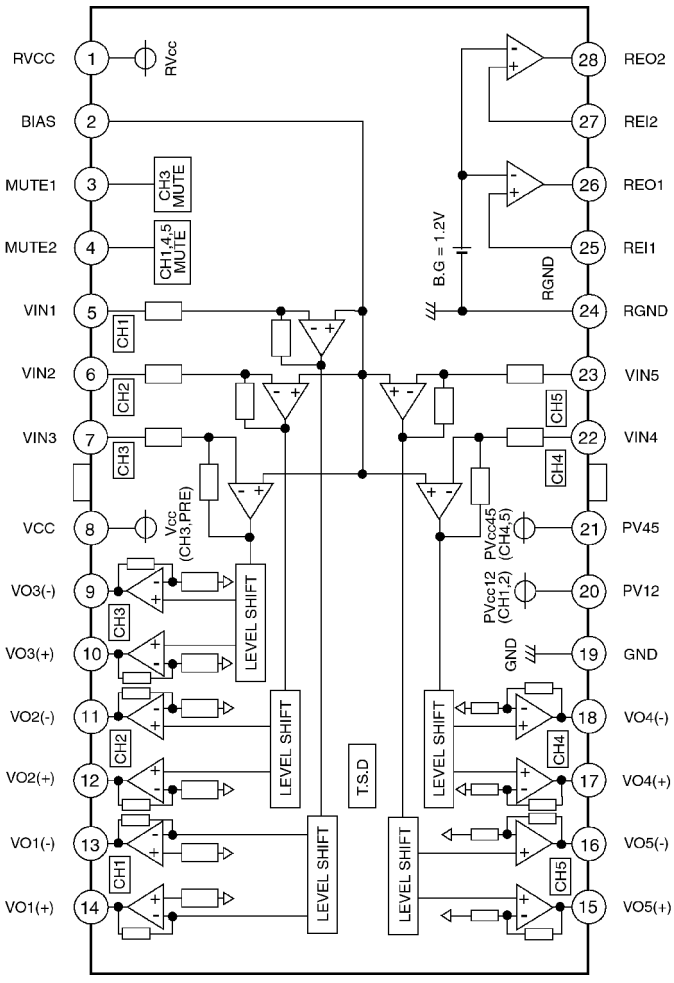
Pin No.	Port	Description	I/O	(V)
1	P50 RFOK	D63712 RFOK Signal	I	3.4
2	P51/RST	D63712 /RST Signal	O	3.4
3	P52 A0	D63712 A0 Signal	O	2.9
4	P53/STB	D63712 /STB Signal	O	3.3
5	P54 XEN	D63712 /XTALEN Signal	O	0
6	P55 8/12cm	0:12cm 1:8cm	I	3.4
7	P56 HOLD	0:Wound vibration(Defect Hold) 1: Normal (No Defect Hold)	I	3.4
8	P57(NC)	-	-	-
9	VSS0	-	-	-
10	VDD0	-	-	-
11	SI31	Pana Bus SI	I	3.4
12	SO31	Pana Bus SO	O	1.8
13	SCK31	Pana Bus SCK	I	3.4
14	SI SI30	D63712 SI	I	0
15	SO SO30	D63712 SO	O	1.8
16	SCK/SCK30	D63712 SCK	O	3.2
17	P23 SW2	SW2	I	3.4
18	P24 SW5	SW5	I	3.4
19	P25 SW4	SW4	I	0
20	VDD1	-	-	-
21	AVSS	-	-	-
22	Q1 ANI3	SW1	I	2.6
23	Q3 ANI12	SW3	I	1.7
24	Q6ANI1	SW6	I	2.1
25	SDI ANI0	Input of thread	I	3.4
26	AVREF	-	-	-
27	AVDD	-	-	-
28	/RESET	-	-	-
29	XT2(NC)	-	-	-
30	XT1	-	-	-
31	IC/VPP	-	-	-
32	X2	-	-	-
33	X1	-	-	-
34	VSS1	-	-	-
35	INTP0	D63712 SUBQ/CD TextInt	I	0
36	INTQ INTP1	-	I	0
37	CDON INTP2	Operation mode (H: Power supply ON)	I	3.1
38	P03 RMUTE	TEST	I	0
39	P70 LMUTE	TEST	I	0
40	P71 IFR	TEST PORT(P TP40)	O	0
41	TO50 SD0A	Stepping motor drive PWM output	O	0
42	TO51 SD0B	Stepping motor drive PWM output	O	0
43	P74 SW1	SW1 level control (at CD TEXT data sent)	I/O	3.4
44	P75	H (lighting): SLEEP/DISC no L (turning off): DISC clamping	I/O	3.4
45	P40	TEST PORT(P TP45)	O	0
46	P41 MASHON	D63712 sending control	O	3.4
47	P42 LOCK	D63712 LOCK signal	I	3.4
48	P43 LOD2(NC)	-	-	-
49	P44 LOD1	Loading motor control terminal 1	O	1.9
50	P45 STB12(SLED)	Driver power supply MUTE (thread output) control	O	0
51	P46 STB6(LOAD)	Driver power supply MUTE (LOAD output) control	O	0
52	P47 STB345	Driver power supply MUTE (FO/TE output) control	O	3.4

