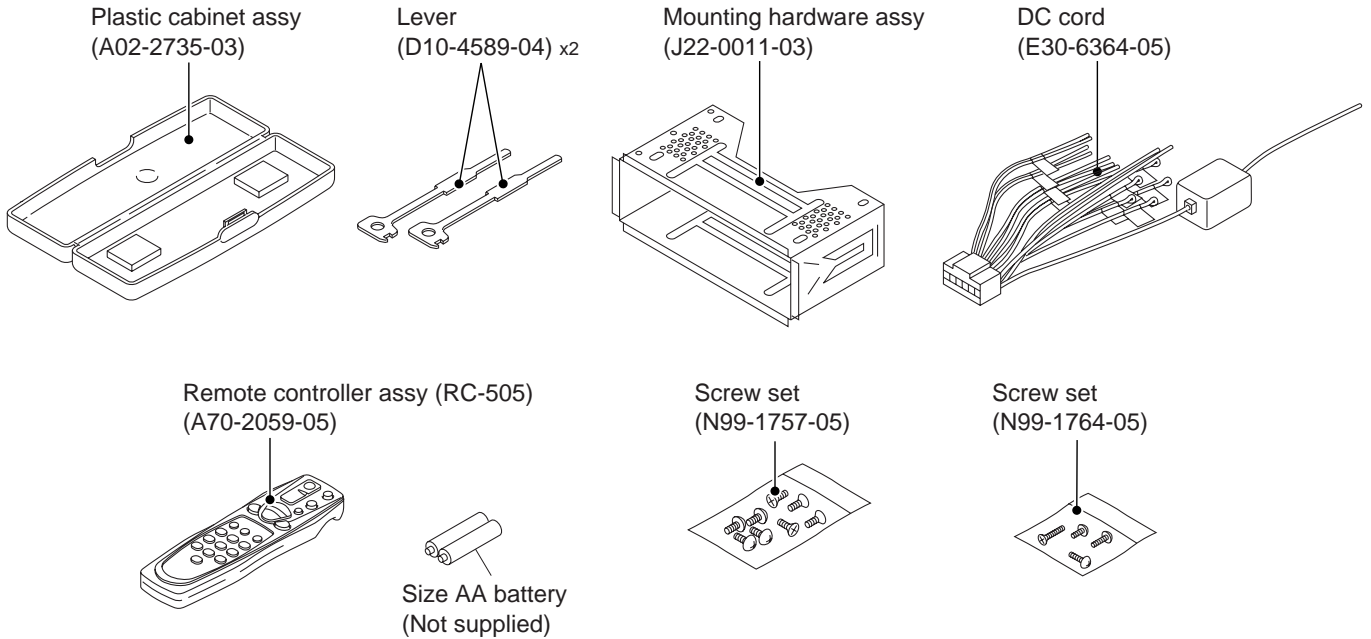
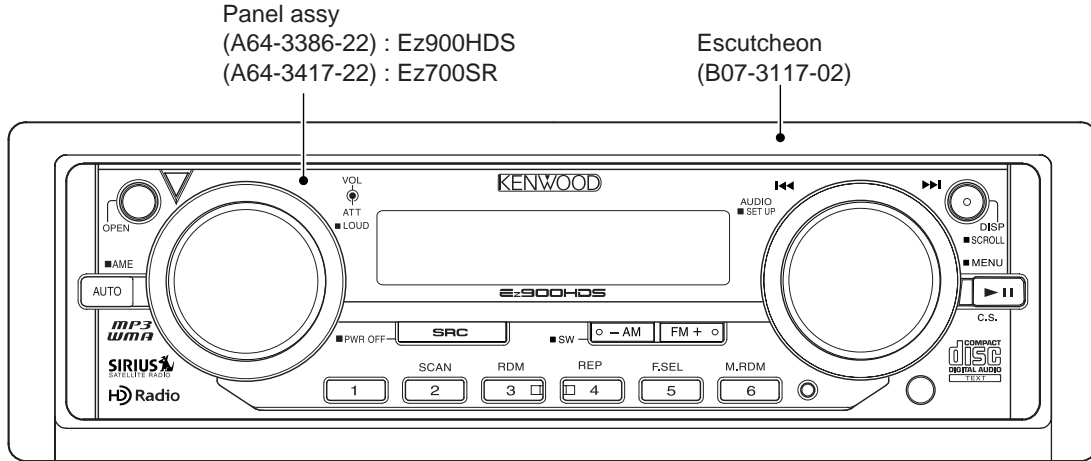


CD MECHANISM EXTENSION CORD (24P) : W05-0934-00



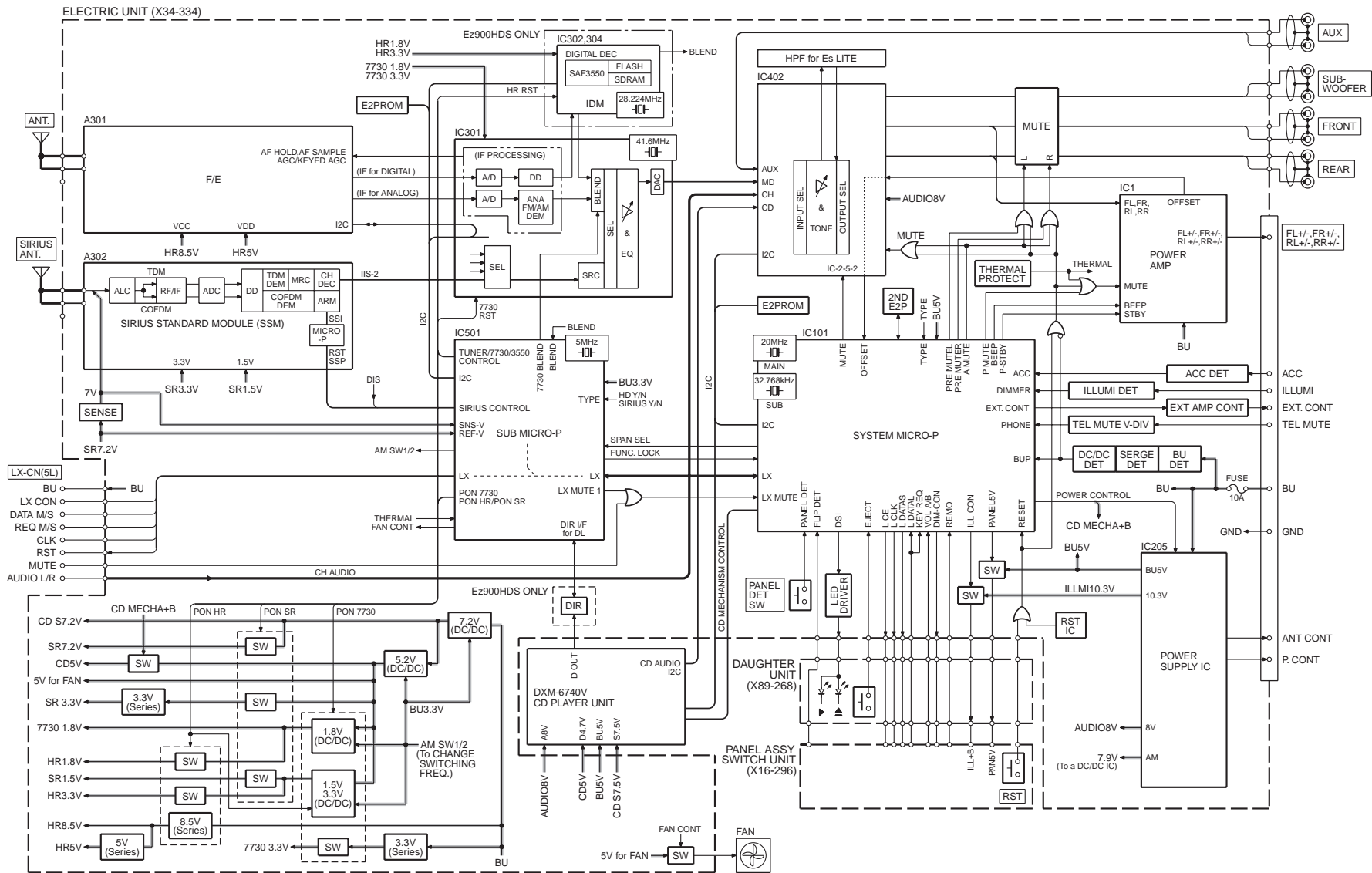
TDF PANEL INFORMATION

MODEL	TDF PANEL No.	TDF NAME
Ez700SR, Ez900HDS	Y33-2110-10	TDF-EZ900

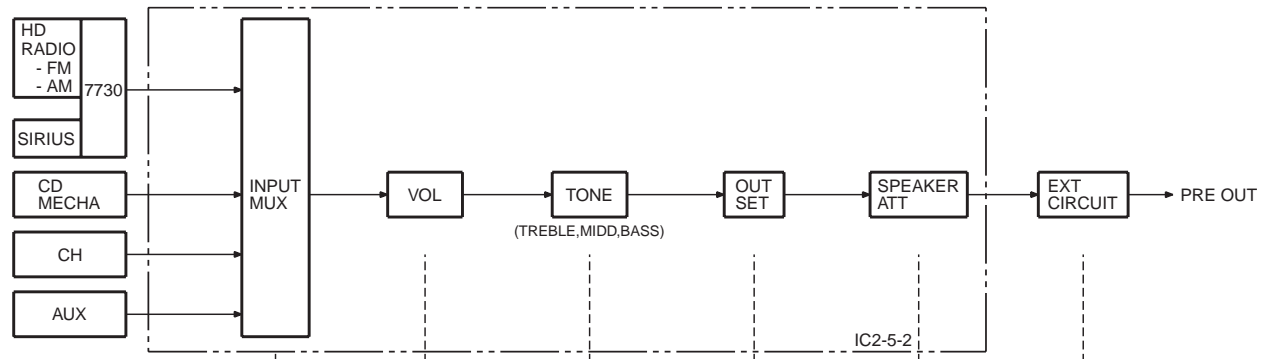


EZ700SR/EZ900HDS

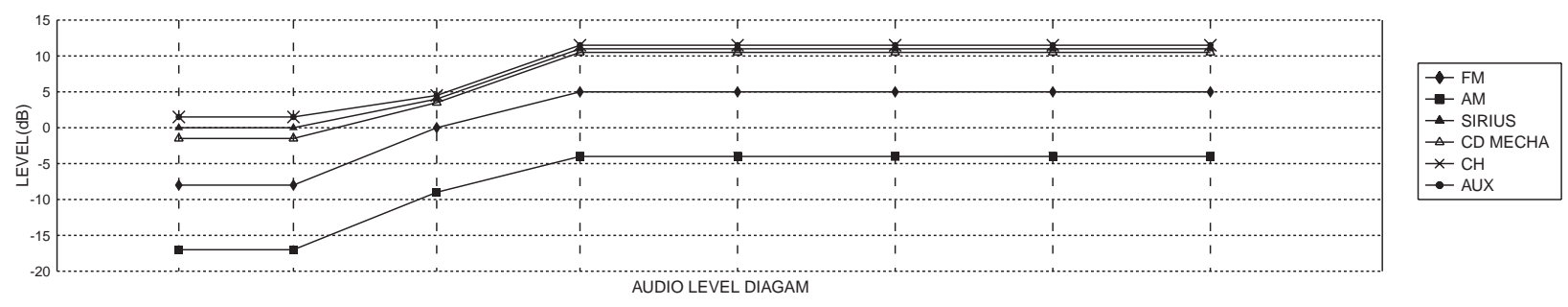
BLOCK DIAGRAM



LEVEL DIAGRAM



	GAIN	SOURCE LEVEL (Vrms)	INPUT MULTI INPUT LEVEL (Vrms)	GAIN (dB)	INPUT MULTI INPUT LEVEL (Vrms)	MAX GAIN (dB)	VOL OUTPUT LEVEL (Vrms)	GAIN (dB)	TONE OUTPUT LEVEL (Vrms)	GAIN (dB)	TONE OUTPUT LEVEL (Vrms)	GAIN (dB)	IC2-5-2 OUTPUT LEVEL (Vrms)	GAIN (dB)	PREOUT OUTPUT LEVEL (Vrms)	(a)VOLUME -10dB (Vrms)	(b)TARGET LEVEL (Vrms)	(a)/(b) (dB)
HD	LEVEL	MAX	420	420	1055.0	5	1876.1	0	1876.1	0	1876.1	0	1876.1	-0.3	1812.4	545.8	570	-0.4
		TYP	400	400	1004.8	8	1786.7	0	1786.7	0	1786.7	0	1786.7	-0.3	1726.1			
		MIN	380	380	954.5	5	1697.4	0	1697.4	0	1697.4	0	1697.4	-0.3	1639.8			
	LEVEL	MAX	147	147	369.2	2	656.6	0	656.6	0	656.6	0	656.6	-0.3	634.3	191.0	190	0.0
		TYP	140	140	351.7	2	625.4	0	625.4	0	625.4	0	625.4	-0.3	604.1			
		MIN	133	133	334.1	2	594.1	0	594.1	0	594.1	0	594.1	-0.3	573.9			
SIRIUS	LEVEL	MAX	1050	1050	1164.1	8	4180.1	0	4180.1	0	4180.1	0	4180.1	-0.3	4038.2	1216.2	1140	0.6
		TYP	1000	1000	1584.9	8	3981.1	0	3981.1	0	3981.1	0	3981.1	-0.3	3845.9			
		MIN	950	950	1505.6	8	3782.0	0	3782.0	0	3782.0	0	3782.0	-0.3	3653.6			
CD MECHA	LEVEL	MAX	910	910	1618.2	5	4064.8	0	4064.8	0	4064.8	0	4064.8	-0.3	3926.8	1105.3	1140	-0.3
		TYP	810	810	1440.4	5	3618.1	0	3618.1	0	3618.1	0	3618.1	-0.3	3495.3			
		MIN	710	710	1262.6	5	3171.5	0	3171.5	0	3171.5	0	3171.5	-0.3	3063.8			
CH	LEVEL	MAX	1400	1400	1762.5	2	4427.2	0	4427.2	0	4427.2	0	4427.2	-0.3	4276.9	1159.3	1140	0.1
		TYP	1200	1200	1510.7	2	3794.7	0	3794.7	0	3794.7	0	3794.7	-0.3	3665.9			
		MIN	1000	1000	1258.9	2	3162.3	0	3162.3	0	3162.3	0	3162.3	-0.3	3054.9			
AUX	LEVEL	MAX	1400	1400	1762.5	2	4427.2	0	4427.2	0	4427.2	0	4427.2	-0.3	4276.9	1159.3	1140	0.1
		TYP	1200	1200	1510.7	2	3794.7	0	3794.7	0	3794.7	0	3794.7	-0.3	3665.9			
		MIN	1000	1000	1258.9	2	3162.3	0	3162.3	0	3162.3	0	3162.3	-0.3	3054.9			



Ez700SR/Ez900HDS

COMPONENTS DESCRIPTION

● SWITCH UNIT (X16-2960-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	LCD Driver	Drives LCD
IC2	Remote Control IC	Controls the unit
Q2	REMO ON SW	The power supply of IC2 is turned on when base level goes "L"
Q3	Key Illumination SW (Red)	Lights Red key-illumination when base level goes "H"
Q4	Key Illumination SW (Green)	Lights Green key-illumination when base level goes "H"
Q5	Dimmer Control	Lights LCD Back Light when base level goes "H"

● ELECTRIC UNIT (X34-3340-1x)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Power Amp	50W x 4
IC101	Main μ -com	Panel, CD mechanism, IC402 control, power supply management, etc.
IC102	2 input OR logic x 4	3 input, 2 output mute signal, L output: mute
IC103	Reset	
IC104	E2PROM	IC101 ROM correction
IC105	E2PROM	IC101 security
IC202	regulator	FM/AM tuner 5V power supply
IC203	DC/DC IC	Servo, FM/AM_3.3V or SIRIUS_1.5V output control
IC204	DC/DC IC	5V, 1.8V output control
IC205	regulator	Backup_5V, ILM, audio, DC/DC_IC power supply, P_con, P_ant
IC206	regulator	SIRIUS_3.3V power supply
IC207	regulator	FM/AM tuner 8.5V power supply
IC208	regulator	Backup_3.3V power supply
IC301	Digital IF decoder	A/D, Digital IF decoder, audio D/A, audio selector
IC302	DSP	Digital FM/AM signal processing
IC303	128M SDRAM	IC302 external RAM
IC304	8M Serial flash ROM	IC302 boot ROM
IC402	Audio decoder	"IC2v2" audio selector / filter / E-vol, etc.
IC403	Digital Interface Receiver	For rewriting IC501 program, digital signal format conversion IC
IC501	Sub μ -com	A301,302,IC301,302,403 control and power supply management
IC502	E2PROM	Tuner adjustment data storage, ROM correction
IC503	Level shift	3.3V \rightarrow 5V level conversion
Q1	Power SW	ON: DSI on / OFF: DSI off
Q2-7	Mute	ON: mute on / OFF: mute off
Q8	Power SW	ON: panel_5V on / OFF: panel_5V off
Q9,10	Mute SW	ON: mute on / OFF: mute off
Q12	Control SW	ON: ILLUMI power supply on / OFF: ILLUMI power supply off
Q13	Power SW	ON: ILLUMI power supply on / OFF: ILLUMI power supply off
Q202	Power SW	ON: SW_5V on / OFF: SW_5V off
Q203	Power SW	ON: ANT_7V on / OFF: ANT_7V off
Q204	Control SW	ON: IC204 ch1 off / OFF: IC204 ch1 on

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q205	Logic reversal	ON: IC203, 4 ch1 on / OFF: IC203,4 ch1 off
Q206	Control SW	ON: IC203 ch1 off / OFF: IC203 ch1 on
Q207	DC/DC drive FET	DC/DC drive dual FET 7V output
Q208	DC/DC drive FET	DC/DC drive dual FET 3.3 or 1.5V output
Q209	DC/DC drive FET	DC/DC drive dual FET 5.2V output
Q210	DC/DC drive FET	DC/DC drive dual FET 1.8V output
Q211	Detection circuit	ON: normal / OFF: DC/DC abnormal output detection
Q212	Power SW	ON: fan_5V on / OFF: fan_5V off
Q213	Control SW	ON: fan_5V on / OFF: fan_5V off
Q214	Power SW	ON: CD_5V on / OFF: CD_5V off
Q215	Control SW	ON /OFF: IC203 oscillation frequency change
Q216	Control SW	ON /OFF: IC204 oscillation frequency change
Q217	Control SW	ON: 3.3V output setting / OFF: 1.5V output setting
Q218	Power SW	ON: S_A3.3V on / OFF: S_A3.3V off
Q219	Power SW	ON: S_1.5V on / OFF: S_1.5V off
Q220	Control SW	ON: ANT_7V on / OFF: ANT_7V off
Q222	Power SW	ON: I_1.8V on / OFF: I_1.8V off
Q223	Power SW	ON: RF_8.5V on / OFF: RF_8.5V off
Q224	Control SW	ON: RF_8.5V on / OFF: RF_8.5V off
Q225	Power SW	ON: I_3.3V on / OFF: I_3.3V off
Q226	Current drive	ON: EXT_AMP on / OFF: EXT_AMP off
Q227	Detection circuit	ON: DIMMER on / OFF: DIMMER off
Q228	Detection circuit	ON: Excess current detection / OFF: normal
Q229	Detection circuit	ON: normal / OFF: backup below power supply setting
Q230	Detection circuit	ON: normal / OFF: ACC below setting or off
Q231	Control SW	ON: P_CON on / OFF: P_CON off
Q232	Power SW	ON: IC301 _3.3V on / OFF: IC301 _3.3V off
Q234	Control SW	ON: S_A3.3V on / OFF: S_A3.3V off
Q235	Control SW	ON: IC301 _3.3V on / OFF: IC301 _3.3V off
Q236	Control SW	ON: I_3.3V on / OFF: I_3.3V off
Q237	Control SW	ON: I_1.8V on / OFF: I_1.8V off
Q238	Control SW	ON: S_1.5V on / OFF: S_1.5V off
Q239	Control SW	ON /OFF: IC203 oscillation frequency change
Q240	Control SW	ON /OFF: IC204 oscillation frequency change
Q302,303	Control SW	Gate ON: UART communication on / OFF: UART communication off
Q304,305	Control SW	Gate ON: I2C communication on / OFF: I2C communication off
Q306,307	Control SW	Gate ON: UART communication on / OFF: UART communication off
Q501	Logic reversal	ON: RESET on / OFF: RESET off
Q502	Control SW	ON: LED on / OFF: LED off
Q503-506	Control SW	Gate ON: UART communication on / OFF: UART communication off
Q507	Power SW	ON: E2PROM on / OFF: E2PROM off

Ez700SR/Ez900HDS

MICROCOMPUTER'S TERMINAL DESCRIPTION

● MAIN MICROCOMPUTER : 703030GC053A (X34 : IC101)

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
1	PLL CLK	TUNER	I/O	CLK output terminal to F/E		
2	SPAN		O	SPAN information output terminal		L : K destination H : M destination or equivalent
3	PANEL-DET	EXTRA	I	Panel installation detection terminal		Panel not installed : L Panel installed : H
4	IC2 SDA	AUDIO	I/O	Data input/output terminal with E-VOL		
4	IC2 SDA	CD	I/O	Data input/output terminal with CD mechanism		
4	IC2 SDA	EXTRA	I/O	Data input/output terminal with ROM collection		
5	IC2 SCL	AUDIO	I/O	CLK output terminal to E-VOL		
5	IC2 SCL	CD	I/O	CLK output terminal to CD mechanism		
5	IC2 SCL	EXTRA	I/O	CLK output terminal to ROM correction		
6	VDD		-			
7	VSS		-			
8	FLIP-DET	to PANEL	I	Flip detection terminal		L : Panel installed, H : Panel flippable
9	BEEP	AUDIO	O	BEEP output terminal		
10	REMO	to PANEL	I	Remote controller input		
11,12	NC		O	Destinations other than E and E2		
13	L CE	to PANEL	O	CE output terminal to LCD driver		
14,15	NC		O	No variable model		
16	DSI	to PANEL	I/O	EJECTKEYILL, GUIDEILL, and DSI control terminal		In FLIPDET "H", when PANEL DET is "L", then "H"/"L" In FLIPDET "H", when PANEL DET is "H", then "L" (When L, lighted up)
17	DIM CON	to PANEL	O	Dimmer control terminal		When ILL is On : With 50mS interval "H"/"L", When ILL is OFF : "H"
18	TEST		-			
19	ILL CON		O	ILL+B off when flipped		While FLIPDET is "L" : H
20,21	VOL A, VOL B	to PANEL	I	Volume key input		When looking at VOL, also look at FLIPDET.
22	MOSW	CD	O	CD mechanism MOTOR IC SW	③	Loading, eject, and brake : H
23	LO/EJ	CD	I/O	CD mechanism LOADING and EJECT switching	③	STOP, brake : Hi-Z, Loading : L, Eject : H
24	M STOP	CD	O	Stop request to CD mechanism		
25	M RST	CD	O	Reset output terminal to CD mechanism		Normal : H, Reset : L
26	MUTE	AUDIO	I/O	Mute terminal		Hi-Z : Mute on, L : Mute off
27	LOE/LIM SW	CD	I	CD DOWN SW detection terminal		H : Chucking
28	M-MUTE L	CD	I	Mute request terminal from CD mechanism		L : Mute request
29	M-MUTE R	CD	I	Mute request terminal from CD mechanism		L : Mute request
30	PANEL 5V	Power supply	I/O	Panel 5V control terminal	④	Panel installed : L, Panel not installed or momentary power down : H
31	RESET	to PANEL	I			Normal : H, Reset : L
32,33	XT1,XT2		I			32kHz
34	REGC		-			1μ condenser is to be connected to GND.
35,36	X2,X1		I			20MHz
37	VSS		-			
38	VDD		-			
39	CLKOUT		-			
40,41	IC2 TYPE1,IC2 TYPE0		I	E-VOL setting selection terminal		Third party : L
42~44	TYPE2~TYPE0		I	Destination selection terminal	⑥	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
45	CD MECHA+B	Power supply	I/O	Power supply control terminal for power supply MP3	⑤	ON : L, OFF : Hi-Z
46	SW5V	Power supply	I/O	SW5V control terminal		ON : L, OFF : Hi-Z
47,48	PS2-0 (NC),PS2-1 (NC)	Power supply	O	Power IC control terminal	②	
49~51	PS1-0~PS1-2	Power supply	O	Power IC control terminal	①	
52	B.U-DET	EXTRA	I	Momentary power down detection terminal		BU detected : L, BU not detected (Momentary power down) : H
53	ACC-DET	EXTRA	I	ACC detection terminal		ACC exists : L, No ACC : H
54	DIMMER	EXTRA	I	Small detection terminal		ON : L, OFF : H
55	BVDD		-			
56	BVSS		-			
57	EXT AMP CON	EXTRA	O			
58	NC (SVR)	AUDIO	O	POWER IC SVR control terminal		Momentary power down : H
59	P-MUTE	AUDIO	O	POWER IC MUTE output terminal		When POWER OFF : L, When ALL OFF : L, When TEL MUTE : L
60	P-STBY	AUDIO	O	POWER IC STBY output terminal		POWER IC ON : H POWER OFF : L
61	NC		O			
62	PRE MUTE R	AUDIO	O	Rch PRE MUTE output		Momentary power down : L, M-MUTE R : L (While playing CD), When in 2 zones : H-fixed
63	PRE MUTE L	AUDIO	O	Lch PRE MUTE output		Momentary power down : L, M-MUTE L : L (While playing CD), When in 2 zones : H-fixed
64	NC (AFS)	TUNER	O	Constant switching terminal during noise detection		While in FM seek and AF search : L, During reception : H
65	O-DATA	EXTRA	I/O	External display DATA terminal		
66	O-CLK	EXTRA	I/O	External display CLK terminal		
67	O-CE	EXTRA	I/O	External display CE terminal		
68	LX_RST	LX	O	Reset output to external devices		Normally L, After system reset : H 400msec or more and then L.
69	LX_CON	LX	O	Control output to external devices		ON : H, OFF : L
70	AVCONT	Power supply	O	AD reference voltage control output		While in operation : H
71	AVDD		-			
72	AVSS		-			
73	AVREF	Power supply	-	AD reference voltage control input		Connected to 70pin.
74	PHONE	EXTRA	I	PHONE detection terminal		TEL MUTE : 1V or less, NAVI MUTE : 2.5V or more
75	TYPE3		I	Destination switching terminal	⑥	
76	DC_OFFSET		I	DC OFFSET detection terminal		
77~80	NC		I			
81	SR_F_LOCK	EXTRA	I	Prior to initial contract (FA) with Sirius, receiver function is restricted. Input for this from sub.		H : LOCK, L : UN-LOCK (L while in low power consumption mode), Threshold value : 1.5V
82	S-METER (NC)	TUNER	I	S-meter detection terminal		According to tuner control specification
83	NOISE (NC)	TUNER	I	FM noise detection terminal		According to tuner control specification
84	IFC-OUT (NC)	TUNER	I	F/E IFC OUT input terminal		According to tuner control specification
85	LX_MUTE	LX	I	MUTE request from external devices		H : Mute ON, L : Mute OFF
86	LX_REQ_M	LX	O	Request output to external devices		Request input pending : L
87	NC		O	Destination with no RDS		Destination with no RDS : Output L-fixed,

