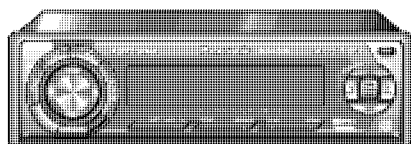


Service Manual

AUTOMOTIVE AFTERMARKET



WMA MP3



(CQ-DFX683N)

CQ-DFX683N
CQ-DFX223N
CQ-DFX213N
CQ-DFX203N

Removable Full Front MP3 WMA CD
 Player / Receiver with CD Changer
 Control

Specifications*

General

Power Supply	DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Current Consumption	Less than 2.2A (CD mode; 0.5W 4-Speaker)
Maximum Power Output	50W×4 (at 4Ω)
Power Output	22W×4 (DIN45 324, at 4Ω)
Speaker Impedance	4-8Ω
External Input Impedance	10kΩ (AUX IN)
External Input Sensitivity	Max.2V (AUX IN)
Pre-Amp Output Voltage	2.5V (CD mode)
Pre-Amp Output Impedance	200Ω
Sub-Woofer Output Voltage	2.5V
FM Stereo Radio	
Frequency Range	87.5MHz - 108MHz
Usable Sensitivity	6dB/μV (SN 30dB)
Stereo Separation	35dB (at 1kHz)
MW Radio	
Frequency Range	531 - 1,602kHz
Usable Sensitivity	29dB/μV (S/N20dB)
LW Radio	
Frequency Range	153 - 279kHz
Usable Sensitivity	34dB/μV (S/N20dB)
CD Player	
Sampling Frequency	8 Times Oversampling
DA Converter	1bit/4 DAC System
Pick-Up Type	Astigma 3-beam

Light Source	Semiconductor Laser
Wave length	780nm
Frequency Response	20Hz to 20kHz (±1dB)
Signal to Noise Ratio	96dB
Total Harmonic Distortion	0.01%(1kHz)
Wow and Flutter	Below measurable limits
Channel Separation	75dB
MP3/WMA(Only for CQ-DFX683N)	
MP3 decoding	MPEG1 audio layer 3 MPEG2 audio layer 3
Bit rate	
(MPEG1 audio layer 3)	32kbps-320kbps VBR (Variable Bit Rate)
(MPEG2 audio layer 3)	8kbps-160kbps VBR (Variable Bit Rate)
(WMA)	64kbps-192kbps
Sampling frequency	
(MPEG1 audio layer 3)	32kHz, 44.1 kHz, 48kHz
(MPEG2 audio layer 3)	16kHz, 22.05 kHz, 24kHz
(WMA)	32kHz, 44.1 kHz, 48kHz
Dimensions**	178×50×155mm
Weight**	1.4kg

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

** Dimensions and Weight shown are approximate.

• Above specifications comply with EIA standards.

Panasonic

© 2003 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

CONTENTS

	Page		Page
1 ABOUT LEAD FREE SOLDER (PbF)	3	13 REPLACEMENT PARTS LIST[CQ-DFX223N/DFX213N/DFX203N]	21
2 LASER PRODUCTS	3	14 EXPLODED VIEW [CQ-DFX223N/DFX213N/DFX203N]	28
3 FEATUERS	3	15 CD PLAYER PARTS LIST [CQ-DFX683N]	29
4 REPLACING THE FUSE	3	16 EXPLODED VIEW (CD Deck) [CQ-DFX683N]	32
5 MAINTENANCE	3	17 CD PLAYER PARTS LIST [CQ-DFX223N/213N/203N]	33
6 NOTES	3	18 EXPLODED VIEW (CD Deck) [CQ-DFX223N/213N/203N]	35
7 DIMENSIONS	3	19 WIRING DIAGRAM	36
8 WIRING CONNECTION	4	20 BLOCK DIAGRAM-1	42
9 TERMINALS DESCRIPTION	6	21 SCHEMATIC DIAGRAM-2	45
10 PACKAGE AND IC BLOCK DIAGRAM	10	22 BLOCK DIAGRAM-2	53
11 REPLACEMENT PARTS LIST[CQ-DFX683N]	15		
12 EXPLODED VIEW [CQ-DFX683N]	20		

1 ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution :

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C)
- This lead free solder will be used for the products after serial No. 1,000,001.

2 LASER PRODUCTS

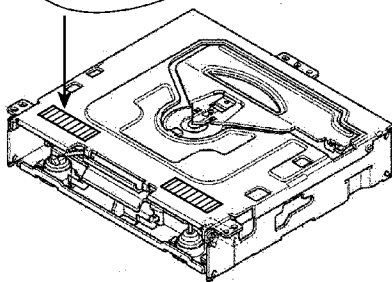
CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.

Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

CAUTION LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM.



Deck Ass'y (Upper Side)

Caution

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

3 FEATUERS

- Digital servo for reliable playback.
- PLL (Phase Locked Loop) synthesized tuning.
- 18-FM, 6-AM presets with preset scan.
- Removable face plate.
- RDS (Radio Data System)
- MP3/WMA Playback from CD-R/RW (CQ-DFX683N only).

4 REPLACING THE FUSE

Use fuses of the same specified rating (15amps). Using different substitutes or fuses with higher ratings, or connecting the product directly without a fuse, could cause fire or damage to the stereo unit.

5 MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry, a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

6 NOTES

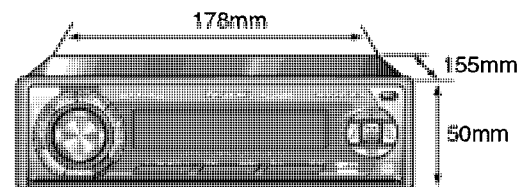
[RADIO BLOCK]

Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.

[CD DECK BLOCK]