6 IC BLOCK DIAGRAM (CD Deck)

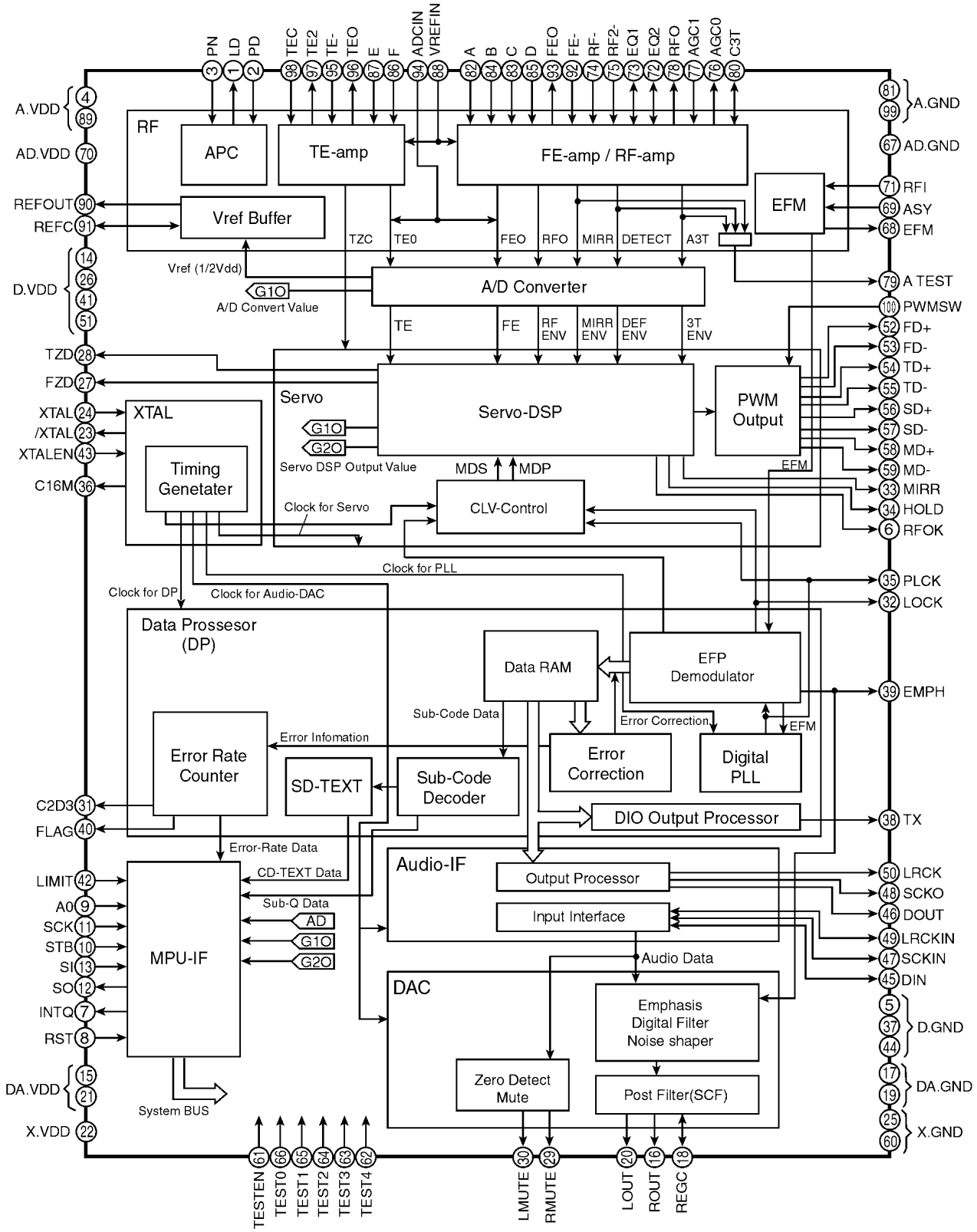
IC401 C0JBAE000087



IC301 C0GBY0000012



IC101 C1BB00000806



7 REPLACEMENT PARTS LIST

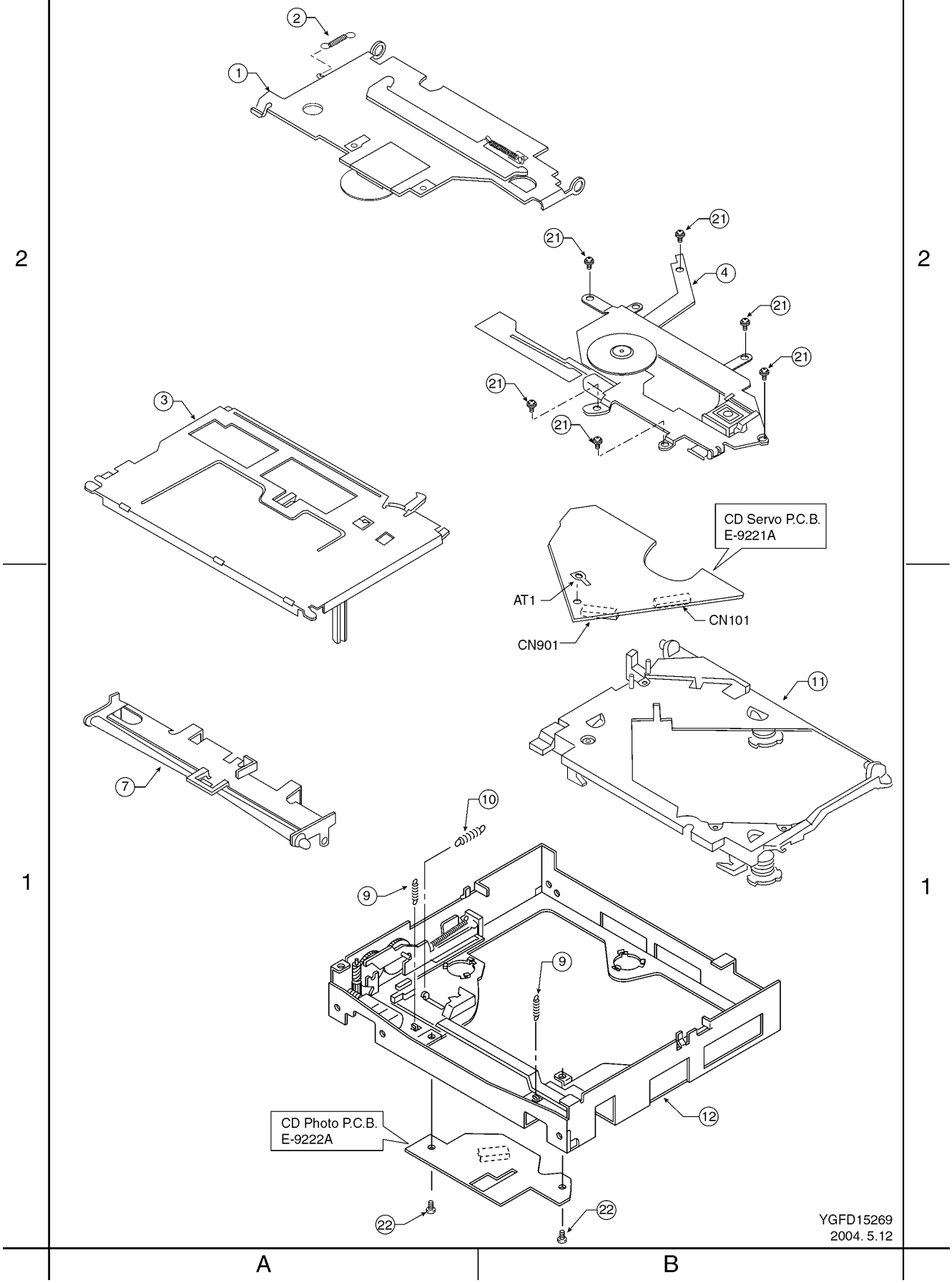
Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer´s specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
[E9221A] CD Servo Block			
IC´s and TRANSISTORs			
IC101	C1BB00000806	IC	
IC102	B1GKGBNN0001	IC	
IC201	C2BBFD000461	IC	
IC301	C0GBY0000012	IC	
IC302	YEAMD16808G	IC	
IC401	C0JBAE000087	IC	
IC402	YEAMMC3326D3	IC	
Q101	2SB766ATX	Transistor	
DIODEs			
D1	MA152WKTX	Diode	
D123	B0ACCK000005	Diode	
CAPACITORs			
C101	F1G1A104A001	Ceramic, 0.1µF 10WV	
C102	F1G1A104A001	Ceramic, 0.1µF 10WV	
C103	F3H0J1070005	Tantalum, 100µF 6.3WV	
C104	F1G1H222A401	Ceramic, 2200PF 50WV	
C105	F1G1H152A401	Ceramic, 1500PF 50WV	
C107	F1G1E1030003	Ceramic, 0.01 µF 25 WV	
C111	F1J0J1060007	Ceramic, 10 µF 6.3 WV	
C112	F1G1A104A001	Ceramic, 0.1µF 10WV	
C114	F1G1A104A001	Ceramic, 0.1µF 10WV	
C115	F1J0J1060007	Ceramic, 10 µF 6.3 WV	
C116	F1G1A104A001	Ceramic, 0.1µF 10WV	
C117	F1G1A104A001	Ceramic, 0.1µF 10WV	
C118	F1G1A104A001	Ceramic, 0.1µF 10WV	