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MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
88	LX_REQ_S	LX	I	Request input from external devices		Request input pending : L
89	KEY-REQ	to PANEL	I	Communication request from LCD driver		L : KEY input
90	LO.S SW	CD	I	Loading start SW detection terminal		Loading start : L
91	12EJE SW	CD	I	12cm DISC EJECT position detection SW terminal 12 or 8cm disc detection		12cm DISC : L
92	EJECT	CD	I	EJECT defection terminal		L : KEY input
93	NC		O	Other than J-destination		J-destination : Output L-fixed
94	LX_DATA_S	LX	I	Data input terminal from external devices		
95	LX_DATA_M	LX	O	Data output terminal for external devices		Last retained.
96	LX_CLK	LX	I/O	CLK input/output terminal with external devices		
97	L DATAL	to PANEL	I	Data input from LCD driver		
98	L DATAS	to PANEL	O	Data output terminal to LCD driver		
99	L CLK	to PANEL	O	LCD driver CLK output terminal		
100	PLL DATA	TUNER	I/O	F/E data with input/output terminal		

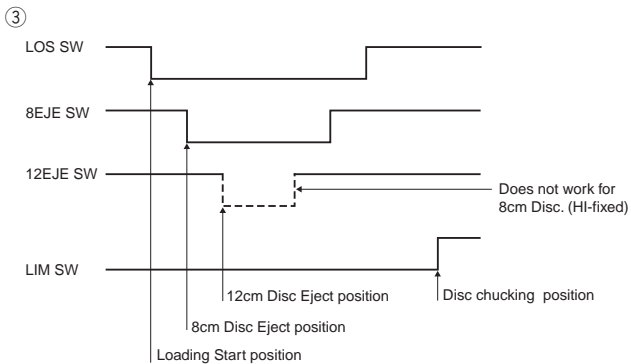
Truth Value Table

①

PS1-0	PS1-1	PS1-2	AUDIO	P-CON	P-ANT
L	L	L	OFF	OFF	OFF
H (L)	L (H)	L	ON	OFF	OFF
H	H	L	ON	ON	OFF
H	H	H	ON	ON	ON

②

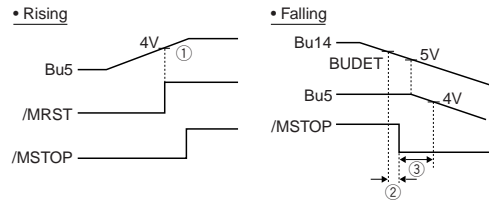
PS2-0	PS2-1	ILLUMI	FM+B	AM+B
L	L	OFF	OFF	OFF
H (L)	L (H)	ON	ON	OFF
H	H	ON	OFF	ON



④
PANEL 5V terminal

	Description of processing during low power consumption mod	
POWER OFF	O	L
ACC OFF	I	Hi-z
No panel or panel flippable	I	Hi-z
Momentary power down (with panel installed)	I	Hi-z

⑤
● Recommended timing for Power supply / MRST / MSTOP



- ① RST is to be cleared after Bu5 is 4.0V or more. (4.5V or more for DXM-6000 series)
- ② The time lag between BUDET and MSTOP dropping is depended on the system computer. (Main cycle)
- ③ The time from dropping of MSTOP to Bu5V going below 4.0V should be 4mS or more.

⑥

TYPE3	TYPE2	TYPE1	TYPE0	Destination	Remarks
0	0	0	0	Ez900HDS	With Sirius and with HD.
0	0	0	1	Ez700SR	With Sirius but no HD.
0	0	1	*	Reserved	
0	1	0	0	Ez500	FM/AM/MP3
0	1	0	1	Reserved	
0	1	1	*	Reserved	
1	*	*	*	Reserved	

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SUB MICROCOMPUTER : 70F3263GC3T5A or 703262GC301A (X34 : IC501)

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
1	AVREF0		I	ADC reference voltage		Connected to BU+3.3V with H/W.
2	AVSS		-	ADC/DAC GND		Connected to GND with H/W.
3,4	NC	Not used.	O			L-output.
5	AVREF1		I	DAC reference voltage		Connected to BU+3.3V with H/W.
6	NC	Not used.	O			L-output.
7	SELF_MODE	Test&Debug	I/O	Self-write designation		Normal : Input (In place of Hi-Z-output), In self-mode : H-output
8	FLMD0	Test&Debug	I	Flash Programming Mode		Normal : L-input, Program : H-input
9	VDD		-	Main power supply terminal		Connected to BU+3.3V with H/W.
10	REGC		-	Power supply stabilization capacity connection terminal		Connect 4.7 μ F.
11	VSS		-	GND		Connected to GND with H/W.
12,13	X1,X2		-	Main clock terminal		Connect 5MHz X'tal.
14	RESET		I	Reset terminal		H : Normal, L : Reset
15	NC	Not used.	-	Sub-clock terminal		Pull Down
16	NC	Not used.	-	Sub-clock terminal		Open
17	SPAN	HD Radio	I	SPAN selection input		L : K-destination, H : M-destination or equivalent
18	BUP	Power supply	I	BU low detection		H : BU low, L : BU normal
19	LX_CON_1	LX_M	I	Boot request from system μ -com		H : slave unit ON, L : slave unit OFF
20	DRST	Test&Debug	I	Used for N-Wire		
21	LX_REQ_S_2	LX_M	I	Communication request from slave unit		
22	LX_DATA_S_2	LX_M	I	Data from slave unit		
23	LX_DATA_M_2	LX_M	O	Data to slave unit		
24	LX_CLK_2	LX_M	I/O	LX BUS clock		
25	SR_TX	SIRIUS	O	UART output to Sirius		
26	SR_RX	SIRIUS	I	UART input from Sirius		
27	NC	Not used.	I			
28	AM_SW1	HD Radio	O	DC/DC Switching Freq. Cont	⑦	In combination with AM_SW2, frequency is controlled.
29	LX_CON_2	LX_M	O	Boot request to slave unit		H : slave unit ON, L : slave unit OFF
30	LX_REQ_M_2	LX_M	O	Communication request to slave unit		
31	LX_REQ_S_1	LX_M	O	Communication request to system μ -com		
32	LX_MUTE_1	LX_M	O	Mute request to system μ -com		H : Mute ON, L : Mute OFF
33	EVSS			GND		Connected to GND with H/W.
34	EVDD			Main power supply terminal		Connected to BU+3.3V with H/W.
35	SDA	Common	I/O	IIC data		IIC data
36	SCL	Common	O	IIC clock		IIC clock

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MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
37	D/L ALARM	D/L function	O	Alarm LED lightup (When D/L is used.)		H : Lightup, L : No lightup
38	BEEP	D/L function	O	BEEP output (When D/L is used.)		
39	DDI	Test&Debug	I	Used for N-Wire.		
40	DDO	Test&Debug	O	Used for N-Wire.		
41	DCK	Test&Debug	I	Used for N-Wire.		
42	DMS	Test&Debug	I	Used for N-Wire.		
43	UART_O	Test&Debug	O	Debug port (transmission)		
44	UART_I	Test&Debug	I	Debug port (reception)		
45	CCLK	D/L function	O	DIR setting clock	③	
46	CDT	D/L function	O	DIR setting data	③	
47	DIR_RST	D/L function	O	DIR reset output	③	Reset : L, Normal : H
48	DIR_CSN	D/L function	O	DIR setting strobe	③	
49	UART_SW	Test&Debug	O	5L data terminal UART communication permission	⑤	L : Not permitted, H : Permitted
50	DL_DATA	D/L function	I	D/L data stream	③	
50	NC	D/L function	I	D/L data stream		
51	AM_SW2	HD Radio	O	DC/DC Switching Freq. Cont	⑦	In combination with AM_SW1, frequency is controlled.
52	DL_CLK	D/L function	I	D/L bit clock	③	
52	NC	D/L function	I	D/L bit clock		
53	LX_DATA_M_1	LX_M	I	Data from system μ -com		
54	LX_DATA_S_1	LX_M	O	Data to system μ -com		
55	LX_CLK_1	LX_M	O	Clock from system μ -com		
56	LX_REQ_M_1	LX_M	I	Communication request from system μ -com		
57	NC	Not used.	O			
58	DL_CLK2	D/L function	I	D/L bit clock		
59,60	NC	Not used.	O			
61	PON_HR	Power supply	O	HD Radio power supply ON control		H : ON, L : OFF
62	PON_SR	Power supply	O	Sirius power supply ON control		H : ON, L : OFF
63	PON_7730	Power supply	O	7730 power supply control		H : ON, L : OFF
64,65	NC	Not used.	O			
66	SR_RST	SIRIUS	O	Sirius module reset		L : Reset, H : Normal
67	SR_DIS	SIRIUS	I	SSI internal communication disable		H : Disable
68	NC	Not used.	O			
69	BVSS			GND		Connected to GND with H/W.
70	BVDD			Main power supply terminal		Connected to BU+3.3V with H/W.
71	7730_RESET	HD Radio	O	SAA7724 reset		L : Reset, H : Normal
72	HR_BLEND	HD Radio	I	Blend signal (input from IDM)		H : Digital, L : Analog

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
72	NC	HD Radio	I	Blend signal from IDM		Fixed with H/W.
73	HR_7730BLEND	HD Radio	O	Blend signal (output to 7730)		H : Digital, L : Analog
74	HR_RST	HD Radio	O	HD Radio block reset		L : Reset, H : Normal
75	NC	Not used.	O			
76	FLMD1	Test&Debug	I			Pull down with H/W.
77	NC	Not used.	O			
78	U_SW	Test&Debug	O	Debug UART terminal connection permission to IDM UART terminal	⑥	H : Permitted, L : Not permitted.
79~81	NC	Not used.	O			
82	TYPE0	Others	I	Destination SW (bit 0)	①	
83	TYPE1	Others	I	Destination SW (bit 1)	①	
84	TEST0	Test&Debug	I	Test SW (bit 0)	②	
85	TEST1	Test&Debug	I	Test SW (bit 1)	②	
86	TEST2	Test&Debug	I	Test SW (bit 2)	②	
87	NC	Not used.	O			
88	FAN_ON	Common	O	FAN ON/OFF control		ON : H, OFF : L
89	VU	Common	I	Temperature sensor input		For FAN control
90	NC	Not used.	O			
91	SR_SNS_V	SIRIUS	I	Antenna current sensing voltage	④	
92	SR_REF_V	SIRIUS	I	Antenna current detection sensing voltage	④	
93	VSW3	Common	I	SW5V monitoring. The voltage is divided into 2 and used as reference voltage for FAN control.		
94	NC	Not used.	O			
95	ACT	SIRIUS	O			Sirius activated H : Activated, L : Not activated
96	ESN	SIRIUS	O			Sirius activated H : ESN activated, L : Not activated.
97	T_ERR	Common	O			Sirius/HD or Used fro tuner as well. H : Normal, L : Tuner Error
98,99	NC	Not used.	O			
100	SR_F_LOCK	SIRIUS	O	Prior to initial contract (FA) with Sirius, receiver functions are restricted. Output is made to system μ -com for this.		H : LOCK, L : UN-LOCK (L in low power consumption mode)

Ez700SR/Ez900HDS

MICROCOMPUTER'S TERMINAL DESCRIPTION

Truth Value Table

①

Destination Setting

TYPE1	TYPE0	Destination	Remarks
0	0	Ez900HDS	Sirius installed, HD installed.
0	1	Ez700SR	Sirius installed, HD not installed.
1	*	Reserved	

* : Do not care

②

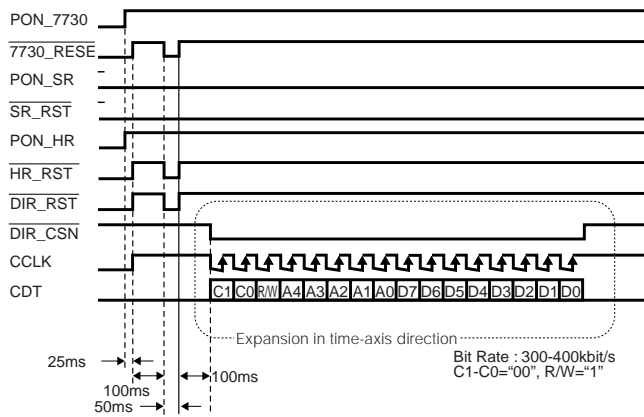
SLAVE LOCAL TEST MODE SPECIFICATION

TEST2	TEST1	TEST0	Function
0	0	0	Normal
*	*	1	Sirius TA Mode ON
*	1	*	Debug Mode ON
1	*	*	No Sirius SG virtual operation mode

* : Do not care

③

DIR Control Timing



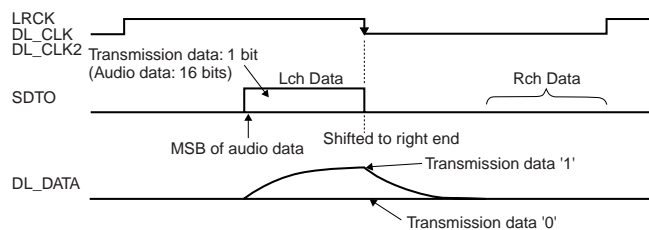
DIR Control Contents

Addr	Register Name	D7	D6	D5	D4	D3	D2	D1	D0
0x02	Format & De-emphasis Control	V/TX	DIF2	DIF1	DIF0	DEAU	DEM1	DEM0	DFS
		0	0	0	0	0	0	1	0
		Shifted to right end.				*1	De-emphasis OFF		

*1 : De-emphasis Auto Detect Disable (Manual)

Those in italic indicate shift point from default.

Data clock input timing for μ-com (Clock : 44.1kHz)



MICROCOMPUTER'S TERMINAL DESCRIPTION

④ Antenna Detection Method

(1) SSM internal circuit is used to detect antenna connection. Sub μ -com makes judgment by a notification from SSP.

(2) Current detection for excess current protection uses the same method as KTC-SR902.

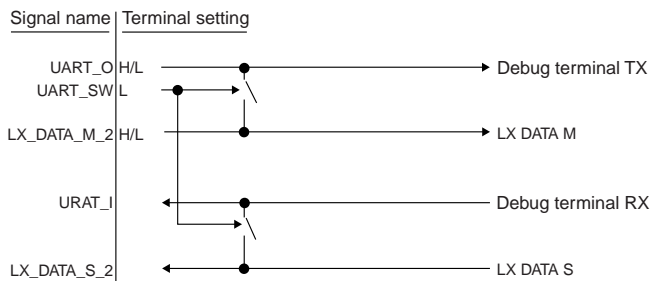
It is necessary to change the threshold set by software, as resistance value for detection has been changed.

When the value is "28" or higher, it is determined that excess current is detected → DC/DC is stopped.

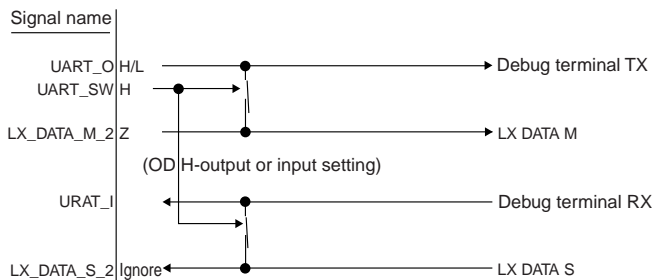
(3) Antenna power supply produced in DC/DC is 7.2V.

⑤

Normal Condition

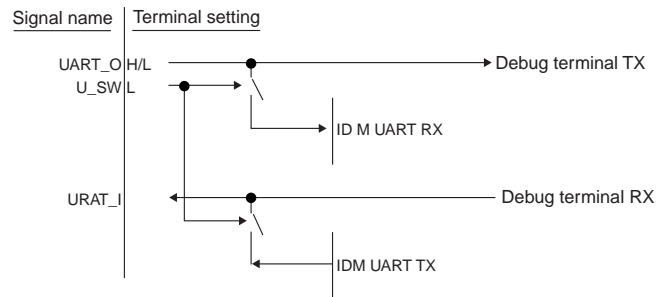


URAT communication permitted condition (In test mode, permission is to be given when 5L sources equivalent to simplified AUX are recognized.)

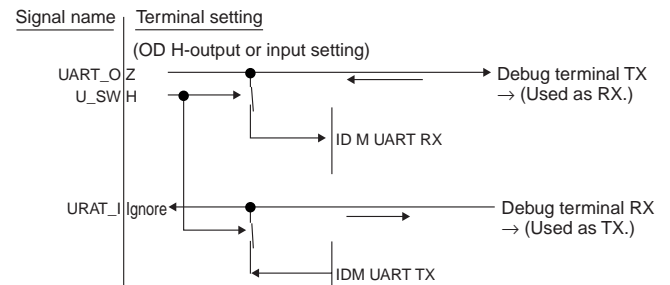


⑥

Normal Condition



URAT connection permitted condition (Permission is to be given when receiving specific command from UART terminal, or in case of IDM D/L. Recovery is made only by resetting.)



⑦

K (10kHz_span)

	f1	f2	f3
*1	360	405	445
*2	720	810	890
*3	1080	1215	1335
*4	1440	1620	1780
*5	1800	2025	2225

		SW1	SW2
①	When f0 is outside the range of ((n1xf3) ±85) (n1=1,2,3,4,5)	H	L
②	When f0 is within the range of ((n1xf3) ±85) (n1=1,2,3,4,5)	L	L
③	When f0 is within the range of ((n1xf3) ±85) and at the same time within the range of ((n1xf1) ±85) (n1=1,2,3,4,5)	L	H

* f1~f3 are written on E2PROM.

TEST MODE

● How to enter the test mode

Reset while pressing both Preset ① key and Preset ③ key at the same time.

● How to clear the test mode

• Ez700SR/Ez900HDS Model

Reset while pressing down Preset ⑥ key. This should be done with panel-not-installed and other modes ON. (Reset, ACC OFF, power OFF, and momentary power down do not clear the test mode.)

• Ez500 Model

Reset, ACC OFF, power OFF, panel-not-installed and other modes ON. (**Note** : Momentary power down does not clear the test mode.)

● Initial conditions of the test mode

- Source is STANDBY.
- Displays are all lighted up.
- Volume is -10dB (displayed as 30).
- LOUD is OFF.
- CRSC is to be turned OFF, regardless of whether there is switching function or not.
- SYSTEM Q is FLAT.
- BEEP is sounded with a short-push at all times.
- AUX is ON.(This is only the models with AUX.)
- SYSTEM Q on the menu is OFF.
- (The initial value of the variable model is white.)

● Special displays when set to TUNER (Ez500 Model only)

When in TUNER mode, if the following messages were displayed, there are abnormalities in the front end, etc.

- "TNE2P" : EEPROM is still with the initial value (unspecified value), as the F/E being shipped without going through the adjustment process.
- "TNCOM" : Communication with the F/E is not possible.

● CD receiver test mode specification

- At the time of the reset start, forced CD eject is prohibited. If reset is effected with the CD in the unit, the CD would not be recognized.
- By the use of the track-up key, jumps are made to tracks in the following order.
No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 22 → No. 14 → No. 9 (Returns to the starting point)
- By the use of the track-down key, it is possible to go down one track from the current one.
- If the total number of tracks of an MP3 disc is less than 9, the first track will be the first track to be played.

- If the media is CD, pressing Preset ① key would effect a jump to No. 28.
- If the media is CD, pressing Preset ② key would effect a jump to No. 14.
- If the media is CD, pressing Preset ⑥ key would effect a jump to No. 15.
(Models with DC error detection function (Ez700SR, Ez900HDS))

● Audio-related matters

- By using a short-push on the AUD key, it is possible to enter the Audio Adjust Mode.
- By pressing * key on the remote controller, it is possible to enter the Audio Adjust Mode.
- Long-push on the remote controller is prohibited. Short-pushes are to be used for operation.
- The initial items are faders.
- Using track up/down key, the fader is to be adjusted to the following three steps : R15 ⇔ 0 ⇔ F15. (Initial value : 0)
- Using track up/down key, the SW Level is to be adjusted to the following three steps : -15 ⇔ 0 ⇔ +15. (Initial value : 0)
- Using track rack up/down key, Bass/Middle/Treble is to be adjusted to the following three steps : -8 ⇔ 0 ⇔ +8. (Initial value : 0)
- * Bass f/Bass Q/Bass EXT/Middle f/Middle Q/Treble f do not appear in the Audio Adjustment.
- Using track up/down key, balance is to be adjusted to the following three steps : L15 ⇔ 0 ⇔ R15. (Initial value : 0)
- Using track up/down key, HPF is to be adjusted to the following 2 steps : THRU ⇔ 170Hz (or 200Hz. (Initial value : THRU) (Ez500)
- Using track up/down key, HPF Front is to be adjusted to the following 2 steps : THRU ⇔ 170Hz. (Initial value : THRU) (Ez700SR, Ez900HDS)
- Using track up/down key, HPF Rear is to be adjusted to the following 2 steps : THRU ⇔ 200Hz. (Initial value: THRU) (Ez700SR, Ez900HDS)
- Using track rack up/down key, LPF is to be adjusted to the following 2 steps : THRU ⇔ 120Hz. (Initial value : THRU) (In the 2 Pre-out models, by using long-push on ATT, it is possible to switch Pre-out NF/REAR.)

● MENU-related items

- Using a short-push on the PALY/PAUSE key, it is possible to enter the MENU.
- Using the DNPP key on the remote controller, it is possible to enter the MENU.
- Using a long-press on the remote controller is prohibited. Short-pushes are to be used for operation.
- Using the track up/down key, contrast adjustment is to be

TEST MODE

conducted into the following 3 steps : 0 ↔ 5 ↔ 10. (Initial value : 7)

● Back up current measurement

When reset with ACC OFF (or with backup is ON) MUTE terminal goes OFF after 2 seconds, instead of 15 seconds as is normally the case. (At that moment, the CD mechanism is not operating.)

● Special display when all indicators are lighted up

When the preset key is pressed with all indicators lighted up in All OFF mode, the following will be displayed.