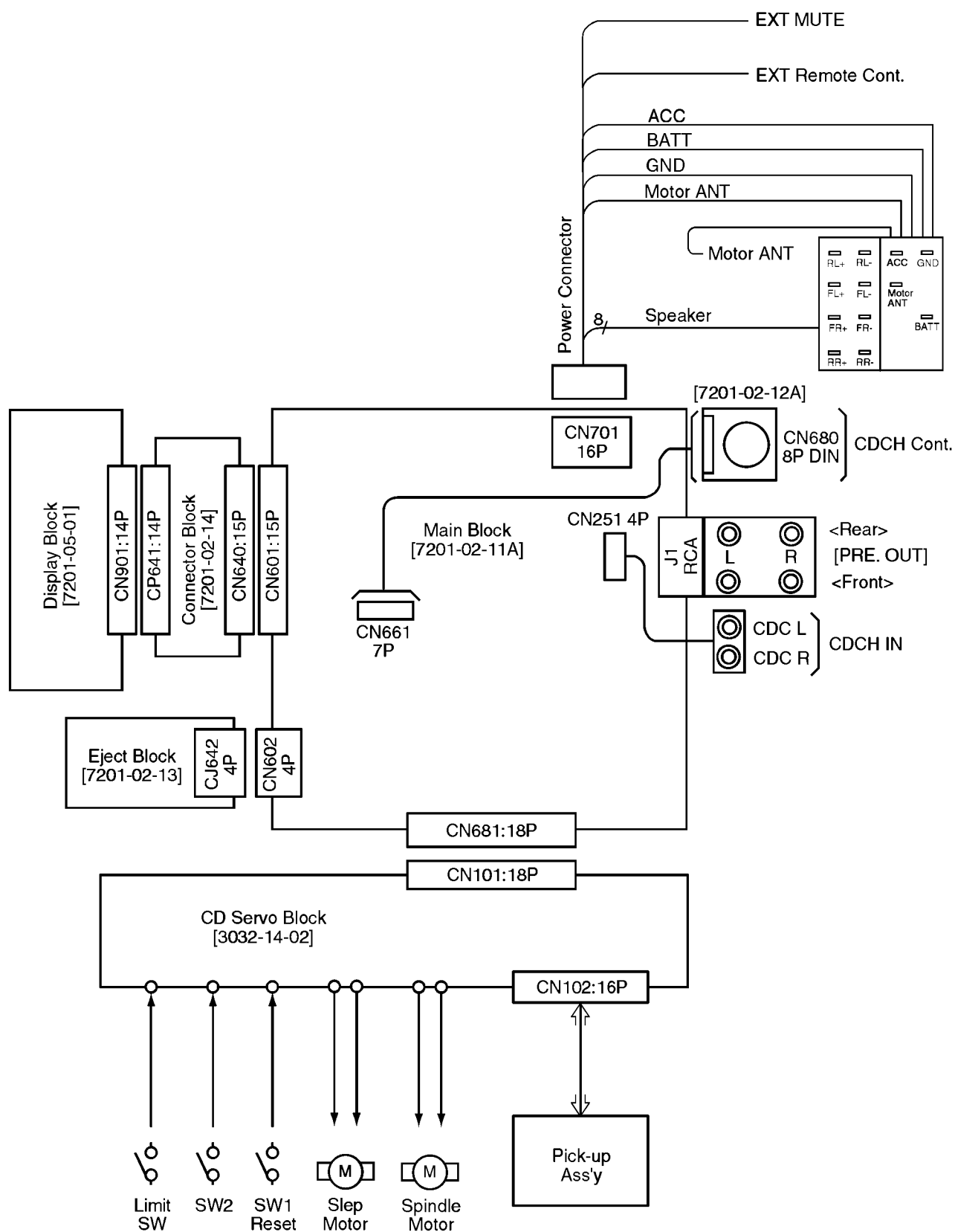
This model has no servo alignment points because microcomputer controls the servo circuit.