C120	F1G1A104A001	Ceramic, 0.1µF 10WV	
C133	F1G1A104A001	Ceramic, 0.1µF 10WV	
C151	F1G1A104A001	Ceramic, 0.1µF 10WV	
C167	F1G1A104A001	Ceramic, 0.1µF 10WV	
C168	F1G1E1030003	Ceramic, 0.01 µF 25 WV	
C169	F1G1A104A001	Ceramic, 0.1µF 10WV	
C173	F1G1H470A058	Ceramic, 47PF 50WV	
C174	F1G1H2R0A101	Ceramic, 2.0PF 50WV	
C176	F1H1H272A021	Ceramic, 2700PF 50WV	
C177	YECUZ1E104ZF	Ceramic, 0.1µF 25WV	
C180	F1G1A104A001	Ceramic, 0.1µF 10WV	
C190	F1G1A104A001	Ceramic, 0.1µF 10WV	
C191	F1G1A104A001	Ceramic, 0.1µF 10WV	
C192	F1G1H330A058	Ceramic, 33PF 50WV	
C195	F1G1H330A058	Ceramic, 33PF 50WV	
C197	F1G1A104A001	Ceramic, 0.1µF 10WV	
C198	F1G1H1020006	Ceramic, 1000PF 50WV	
C201	F1H1A4740008	Ceramic, 0.47µF 10WV	
C202	F1G1A104A001	Ceramic, 0.1µF 10WV	
C218	F1G1E1030003	Ceramic, 0.01µF 25WV	
C310	F1J0J1060007	Ceramic, 10 µF 6.3 WV	
C311	F1G1A104A001	Ceramic, 0.1µF 10WV	
C312	F1G1A104A001	Ceramic, 0.1µF 10WV	
C313	F1J0J1060007	Ceramic, 10 µF 6.3 WV	
C320	F1G1E1030003	Ceramic, 0.01µF 25WV	
C321	F1G1E1030003	Ceramic, 0.01µF 25WV	
C322	F1G1E1030003	Ceramic, 0.01µF 25WV	
C323	ECEV1CA470SP	Electrolytic, 47µF 16WV	
C324	F1H1A4740008	Ceramic, 0.47µF 10WV	
C441	F2G0J1010001	Electrolytic, 100µF 6.3WV	