① Key	<ul style="list-style-type: none"> Version display (8 digits month, date, hour, minute) (Display) SYS xxxxxxxx
② Key	<ul style="list-style-type: none"> Serial number display (8 digits) (Display) SNo xxxxxxxx
③ Key	<ul style="list-style-type: none"> Short-push : Number of power ON hours display (ALL OFF hours not counted.) Long-push of 2 seconds during Number of power ON hours display : Number of power ON hours is cleared (Display) PonTim xxxxx MAX 60000 (hours)
④ Key	<ul style="list-style-type: none"> Short-push : CD operation time display Long-push of 2 seconds during CD operation time display : CD operation time is cleared. (Display) CDTim xxxxx MAX 60000 (hours)
⑤ Key	<ul style="list-style-type: none"> Short-push : Number of CD EJECT times display Long-push of 2 seconds during number of CD EJECT times display : number of CD EJECT times is cleared. (Display) EjeCnt xxxxx MAX 60000 (times)
⑥ Key	<ul style="list-style-type: none"> Short-push : Number of PANEL open/close times display Long-push of 2 seconds during Number of PANEL open/close times display : Number of PANEL open/close times is cleared. (Display) PnCnt xxxxxx MAX 600000(times)
FM Key	<ul style="list-style-type: none"> ROM correction version display (Display) When effective : ROM R ○○○○ (○ : Number) When not effective (reading unsuccessful) : ROM R --- When not effective (version different) : ROM R***
TRACK-UP Key	<ul style="list-style-type: none"> Audio data initial value setting (Models with DC error detection function only) (Display) AUDIO INIT

● Others

- When ① key is pressed, only during internal AUX, 2-ZONE ON/OFF is effected. When ON, P/S dot is turned ON all the time.
- When turning power ON, "CODE OFF/ON" will not be displayed.
- When booted up in Test Mode, normally 10 seconds LINE MUTE prohibition time is shortened to 1 second.
- In the Test Mode, security code should not be written with security jigs. (*1)
- In the Test Mode, serial number should not be written with serial number writing jigs. (*1)
- In the Test Mode, even if OEM Display is not connected, "OEM Display Out" output is not stopped.
(*1) Since this mode clears Test Mode by resetting, it is not necessary to have it.

● Frequency span switching (K/M Type)

Reset while pressing both ① and ⑤ keys.

● OEM compatible setting (Electronic volume destination setting) (Ez500 only)

The models installed with S03F/E can cope with OEM models by using the 2-pin on the microcomputer.

The following is the setting method.

IC2-TYPE0 (41pin)	IC2-TYPE1 (40pin)	Contents
Low	Low	① Third party model (Initial value)
Low	High	② Third party model CRSC change
High	Low	③ OEM model compatible CRSC change
High	High	④ OEM model compatible CRSC & de-emphasis change

● Security

- Forced power ON mode
It is possible to make the power come on for 30 minutes only, even if the security is set (for both the simplified security and security codes.). This is achieved by pressing Q and ④ keys at the same time. Recoveries can be made only by resetting after the elapse of 30 minutes. (**Note** : Use of the above mode does not clear the security code. It's purpose is to have the power come on temporarily.)
- How to clear the simplified security code (K-type only)
 - When it is requested to enter the code, while pressing AUTO key, use long-push on the Track up key for 3 seconds. (This makes ---- disappear.)
 - Using the remote controller, input "KCAR".

Ez700SR/Ez900HDS

TEST MODE

Press the remote controller 5 key 2 times and then press the Track up key. (Inputting "K")

Press the remote controller 2 key 3 times and then press the Track up key. (Inputting "C")

Press the remote controller 2 key once and then press the Track up key. (Inputting "A")

Press the remote controller 7 key 2 times and then press the Track up key. (Inputting "R")

3. Above procedure clears the security which causes the unit to go into ALL OFF mode.
4. If wrong codes were entered, the unit goes into the Code Request mode.

● Initializing AUDIO-related value setting (DCERR-related)

- Ez700SR/Ez900HDS Model
 1. Enter ALL OFF (STANDBY) mode.
 2. While in the ALL OFF (STANDBY) mode, short-push ►► key, which re-establishes the AUDIO-related values to the default values of the Test Mode.

● Clearing DC error detection information (EEPROM data clear)

- Ez700SR/Ez900HDS Model
 1. While pressing down on Preset ③ and Preset ⑥ keys, reset to enter the DC Error Display mode. (The Test Mode is cleared at this point.)

2. In the ALL OFF mode display, the current DC error conditions are displayed.

Error detected : "DC ERROR"

Error not detected : "DC OK"

3. The detected error information can be cleared by long-push on the [AUD] key, while the error information is being displayed. (EPROM clear)
4. DC Error Display mode can be cleared by resetting. (The condition prior to power OFF is not retained.)

● Sirius Function Lock Release mode

- Ez700SR/Ez900HDS Model
 1. While pressing down on Preset ⑤ and Disp keys, reset to enter the DC Error Display mode. (The Test Mode is cleared at this point.)
 2. If Sirius is prior to FA, the source switching is restricted. In case of evaluations, however, restrictions would cause the evaluations to be ineffective. In the HDRadio Test Mode, therefore, source switching is possible as with the normal operation.
Prior to Sirius FA : Only "STANDBY" and "SIRIUS" can be selected as sources.
 3. The initial value of the volume will be 30. The specification is such that this value is retained even after turning power ON/OFF.
 4. This mode is cleared by resetting. (The condition prior to power OFF is not retained.)

SIRIUS TEST MODE

● SIRIUS Channel Lock Clear

If the code for clearing the locked channel was lost (when losing track of the code), the default code (0000) can be retrieved by pressing the reset button.

It must be noted, however, the above procedure would clear any skip/lock that has been set.

HD RADIO TEST MODE

1. How to Start/End the Test Mode

1-1. How to start the test mode

While pressing Preset 1 and Preset 3 keys at the same time, press the reset button. Keep on pressing on the Preset keys, until the H/U boots up. (**Note** : That the volume is turned up to maximum in the test mode.)

1-2. How to end the test mode

While pressing Preset 6 key, press the reset button. If the requests are made to panel removal and other modes, the test mode is cleared.

2. Operational Specifications

Operations in the test mode are those functions needed for tests added to the normal mode. Also, there are the following points that are different from the normal mode in addition to the added functions for the test mode.

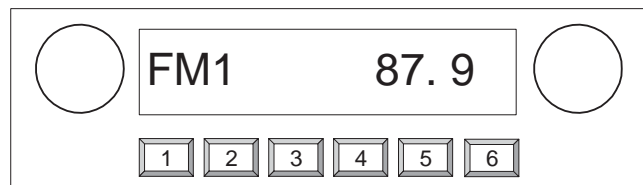
- For the CRSC function, the default is OFF.
- Span switching is made ineffective and operations are always those for K-destination.

Note : When switching span in the normal mode, it is possible to receive only analog. Digital cannot be received. Also, since the reception mode is removed from the menu, changes cannot be made on the reception mode. This means the unit will always function in the analog mode.

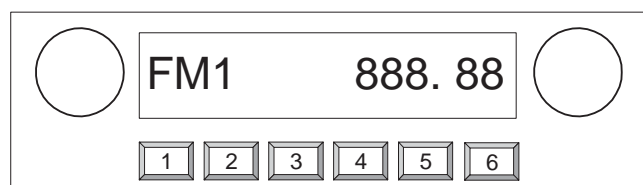
3. Operation of the Head Unit

3-1. Operation with the source ON

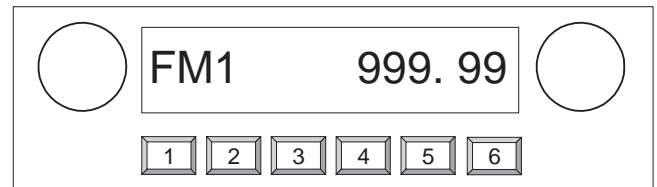
Only in the test mode, when Tuner/HD Radio source is ON, the tuner condition is checked. When an error is detected, the error content is displayed in 5 digits of frequency section. When normal, the normal frequency is displayed.



Display of adjusted tuner



Display of un-adjusted tuner



Display of tuner when there is an error

3-2. Normal test mode

In the test mode, when Tuner/HD Radio is sourced, there are two modes: normal test mode and reverse test mode for servicing. The differences in these modes are that allocations of preset keys are different. Shown below are the allocations of preset keys in the normal test mode.

Allocations of preset keys in the normal test mode

		1	2	3	4	5	6
HF1	Call	87.9MHz	98.1MHz	107.9MHz	<i>Version</i>	<i>Receive Mode</i>	For Service
	Memory	-	-	-	S-meter	-	-
HF2	Call	●	●	●	<i>Version</i>	<i>Receive Mode</i>	For Service
	Memory	●	●	●	S-meter	-	-
HF3	Call	●	●	●	<i>Version</i>	<i>Receive Mode</i>	For Service
	Memory	●	●	●	S-meter	-	-
HA1	Call	530kHz	1000kHz	1700kHz	<i>Version</i>	<i>Receive Mode</i>	For Service
	Memory	-	-	-	S-meter	-	-

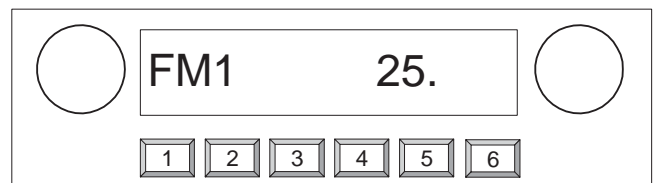
Note : Those in italic indicate Ez900HDS only.

3-2-1. Version display (Ez900HDS only)

In each band, pressing Preset 4 key would display versions of the host controller and IDM. In order to display the versions, select Title by switching DISP of H/U.

3-2-2. Reception level display (S-meter value)

In each band, by using a long-push on the Preset 4 key, display of the S-meter values begin. In the frequency section, the S-meter value is displayed in 2 digits. For the display, select Frequency in the DISP switching of H/U. S-meter value is updated once every second. Using a long-push on the Preset 4 key would end the S-meter value display and the unit returns to the normal frequency display.



Ez700SR/Ez900HDS

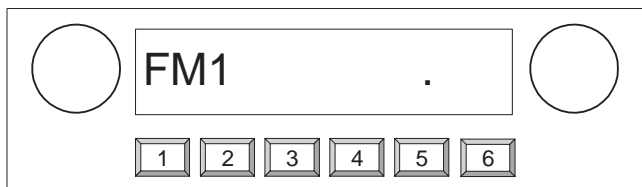
HD RADIO TEST MODE

3-2-3. Reception mode switching (Ez900HDS only)

In each band, every time the Preset 5 key is pressed, the reception mode is switched in the following manner : Auto → Digital → Analog → Auto. In order to display reception mode, select Station in the DISP switching on the H/U.

3-2-4. Entering the reverse test mode for servicing

In each band, by pressing Preset 6 key, it is possible to enter the reverse test mode for servicing. When this mode is entered, the frequency display will show a blank. In order to display frequency, select frequency in the DISP switching on the H/U.



3-3. Reverse test mode for servicing

Shown below are allocations of preset keys in the reverse test mode for servicing.

Reverse test mode preset key allocation

		1	2	3	4	5	6
HF1	Call	tf1	-	-	<i>Ber</i>	<i>Gain Start</i>	-
	Memory	Verify	-	-	-	<i>Set Gain</i>	-
HF2	Call	tf2	sm2	ssl2	<i>Ber</i>	<i>Gain Start</i>	-
	Memory	Verify	-	-	-	<i>Set Gain</i>	-
HF3	Call	tf3	-	-	<i>Ber</i>	<i>Gain Start</i>	-
	Memory	Verify	-	-	-	<i>Set Gain</i>	-
HA1	Call	-	sm 1	ssl 1	<i>Ber</i>	<i>Gain Start</i>	-
	Memory	Verify	-	-	-	<i>Set Gain</i>	Alignment

Note : Those in italic indicate Ez900HDS only.

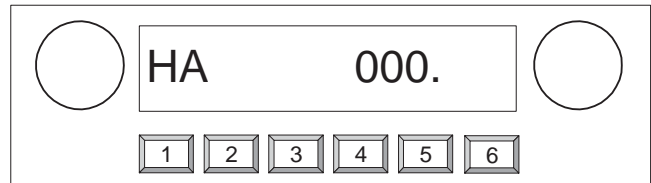
3-3-1. Beginning tuner pack adjustment

In the band AM, when a long-push is effected on the Preset 6 key, the tuner pack adjustment mode can be entered. When the mode is entered, "000" is displayed in the frequency section. If there is an error in reading EEPROM, "8 0" is displayed. In order to display frequency, select Frequency in the DISP switching on the H/U.

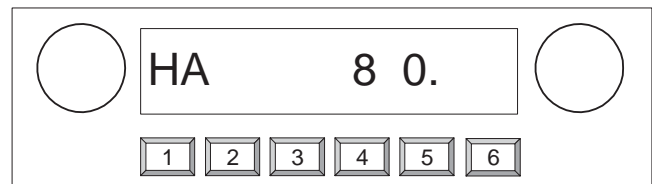
Note: When entering this mode, EEPROM adjustment data is cleared even with the tuner pack adjusted sets. This mode, therefore, should not be entered except at the time of tuner pack adjustment.

Prior to adjustment, adjustment signal of AM 1000kHz should be input. When the adjustment begins, all polling is

stopped, which makes normal operation impossible immediately after the adjustment. For normal operation, the unit must be rebooted. The polling is stopped even during S-meter display. This means that S-meter display function is stopped. (ACC ON/OFF will make the display come back again.)



Display after successful adjustment



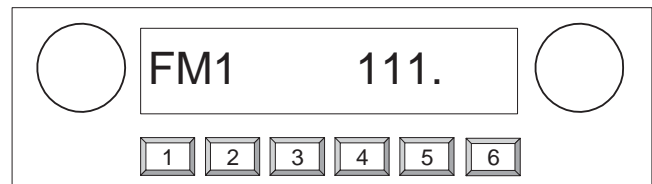
Display after un-successful adjustment

3-3-2. Tuner pack adjustment

In the items 3-2-3 through 3-2-6 below, the adjustment conditions of the tuner packs are displayed in the frequency display section. In order to display frequency, select frequency in the DISP switching on the H/U. The display format of the adjustment conditions will be made in 3 digits in the following manner.

* At the time of replacing the tuner pack, it is necessary to conduct this operation.

EEPROM un-written : "000"
 In adjustment : "(item ID) (blank) (blank)"
 Adjustment successful : "(item ID) (blank) 1"
 Adjustment unsuccessful : "(item ID) (blank) 0"
 Verify OK : "111"
 Verify NG : "8 (blank) (item ID)"



3-3-3. FM tracking filter adjustment

87.9MHz adjustment (Item ID1) : Preset 1 for Band FM1
 98.1MHz adjustment (Item ID2) : Preset 1 for Band FM2
 107.9MHz adjustment (Item ID3) : Preset 1 for Band FM3

HD RADIO TEST MODE

While adjusting these, "1," "2," or "3" is displayed and when the adjustment is successful, the 1 digit will display 1 and when there is an error, the 1 digit will display 0.

3-3-4. S-meter adjustment

AM adjustment (Item ID4) : Preset 2 for Band AM

FM adjustment (Item ID5) : Preset 2 for Band FM2

While adjusting these, "4" or "5" is displayed and when the adjustment is successful, the 1 digit will display 1 and when there is an error, 1 digit will display 0.

3-3-5. Seek/Stop/Level adjustment

AM adjustment (Item ID6) : Preset 3 for Band AM

FM adjustment (Item ID7) : Preset 3 for Band FM2

While adjusting these, "6" or "7" is displayed and when the adjustment is successful, the 1 digit will display 1 and when there is an error, the 1 digit will display 0.

3-3-6. Verify

Adjustment date verify (Item ID8)

In each band, using a long-push on the Preset 1 key, whether the adjustment data has been correctly written on the EEPROM or not can be checked. When the data is successfully written on the EEPROM, "111" will be displayed. If there is an error or errors, the item ID will be displayed. (Even if there are 2 or more errors, only 1 ID is displayed.) If the EEPROM has not yet been written, "000" will be displayed.

"111" : EEPROM read successful.

"8 0" : EEPROM read un-successful.

"8 1" : There has been an error in the FM tracking filter for 87.9MHz.

"8 2" : There has been an error in the FM tracking filter for 98.1MHz.

"8 3" : There has been an error in the FM tracking filter for 107.9MHz.

"8 4" : There has been an error in the S-meter adjustment for AM.

"8 5" : There has been an error in the S-meter adjustment for FM.

"8 6" : There has been an error in the seek/stop/level adjustment for AM.

"8 7" : There has been an error in the seek/stop/level adjustment for FM.

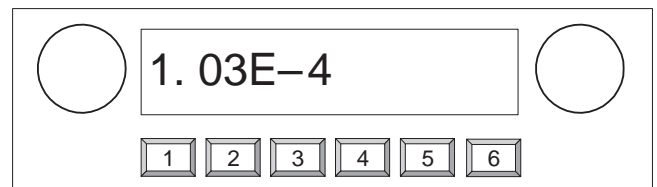
"000" : EEPROM has not yet been written.

3-3-7. BER measurement (Ez900HDS only)

BER information obtained from IDM is displayed.

Note : When making BER measurements, please be sure to input the signal for BER measurements.

- Measurement method
 1. Select "Station" in the H/U DISP switching.
 2. By pressing Preset 4 key, the unit enters the BER Measurement Mode and "10s Wait" message is displayed.
 3. After 10 seconds, a value will be displayed. When there is no error, "0.0E-9" is displayed. Also, if the condition is such that the BER test cannot be conducted, "No Test" will be displayed.

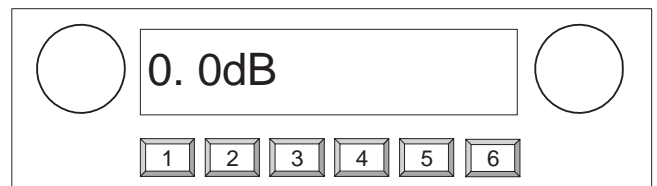


3-3-8. IBOC gain adjustment (Ez900HDS only)

The IBOC gain is adjusted by the IBOC Scaling of the BBP (7730). The objective of this adjustment is to make the analog and digital levels the same.

- Adjustment Method
 1. Select "Station" in the H/U DISP switching.
 2. By pressing Preset 5 key, the unit enters the adjustment mode and the current value is displayed.
 3. Using ◀◀ ▶▶ (UP/DOWN) key, adjust the levels. (By a short-push, 1 bit is adjusted. By a long-push, 8 bit as a unit is adjusted with 100ms interval.)
 4. With a long-push of Preset 5 key, the selection is finalized and it is written to EEPROM.
 5. When the writing is completed, "GAIN END" is displayed.
 6. The values of the IBOC gain values are immediately effective and the values are read off the EEPROM at the time of booting.

Note : At the time of IBOC gain adjustment, the unit must be in digital signal reception condition.



Ez700SR/Ez900HDS

ADJUSTMENT

● Calibration on the Fan Operation Temperature

1. Objective

In order to reduce the soiling of the CD mechanism pick, the fan operation has been made intermittent-type, driven by temperature monitoring. Due to variances among parts, however, the operating temperature of fan also varies. Adjustments are needed, therefore, in terms of the temperature calibration.

2. Subject parts with variances

TH1 posistor
IC205 Power IC
Q202 transistor

3. Adjustment timing and method

- When conducting the adjustment, the ambient temperature should be 15~30°C.
- The sets to be adjusted should be left in the temperature range for some time, in order to make the temperature of the sets fall within the temperature range.
- Refer to the table below for adjustment method.

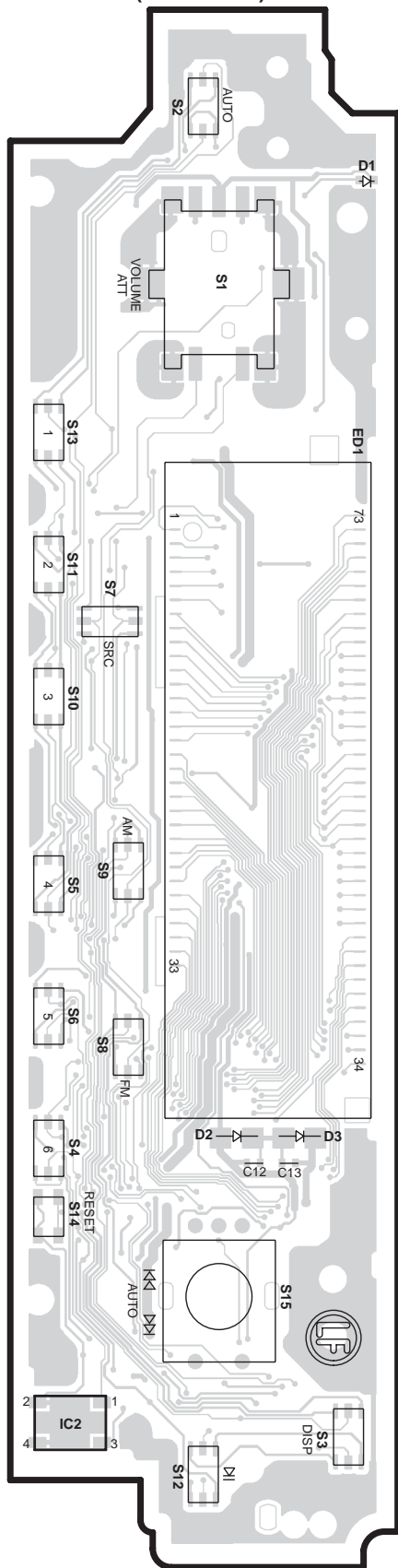
Conditions for Adjustment	Adjustment Method	Note
At the time of replacing parts on Item 2.	1. Boot in the test mode. 2. Select SIRIUS source 3. Long-push Preset "1" key.	Conduct adjustment as quickly as possible after turning power on. (Less than a minute) Note1)

Note1) If and when there is more than a minute after turning the power is turned on a set, wait till the heat sink on the back cools or cool the heat sink using a fan. (Cool to temperature below 30°C. Until slight coolness can be felt on your hand.) Then, restart adjustment. Also, when replacing TH1 posistor, wait till this part cools. (Rule of thumb is about 10 minutes.)

When finding out that a wrong adjustment action has been taken, adjust again following the above (2) and (3) procedures.

PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT
X16-2960-10 (J76-0036-12)

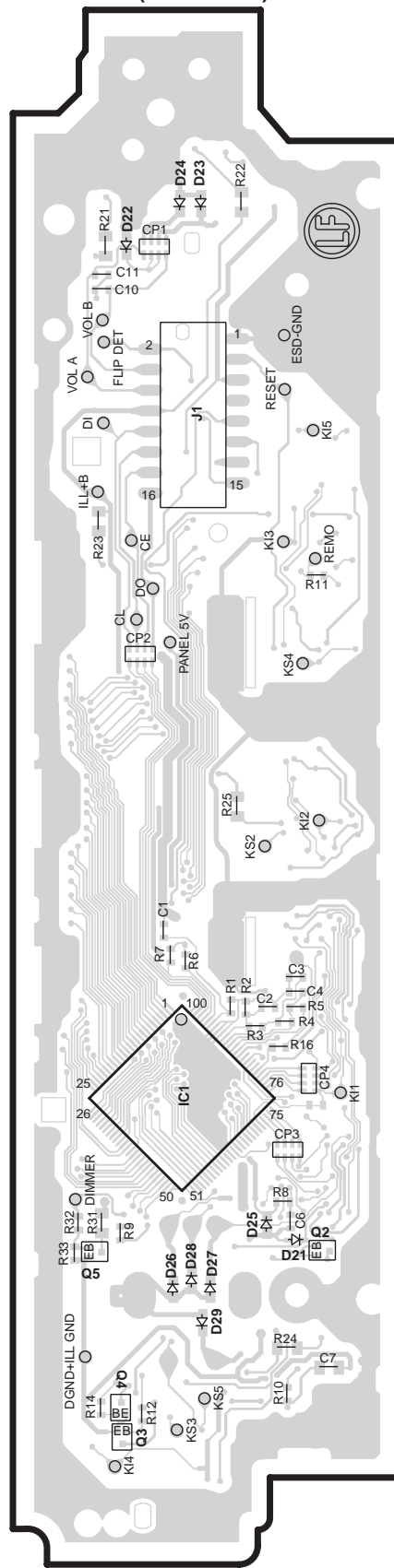


X16-2960-10

Ref. No.	Address
IC2	7A

(FOIL SIDE VIEW)

SWITCH UNIT
X16-2960-10 (J76-0036-12)

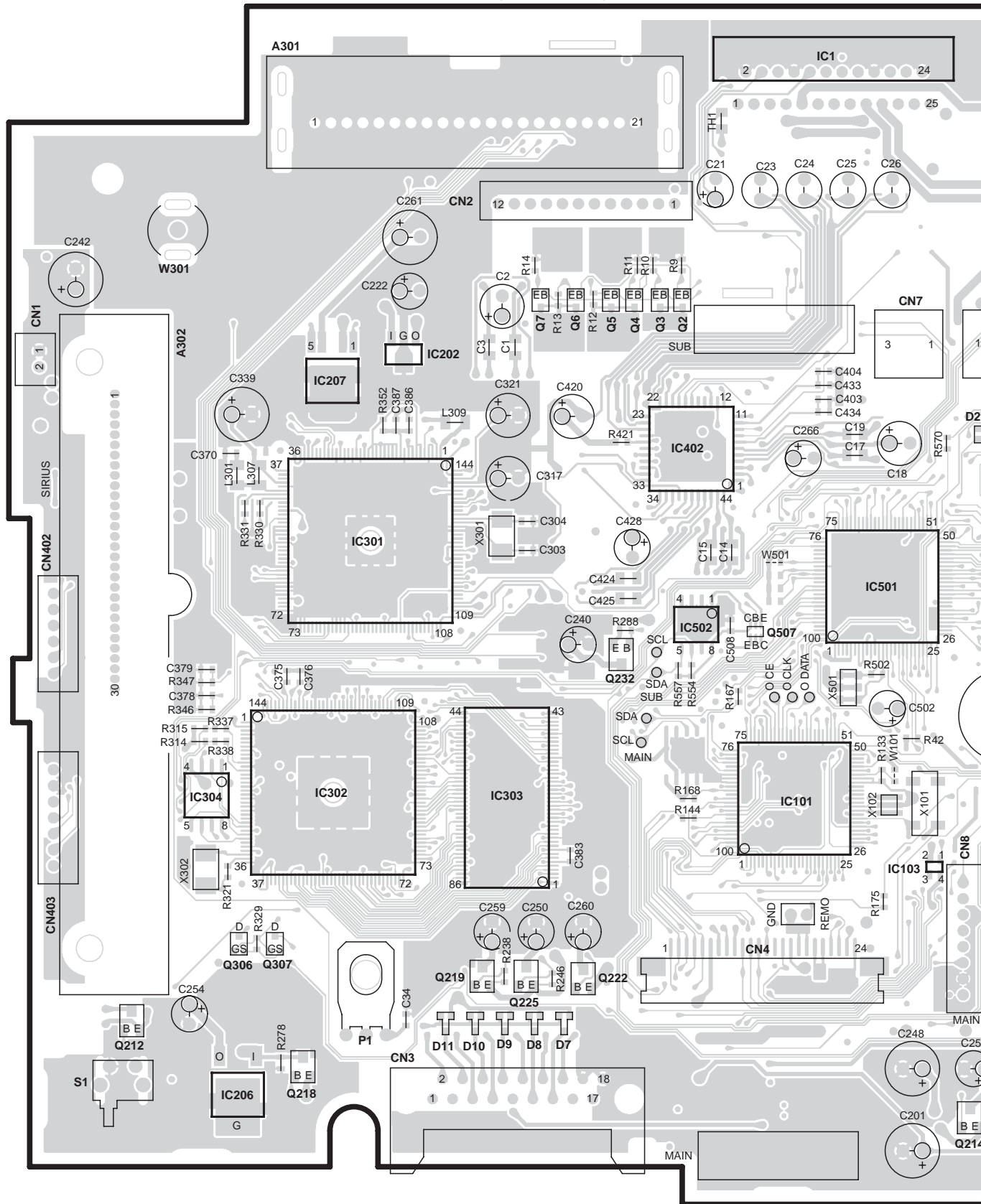


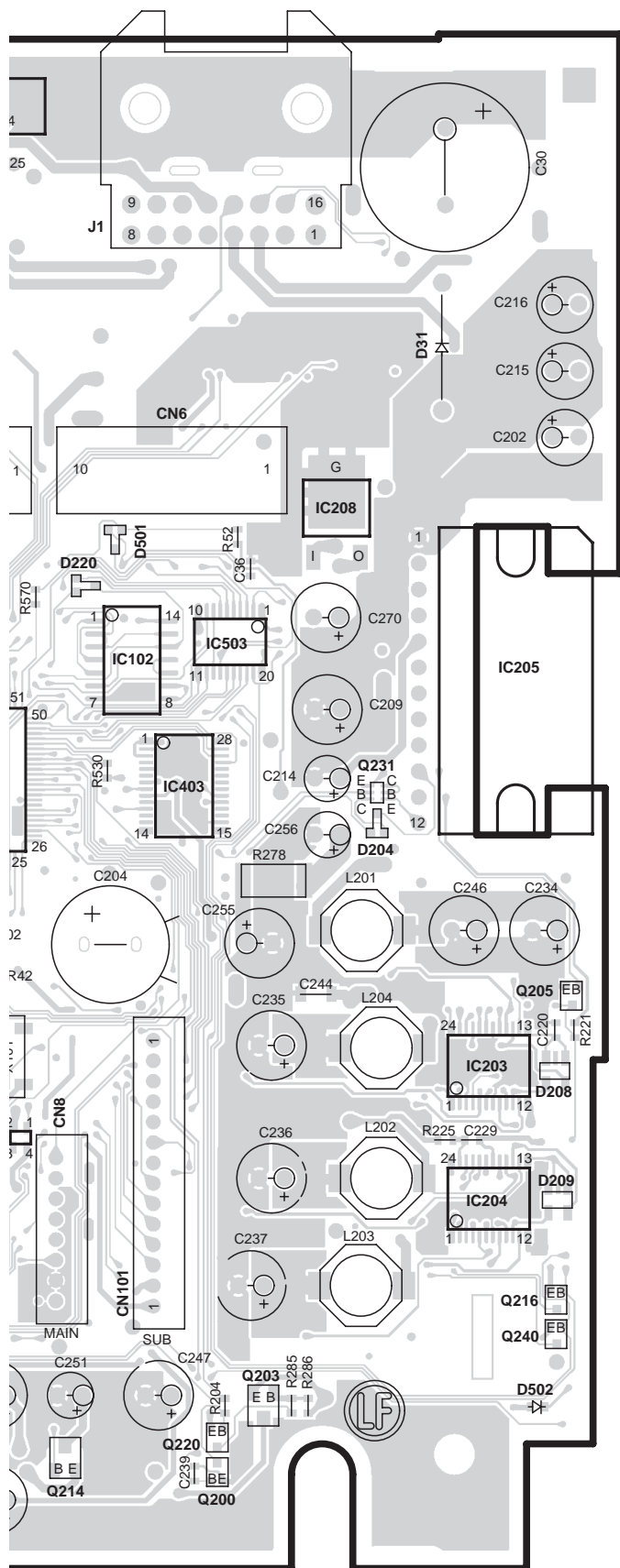
X16-2960-10

Ref. No.	Address
IC1	5D
Q2	6D
Q3	7C
Q4	6C
Q5	6C

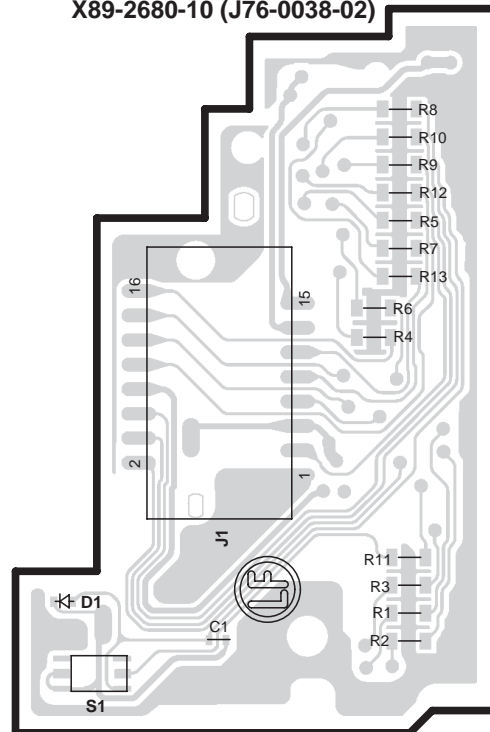
Ez700SR/Ez900HDS PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT X34-3340-1x (J76-0031-12)





DAUGHTER UNIT X89-2680-10 (J76-0038-02)



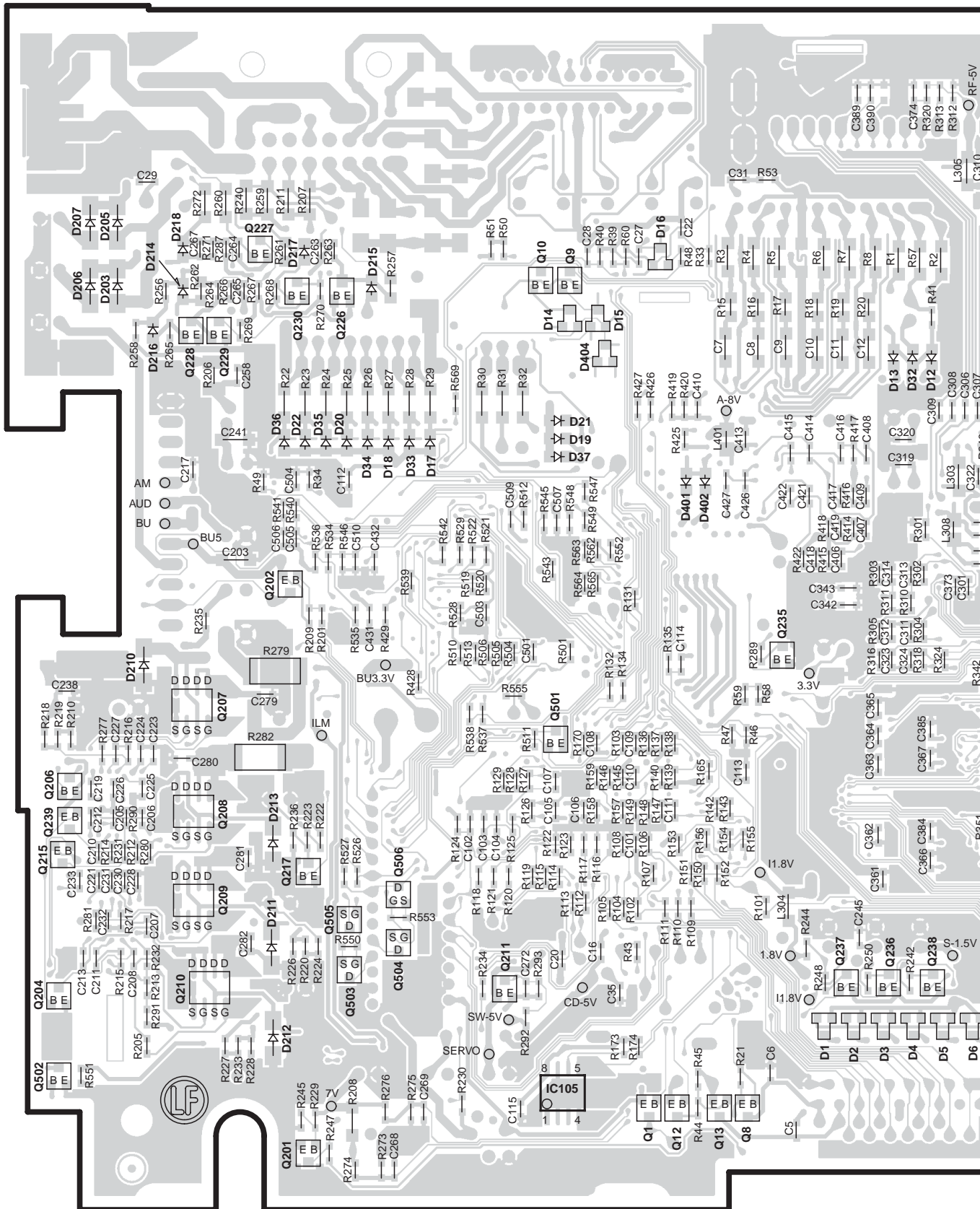
X34-3340-1x

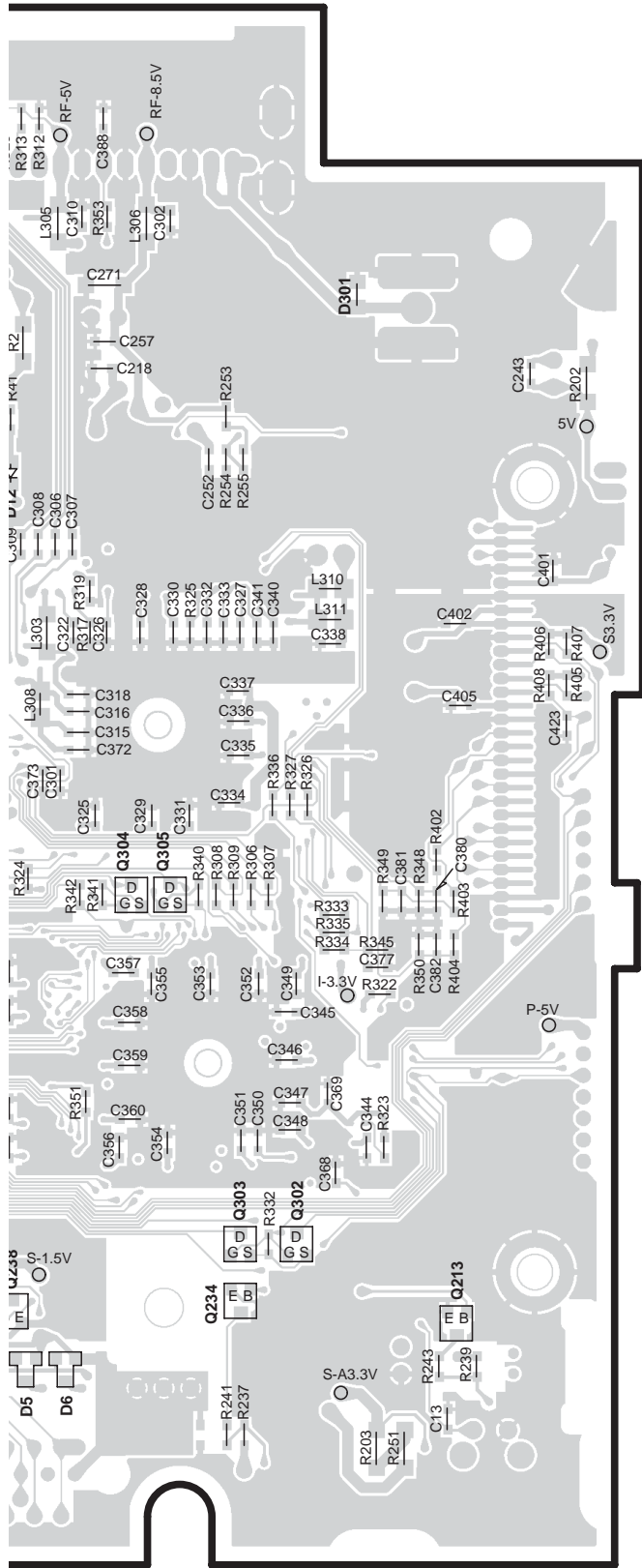
Ref. No.	Address	Ref. No.	Address
IC1	2J	Q4	3I
IC101	5J	Q5	3I
IC102	4K	Q6	3I
IC103	5J	Q7	3H
IC202	3H	Q200	7K
IC203	5L	Q203	6K
IC204	6L	Q205	5L
IC205	4L	Q212	6F
IC206	6G	Q214	7K
IC207	3G	Q216	6L
IC208	3L	Q218	6G
IC301	4H	Q219	6H
IC302	5G	Q220	6K
IC303	5H	Q222	6I
IC304	5G	Q225	6H
IC402	3I	Q231	4L
IC403	4K	Q232	4I
IC501	4J	Q240	6L
IC502	4I	Q306	6G
IC503	4K	Q307	6G
Q2	3I	Q507	4J
Q3	3I		

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

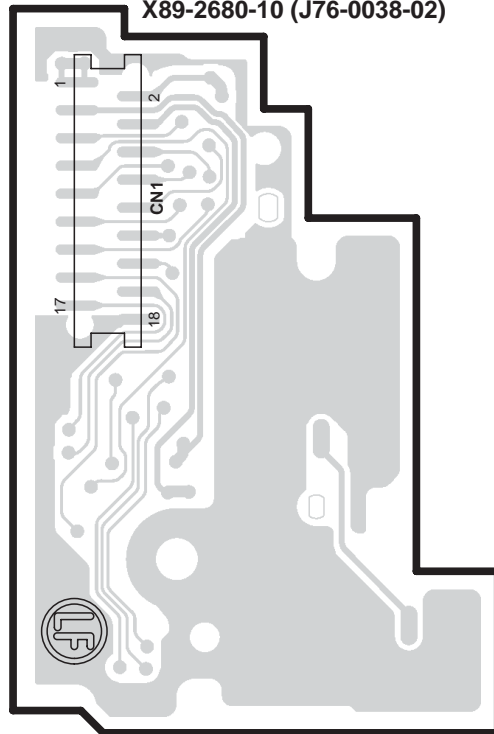
Ez700SR/Ez900HDS PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-3340-1x (J76-0031-12)





**DAUGHTER UNIT
X89-2680-10 (J76-0038-02)**



X34-3340-1x

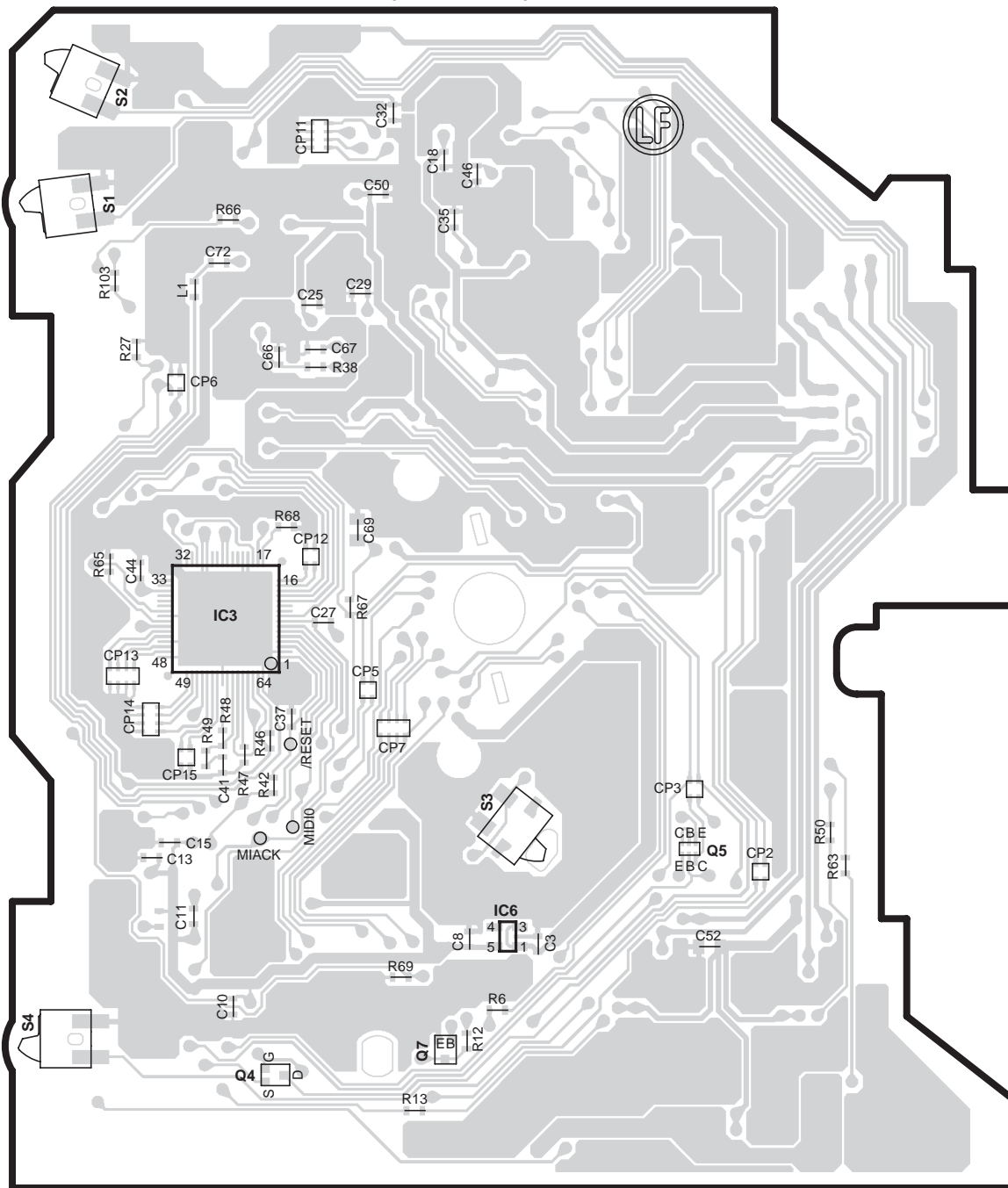
Ref. No.	Address	Ref. No.	Address
IC105	6S	Q227	2Q
Q1	7S	Q228	3Q
Q8	7S	Q229	3Q
Q9	3S	Q230	3Q
Q10	3R	Q234	6U
Q12	7S	Q235	4T
Q13	7S	Q236	6T
Q201	7Q	Q237	6T
Q202	4Q	Q238	6T
Q204	6P	Q239	5P
Q206	5P	Q302	6V
Q207	5Q	Q303	6U
Q208	5Q	Q304	4U
Q209	5Q	Q305	4U
Q210	6Q	Q501	5R
Q211	6R	Q502	6P
Q213	6V	Q503	6R
Q215	5P	Q504	6R
Q217	5Q	Q505	6Q
Q226	3Q	Q506	5R

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

Ez700SR/Ez900HDS

PC BOARD (COMPONENT SIDE VIEW)

CD PLAYER UNIT X32-5540-02 (J74-1602-12)



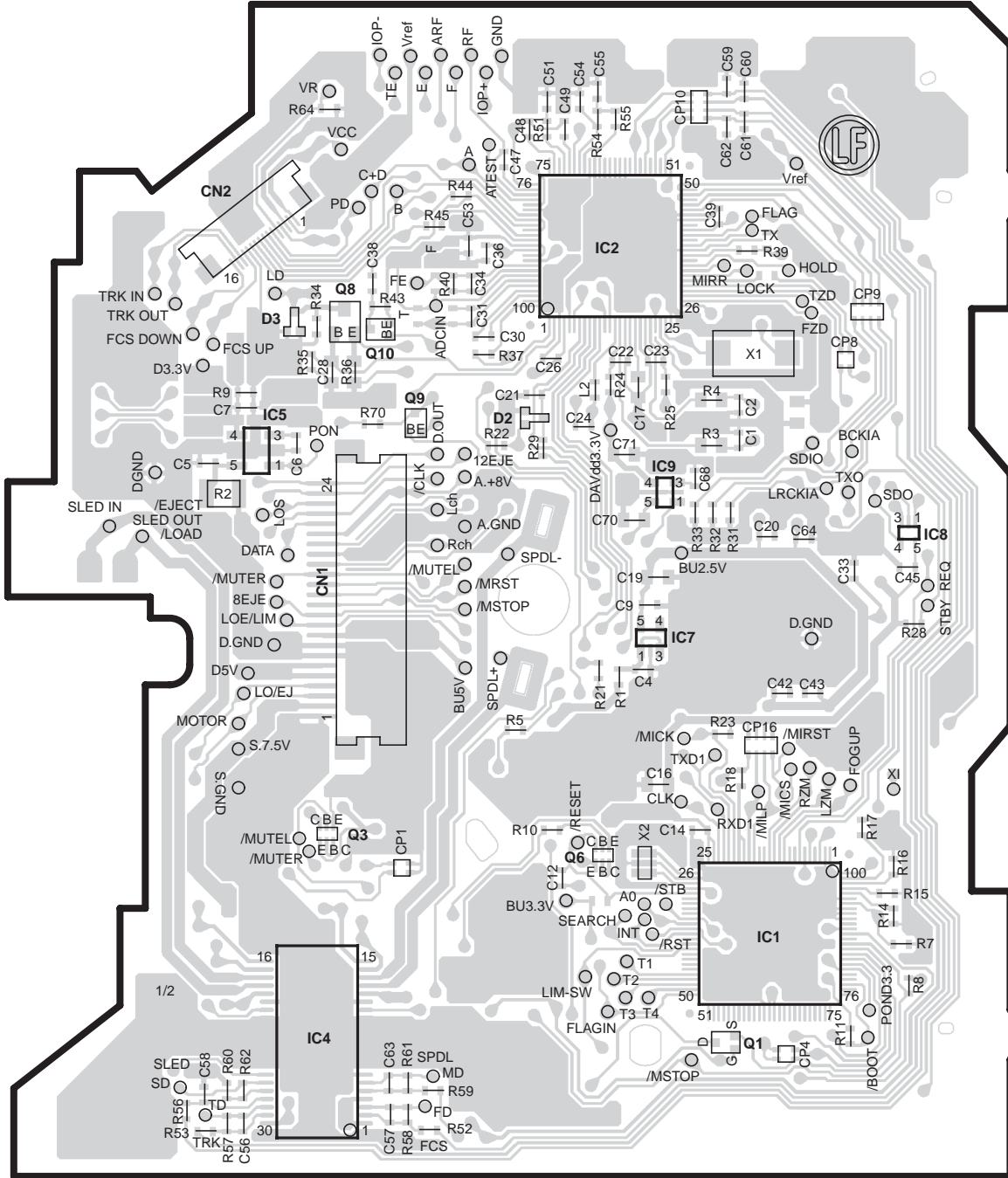
X32-5540-02

Ref. No.	Address
IC3	4AA
IC6	5AB
Q4	5AA
Q5	5AC
Q7	5AB

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

PC BOARD (FOIL SIDE VIEW)

CD PLAYER UNIT X32-5540-02 (J74-1602-12)