7 DIMENSIONS

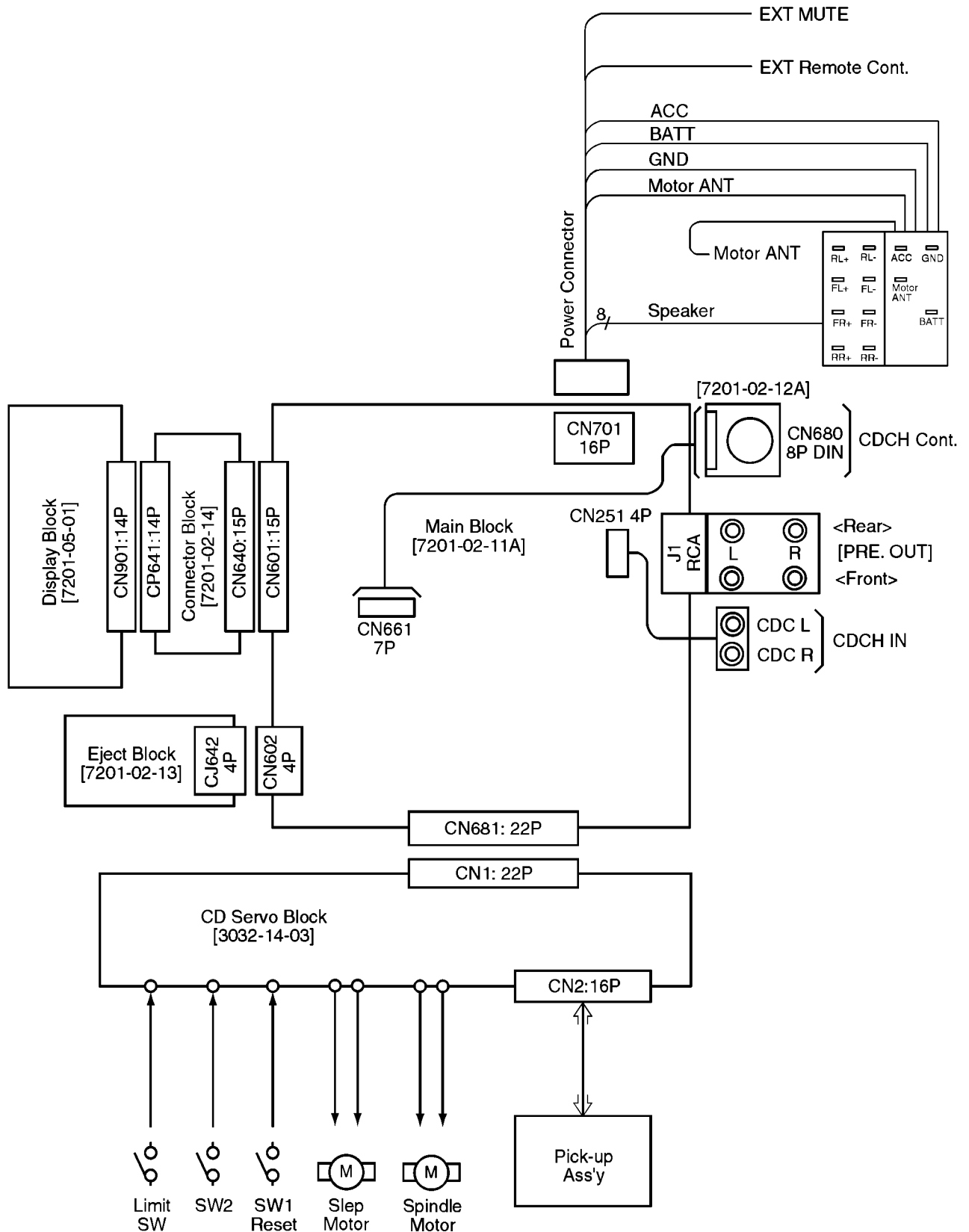


8 WIRING CONNECTION

8.1. CQ-DFX683N



8.2. CQ-DFX223N/DFX213N/DFX203N



9 TERMINALS DESCRIPTION

9.1. Main Block [CQ-DFX683N]

IC601 : YESAM181

Pin No.	Port	Description	I/O	(V)		
				FM	AM	CD
1	CH SENS	CD changer detect	I	0.8	0.7	0.7
2	SD/ST	Radio station detect	I	5.1	5.1	5.1
3	EJECT	Eject SW	I	5.2	5	5.2
4	AVSS	Ground	-	0	0	0
5	EXT.MUTE	External mute	O	0	0	5.1
6	NC	-	-	-	-	-
7	AVREF1	(Conecting to +5V)	-	5.2	5.2	5.2
8	SUB SO	LCD data	I	5.1	5.1	5.1
9	LCD DI	LCD data	O	0	5.1	5.1
10	SUB SI	LCD clock	O	5.1	5.1	5.1
11	CH DATA	(Ground pull down)	-	0	0	0
12	NC	-	-	-	-	-
13	CH CLK	(Ground pull down)	-	0	0	0
14	CH REM	(Ground pull down)	-	5.2	5.2	5.2
15	BZ OUT	Buzzer signal output	O	0	0	0
16	CD SO	CD data output	I	5	5	0
17	CD SI	CD data input	O	0	0	0
18	CD SCK	CD clock	O	5.2	5	5.2
19	LCD CE	LCD chip enable	O	0	0	0
20	CD RST	CD reset	O	0	0	5.2
21	AMP CNT	Amp control signal	O	5.2	5.1	5.2
22	ANT CNT	ANT control signal	O	5.2	5.2	0
23	AMP MUTE	Amp mute control	O	5.2	5.2	5.2
24	CD STB	CD strobe	O	0	0	5.2
25	CD A0	CD A0	O	0	0	4.6
26	NC	-	-	-	-	-
27	NC	-	-	-	-	-
28	NC	-	-	-	-	-
29	NC	-	-	-	-	-
30	NC	-	-	-	-	-
31	NC	-	-	-	-	-
32	NC	-	-	-	-	-
33	VSS1	Ground	-	0	0	0
34	NC	-	-	-	-	-
35	ILL CNT	Illumi. Control	O	0	0	0
36	SCL	Audio control serial clock	O	5.2	5.2	5.2
37	SDA	Audio control data	O	5.2	5.2	5.2
38	S LED	S LED drive signal	O	0	0	0
39	NC	-	-	-	-	-
40	SPEANA SEL	-	O	-	-	-
41	PLL DI	PLL data	O	0	0	0
42	PLL DO	PLL data	I	5.1	5.2	5.2
43	PLL CLK	PLL data clock	O	5.2	5.2	5.2
44	PLL CE	PLL chip select	O	0	0	0
45	ROM CS	ROM chip select	O	5.2	5.2	5.2
46	PANEL	Panel switch signal	I	0	0	0
47	OP/CL	Open/close detect	I	5.1	5.1	5.1
48	LCD5V CNT	LCD 5V control	O	0	0	0
49	EEPROM DI(NC)	-	-	-	-	-
50	EEPROM SK(NC)	-	-	-	-	-
51	DIM1	(Ground pull down)	-	0	0	0
52	DIM2	(Ground pull down)	-	0	0	0
53	EEPROM DO(NC)	-	-	-	-	-
54	AF MUTE	Audio mute signal	O	5.2	5.2	5.2
55	INV CNT	Inverter control	O	5.1	5.1	5.2
56	CD CNT	CD power control	O	5.1	5.1	5.2
57	MAIN CONT	Main power control	O	5	5	5
58	NC	-	-	-	-	-

Pin No.	Port	Description	I/O	(V)		
				FM	AM	CD
59	RDS DATA	RDS data input	I	2.8	0	0
60	RESET	System reset	I	5.2	5.2	5.2
61	RM DATA	Remote control data	I	-	-	-
62	BATT	Battery detekut	I	5.2	5.2	5.2
63	RDS CLK	RDS clock input	I	5.0	5.0	5.0
64	CDC STB	(Ground pull down)	-	0	0	0
65	ROTARY 1	Rotary encoder input 1	I	5.2	5.2	5.2
66	ROTARY 2	Rotary encoder input 2	I	5.2	5.2	5.2
67	VSS0	Ground	-	0	0	0
68	VDD1	+5V power supply	-	5.2	5.2	5.2
69	X2	Crystal oscillator	-	3	3	3
70	X1	Crystal oscillator	-	2.5	2.5	2.5
71	TEST	(Test terminal)	-	0	0	0
72	XT2	Crystal oscillator	-	2.9	2.9	2.9
73	XT1	Crystal oscillator	-	2.6	2.6	2.6
74	VDD0	+5V power supply	-	5.2	5.2	5.2
75	AVDD	+6V power supply	-	5.2	5.2	5.2
76	VSM	VSM	I	0	0	0
77	ACC	ACC detect	I	4.3	4.3	4.3
78	INIT/B	(+5V pull up)	-	5.2	5.2	5.2
79	SPEANA AIN	(Ground pull down)	-	0	0	0
80	LEVEL L	Level in	I	1.4	1.4	2.5

9.2. Main Block [CQ-DFX223N/213N/203N]

IC601 : YESAM180

Pin No.	Port	Description	I/O	(V)		
				FM	AM	CD
1	CH SENS	CD changer detect	I	0.8	0.7	0.7
2	SD/ST	Radio station detect	I	5.1	5.1	5.1
3	EJECT	Eject SW	I	5.2	5	5.2
4	AVSS	Ground	-	0	0	0
5	EXT.MUTE	External mute	O	0	0	5.1
6	NC	-	-	-	-	-
7	AVREF1	(Conecting to +5V)	-	5.2	5.2	5.2
8	SUB SO	LCD data	I	5.1	5.1	5.1
9	LCD DI	LCD data	O	0	5.1	5.1
10	SUB SI	LCD clock	O	5.1	5.1	5.1
11	CH DATA	(Ground pull down)	-	0	0	0
12	CD OSC	CD Osc stop	O	5.2	5.2	0
13	CH CLK	(Ground pull down)	-	0	0	0
14	CH REM	(Ground pull down)	-	5.2	5.2	5.2
15	BZ OUT	Buzzer signal output	O	0	0	0
16	CD SO	CD data output	I	5	5	0
17	CD SI	CD data input	O	0	0	0
18	CD SCK	CD clock	O	5.2	5	5.2
19	LCD CE	LCD chip enable	O	0	0	0
20	CD RST	CD reset	O	0	0	5.2
21	AMP CNT	Amp control signal	O	5.2	5.1	5.2
22	ANT CNT	ANT control signal	O	5.2	5.2	0
23	AMP MUTE	Amp mute control	O	5.2	5.2	5.2
24	CD STB	CD strobe	O	0	0	5.2
25	CD A0	CD A0	O	0	0	4.6
26	CD RFOK	RF OK signal	I	0	0	5
27	CD LOCK	CD lock signal	I	0	0	5
28	CD LIMIT	CD limit switch signal	I	0	0	5
29	CD SW1	CD SW1	I	0	0	0
30	CD SW2	CD SW2	I	5.2	5	0
31	NC	-	-	-	-	-
32	NC	-	-	-	-	-