C442	F1G1A104A001	Ceramic, 0.1µF 10WV	
C443	F1H1A4740008	Ceramic, 0.47µF 10WV	
C444	F1G1A104A001	Ceramic, 0.1µF 10WV	
C446	F2G0J1010001	Electrolytic, 100µF 6.3WV	
C604	F1H1H4710007	Ceramic, 470PF 50WV	
C605	F1H1H4710007	Ceramic, 470PF 50WV	
C606	F1H1H4710007	Ceramic, 470PF 50WV	
C607	F1H1H4710007	Ceramic, 470PF 50WV	
RESISTORs			
R101	D0GBR00Z0001	Metal Film, 0Ω 1/16W	
R102	D0GD1R0JA028	Metal Film, 1Ω 1/16W	
R114	D0GBR00Z0001	Metal Film, 0Ω 1/16W	
R123	D0GA473JA013	Metal Film, 47kΩ 1/16W	
R141	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R142	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R143	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R144	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R145	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R146	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R152	D0GA682JA013	Metal Film, 6.8kΩ 1/16W	
R154	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R156	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R158	D0GA122JA013	Metal Film, 1.2kΩ 1/16W	
R168	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R169	D0GA393JA013	Metal Film, 39kΩ 1/16W	
R173	D0GA122JA013	Metal Film, 1.2kΩ 1/16W	
R186	D0GA333JA013	Metal Film, 33kΩ 1/16W	
R187	D0GA333JA013	Metal Film, 33kΩ 1/16W	
R199	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R201	D0GBR00Z0001	Metal Film, 0Ω 1/16W	
R204	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R205	D0GA473JA013	Metal Film, 47kΩ 1/16W	
R206	D0GA473JA013	Metal Film, 47kΩ 1/16W	
R207	D0GA332JA013	Metal Film, 3.3kΩ 1/16W	
R213	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R218	D0GA563JA013	Metal Film, 56kΩ 1/16W	
R223	D0GA563JA013	Metal Film, 56kΩ 1/16W	
R321	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R322	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R354	D0GA103JA013	Metal Film, 10kΩ 1/16W	
R411	ERJ2GEJ334X	Chip, 330kΩ 1/16W	
R423	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R431	D0YAR00J0002	Metal Film, 0Ω 1/16W	
R433	D0GA273JA013	Metal Film, 27kΩ 1/16W	
R440	D0GA102JA013	Metal Film, 1kΩ 1/16W	
R442	D0GA102JA013	Metal Film, 1kΩ 1/16W	
R604	D0GBR00Z0001	Metal Film, 0Ω 1/16W	
R607	D0GBR00Z0001	Metal Film, 0Ω 1/16W	
CONNECTORs			
CN101	K1MN15A00035	Connector, 15P	
CN402	K1MN14B00080	Connector, 14P	
CN901	K1MN14B00080	Connector, 14P	