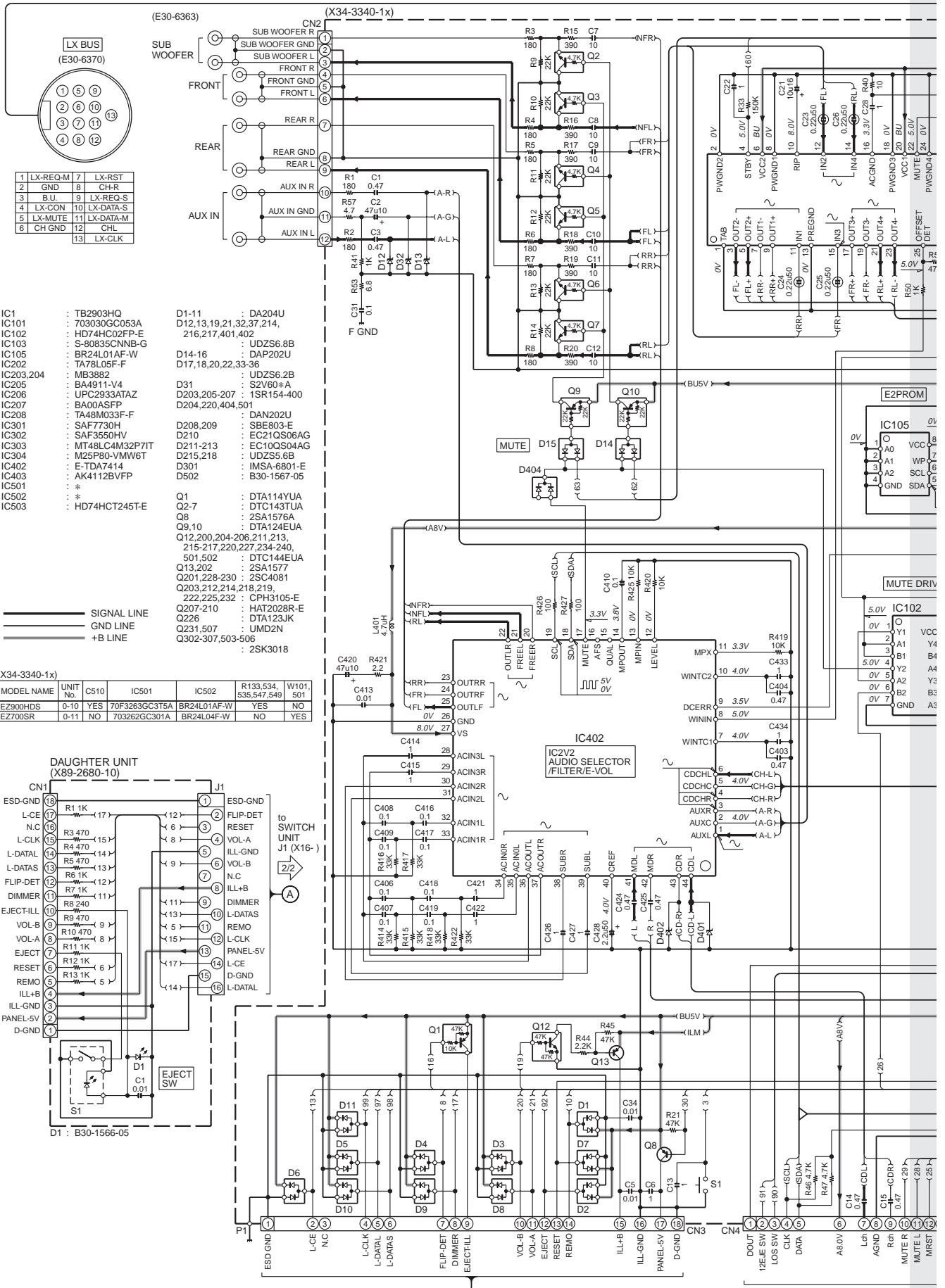


X32-5540-02

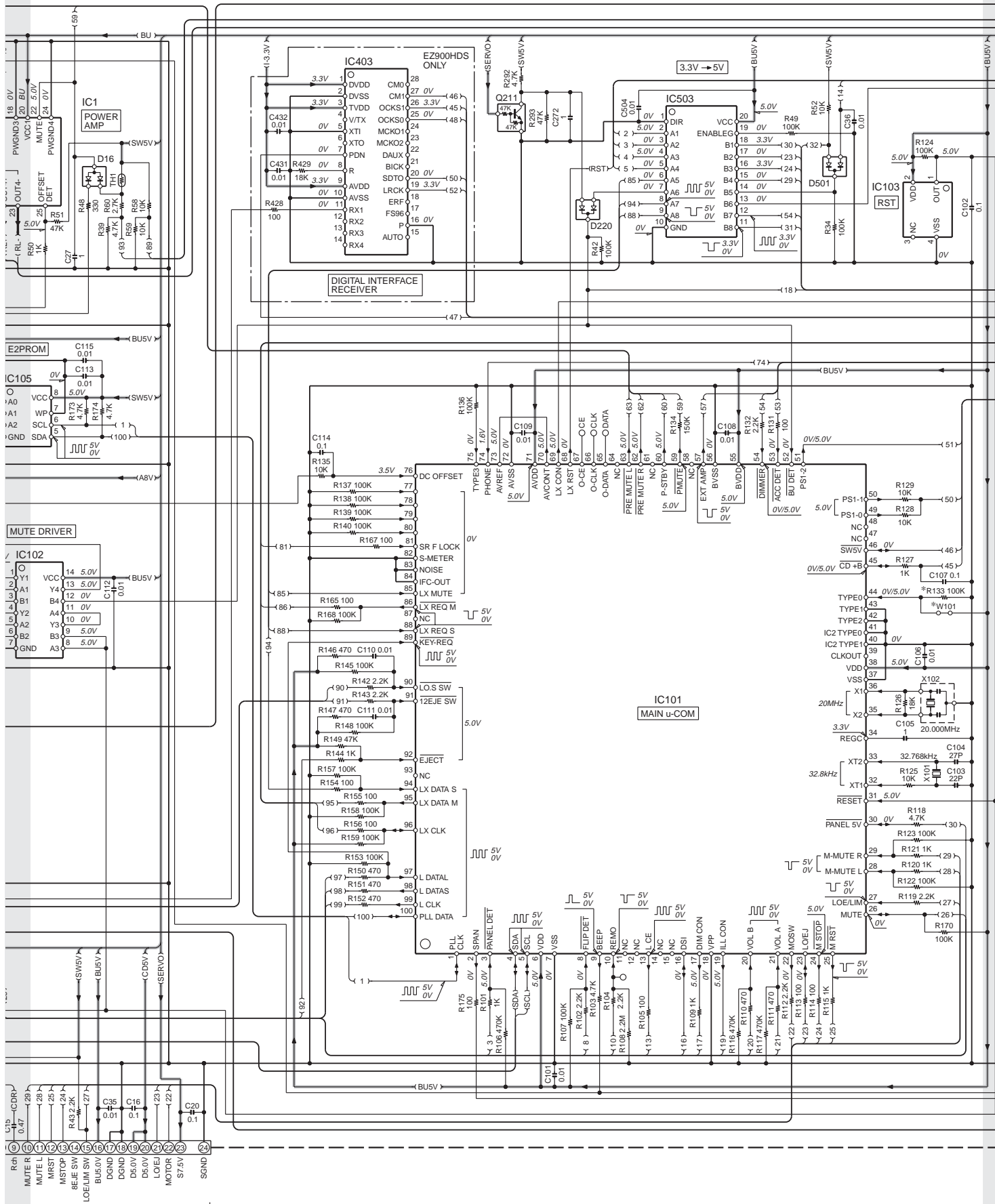
Ref. No.	Address	Ref. No.	Address
IC1	5AH	Q1	5AH
IC2	2AG	Q3	5AF
IC4	5AF	Q6	5AG
IC5	3AF	Q8	2AF
IC7	4AG	Q9	3AF
IC8	3AH	Q10	3AF
IC9	3AG		

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

Ez700SR/Ez900HDS

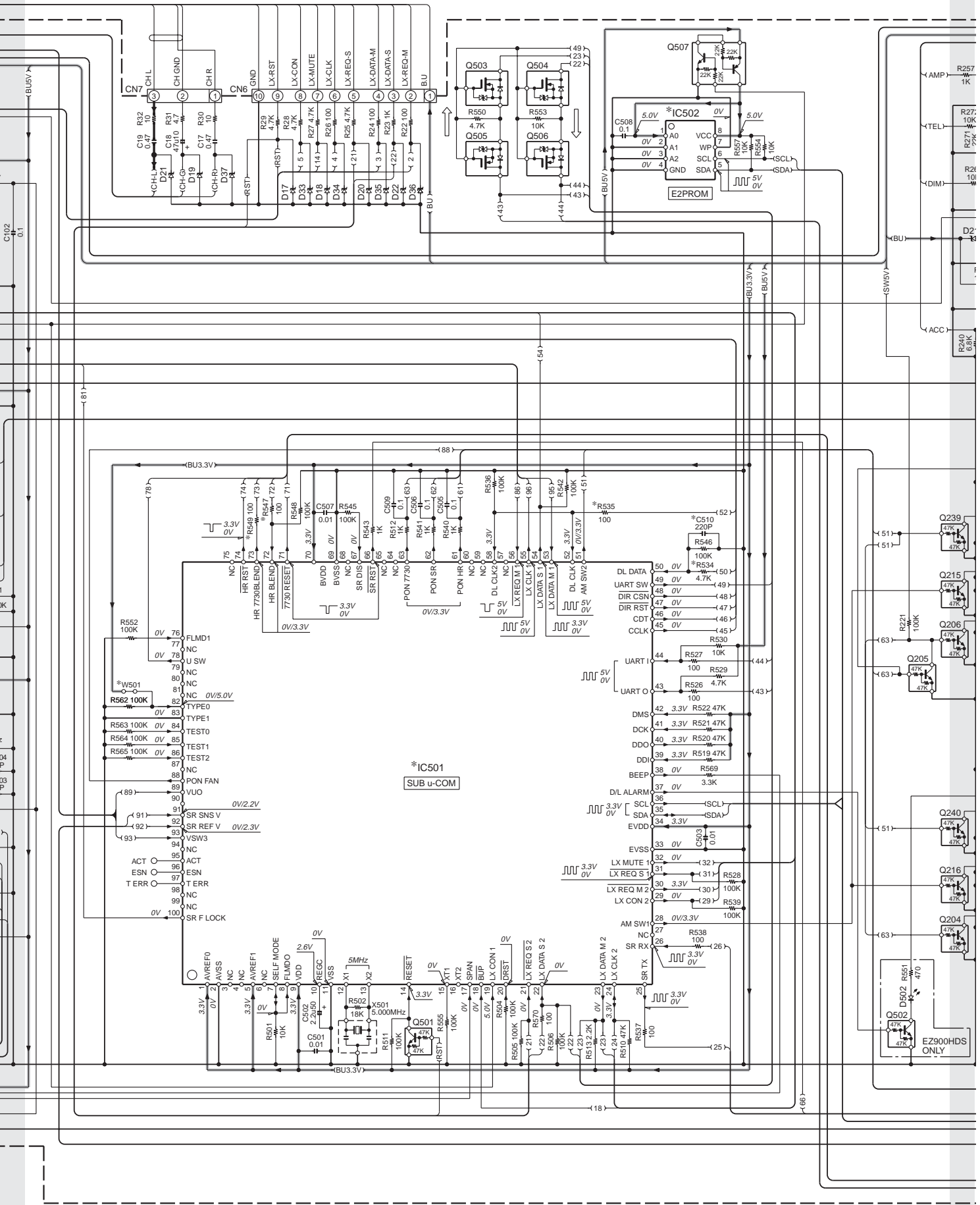


Ez700SR/Ez900HDS

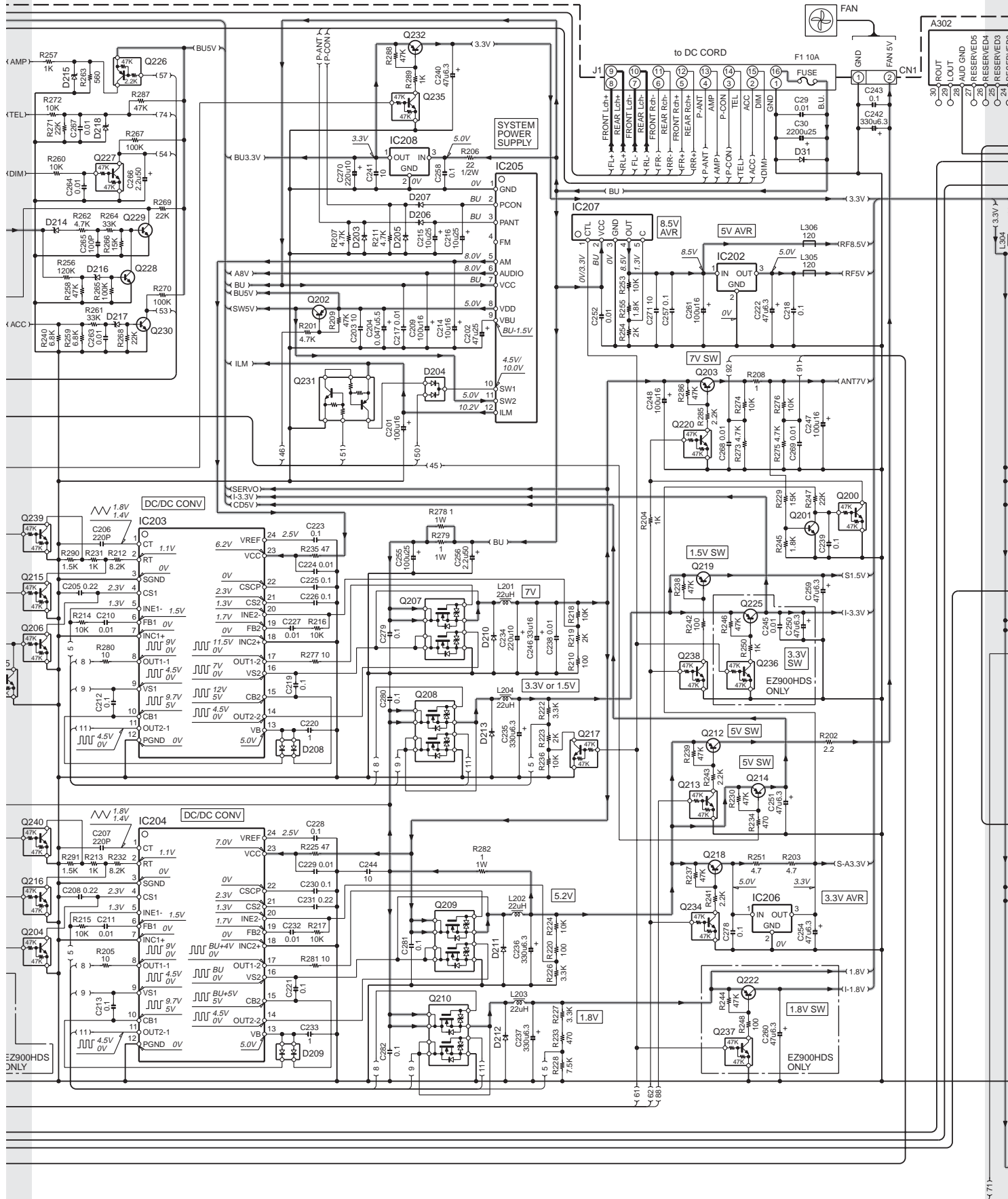


A (X92-5120-00) (X32-5540-02)

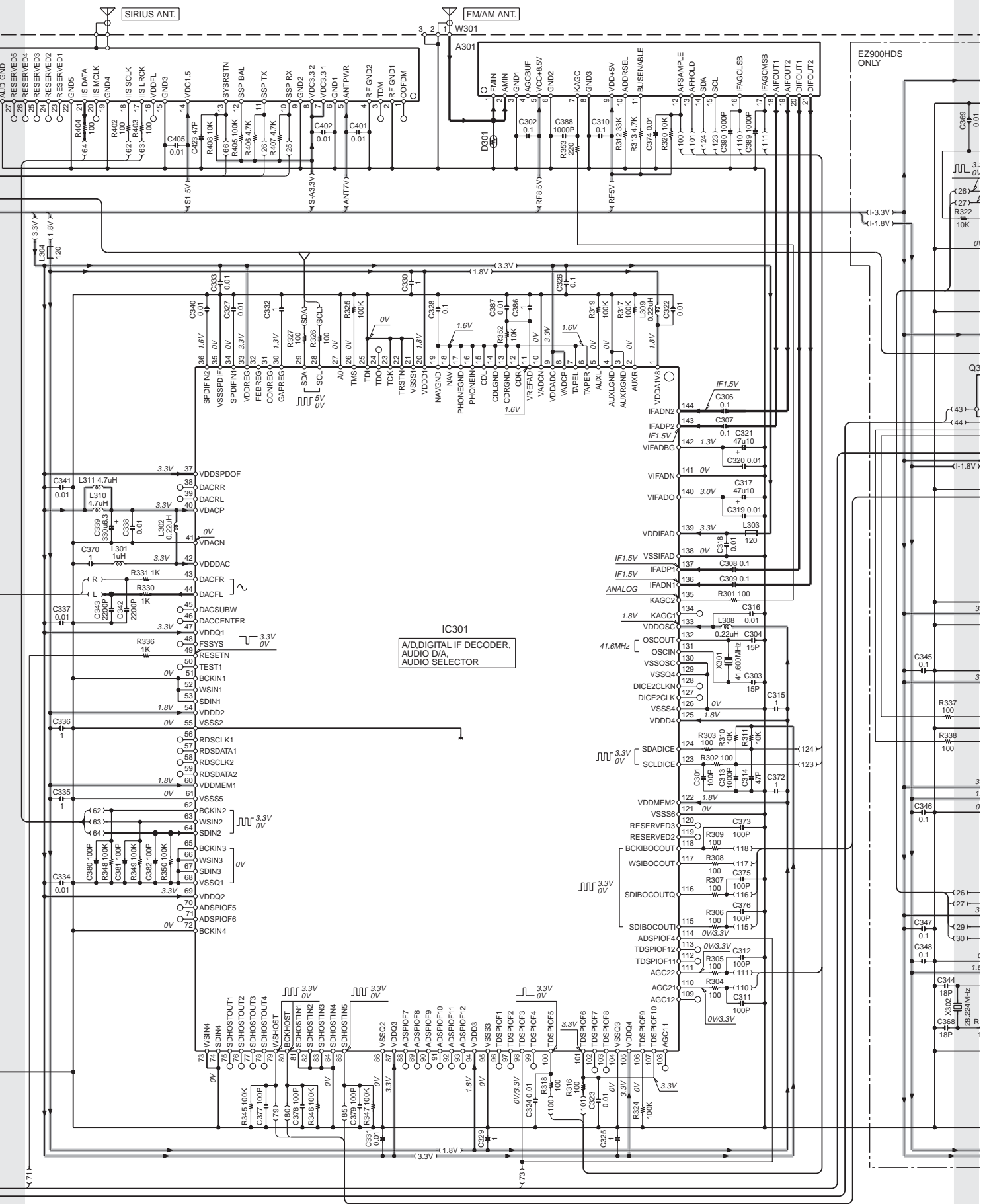
Ez700SR/Ez900HDS



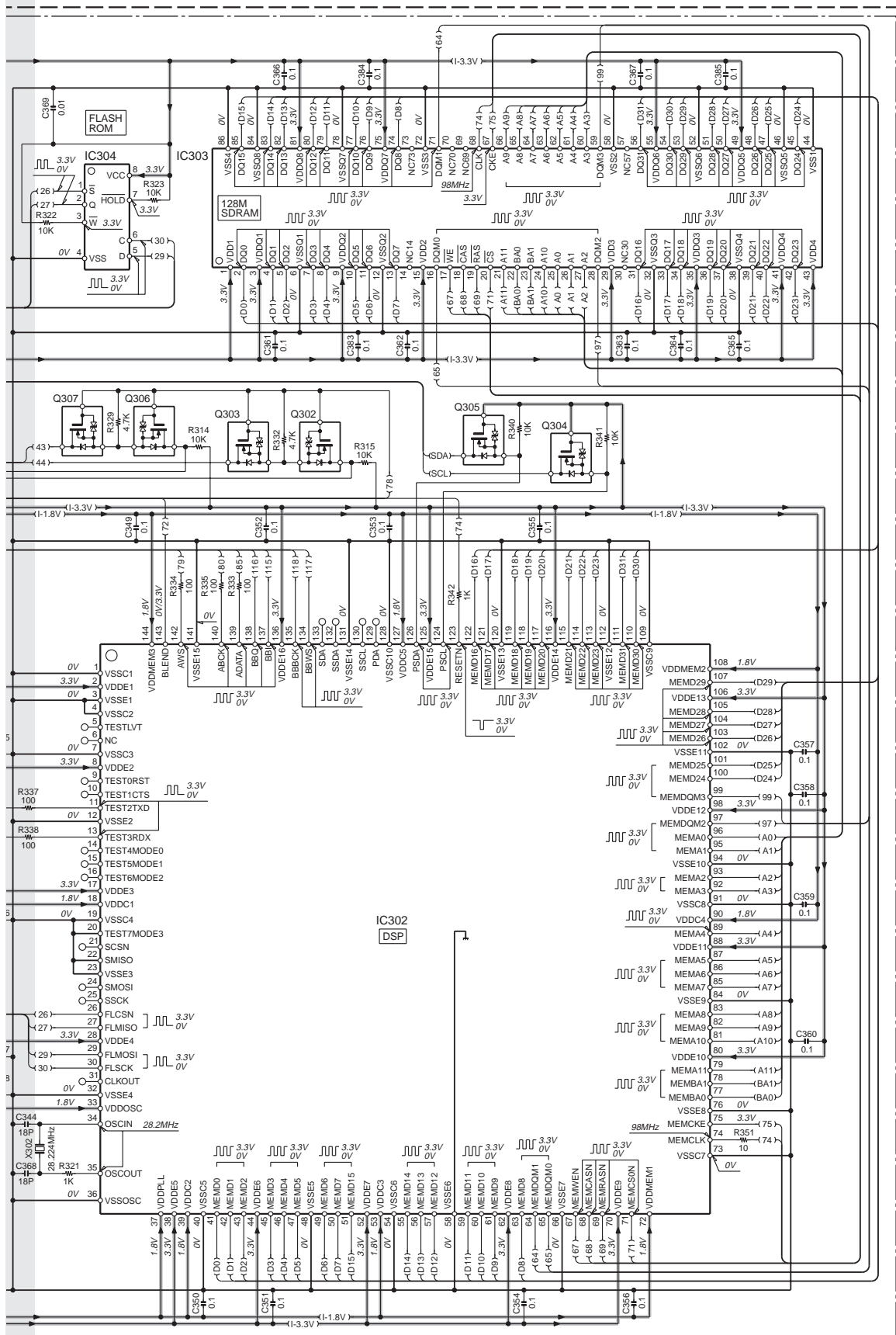
Ez700SR/Ez900HDS



Ez700SR/Ez900HDS



Ez700SR/Ez900HDS



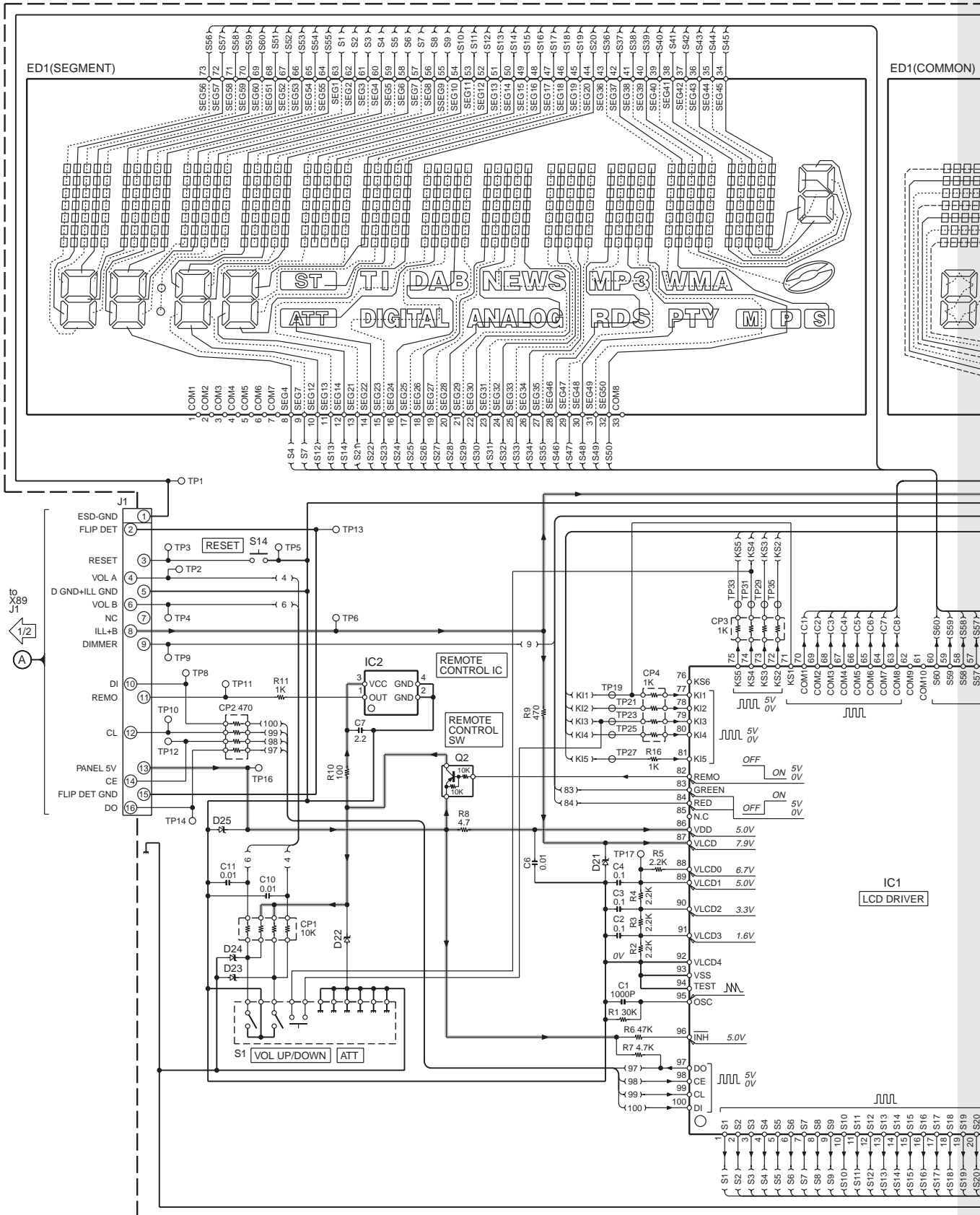
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ 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.