Pin No.	Port	Description	I/O	(V)		
				FM	AM	CD
33	VSS1	Ground	-	0	0	0
34	NC	-	-	-	-	-
35	ILL CNT	Illumi. Control	O	0	0	0
36	SCL	Audio control serial clock	O	5.2	5.2	5.2
37	SDA	Audio control data	O	5.2	5.2	5.2
38	S LED	S LED drive signal	O	0	0	0
39	EJ ILL	Eject Led drive signal	O	5.2	5.2	5.2
40	SPEANA SEL	-	O	-	-	-
41	PLL DI	PLL data	O	0	0	0
42	PLL DO	PLL data	I	5.1	5.2	5.2
43	PLL CLK	PLL data clock	O	5.2	5.2	5.2
44	PLL CE	PLL chip select	O	0	0	0
45	ROM CS	ROM chip select	O	5.2	5.2	5.2
46	PANEL	Panel switch signal	I	0	0	0
47	OP/CL	Open/close detect	I	5.1	5.1	5.1
48	LCD5V CNT	LCD 5V control	O	0	0	0
49	EEPROM DI(NC)	-	-	-	-	-
50	EEPROM SK(NC)	-	-	-	-	-
51	DIM1	(Ground pull down)	-	0	0	0
52	DIM2	(Ground pull down)	-	0	0	0
53	EEPROM DO(NC)	-	-	-	-	-
54	AF MUTE	Audio mute signal	O	5.2	5.2	5.2
55	INV CNT	Inverter control	O	5.1	5.1	5.2
56	CD CNT	CD power control	O	5.1	5.1	5.2
57	MAIN CONT	Main power control	O	5	5	5
58	NC	-	-	-	-	-
59	RDS DATA (NC)	-	-	-	-	-
60	RESET	System reset	I	5.2	5.2	5.2
61	RM DATA	Remote control data	I	-	-	-
62	BATT	Battery detektut	I	5.2	5.2	5.2
63	RDS CLK (NC)	-	-	-	-	-
64	CDC STB	(Ground pull down)	-	0	0	0
65	ROTARY 1	Rotary encoder input 1	I	5.2	5.2	5.2
66	ROTARY 2	Rotary encoder input 2	I	5.2	5.2	5.2
67	VSS0	Ground	-	0	0	0
68	VDD1	+5V power supply	-	5.2	5.2	5.2
69	X2	Crystal oscillator	-	3	3	3
70	X1	Crystal oscillator	-	2.5	2.5	2.5
71	TEST	(Test terminal)	-	0	0	0
72	XT2	Crystal oscillator	-	2.9	2.9	2.9
73	XT1	Crystal oscillator	-	2.6	2.6	2.6
74	VDD0	+5V power supply	-	5.2	5.2	5.2
75	AVDD	+6V power supply	-	5.2	5.2	5.2
76	VSM	VSM	I	0	0	0
77	ACC	ACC detect	I	4.3	4.3	4.3
78	INIT/B	(+5V pull up)	-	5.2	5.2	5.2
79	SPEANA AIN	(Ground pull down)	-	0	0	0
80	LEVEL L	Level in	I	1.4	1.4	2.5

9.3. Display Block

IC901 : YEAMLC75854T

Pin No.	Port	Description	I/O	(V)
1-39	S1-39	LCD segment data	O	2.5
40-43	COM1-4	LCD common	O	2.5
44,45	KS1, 2	Not used	-	-
46-49	KS3-6	Key strobe	O	0.9
50-54	KI1-5	Key data	I	0
55	TEST	(Connecting to ground)	-	0
56	VDD	+5V power supply	-	5.1
57	VDD1	VDD1 filter terminal	-	3.3
58	VDD2	VDD2 filter terminal	-	1.7
59	VSS	Ground	-	0
60	OSC	Oscillator terminal	-	3.9
61	DO	Key data output	O	4.4
62	CE	LCD driver chip enable	I	0
63	CLK	LCD clock	I	0
64	DI	LCD data	I	0

9.4. CD Servo Block [CQ-DFX683N]

IC401 : YESAM176

Pin No.	Port	Descriptions	I/O	(V)
1	CVSS1	GND	-	0
2	-	-	-	-
3	CVSS2	GND	-	0
4	DVSS1	I/O system (3.3V) power supply	-	3.3
5	A10	Address bus of FLASH ROM	O	0
6	-	-	-	-
7	A11	Address bus of FLASH ROM	O	3.3
8	A12		O	3.3
9	A13		O	3.3
10	A14		O	3.3
11	A15		O	3.3
12	/CVDD1	CORE CPU system (1.6V) power supply	-	1.6
13	-	-	-	-
14	DVSS1	GND	-	0
15	CVSS3	GND	-	0
16	/CVDD2	I/O system (3.3V) power supply	-	1.6
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	nPS	FLASH ROM selection signal	O	3.3
21	-	-	-	-
22	-	-	-	-
23	R/W	Lead/light signal to FLASH ROM	O	3.3
24	nMSTRB	Memory access signal	O	3.3
25	-	-	-	-
26	-	-	-	-
27	MUTE	Mute signal output (H:Mute on)	O	0
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	SUBO	SUBO input	I	0
32	-	Operation mode setting (external pull-up)	I	3.3
33	DVDD2	I/O system (3.3V) power supply	-	3.3
34	CVSS4	GND	-	0
35	(GND)	GND	I	0
36	-	-	-	-
37	CVSS5	GND	-	0
38	-	-	-	-
39	-	-	-	-
40	DVSS2	GND	-	0

Pin No.	Port	Descriptions	I/O	(V)
41	CLK C M	AUDIO bit clock input	I	1.6
42	SCK	Clock input	I	3.3
43	LRCK C M	AUDIO L/R identifying signal input	I	1.6
44	CDFS	Serial frame sink signal input	I	2.6
45	DATA M C	AUDIO serial data input	I	1.6
46	-	-	-	-
47	SI	Serial data input	I	0
48	CLK M C	AUDIO bit clock output	O	1.6
49	SCK	Clock input	I	3.3
50	CVSS6	GND	-	0
51	-	-	-	-
52	CVDD3	CORE CPU system (1.6V) power supply	-	1.6
53	LRCK M C	AUDIO L/R identifying signal output	O	1.6
54	CDFS	Serial frame sink signal input	I	2.4
55	-	-	-	-
56	DVDD3	I/O system (3.3V) power supply	-	3.3
57	DVSS3	GND	-	0
58	REST SW	Mechanics deck REST SW input	I	3.3
59	DATA M C	AUDIO serial data output	O	1.6
60	SO	Serial data output	O	1.2
61	-	-	-	-
62	-	-	-	-
63	-	-	-	-
64	-	-	-	-
65	-	-	-	-
66	BLKCK	Subcode block clock pulse input	I	0
67	-	-	-	-
68	DVDD4	CORE CPU system (1.6V) power supply	-	1.6
69	SW1	Mechanics deck SW1 input	I	0
70	CVSS7	GND	-	0
71	MCLK	Clock output (To Servo DSP)	O	3.3
72	DVSS4	GND	-	0
73	MLD	Command load signal output (To Servo DSP)	I	3.3
74	MDATA	Command data output (To Servo DSP)	O	3.3
75	DVDD4	I/O system (3.3V) power supply	-	3.3
76	DVSS5	GND	-	0
77	-	Clock mode setting (L fixation)	I	0
78	-	Clock mode setting (H fixation)	I	3.3
79	-	Clock mode setting (L fixation)	I	-
80	-	-	-	-
81	SW2	Mechanics deck SW2 input	I	0
82	-	-	-	-
83	-	-	-	-
84	-	-	-	-
85	-	-	-	-
86	-	-	-	-
87	-	-	-	-
88	-	-	-	-
89	-	-	-	-
90	CVSS8	GND	-	3.3
91	CVDD5	CORE CPU system (1.6V) power supply	-	0
92	(GND)	GND	I	1.6
93	DVSS6	GND	-	0
94	-	-	-	-
95	CLKENA	Oscillation output Cainabl signal	O	3.3
96	x1	Crystal Connection	O	0
97	x2	Crystal Connection	I	0
98	(VDD)	Reset signal input	I	1