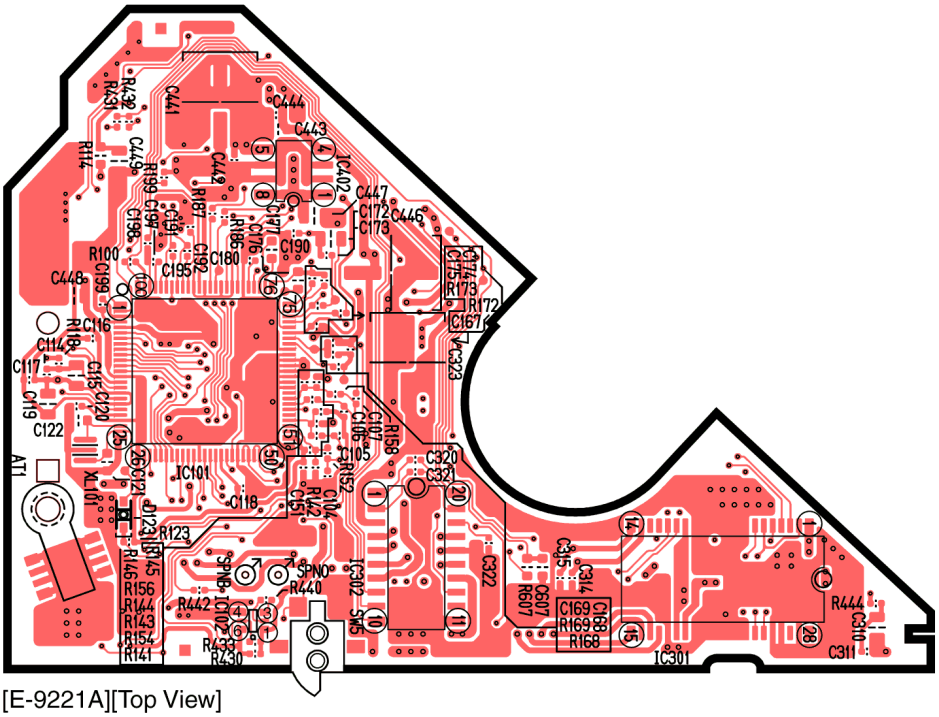
Ref. No.	Part No.	Part Name & Description	Remarks
SWITCHE			
SW5	K0L1BA000022	Switch	
CRYSTALs			
XL101	H2D169500017	Crystal	
XL201	H2D838400004	Crystal	
[E9222A] CD Photo Block			
IC´s and TRANSISTORs			
Q1	B3HB00000019	Transistor	
Q3	B3HB00000019	Transistor	
Q6	B3HB00000019	Transistor	
DIODEs			
D1	B3EB00000013	Diode	
D3	B3EB00000013	Diode	
D6	B3EB00000013	Diode	
RESISTORs			
J1	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J2	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J3	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J4	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R454	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R461	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R463	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R466	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R471	ERJ6GEYJ121	Chip, 120Ω 1/10W	
R473	ERJ6GEYJ121	Chip, 120Ω 1/10W	
R476	ERJ6GEYJ121	Chip, 120Ω 1/10W	
R482	D0GDR00Z0001	Metal Film, 0Ω 1/16W	
R483	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
CONNECTORs			
CN902	K1MN10B00102	Connector, 10P	
SWITCHEs			
SW2	K0L1BA000022	Switch	
SW4	K0L1BA000023	Switch	
Mechanical Parts			
MISCELLANEOUS			
AT1	YEATSD00405	Terminal	
1	YGP0FX5370	Clamper Arm Unit	
2	YGFX0052745	Clamper Arm Spring	
3	YGP0FX4985	Main Chassis (U) Unit	
4	YGP0FX4998	Traverse Unit	
7	YGP0FX5305	Feeder Arm Unit	
9	YGFX0052672	Suspension Spring (B)	
10	YGFX0052672	Suspension Spring (A)	
11	YGP0FX4993	Suspension Unit	
12	YGP0FX5303	Main Chassis (L) Unit	
21	YGJS02044	Screw	
22	YGJS02043	Screw, M1.4 * 2	