Ez700SR/Ez900HDS

SWITCH UNIT (X16-2960-10)

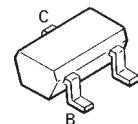


Ez700SR/Ez900HDS

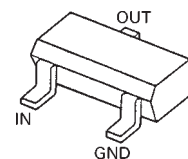
DTA114EE
DTA123JK
DTC114YUA
DTC143TUA
2SA1576A
2SC4617



2SC4081



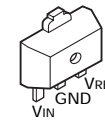
DTA124EUA
DTC124EUA
DTC144EUA



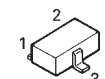
DAN202U



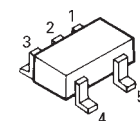
TA78L05F-F



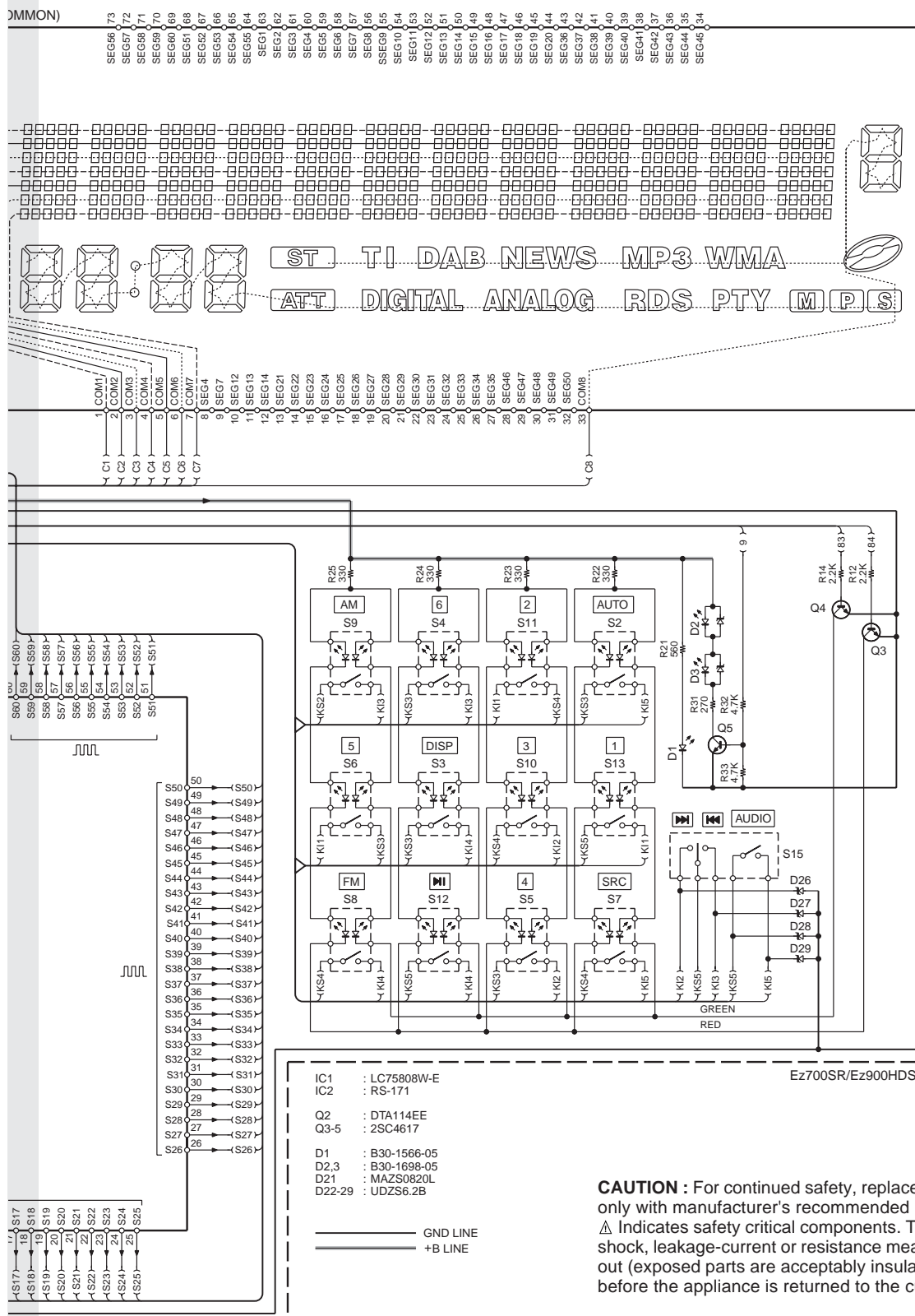
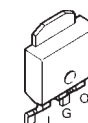
DAP202U
DA204U
DTA114YUA



TC7SH08FU



TA48M033F-F

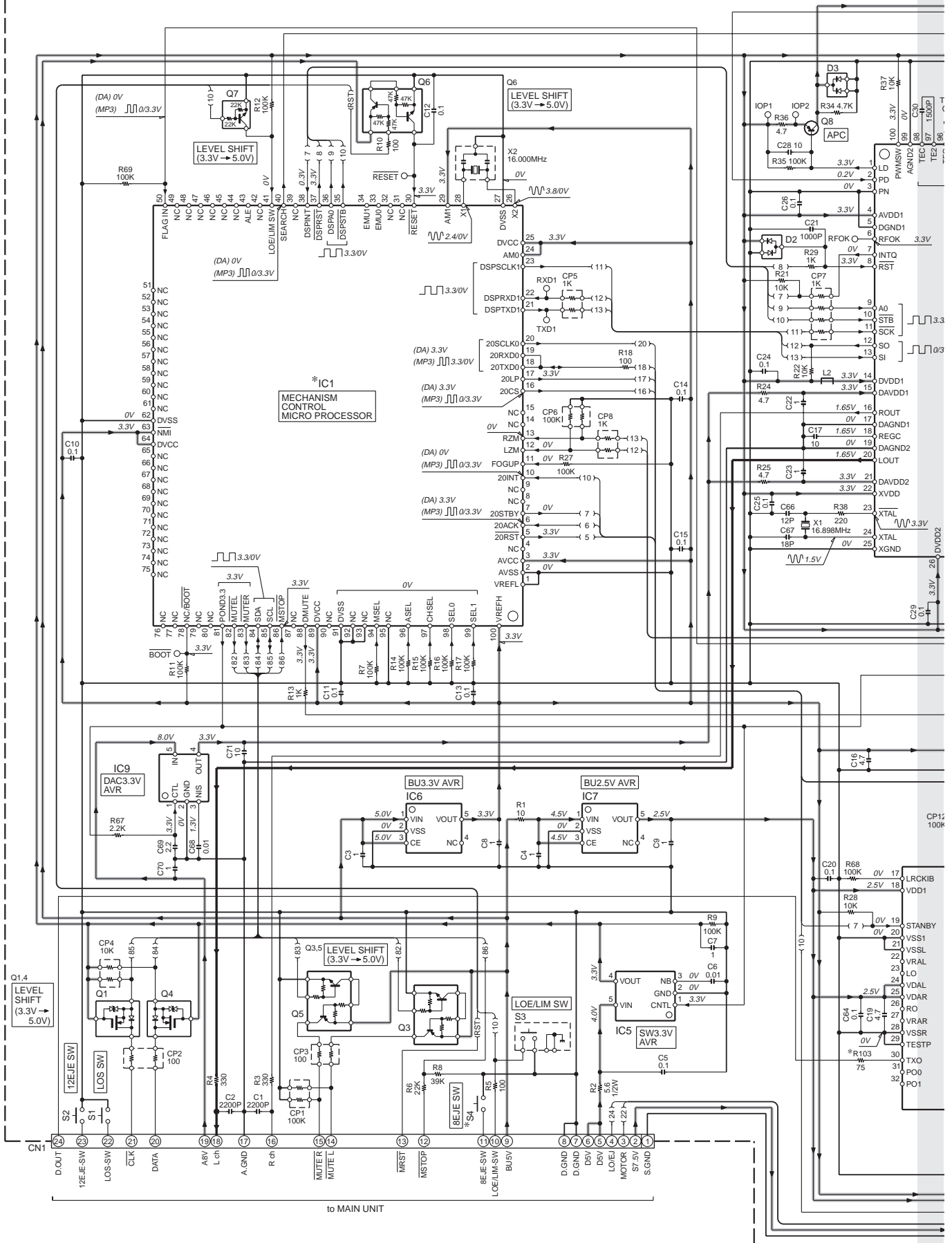


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably 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.

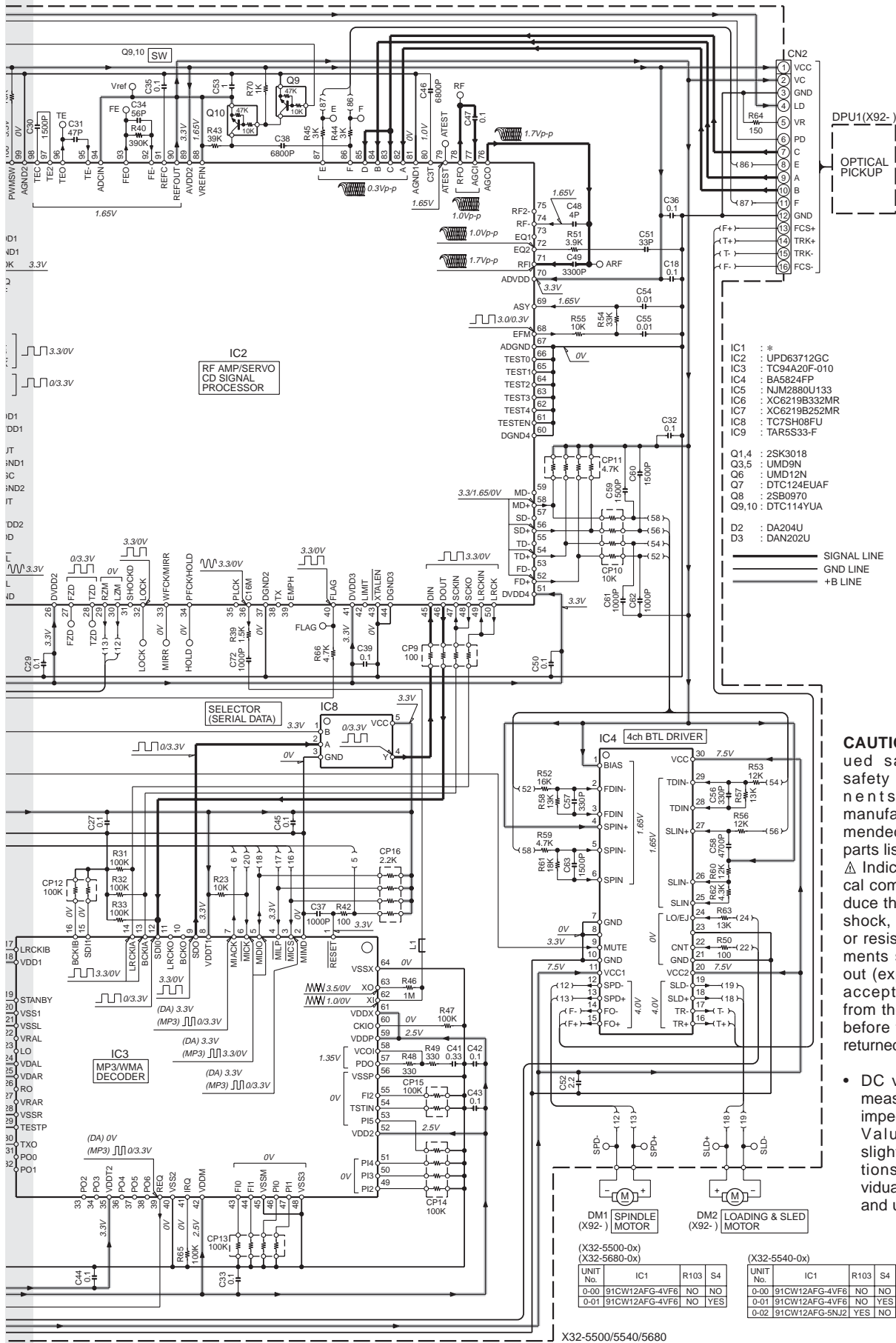
Ez700SR/Ez900HDS

CD PLAYER UNIT (X32-5500-0x/X32-5540-0x/5680-0x)



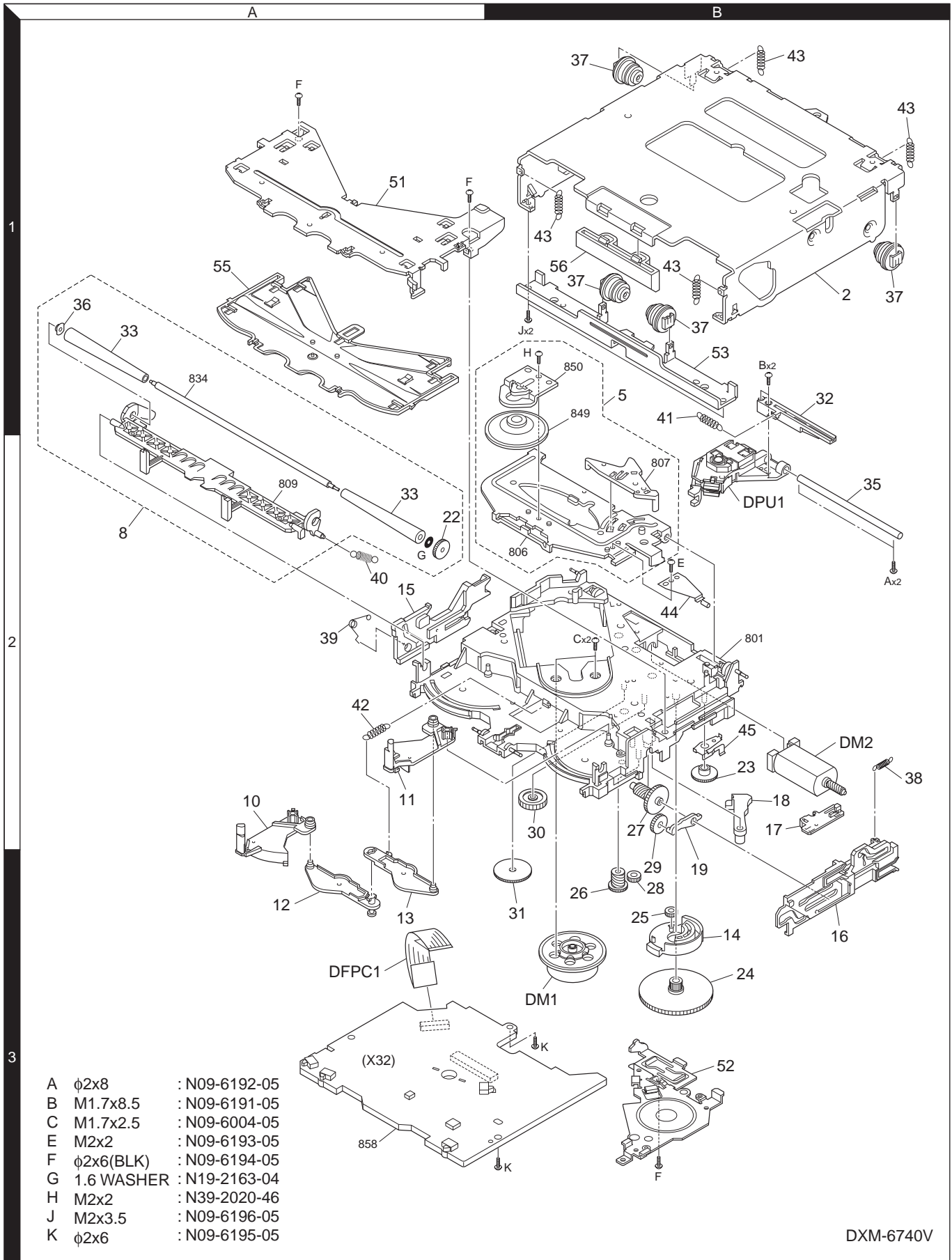
to MAIN UNIT

Ez700SR/Ez900HDS



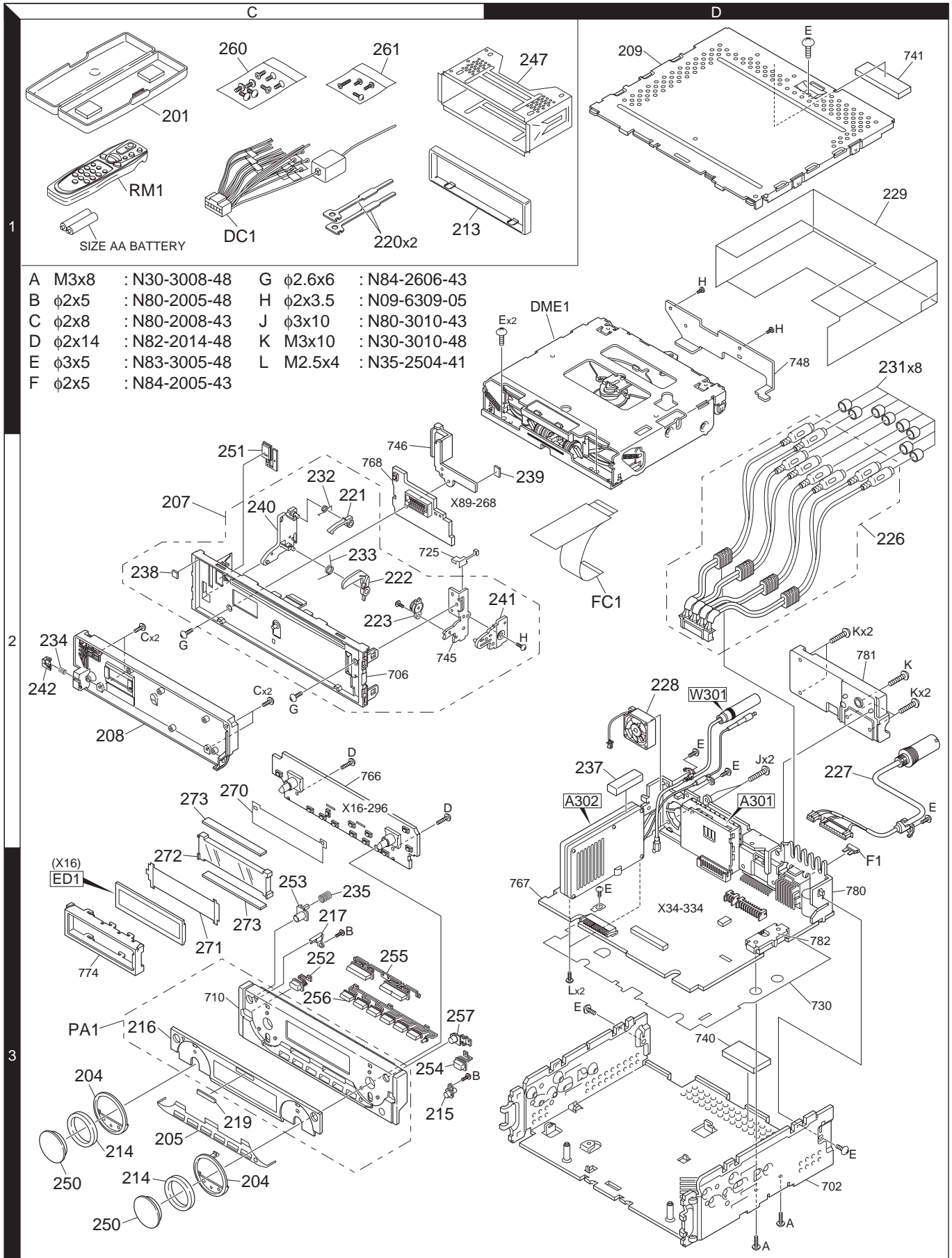
Ez700SR/Ez900HDS

EXPLODED VIEW (CD MECHANISM)



Ez700SR/Ez900HDS

EXPLODED VIEW (UNIT)



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

Ez700SR/Ez900HDS

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	Desti- nation
Ez700SR/Ez900HDS					
201	1C		A02-2735-03	PLASTIC CABINET ASSY	
204	3C		A21-4377-03	DRESSING PANEL (RING)	
205	3C		A21-4378-13	DRESSING PANEL (ALUMINUM)	
207	2C		A22-3061-02	SUB PANEL ASSY	
208	2C		A46-1797-01	REAR COVER	
209	1D	*	A52-0858-02	TOP PLATE	
PA1	3C	*	A64-3386-22	PANEL ASSY	K
PA1	3C	*	A64-3417-22	PANEL ASSY	K1
RM1	1C		A70-2059-05	REMOTE CONTROLLER ASSY (RC-505)	
-			B46-0100-50	WARRANTY CARD	
-			B46-0606-04	ID CARD	
-		*	B64-3019-00	INSTRUCTI.MANUAL (ENG.FRE.SPA.)	
213	1C		B07-3117-02	ESCUTCHEON	
214	3C		B09-0537-03	CAP	
215	3C		B10-4585-04	FRONT GLASS (REMOTE)	
216	3C	*	B10-4581-02	FRONT GLASS	K
216	3C	*	B10-4592-02	FRONT GLASS	K1
217	3C		B19-2283-04	LIGHTING BOARD	
219	3C		B43-1518-04	BADGE	
220	1C		D10-4589-04	LEVER	
221	2C		D10-4730-03	LEVER (LOCK)	
222	2C		D10-4731-03	LEVER (PUSH)	
223	2C		D39-0255-05	DAMPER	
226	2D	*	E30-6363-05	CORD WITH PINPLUG (RCA, AUX)	
227	2D	*	E30-6370-05	CORD WITH PLUG (13P)	
DC1	1C	*	E30-6364-05	DC CORD	
FC1	2D	*	E39-0734-05	FLAT CABLE (24PIN)	
228	2D	*	F09-1914-05	FAN	
229	1D	*	F09-1978-02	SHEET	
231	1D		F29-0049-05	INSULATING COVER	
△ F1	2D		F52-0006-05	FUSE (MINI BLADE TYPE) (10A)	
232	2C		G01-3171-04	TORSION COIL SPRING (LOCK)	
233	2C		G01-3172-04	TORSION COIL SPRING (PUSH)	
234	2C		G01-3173-04	COMPRESSION SPRING (REAR COVER)	
235	3C		G01-3203-04	COMPRESSION SPRING	
237	2D	*	G11-3644-04	CUSHION	
238	2C		G13-1267-04	CUSHION	
239	2D		G13-1273-04	CUSHION	
-		*	H10-4927-02	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		*	H25-1213-04	PROTECTION BAG	
-		*	H54-3183-03	ITEM CARTON CASE	K
-		*	H54-3232-03	ITEM CARTON CASE	K1
240	2C		J19-5203-03	HOLDER (LEFT)	
241	2C		J19-5204-03	HOLDER (RIGHT)	
242	2C		J19-5205-03	HOLDER (REAR COVER)	
247	1D		J22-0011-03	MOUNTING HARDWARE ASSY	
250	3C		K23-1091-03	KNOB (VOL)	
251	2C		K24-4000-03	PUSH KNOB (EJECT)	
252	3C		K24-4196-03	PUSH KNOB (AUTO)	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
253	3C	*	K24-4197-14	PUSH KNOB (REL)	
254	3C		K24-4198-03	PUSH KNOB (PLAY)	
255	3C		K25-1671-02	PUSH KNOB (SRC/AM, FM)	
256	3C		K25-1672-02	PUSH KNOB (PRESET)	
257	3C	*	K29-7111-14	KNOB ASSY (DISP ASSY)	
260	1C		N99-1757-05	SCREW SET	
261	1C	*	N99-1764-05	SCREW SET	
A	3D		N30-3008-48	PAN HEAD MACHINE SCREW	
B	3C		N80-2005-48	PAN HEAD TAPTITE SCREW (2X5)	
C	2C		N80-2008-43	PAN HEAD TAPTITE SCREW (2X8)	
D	2C		N82-2014-48	BIND HEAD TAPTITE SCREW (2X14)	
E	1D		N83-3005-48	PAN HEAD TAPTITE SCREW (3X5, B)	
F	2C		N84-2005-43	PAN HEAD TAPTITE SCREW (2X5)	
G	2C		N84-2606-43	PAN HEAD TAPTITE SCREW (2.6X6)	
H	1D	*	N09-6309-05	TAPTITE SCREW	
J	2D		N80-3010-43	PAN HEAD TAPTITE SCREW (3X10)	
DME1	1D	*	X92-5120-00	CD MECHANISM ASSY (DXM-6740V)	
SWITCH UNIT (X16-2960-10)					
270	2C		B11-1463-04	REFLECTION SHEET	
271	3C		B11-1464-04	OPTICAL DIFFUSER	
272	2C		B19-2276-03	LIGHTING BOARD	
D1			B30-1566-05	LED (1608,RED)	
D2,3			B30-1698-05	LED	
ED1			B38-1159-05	LCD	
C1			CK73GB1H102K	CHIP C 1000PF	K
C2-4			CK73GB1C104K	CHIP C 0.10UF	K
C6			CK73GB1H103K	CHIP C 0.010UF	K
C7			CK73FB1A225K	CHIP C 2.2UF	K
C10,11			CK73GB1H103K	CHIP C 0.010UF	K
273	2C		E29-2015-04	CONDUCTIVE RUBBER	
J1			E59-0843-05	RECTANGULAR PLUG	
CP1			R90-0714-05	MULTI-COMP 10K X4	
CP2			R90-1016-05	MULTI-COMP 470 X4	
CP3,4			R90-0724-05	MULTI-COMP 1K X4	
R1			RK73GB2A303J	CHIP R 30K	J 1/10W
R2-5			RK73GB2A222J	CHIP R 2.2K	J 1/10W
R6			RK73GB2A473J	CHIP R 47K	J 1/10W
R7			RK73GB2A472J	CHIP R 4.7K	J 1/10W
R8			RK73GB2A4R7J	CHIP R 4.7	J 1/10W
R9			RK73GB2A471J	CHIP R 470	J 1/10W
R10			RK73GB2A101J	CHIP R 100	J 1/10W
R11			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R12			RK73GB2A222J	CHIP R 2.2K	J 1/10W
R14			RK73GB2A222J	CHIP R 2.2K	J 1/10W
R16			RK73GB2A102J	CHIP R 1.0K	J 1/10W
R21			RK73FB2B561J	CHIP R 560	J 1/8W
R22-25			RK73FB2B331J	CHIP R 330	J 1/8W
R31			RK73FB2B271J	CHIP R 270	J 1/8W
R32,33			RK73GB2A472J	CHIP R 4.7K	J 1/10W
S2-13			S70-0856-05	TACT SWITCH	
S14			S70-0901-05	TACT SWITCH	
S15			S68-0888-05	PUSH SWITCH	