Pin No.	Port	Descriptions	I/O	(V)
99	D0	Data base of FLASH ROM	I/O	3.4
100	D1		I/O	0
101	D2		I/O	0
102	D3		I/O	0
103	D4		I/O	0
104	D5		I/O	0
105	A16	Address bus of FLASH ROM	O	0
106	DVSS7	GND	-	0
107	A17	Address bus of FLASH ROM	O	3.3
108	A18		O	0
109	A19		O	0
110	A20		O	0
111	CVSS9	GND	-	0
112	DVDD5	I/O system (3.3V) power supply	-	3.3
113	D6	Data bus of FLASH ROM	I/O	0
114	D7		I/O	0
115	D8		I/O	0
116	D9		I/O	0
117	D10		I/O	0
118	D11	Data bus of FLASH ROM	I/O	0
119	D12		I/O	0
120	STAT	Status signal input	I	0.4
121	D13	Data path of FLASH ROM	I/O	0
122	D14		I/O	0
123	D15		I/O	0
124	SQCK	SOCK clock output(To Servo DPS)	O	3.2
125	CVDD6	CORE CPU system (1.6V) power supply	-	1.6
126	CVSS10	GND	-	0
127	-	-	-	-
128	DVSS8	I/O system (3.3V) power supply	-	0
129	-	-	-	-
130	DVDD6	I/O system (3.3V) power supply	-	3.3
131	A0	Address bus of FLASH ROM	O	0
132	A1		O	0
133	A2		O	3.3
134	A3		O	3.3
135	/RST	Reset signal output(To Servo DSP)	O	3.3
136	A4	Address bus of FLASH ROM	O	3.3
137	A5		O	0
138	A6		O	3.3
139	A7		O	3.3
140	A8		O	0
141	A9		O	3.3
142	CVDD7	CORE CPU system (1.6V) power supply	-	1.6
143	-	-	-	-
144	DVSS9	GND	-	0

9.5. CD Servo Block

[CQ-DFX223N/DFX213N/DFX203N]

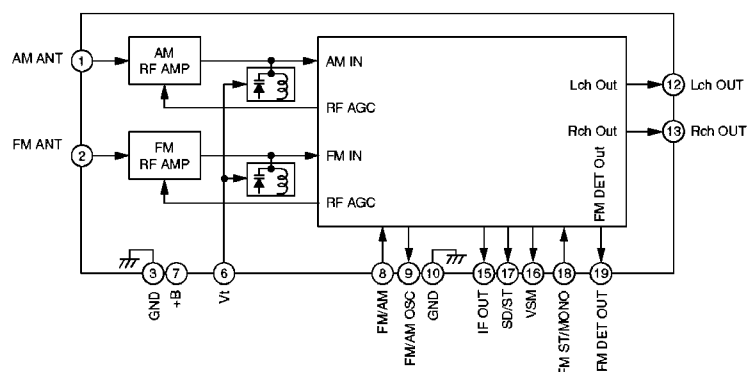
IC1 : C1BB00000665

Pin No.	Port	Description	I/O	(V)
1	D.GND	Digital Ground	-	0
2	RFOK	RFOK Signal	O	5
3	/RESET	Reset	I	5
4	A0	Address 0	I	4.6
5	/STB	Strobe	I	5.2
6	/SCK	Serial Clock	I	5.2
7	SO	Serial Data Output	O	0
8	SI	Serial Data Input	I	3
9	/XTALEN	Crystal Oscillaton Enable	I	0
10	D.VDD	Digital Power Supply	-	5
11	DA.VDD	D/A Converter Power Supply	-	4.9
12	ROUT	R-channel Audio Signal Output	O	-
13	DA.GND	D/A Converter Ground	-	-
14	REGC	Capacitor Connection for Regulator	-	-
15	DA.GND	D/A Converter Ground	-	-
16	LOUT	L-channel Audio Signal Output	O	-
17	DA.VDD	D/A Converter Power Supply	-	-
18	R+(NC)	-	-	-
19	R-(NC)	-	-	-
20	L-(NC)	-	-	-
21	L+(NC)	-	-	-
22	X.VDD	Crystal Oscillator Power Supply	-	-
23	XTAL	Crystal Connection	O	2.4
24	/XTAL	Crystal Connection	I	2.4
25	X.GND	Crystal Oscillator Ground	-	0
26	D.VDD	Digital Power Supply	-	5
27	EMPH (NC)	-	-	-
28	FLAG(NC)	-	-	-
29	DIN	Data Input	I	2.7
30	DOU	Data Output	O	2.7
31	SCKIN	Serial Clock Input	I	2.8
32	SCKO	Serial Clock Output	O	2.8
33	LRCKIN	LR Clock Input	I	2.6
34	LRCK	LR Clock	O	2.6
35	HOLD/WD CK(NC)	-	-	-
36	TX(NC)	-	-	-
37	D.GND	Digital Ground	-	0
38	C16M(NC)	-	-	-
39	LIMIT(NC)	-	-	-
40	D.VDD	Digital Power Supply	-	5
41	LOCK	Lock	O	5
42	RFCK(NC)	-	-	-
43	MIRR/WF CK(NC)	-	-	-
44	PLCK(NC)	-	-	-
45	D.GND	Digital Ground	-	0
46	C1D1(NC)	-	-	-
47	C1D2(NC)	-	-	-
48	C2D1(NC)	-	-	-
49	C2D2(NC)	-	-	-
50	C2D3(NC)	-	-	-
51	D.VDD	Digital Power Supply	-	5
52	PACK(NC)	-	-	-
53	TSO(NC)	-	-	-
54	TSI	Parameter Input for Text Data	I	0
55	/TSCK	Serial Clock for Text Data	I	0
56	TSTB	Text Parameter Strobe	I	0