8 EXPLODED VIEW (CD Deck)



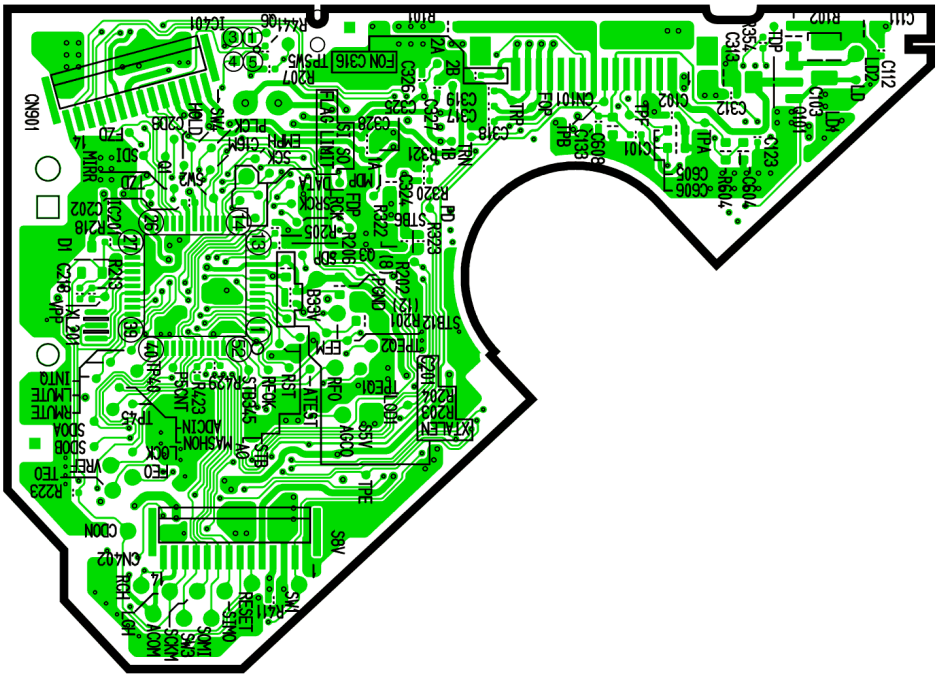
9 WIRING DIAGRAM (CD Deck)

9.1. CD Servo Block



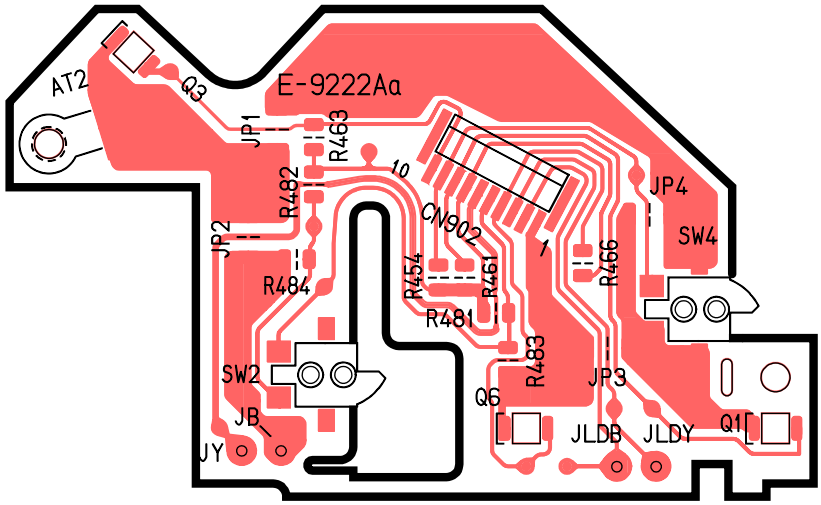
[E-9221A][Top View]

[E-9221A][Bottom View]

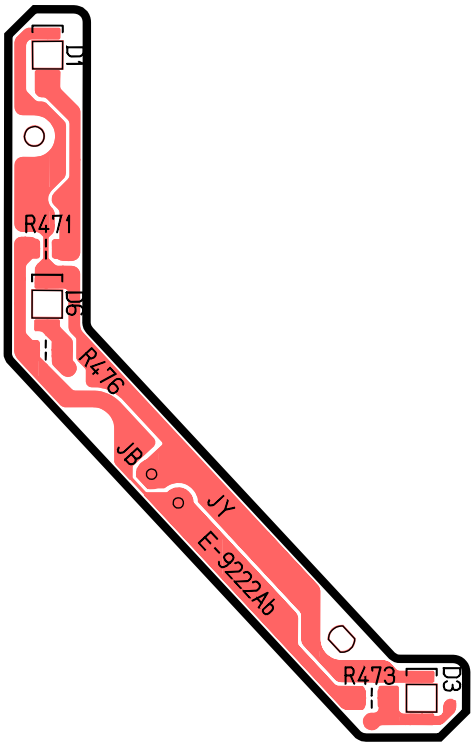


YGFD15269 CD SERVO P.C.B.

9.2. CD Photo Block



[E-9222Aa][Top View]



[E-9222Ab][Top View]

YGFD15269 CD PHOTO P.C.B.

10 SCHEMATIC DIAGRAM (CD Deck)