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-2960-10)

Ref. No.	Add	New	Parts No.	Description	Destination
S1			T99-0454-05	ROTARY ENCODER	
D21		*	MAZS0820L	ZENER DIODE	
D22-29			UDZS6.2B	ZENER DIODE	
IC1			LC75808W-E	MOS-IC	
IC2			RS-171	ANALOGUE IC	
Q2			DTA114EE	DIGITAL TRANSISTOR	
Q3-5			2SC4617	TRANSISTOR	
CD PLAYER UNIT (X32-5540-02)					
C1,2			CK73GB1H222K	CHIP C 2200PF K	
C3,4			CK73GB0J105K	CHIP C 1.0UF K	
C5			CK73GB1C104K	CHIP C 0.10UF K	
C6			CK73GB1H103K	CHIP C 0.010UF K	
C7-9			CK73GB0J105K	CHIP C 1.0UF K	
C10-15			CK73GB1C104K	CHIP C 0.10UF K	
C16			CK73FB0J475K	CHIP C 4.7UF K	
C17			CK73FB0J106M	CHIP C 10UF M	
C18			CK73GB1C104K	CHIP C 0.10UF K	
C19			CK73FB0J475K	CHIP C 4.7UF K	
C20			CK73GB1C104K	CHIP C 0.10UF K	
C21			CK73GB1H102K	CHIP C 1000PF K	
C22,23			CK73GB0J105K	CHIP C 1.0UF K	
C24-27			CK73GB1C104K	CHIP C 0.10UF K	
C28			CK73FB0J106M	CHIP C 10UF M	
C29			CK73GB1C104K	CHIP C 0.10UF K	
C30			CK73GB1H152K	CHIP C 1500PF K	
C31			CC73GCH1H470J	CHIP C 47PF J	
C32,33			CK73GB1C104K	CHIP C 0.10UF K	
C34			CC73GCH1H560J	CHIP C 56PF J	
C35,36			CK73GB1C104K	CHIP C 0.10UF K	
C37			CK73GB1H102K	CHIP C 1000PF K	
C38			CK73GB1H682K	CHIP C 6800PF K	
C39			CK73GB1C104K	CHIP C 0.10UF K	
C41			CK73GB1A334K	CHIP C 0.33UF K	
C42-45			CK73GB1C104K	CHIP C 0.10UF K	
C46			CK73GB1H682K	CHIP C 6800PF K	
C47			CK73GB1C104K	CHIP C 0.10UF K	
C48			CC73GCH1H040C	CHIP C 4.0PF C	
C49			CK73GB1H332K	CHIP C 3300PF K	
C50			CK73GB1C104K	CHIP C 0.10UF K	
C51			CC73GCH1H330J	CHIP C 33PF J	
C52			CK73FB1A225K	CHIP C 2.2UF K	
C53			CK73GB0J105K	CHIP C 1.0UF K	
C54,55			CK73GB1H103K	CHIP C 0.010UF K	
C56,57			CK73GB1H331K	CHIP C 330PF K	
C58			CK73GB1H472K	CHIP C 4700PF K	
C59,60			CK73GB1H152K	CHIP C 1500PF K	
C61,62			CK73GB1H102K	CHIP C 1000PF K	
C63			CK73GB1H152K	CHIP C 1500PF K	
C64			CK73GB1C104K	CHIP C 0.10UF K	
C66			CC73GCH1H120J	CHIP C 12PF J	
C67			CC73GCH1H180J	CHIP C 18PF J	
C68			CK73GB1H103K	CHIP C 0.010UF K	
C69			CK73FB1A225K	CHIP C 2.2UF K	

Ref. No.	Add	New	Parts No.	Description	Destination
C70			CK73FB1A105K	CHIP C 1.0UF K	
C71			CK73FB0J106M	CHIP C 10UF M	
C72			CK73GB1H102K	CHIP C 1000PF K	
CN1			E41-2083-05	FLAT CABLE CONNECTOR	
CN2			E41-2068-05	FLAT CABLE CONNECTOR	
CN2			E41-2085-15	FLAT CABLE CONNECTOR	
L1,2			L92-0386-05	CHIP FERRITE	
X1			L77-2808-05	CRYSTAL RESONATOR (16.897849MHZ)	
X2			L78-0896-05	RESONATOR (16.00MHZ)	
CP1			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP2,3			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP4			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP5			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP6			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP7			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
CP8			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP9			RK74GB1J101J	CHIP-COM 100 J 1/16W	
CP10			RK74GB1J103J	CHIP-COM 10K J 1/16W	
CP11			RK74GB1J472J	CHIP-COM 4.7K J 1/16W	
CP12			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP13,14			RK74GB1J104J	CHIP-COM 100K J 1/16W	
CP15			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP16			RK74GB1J222J	CHIP-COM 2.2K J 1/16W	
R1			RK73GB2A100J	CHIP R 10 J 1/10W	
R2			R92-3494-05	CHIP R 5.6 F 1/2W	
R3,4			RK73FB2B331J	CHIP R 330 J 1/8W	
R5			RK73GB2A101J	CHIP R 100 J 1/10W	
R6			RN73GH1J223D	CHIP R 22K D 1/16W	
R7			RK73GB2A104J	CHIP R 100K J 1/10W	
R8			RN73GH1J393D	CHIP R 39K D 1/16W	
R9			RK73GB2A104J	CHIP R 100K J 1/10W	
R10			RK73GB2A101J	CHIP R 100 J 1/10W	
R11,12			RK73GB2A104J	CHIP R 100K J 1/10W	
R13			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R14-17			RK73GB2A104J	CHIP R 100K J 1/10W	
R18			RK73GB2A101J	CHIP R 100 J 1/10W	
R21-23			RK73GB2A103J	CHIP R 10K J 1/10W	
R24,25			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R27			RK73GB2A104J	CHIP R 100K J 1/10W	
R28			RK73GB2A103J	CHIP R 10K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R31-33			RK73GB2A104J	CHIP R 100K J 1/10W	
R34			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R35			RK73GB2A104J	CHIP R 100K J 1/10W	
R36			RK73FB2B4R7J	CHIP R 4.7 J 1/8W	
R37			RK73GB2A103J	CHIP R 10K J 1/10W	
R38			RK73GB2A221J	CHIP R 220 J 1/10W	
R39			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R40			RK73GB2A394J	CHIP R 390K J 1/10W	
R42			RK73GB2A101J	CHIP R 100 J 1/10W	
R43			RK73GB2A393J	CHIP R 39K J 1/10W	
R44,45			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R46			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R47			RK73GB2A104J	CHIP R 100K J 1/10W	

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

Ez700SR/Ez900HDS

PARTS LIST

CD PLAYER UNIT (X32-5540-02)

Ref. No.	A d	N e w	Parts No.	Description	Desti- nation
R48,49			RK73GB2A331J	CHIP R 330 J 1/10W	
R50			RK73GB2A101J	CHIP R 100 J 1/10W	
R51			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R52			RK73GB2A163J	CHIP R 16K J 1/10W	
R53			RK73GB2A123J	CHIP R 12K J 1/10W	
R54			RK73GB2A333J	CHIP R 33K J 1/10W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R56			RK73GB2A123J	CHIP R 12K J 1/10W	
R57,58			RK73GB2A133J	CHIP R 13K J 1/10W	
R59			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R60			RK73GB2A123J	CHIP R 12K J 1/10W	
R61			RK73GB2A183J	CHIP R 18K J 1/10W	
R62			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R63			RK73GB2A133J	CHIP R 13K J 1/10W	
R64			RK73GB2A151J	CHIP R 150 J 1/10W	
R65			RK73GB2A104J	CHIP R 100K J 1/10W	
R66			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R67			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R68,69			RK73GB2A104J	CHIP R 100K J 1/10W	
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R103			RK73GB2A750J	CHIP R 75 J 1/10W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D2			DA204U	DIODE	
D3			DAN202U	DIODE	
IC1		*	91CW12AFG-5NJ2	MICROCONTROLLER IC	
IC2			UPD63712GC	MOS-IC	
IC3			TC94A20F-010	MOS-IC	
IC4			BA5824FP	ANALOGUE IC	
IC5			NJM2880U133	ANALOGUE IC	
IC5			NJM2880U33	ANALOGUE IC	
IC6			S-1112B33MCG	ANALOGUE IC	
IC6			XC6219B332MR	ANALOGUE IC	
IC7			S-1112B25MCG	ANALOGUE IC	
IC7			XC6219B252MR	ANALOGUE IC	
IC8			TC7SH08FU	MOS-IC	
IC9			TAR5S33-F	ANALOGUE IC	
Q1			2SK3018	FET	
Q3			UMD9N	TRANSISTOR	
Q4			2SK3018	FET	
Q5			UMD9N	TRANSISTOR	
Q6			UMD12N	TRANSISTOR	
Q7			DTC124EUA	DIGITAL TRANSISTOR	
Q8			2SB0970	TRANSISTOR	
Q9,10			DTC114YUA	DIGITAL TRANSISTOR	
ELECTRIC UNIT (X34-3340-1x)					
D502			B30-1567-05	LED (1608, RED)	K
C1			CK73FB1C474K	CHIP C 0.47UF K	
C2			CD04AS1A470M	ELECTRO 47UF 10WV	
C3			CK73FB1C474K	CHIP C 0.47UF K	
C5			CK73GB1H103K	CHIP C 0.010UF K	
C6			CK73GB1A105K	CHIP C 1.0UF K	

Ref. No.	A d	N e w	Parts No.	Description	Desti- nation
C7-12			CK73EB1A106K	CHIP C 10UF K	
C13			CK73GB1A105K	CHIP C 1.0UF K	
C14,15			CK73FB1C474K	CHIP C 0.47UF K	
C16			CK73GB1C104K	CHIP C 0.10UF K	
C17			CK73FB1C474K	CHIP C 0.47UF K	
C18			CD04AS1A470M	ELECTRO 47UF 10WV	
C19			CK73FB1C474K	CHIP C 0.47UF K	
C20			CK73GB1C104K	CHIP C 0.10UF K	
C21			CD04BA1C100M	ELECTRO 10UF 16WV	
C22			CK73GB1A105K	CHIP C 1.0UF K	
C23-26			C90-5684-05	ELECTRO 0.22UF 50WV	
C27,28			CK73GB1A105K	CHIP C 1.0UF K	
C29			CK73GB1H103K	CHIP C 0.010UF K	
C30			CD04AZ1E222M	ELECTRO 2200UF 25WV	
C31			CK73GB1C104K	CHIP C 0.10UF K	
C34-36			CK73GB1H103K	CHIP C 0.010UF K	
C101			CK73GB1H103K	CHIP C 0.010UF K	
C102			CK73GB1C104K	CHIP C 0.10UF K	
C103			CC73GCH1H220J	CHIP C 22PF J	
C104			CC73GCH1H270J	CHIP C 27PF J	
C105			CK73GB1A105K	CHIP C 1.0UF K	
C106			CK73GB1H103K	CHIP C 0.010UF K	
C107			CK73GB1C104K	CHIP C 0.10UF K	
C108-113			CK73GB1H103K	CHIP C 0.010UF K	
C114			CK73GB1C104K	CHIP C 0.10UF K	
C115			CK73GB1H103K	CHIP C 0.010UF K	
C201		*	CD04AJ1C101M	ELECTRO 100UF 16WV	
C202			CD04BJ1E470M	ELECTRO 47UF 25WV	
C203			CK73EB1A106K	CHIP C 10UF K	
C204			C90-5647-05	ELECTRO 0.047F 5.5WV	
C205			CK73GB1A224K	CHIP C 0.22UF K	
C206,207			CC73GCH1H221J	CHIP C 220PF J	
C208			CK73GB1A224K	CHIP C 0.22UF K	
C209		*	CD04AJ1C101M	ELECTRO 100UF 16WV	
C210,211			CK73GB1H103K	CHIP C 0.010UF K	
C212,213			CK73GB1C104K	CHIP C 0.10UF K	
C214			CD04BA1C100M	ELECTRO 10UF 16WV	
C215,216		*	CD04AY1E100M	ELECTRO 10UF 25WV	
C217			CK73GB1H103K	CHIP C 0.010UF K	
C218,219			CK73GB1C104K	CHIP C 0.10UF K	
C220			CK73GB1A105K	CHIP C 1.0UF K	
C221			CK73GB1C104K	CHIP C 0.10UF K	
C222		*	CD04BA0J470M	ELECTRO 47UF 6.3WV	
C223			CK73GB1C104K	CHIP C 0.10UF K	
C224			CK73GB1H103K	CHIP C 0.010UF K	
C225,226			CK73GB1C104K	CHIP C 0.10UF K	
C227			CK73GB1H103K	CHIP C 0.010UF K	
C228			CK73GB1C104K	CHIP C 0.10UF K	
C229			CK73GB1H103K	CHIP C 0.010UF K	
C230			CK73GB1C104K	CHIP C 0.10UF K	
C231			CK73GB1A224K	CHIP C 0.22UF K	
C232			CK73GB1H103K	CHIP C 0.010UF K	
C233			CK73GB1A105K	CHIP C 1.0UF K	
C234		*	CD04BF1A221M	ELECTRO 220UF 10WV	
C235-237		*	CD04BK0J331M	ELECTRO 330UF 6.3WV	

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3340-1x)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C238			CK73GB1H103K	CHIP C 0.010UF K		C342,343			CK73GB1H222K	CHIP C 2200PF K	
C239			CK73GB1C104K	CHIP C 0.10UF K		C344			CC73GCH1H180J	CHIP C 18PF J	K
C240		*	CD04BA0J470M	ELECTRO 47UF 6.3WV		C345-367			CK73GB1C104K	CHIP C 0.10UF K	K
C241			CK73EB1A106K	CHIP C 10UF K		C368			CC73GCH1H180J	CHIP C 18PF J	K
C242		*	CD04BK0J331M	ELECTRO 330UF 6.3WV		C369			CK73GB1H103K	CHIP C 0.010UF K	K
C243			CK73GB1C104K	CHIP C 0.10UF K		C370			CK73GB1A105K	CHIP C 1.0UF K	
C244			CK73EB1A106K	CHIP C 10UF K		C372			CK73GB1A105K	CHIP C 1.0UF K	
C245			CK73GB1H103K	CHIP C 0.010UF K	K	C373			CC73GCH1H101J	CHIP C 100PF J	
C246		*	CD04BH1C330M	ELECTRO 33UF 16WV		C374			CK73GB1H103K	CHIP C 0.010UF K	
C247,248		*	CD04AJ1C101M	ELECTRO 100UF 16WV		C375-382			CC73GCH1H101J	CHIP C 100PF J	
C250,251		*	CD04BA0J470M	ELECTRO 47UF 6.3WV	K	C383-385			CK73GB1C104K	CHIP C 0.10UF K	K
C251		*	CD04BA0J470M	ELECTRO 47UF 6.3WV	K1	C386			CK73GB1A105K	CHIP C 1.0UF K	
C252			CK73GB1H103K	CHIP C 0.010UF K		C387			CK73GB1H103K	CHIP C 0.010UF K	
C254		*	CD04BA0J470M	ELECTRO 47UF 6.3WV		C388-390			CK73GB1H102K	CHIP C 1000PF K	
C255			CD04BF1E101M	ELECTRO 100UF 25WV		C401,402			CK73GB1H103K	CHIP C 0.010UF K	
C256			CD04AS1H2R2M	ELECTRO 2.2UF 50WV		C403,404			CK73GB1A474K	CHIP C 0.47UF K	
C257,258			CK73GB1C104K	CHIP C 0.10UF K		C405			CK73GB1H103K	CHIP C 0.010UF K	
C259		*	CD04BA0J470M	ELECTRO 47UF 6.3WV	K1	C406-410			CK73GB1C104K	CHIP C 0.10UF K	
C259,260		*	CD04BA0J470M	ELECTRO 47UF 6.3WV	K	C413			CK73GB1H103K	CHIP C 0.010UF K	
C261		*	CD04AJ1C101M	ELECTRO 100UF 16WV		C414,415			CK73GB1A105K	CHIP C 1.0UF K	
C263,264			CK73GB1H103K	CHIP C 0.010UF K		C416-419			CK73GB1C104K	CHIP C 0.10UF K	
C265			CC73GCH1H101J	CHIP C 100PF J		C420			CD04AS1A470M	ELECTRO 47UF 10WV	
C266			CD04AS1H2R2M	ELECTRO 2.2UF 50WV		C421,422			CK73GB1A105K	CHIP C 1.0UF K	
C267-269			CK73GB1H103K	CHIP C 0.010UF K		C423			CC73GCH1H470J	CHIP C 47PF J	
C270		*	CD04BF1A221M	ELECTRO 220UF 10WV		C424,425			CK73FB1C474K	CHIP C 0.47UF K	
C271			CK73EB1A106K	CHIP C 10UF K		C426,427			CK73GB1A105K	CHIP C 1.0UF K	
C272			CK73GB1A105K	CHIP C 1.0UF K		C428			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C278			CK73GB1C104K	CHIP C 0.10UF K		C431,432			CK73GB1H103K	CHIP C 0.010UF K	K
C279			CK73GB1H104K	CHIP C 0.10UF K		C433,434			CK73GB1A105K	CHIP C 1.0UF K	
C280-282			CK73GB1C104K	CHIP C 0.10UF K		C501			CK73GB1H103K	CHIP C 0.010UF K	
C301			CC73GCH1H101J	CHIP C 100PF J		C502			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C302			CK73GB1C104K	CHIP C 0.10UF K		C503,504			CK73GB1H103K	CHIP C 0.010UF K	
C303,304			CC73GCH1H150J	CHIP C 15PF J		C505,506			CK73GB1C104K	CHIP C 0.10UF K	
C306-310			CK73GB1C104K	CHIP C 0.10UF K		C507			CK73GB1H103K	CHIP C 0.010UF K	
C311,312			CC73GCH1H101J	CHIP C 100PF J		C508,509			CK73GB1C104K	CHIP C 0.10UF K	
C313			CK73GB1H102K	CHIP C 1000PF K		C510			CC73GCH1H221J	CHIP C 220PF J	K
C314			CC73GCH1H470J	CHIP C 47PF J		CN1			E41-0927-05	PIN ASSY	
C315			CK73GB1A105K	CHIP C 1.0UF K		CN2	*		E41-0937-05	PIN ASSY	
C316			CK73GB1H103K	CHIP C 0.010UF K		CN3	*		E41-2231-05	PIN ASSY	
C317			CD04AS1A470M	ELECTRO 47UF 10WV		CN4			E41-2083-05	FLAT CABLE CONNECTOR	
C318-320			CK73GB1H103K	CHIP C 0.010UF K		CN6	*		E41-0949-05	PIN ASSY	
C321			CD04AS1A470M	ELECTRO 47UF 10WV		CN7			E41-0942-05	PIN ASSY	
C322-324			CK73GB1H103K	CHIP C 0.010UF K		J1	*		E58-1003-05	RECTANGULAR RECEPTACLE	
C325			CK73GB1A105K	CHIP C 1.0UF K		W301	*		E30-6386-05	CORD WITH PLUG (ANT)	
C326			CK73GB1C104K	CHIP C 0.10UF K		L201-204	*		L33-1986-05	CHOKE COIL	
C327			CK73GB1H103K	CHIP C 0.010UF K		L301	*		L41-1095-33	SMALL FIXED INDUCTOR	
C328			CK73GB1C104K	CHIP C 0.10UF K		L303-306			L92-0376-05	CHIP FERRITE	
C329,330			CK73GB1A105K	CHIP C 1.0UF K		L307-309			L41-2285-33	SMALL FIXED INDUCTOR	
C331			CK73GB1H103K	CHIP C 0.010UF K		L310,311			L41-4795-33	SMALL FIXED INDUCTOR	
C332			CK73GB1A105K	CHIP C 1.0UF K		L401			L41-4795-33	SMALL FIXED INDUCTOR	
C333,334			CK73GB1H103K	CHIP C 0.010UF K		X101			L77-2880-05	CRYSTAL RESONATOR	
C335,336			CK73GB1A105K	CHIP C 1.0UF K		X102			L78-0821-05	RESONATOR	
C337,338			CK73GB1H103K	CHIP C 0.010UF K		X301	*		L77-2885-05	CRYSTAL RESONATOR (41.6M)	
C339		*	CD04BK0J331M	ELECTRO 330UF 6.3WV		X302	*		L77-2888-05	CRYSTAL RESONATOR (28.224M)	K
C340,341			CK73GB1H103K	CHIP C 0.010UF K							

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

Ez700SR/Ez900HDS

PARTS LIST

ELECTRIC UNIT (X34-3340-1x)