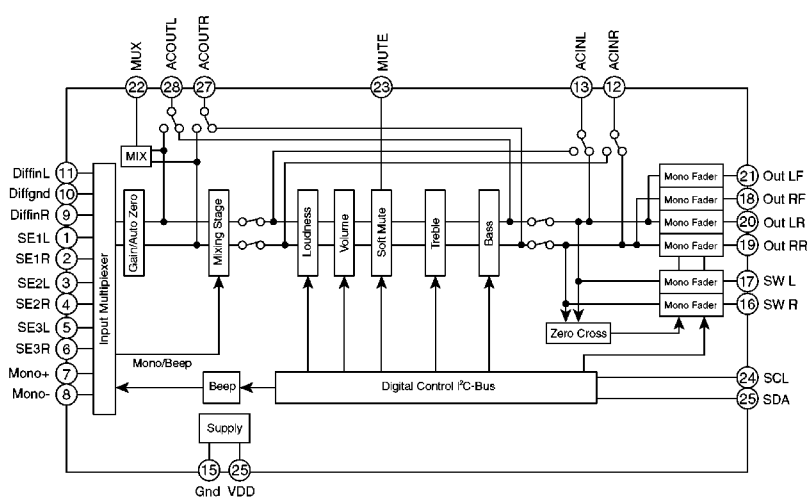
Pin No.	Port	Description	I/O	(V)
57	D.GND	Digital Ground	-	0
58	TEST0	Test	I	0
59	TEST1	Test	I	0
60	ATEST	Analog Test	O	2.2
61	A.GND	Analog Ground	-	0
62	FD	Focus Drive	O	2.5
63	TD	Tracking Drive	O	2.5
64	SD	Sled Drive	O	2.6
65	MD	Motor Drive	O	2.5
66	DAC0(NC)	-	-	-
67	DAC1(NC)	-	-	-
68	DAC2(NC)	-	-	-
69	DAC3(NC)	-	-	-
70	A.VDD	Digital Power Supply	-	5
71	EFM	EFM Signal	O	2.7
72	ASY	Slice Level	I	2.5
73	C3T	Capacitance Connection for 3T Signal Detecting Circuit	-	2.7
74	RFI	RF Signal Input	I	2.5
75	AGCO	AGC Amp Output	O	2.5
76	AGCI	AGC Amp Input	I	2.5
77	RFO	RF Amp Output	O	2.6
78	EQ2	Equalizer Parts Connection for RF Amp	-	2.5
79	EQ1	Equalizer Parts Connection for RF Amp	-	0
80	RF-	Impedance Connection to RF Amp for Negative Feedback	I	2.4
81	A.GND	Analog Ground	-	0
82	A	Error Signal Input	I	2.7
83	C(NC)	-	-	-
84	B	Error Signal Input	I	2.7
85	D(NC)	-	-	-
86	F	Error Signal Input	I	3
87	E	Error Signal Input	I	3
88	A.VDD	Analog Power Supply	-	5
89	REFOUT	Reference Output	O	2.5
90	FE-	Impedance Connection to Focus Error Amp for Negative Feedback	I	2.5
91	FEO	Focus Error Amp Output	O	2.5
92	TE-	Impedance Connection to Tracking Error Amp for Negative Feedback	I	2.5
93	TEO	Tracking Error Amp Output	O	2.5
94	TE2	Tracking Error Amp Output Multiplied by Two	O	2.7
95	TEC	Tracking Error Comparator	I	2.5
96	A.GND	Analog Ground	-	0
97	PD	Photo Diode Signal (for Detecting Laser Power) Input	I	0.2
98	LD	Laser Diode Control Current Output	O	3.7
99	PN	APC Circuit Polarity Control	I	0
100	A.VDD	Analog Power Supply	-	5