Ref. No.	Ad	New	Parts No.	Description	Destination
X501			L78-0868-05	RESONATOR (5.00MHZ)	
K	2D	*	N30-3010-48	PAN HEAD MACHINE SCREW	
L	3D	*	N35-2504-41	BINDING HEAD MACHINE SCREW	
R1-8			RK73EB2E181J	CHIP R 180 J 1/4W	
R9-14			RK73GB2A222J	CHIP R 22K J 1/10W	
R15-20			RK73FB2B391J	CHIP R 390 J 1/8W	
R21			RK73GB2A473J	CHIP R 47K J 1/10W	
R22			RK73EB2E101J	CHIP R 100 J 1/4W	
R23			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R24			RK73EB2E101J	CHIP R 100 J 1/4W	
R25			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R26			RK73EB2E101J	CHIP R 100 J 1/4W	
R27-29			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R30			RK73EB2E100J	CHIP R 10 J 1/4W	
R31			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R32			RK73EB2E100J	CHIP R 10 J 1/4W	
R33			RK73GB2A154J	CHIP R 150K J 1/10W	
R34			RK73GB2A104J	CHIP R 100K J 1/10W	
R39			RK73GH2A472D	CHIP R 4.7K D 1/10W	
R40			RK73GB2A100J	CHIP R 10 J 1/10W	
R41			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R42			RK73GB2A104J	CHIP R 100K J 1/10W	
R43,44			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R45			RK73GB2A473J	CHIP R 47K J 1/10W	
R46,47			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R48			RK73GB2A331J	CHIP R 330 J 1/10W	
R49			RK73GB2A104J	CHIP R 100K J 1/10W	
R50			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R51			RK73GB2A473J	CHIP R 47K J 1/10W	
R52			RK73GB2A103J	CHIP R 10K J 1/10W	
R53			RK73GB2A6R8J	CHIP R 6.8 J 1/10W	
R57			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R58,59			RK73GH2A103D	CHIP R 10K D 1/10W	
R60			RK73GH2A272D	CHIP R 2.7K D 1/10W	
R101			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R102			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R103			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R104			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R105			RK73GB2A101J	CHIP R 100 J 1/10W	
R106			RK73GB2A474J	CHIP R 470K J 1/10W	
R107			RK73GB2A104J	CHIP R 100K J 1/10W	
R108			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R109			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R110,111			RK73GB2A471J	CHIP R 470 J 1/10W	
R112			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R113,114			RK73GB2A101J	CHIP R 100 J 1/10W	
R115			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R116,117			RK73GB2A474J	CHIP R 470K J 1/10W	
R118			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R119			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R120,121			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R122-124			RK73GB2A104J	CHIP R 100K J 1/10W	
R125			RK73GB2A103J	CHIP R 10K J 1/10W	

Ref. No.	Ad	New	Parts No.	Description	Destination
R126			RK73GB2A183J	CHIP R 18K J 1/10W	
R127			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R128,129			RK73GB2A103J	CHIP R 10K J 1/10W	
R131			RK73GB2A101J	CHIP R 100 J 1/10W	
R132			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R133			RK73GB2A104J	CHIP R 100K J 1/10W	K
R134			RK73GB2A154J	CHIP R 150K J 1/10W	
R135			RK73GB2A103J	CHIP R 10K J 1/10W	
R136-140			RK73GB2A104J	CHIP R 100K J 1/10W	
R142,143			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R144			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R145			RK73GB2A104J	CHIP R 100K J 1/10W	
R146,147			RK73GB2A471J	CHIP R 470 J 1/10W	
R148			RK73GB2A104J	CHIP R 100K J 1/10W	
R149			RK73GB2A473J	CHIP R 47K J 1/10W	
R150-152			RK73GB2A471J	CHIP R 470 J 1/10W	
R153			RK73GB2A104J	CHIP R 100K J 1/10W	
R154-156			RK73GB2A101J	CHIP R 100 J 1/10W	
R157-159			RK73GB2A104J	CHIP R 100K J 1/10W	
R165			RK73GB2A101J	CHIP R 100 J 1/10W	
R167			RK73GB2A101J	CHIP R 100 J 1/10W	
R168			RK73GB2A104J	CHIP R 100K J 1/10W	
R170			RK73GB2A104J	CHIP R 100K J 1/10W	
R173,174			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R175			RK73GB2A101J	CHIP R 100 J 1/10W	
R201			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R202			RK73EB2E2R2J	CHIP R 2.2 J 1/4W	
R203			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R204			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R205			RK73GB2A100J	CHIP R 10 J 1/10W	
R206		*	RK73PB2H220J	CHIP R 22 J 1/2W	
R207			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R208			RK73EB2E1R0J	CHIP R 1.0 J 1/4W	
R209			RK73GB2A473J	CHIP R 47K J 1/10W	
R210			RK73GB2A101J	CHIP R 100 J 1/10W	
R211			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R212			RK73GH2A822D	CHIP R 8.2K D 1/10W	
R213			RK73GH2A102D	CHIP R 1.0K D 1/10W	
R214-217			RK73GB2A103J	CHIP R 10K J 1/10W	
R218			RK73GH2A103D	CHIP R 10K D 1/10W	
R219			RK73GH2A202D	CHIP R 2.0K D 1/10W	
R220			RK73GB2A101J	CHIP R 100 J 1/10W	
R221			RK73GB2A104J	CHIP R 100K J 1/10W	
R222			RK73GH2A332D	CHIP R 3.3K D 1/10W	
R223			RK73GH2A202D	CHIP R 2.0K D 1/10W	
R224			RK73GH2A103D	CHIP R 10K D 1/10W	
R225			RK73GB2A470J	CHIP R 47 J 1/10W	
R226,227			RK73GH2A332D	CHIP R 3.3K D 1/10W	
R228			RK73GH2A752D	CHIP R 7.5K D 1/10W	
R229			RK73GB2A153J	CHIP R 15K J 1/10W	
R230			RK73GB2A473J	CHIP R 47K J 1/10W	
R231			RK73GH2A102D	CHIP R 1.0K D 1/10W	
R232			RK73GH2A822D	CHIP R 8.2K D 1/10W	
R233,234			RK73GB2A471J	CHIP R 470 J 1/10W	
R235			RK73GB2A470J	CHIP R 47 J 1/10W	

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3340-1x)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R236			RK73GH2A103D	CHIP R 10K D 1/10W		R320			RK73GB2A103J	CHIP R 10K J 1/10W	
R237-239			RK73GB2A473J	CHIP R 47K J 1/10W		R321			RK73GB2A102J	CHIP R 1.0K J 1/10W	K
R240		*	RK73EB2E682J	CHIP R 6.8K J 1/4W		R322,323			RK73GB2A103J	CHIP R 10K J 1/10W	K
R241			RK73GB2A222J	CHIP R 2.2K J 1/10W		R324,325			RK73GB2A104J	CHIP R 100K J 1/10W	
R242			RK73GB2A101J	CHIP R 100 J 1/10W		R326,327			RK73GB2A101J	CHIP R 100 J 1/10W	
R243			RK73GB2A222J	CHIP R 2.2K J 1/10W		R329			RK73GB2A472J	CHIP R 4.7K J 1/10W	K
R244			RK73GB2A473J	CHIP R 47K J 1/10W	K	R330,331			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R245			RK73GB2A182J	CHIP R 1.8K J 1/10W		R332			RK73GB2A472J	CHIP R 4.7K J 1/10W	K
R246			RK73GB2A473J	CHIP R 47K J 1/10W	K	R333-335			RK73GB2A101J	CHIP R 100 J 1/10W	K
R247			RK73GB2A223J	CHIP R 22K J 1/10W		R336			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R248			RK73GB2A101J	CHIP R 100 J 1/10W	K	R337,338			RK73GB2A101J	CHIP R 100 J 1/10W	K
R250			RK73GB2A102J	CHIP R 1.0K J 1/10W	K	R340,341			RK73GB2A103J	CHIP R 10K J 1/10W	K
R251			RK73EB2E4R7J	CHIP R 4.7 J 1/4W		R342			RK73GB2A102J	CHIP R 1.0K J 1/10W	K
R253			RK73GH2A103D	CHIP R 10K D 1/10W		R345-350			RK73GB2A104J	CHIP R 100K J 1/10W	
R254			RK73GH2A202D	CHIP R 2.0K D 1/10W		R351			RK73GB2A100J	CHIP R 10 J 1/10W	K
R255			RK73GB2A182J	CHIP R 1.8K J 1/10W		R352			RK73GB2A103J	CHIP R 10K J 1/10W	
R256			RK73GB2A124J	CHIP R 120K J 1/10W		R353			RK73GB2A221J	CHIP R 220 J 1/10W	
R257			RK73FB2B102J	CHIP R 1.0K J 1/8W		R402-404			RK73GB2A101J	CHIP R 100 J 1/10W	
R258			RK73GB2A473J	CHIP R 47K J 1/10W		R405			RK73GB2A104J	CHIP R 100K J 1/10W	
R259		*	RK73EB2E682J	CHIP R 6.8K J 1/4W		R406,407			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R260			RK73EB2E103J	CHIP R 10K J 1/4W		R408			RK73GB2A103J	CHIP R 10K J 1/10W	
R261			RK73FB2B333J	CHIP R 33K J 1/8W		R414-418			RK73GB2A333J	CHIP R 33K J 1/10W	
R262			RK73FB2B472J	CHIP R 4.7K J 1/8W		R419,420			RK73GB2A103J	CHIP R 10K J 1/10W	
R263			RK73GB2A561J	CHIP R 560 J 1/10W		R421			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R264			RK73GB2A333J	CHIP R 33K J 1/10W		R422			RK73GB2A333J	CHIP R 33K J 1/10W	
R265			RK73GB2A104J	CHIP R 100K J 1/10W		R425			RK73GB2A103J	CHIP R 10K J 1/10W	
R266			RK73GB2A153J	CHIP R 15K J 1/10W		R426-428			RK73GB2A101J	CHIP R 100 J 1/10W	K
R267			RK73GB2A104J	CHIP R 100K J 1/10W		R426,427			RK73GB2A101J	CHIP R 100 J 1/10W	K1
R268,269			RK73GB2A223J	CHIP R 22K J 1/10W		R429			RK73GH2A183D	CHIP R 18K D 1/10W	K
R270			RK73GB2A104J	CHIP R 100K J 1/10W		R501			RK73GB2A103J	CHIP R 10K J 1/10W	
R271			RK73GB2A223J	CHIP R 22K J 1/10W		R502			RK73GB2A183J	CHIP R 18K J 1/10W	
R272			RK73EB2E103J	CHIP R 10K J 1/4W		R504-506			RK73GB2A104J	CHIP R 100K J 1/10W	
R273			RK73GH2A472D	CHIP R 4.7K D 1/10W		R510			RK73GB2A473J	CHIP R 47K J 1/10W	
R274			RK73GH2A103D	CHIP R 10K D 1/10W		R511			RK73GB2A104J	CHIP R 100K J 1/10W	
R275			RK73GH2A472D	CHIP R 4.7K D 1/10W		R512			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R276			RK73GH2A103D	CHIP R 10K D 1/10W		R513			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R277			RK73GB2A100J	CHIP R 10 J 1/10W		R519-522			RK73GB2A473J	CHIP R 47K J 1/10W	
R278,279		*	RK73SB3A1R0J	CHIP R 1.0 J 1W		R526,527			RK73GB2A101J	CHIP R 100 J 1/10W	
R280,281			RK73GB2A100J	CHIP R 10 J 1/10W		R528			RK73GB2A104J	CHIP R 100K J 1/10W	
R282		*	RK73SB3A1R0J	CHIP R 1.0 J 1W		R529			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R285			RK73GB2A222J	CHIP R 2.2K J 1/10W		R530			RK73GB2A103J	CHIP R 10K J 1/10W	
R286-288			RK73GB2A473J	CHIP R 47K J 1/10W		R534			RK73GB2A472J	CHIP R 4.7K J 1/10W	K
R289			RK73GB2A102J	CHIP R 1.0K J 1/10W		R535			RK73GB2A101J	CHIP R 100 J 1/10W	K
R290,291			RK73GH2A152D	CHIP R 1.5K D 1/10W		R536			RK73GB2A104J	CHIP R 100K J 1/10W	
R292			RK73GB2A472J	CHIP R 4.7K J 1/10W		R537,538			RK73GB2A101J	CHIP R 100 J 1/10W	
R293			RK73GB2A473J	CHIP R 47K J 1/10W		R539			RK73GB2A104J	CHIP R 100K J 1/10W	
R301-309			RK73GB2A101J	CHIP R 100 J 1/10W		R540,541			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R310,311			RK73GB2A103J	CHIP R 10K J 1/10W		R542			RK73GB2A104J	CHIP R 100K J 1/10W	
R312			RK73GB2A333J	CHIP R 33K J 1/10W		R543			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R313			RK73GB2A472J	CHIP R 4.7K J 1/10W		R545,546			RK73GB2A104J	CHIP R 100K J 1/10W	
R314,315			RK73GB2A103J	CHIP R 10K J 1/10W	K	R547			RK73GB2A101J	CHIP R 100 J 1/10W	K
R316			RK73GB2A101J	CHIP R 100 J 1/10W		R548			RK73GB2A104J	CHIP R 100K J 1/10W	
R317			RK73GB2A104J	CHIP R 100K J 1/10W		R549			RK73GB2A101J	CHIP R 100 J 1/10W	K
R318			RK73GB2A101J	CHIP R 100 J 1/10W		R550			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R319			RK73GB2A104J	CHIP R 100K J 1/10W		R551			RK73GB2A471J	CHIP R 470 J 1/10W	K

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

Ez700SR/Ez900HDS

PARTS LIST

ELECTRIC UNIT (X34-3340-1x)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R552			RK73GB2A104J	CHIP R 100K J 1/10W	
R553,554			RK73GB2A103J	CHIP R 10K J 1/10W	
R555			RK73GB2A104J	CHIP R 100K J 1/10W	
R557			RK73GB2A103J	CHIP R 10K J 1/10W	
R562-565			RK73GB2A104J	CHIP R 100K J 1/10W	
R569			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R570			RK73GB2A101J	CHIP R 100 J 1/10W	
W101			R92-1252-05	CHIP R 0 OHM J 1/16W	K1
W501			R92-1252-05	CHIP R 0 OHM J 1/16W	K1
S1		*	S74-0822-05	MICRO SWITCH	
D1-11			DA204U	DIODE	
D12,13			UDZS6.8B	ZENER DIODE	
D14-16			DAP202U	DIODE	
D17,18			UDZS6.2B	ZENER DIODE	
D19			UDZS6.8B	ZENER DIODE	
D20			UDZS6.2B	ZENER DIODE	
D21			UDZS6.8B	ZENER DIODE	
D22			UDZS6.2B	ZENER DIODE	
D31			S2V60*A	DIODE	
D32			UDZS6.8B	ZENER DIODE	
D33-36			UDZS6.2B	ZENER DIODE	
D37			UDZS6.8B	ZENER DIODE	
D203			1SR154-400	DIODE	
D204			DAN202U	DIODE	
D205-207			1SR154-400	DIODE	
D208,209		*	SBE803-E	DIODE	
D210		*	EC21QS06AG	DIODE	
D211-213		*	EC10QS04AG	DIODE	
D214			UDZS6.8B	ZENER DIODE	
D215			UDZS5.6B	ZENER DIODE	
D216,217			UDZS6.8B	ZENER DIODE	
D218			UDZS5.6B	ZENER DIODE	
D220			DAN202U	DIODE	
D301			IMSA-6801-E	SURGE ABSORBER	
D401,402			UDZS6.8B	ZENER DIODE	
D404			DAN202U	DIODE	
D501			DAN202U	DIODE	
IC1			TB2903HQ	ANALOGUE IC	
IC101		*	703030GC053A	MICROCONTROLLER IC	
IC102			HD74HC02FP-E	MOS-IC	
IC103		*	S-80835CNNB-G	MOS-IC	
IC105		*	BR24L01AF-W	ROM IC	
IC202			TA78L05F-F	ANALOGUE IC	
IC203,204		*	MB3882	ANALOGUE IC	
IC205			BA4911-V4	ANALOGUE IC	
IC206		*	UPC2933ATAZ	ANALOGUE IC	
IC207			BA00ASFP	ANALOGUE IC	
IC208		*	TA48M033F-F	ANALOGUE IC	
IC301		*	SAF7730H	ANALOGUE IC	
IC302		*	SAF3550HV	MOS-IC	K
IC303			MT48LC4M32P7IT	DRAM IC	K
IC304		*	M25P80-VMW6T	ROM IC	K
IC402			E-TDA7414	ANALOGUE IC	
IC403		*	AK4112BVFPP	MOS-IC	K

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC501		*	70F3263GC3T5A	MICROCONTROLLER IC	K
IC501		*	703262GC301A	MICROCONTROLLER IC	K1
IC502		*	BR24L01AF-W	ROM IC	K
IC502		*	BR24L04F-W	ROM IC	K1
IC503		*	HD74HCT245T-E	MOS-IC	
Q1			DTA114YUA	DIGITAL TRANSISTOR	
Q2-7			DTC143TUA	DIGITAL TRANSISTOR	
Q8			2SA1576A	TRANSISTOR	
Q9,10			DTA124EUA	DIGITAL TRANSISTOR	
Q12			DTC144EUA	DIGITAL TRANSISTOR	
Q13			2SA1577	TRANSISTOR	
Q200			DTC144EUA	DIGITAL TRANSISTOR	
Q201			2SC4081	TRANSISTOR	
Q202			2SA1577	TRANSISTOR	
Q203			CPH3105-E	TRANSISTOR	
Q204-206			DTC144EUA	DIGITAL TRANSISTOR	
Q207-210		*	HAT2028R-E	DUAL FET	
Q211			DTC144EUA	DIGITAL TRANSISTOR	
Q212			CPH3105-E	TRANSISTOR	
Q213			DTC144EUA	DIGITAL TRANSISTOR	
Q214			CPH3105-E	TRANSISTOR	
Q215-217			DTC144EUA	DIGITAL TRANSISTOR	
Q218,219			CPH3105-E	TRANSISTOR	
Q220			DTC144EUA	DIGITAL TRANSISTOR	
Q222			CPH3105-E	TRANSISTOR	K
Q225			CPH3105-E	TRANSISTOR	K
Q226			DTA123JK	DIGITAL TRANSISTOR	
Q227			DTC144EUA	DIGITAL TRANSISTOR	
Q228-230			2SC4081	TRANSISTOR	
Q231			UMD2N	TRANSISTOR	
Q232			CPH3105-E	TRANSISTOR	
Q234-240			DTC144EUA	DIGITAL TRANSISTOR	K
Q234,235			DTC144EUA	DIGITAL TRANSISTOR	K1
Q238-240			DTC144EUA	DIGITAL TRANSISTOR	K1
Q302-307			2SK3018	FET	K
Q501			DTC144EUA	DIGITAL TRANSISTOR	K1
Q501,502			DTC144EUA	DIGITAL TRANSISTOR	K
Q503-506			2SK3018	FET	
Q507			UMD2N	TRANSISTOR	
TH1			PRF21BE471QB2	POSITIVE RESISTOR	
A301		*	W02-3492-05	FM/AM FRONT-END	
A302		*	W02-5017-05	ELECTRIC CIRCUIT MODULE (SIRIUS)	
DAUGHTER UNIT (X89-2680-10)					
D1			B30-1566-05	LED (1608, RED)	
C1			CK73GB1H103K	CHIP C 0.010UF K	
CN1		*	E41-2232-05	SOCKET FOR PIN ASSY	
J1		*	E58-1008-05	RECTANGULAR RECEPTACLE	
R1			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R3-5			RK73EB2E471J	CHIP R 470 J 1/4W	
R6,7			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R8			RK73EB2E241J	CHIP R 240 J 1/4W	
R9,10			RK73EB2E471J	CHIP R 470 J 1/4W	

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

Ez700SR/Ez900HDS

PARTS LIST

DAUGHTER UNIT (X89-2680-10)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R11-13			RK73EB2E102J	CHIP R 1.0K J 1/4W	
S1			S70-0871-05	TACT SWITCH	
CD MECHANISM ASSY (X92-5120-00)					
2	1B		A10-4884-02	CHASSIS	
5	1B		D10-4610-03	ARM ASSY	
8	2A		D10-4608-03	LEVER ASSY	
10	3A		D10-4602-03	ARM	
11	2A		D10-4603-03	ARM	
12	3A		D10-4604-03	ARM	
13	3A		D10-4605-03	ARM	
14	3B		D10-4613-03	ARM	
15	2A		D10-4615-03	SLIDER	
16	3B		D10-4617-22	SLIDER	
17	3B		D10-4618-03	SLIDER	
18	3B		D10-4614-04	ARM	
19	3B		D10-4606-04	ARM	
22	2A		D13-2174-04	GEAR	
23	2B		D13-2180-04	GEAR	
24	3B		D13-2181-04	GEAR	
25	3B		D13-2182-04	GEAR	
26	3B		D13-2175-04	WORM	
27	3B		D13-2176-04	GEAR	
28	3B		D13-2177-04	GEAR	
29	3B		D13-2178-04	GEAR	
30	3B		D13-2183-04	GEAR	
31	3B		D13-2184-04	GEAR	
32	2B		D13-2173-03	RACK (GEAR)	
33	2A		D14-0763-04	ROLLER	
35	2B		D21-2389-04	SHAFT	
36	1A		D23-0955-04	RETAINER	
37	1B		D39-0246-05	DAMPER	
38	2B		G01-3095-04	EXTENSION SPRING	
39	2A		G01-3093-04	TORSION COIL SPRING	
40	2A		G01-3094-04	EXTENSION SPRING	
41	1B		G01-3091-04	EXTENSION SPRING	
42	2A		G01-3092-04	EXTENSION SPRING	
43	1B		G01-3090-04	EXTENSION SPRING	
44	2B		G02-1413-04	FLAT SPRING	
45	2B		G02-1414-04	FLAT SPRING	
51	1A		J21-9753-02	MOUNTING HARDWARE	
52	3B		J21-9755-02	MOUNTING HARDWARE	
53	1B		J21-9752-03	MOUNTING HARDWARE	
55	1A		J90-1014-01	GUIDE	
56	1B		J90-1024-03	GUIDE	
DFPC1	3A		J84-0141-05	FLEXIBLE PRINTED WIRING BOARD	
A	2B		N09-6192-05	TAPPING SCREW (P2X8COUNTERSU)	
B	1B		N09-6191-05	STEPPED SCREW (M1.7TOTAL8BON)	
C	2B		N09-6004-05	MACHINE SCREW (M1.7X2.5 IB-L)	
E	2B		N09-6193-05	MACHINE SCREW (M2X2PAN-HEAD#)	
F	1A		N09-6194-05	TAPPING SCREW (P2X5BINDING-H)	
G	2A		N19-2163-04	FLAT WASHER	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
H	1B		N39-2020-46	PAN HEAD MACHINE SCREW	
J	1B		N09-6196-05	TAPTITE SCREW (S2X3.5PRECISI)	
K	3B		N09-6195-05	SEMS (TAPTITE SCREW) (P2X5SEMS-	
DM1	3B		T42-1066-04	DC MOTOR ASSY (SP)	
DM2	2B		T42-1067-04	DC MOTOR ASSY (LO)	
DPU1	2B		X93-2010-00	OPTICAL PICKUP ASSY	

K : Ez900HDS K1 : Ez700SR
(K : North America)

△ Indicates safety critical components.

Ez700SR/Ez900HDS

SPECIFICATIONS

Analog FM tuner section

Frequency range (200kHz space) 87.9MHz~107.9MHz
Usable sensitivity (S/N=30dB) 9.3dBf (0.8 μ V/75 Ω)
Quieting Sensitivity (S/N=50dB) 15.2dBf (1.6 μ V/75 Ω)
Frequency response (\pm 3dB) 30Hz~15kHz
Signal to Noise ratio (MONO) 70dB
Selectivity (\pm 400kHz) 80dB
Stereo separation (1kHz) 40dB

Digital FM tuner section (Ez900HDS)

Frequency range (200kHz space) 87.9MHz~107.9MHz
Frequency response (\pm 3dB) 30Hz~15kHz
Signal to Noise ratio (STEREO) 85dB

Analog AM tuner section

Frequency range (10kHz space) 530kHz~1700kHz
Usable sensitivity (S/N=20dB) 28dB μ (25 μ V)

Digital AM tuner section (Ez900HDS)

Frequency range (10kHz space) 530kHz~1700kHz
Frequency response (\pm 3dB) 30Hz~15kHz
Signal to Noise ratio (STEREO) 70dB

Sirius tuner section

Frequency range (Overall) 2320MHz~2332.5MHz
Frequency range (TDM Channel#1 (fc)) 2322.293MHz
Frequency range (COFDM Channel#1 (fc)) 2326.25MHz
Frequency range (TDM Channel#2 (fc)) 2330.207MHz
Usable sensitivity (TDM Channel) -91dB μ ~-55dB μ
Usable sensitivity (COFDM Channel) -88dB μ ~+4dB μ
Audio Sampling 48kHz

CD player section

Laser diode GaAlAs
Digital filter (D/A) 8Times Over Sampling
D/A Converter 1Bit
Spindle speed 500~200rpm (CLV)
Wow & Flutter Below Measurable Limit
Frequency response (\pm 1dB) 10Hz~20kHz
Total harmonic distortion (1kHz) 0.01%
Signal to Noise ratio (1kHz) 105dB
Dynamic range 93dB
Channel separation 96dB
MP3 decode Compliant with MPEG-1/2 Audio Layer-3
WMA decode Compliant with Windows Media Audio

Audio section

Maximum output power 50 W x 4
Full Bandwidth Power (at less than 1% THD) 22 W x 4
Tone action
Bass 100Hz \pm 10dB
Middle 1kHz \pm 10dB
Treble 10kHz \pm 10dB
Preout level/Load (during disc play) 2000mV/10k Ω
Preout impedance \leq 600 Ω

Auxiliary input

Frequency response (\pm 1dB) 20Hz~20kHz
Input Maximum Voltage 1200mV
Input Impedance 100k Ω

General

Operating voltage (11~16V allowable) 14.4V
Current consumption 10A
Installation Size (W x H x D) 178 x 50 x 165mm
..... 7 x 1-15/16 x 6-1/2inch
Weight 3.1lbs (1.4kg)

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

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