10 PACKAGE AND IC BLOCK DIAGRAM

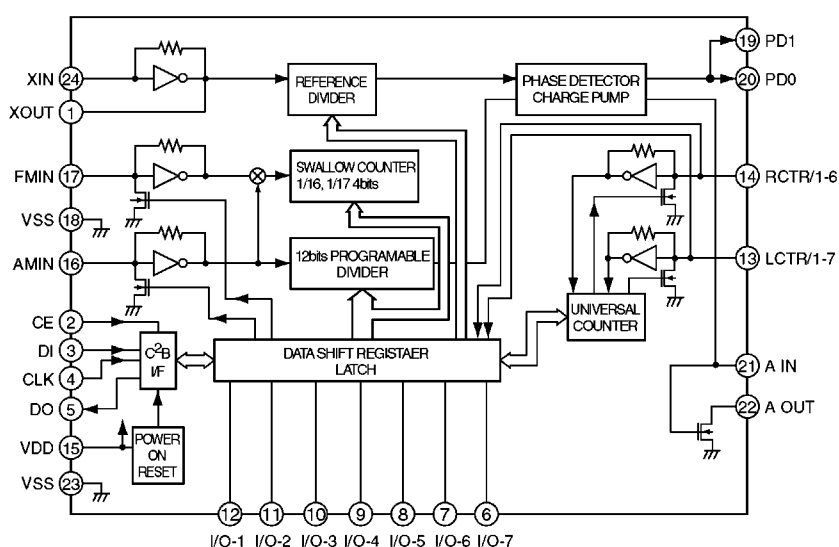
10.1. Main Block



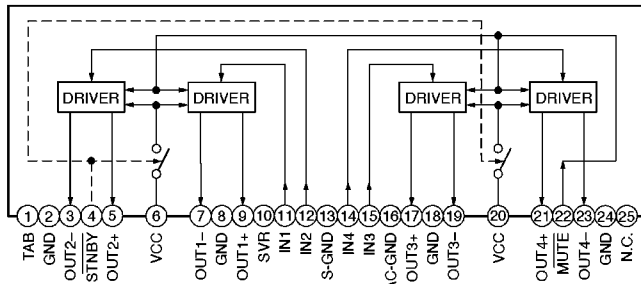
PA51 : YESAP263



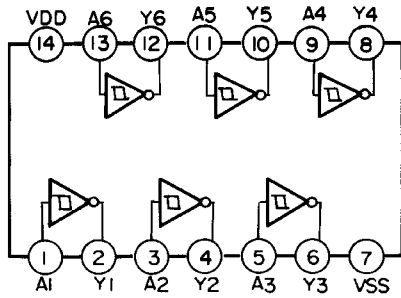
IC201 : C1BB00000543



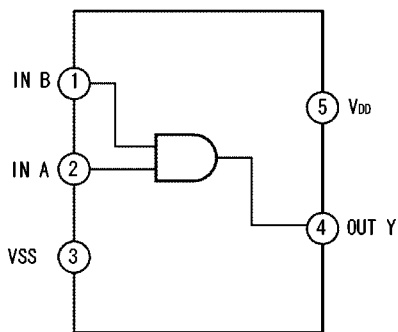
IC401 : C1BB00000644



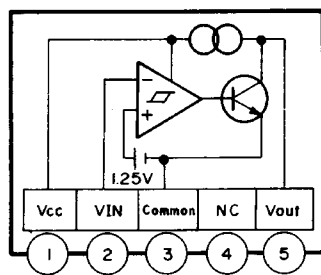
IC271 : C1EA00000021



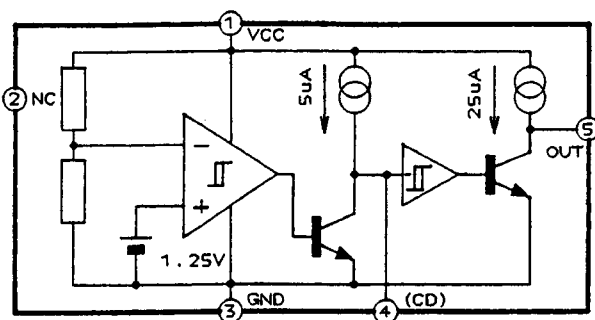
IC650 : YEAMTC4584FN



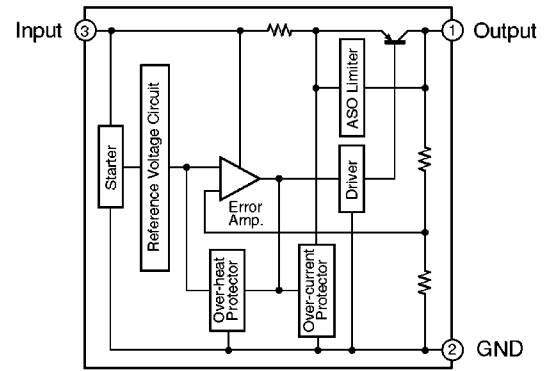
IC681 : TC7SET08E



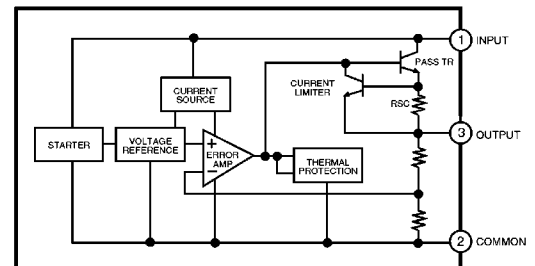
IC701 : C0EAB0000002



IC702 : C0EAH0000025



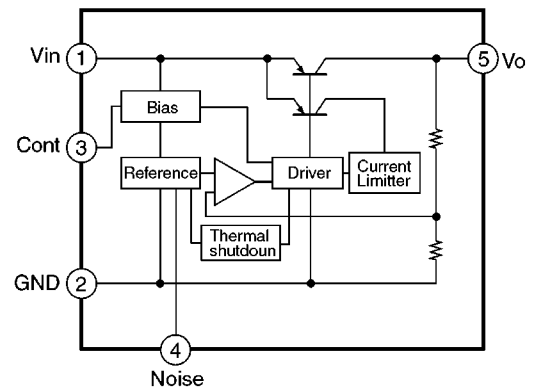
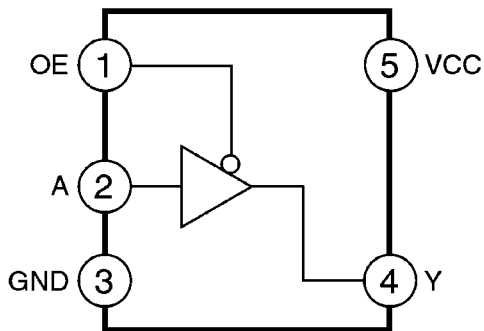
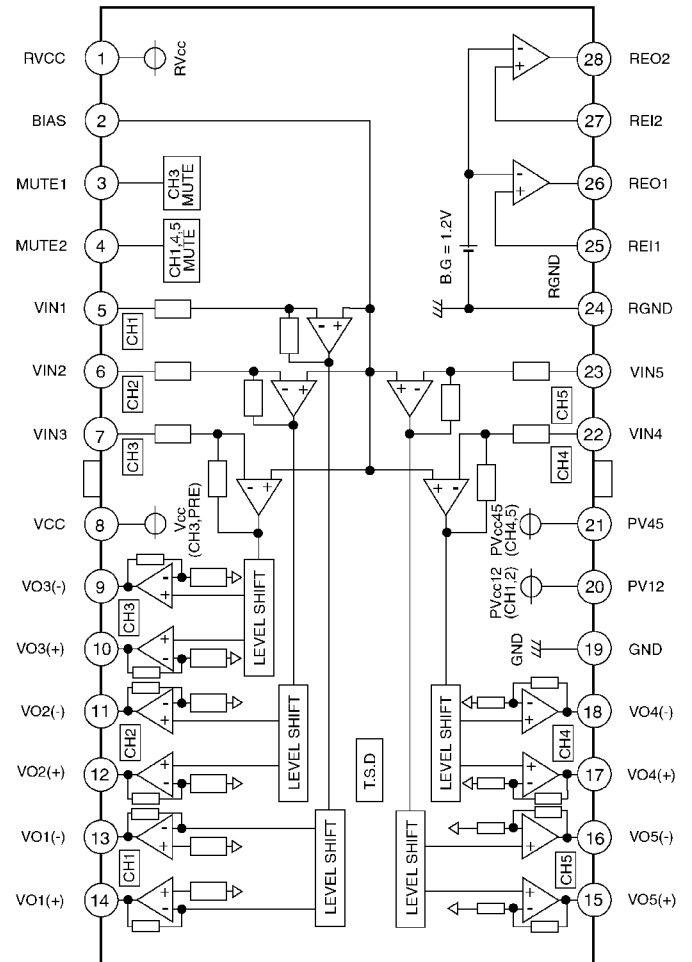
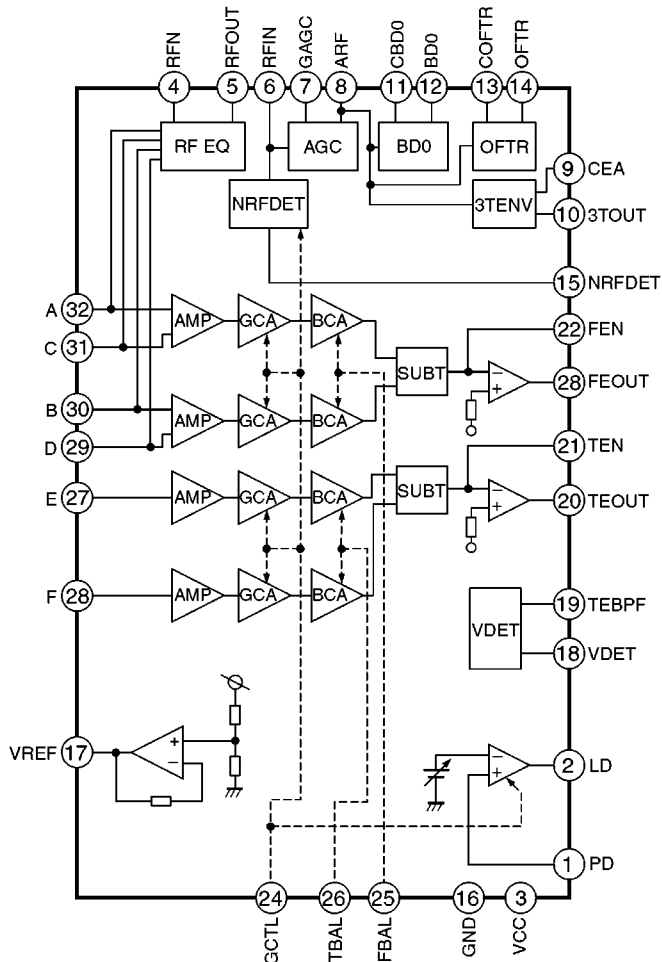
IC719 : YESAM158



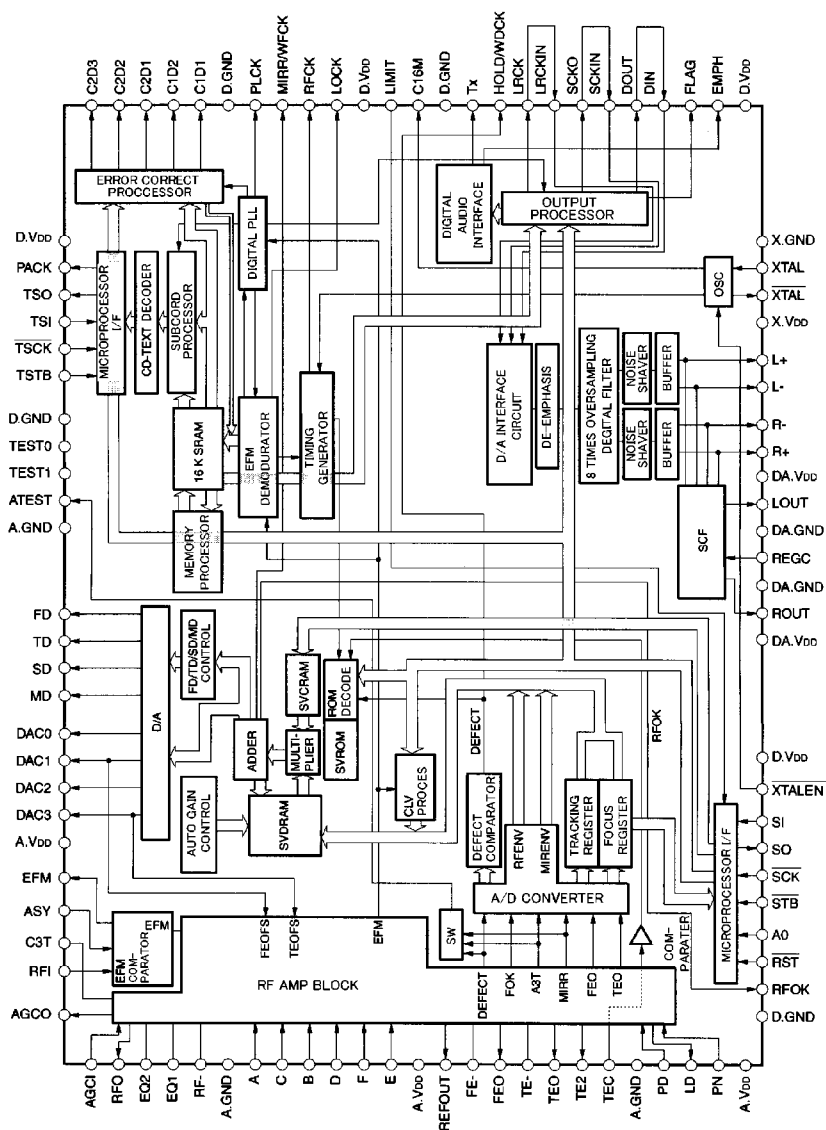
IC781 : C0CAAHF00001

IC783 : YESAM164 (CQ-DFX683N)

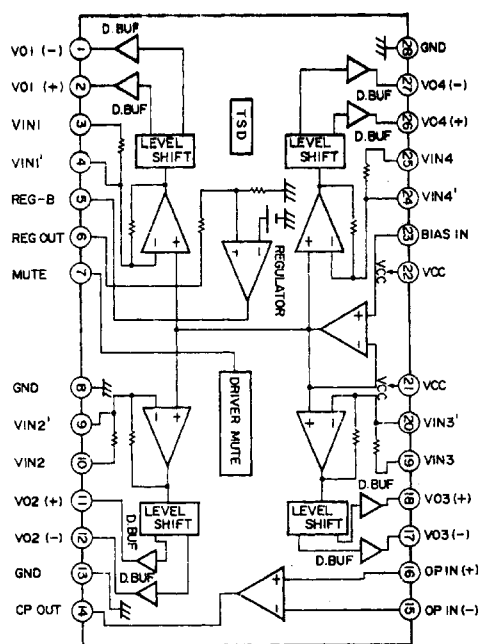
IC783 : YESAM159 (CQ-DFX223N/213N/203N)



10.3. CD Servo Block [CQ-DFX223N/DFX213N/DFX203N]



IC1 : C1BB00000665



IC4 : C0GBY0000020

11 REPLACEMENT PARTS LIST[CQ-DFX683N]

Notes :

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

Ref. No.	Part No.	Part Name & Description	Remarks
[7201-02-11A] Main Block			
IC's and Transistors			
IC201	C1BB00000543	IC	
IC271	C1EA00000021	IC	
IC280	C0ABBB000073	IC	
IC401	C1BB00000644	IC	
IC501	YESAM179	IC	
IC601	YESAM181	IC	
IC650	YEAMTC4584FN	IC	
IC681	TC7SET08F	IC	
IC701	C0EAB0000002	IC	
IC702	C0EAH0000025	IC	
IC719	YESAM158	IC	
IC761	C0CAAHF00001	IC	
IC781	C0CAAHF00001	IC	
IC783	YESAM164	IC	
PA51	YESAP263	Electronic Tuner	
Q52	B1GDCFN00002	Transistor	
Q54	B1GBCFN00004	Transistor	
Q55	B1GBNCEJ0001	Transistor	
Q66	YESAN063	Transistor	
Q262	B1GBHBEA0004	Transistor	
Q266	B1GBHBEA0004	Transistor	
Q362	B1GBHBEA0004	Transistor	
Q366	B1GBHBEA0004	Transistor	
Q411	B1CBGF000001	FET	
Q642	B1GBCFN00004	Transistor	
Q644	B1GDCFJN0004	Transistor	
Q645	B1GDCFJN0004	Transistor	
Q646	B1GBCFN00004	Transistor	
Q660	YEANFP1F3PT1	Transistor	
Q661	B1GDCFJA0001	Transistor	
Q670	B1GDCFJJ0002	Transistor	
Q681	B1GBCFJN0004	Transistor	
Q701	YESAN058	Transistor	
Q703	B1BCCF000017	Transistor	
Q704	B1GDJCEJ0001	Transistor	
Q705	YESAN058	Transistor	
Q708	YESAN059	Transistor	
Q709	B1BAAJ000005	Transistor	
Q720	B1GBNCEJ0001	Transistor	
Q721	B1GBCFJN0004	Transistor	
Q760	B1GBCFJN0004	Transistor	
Q761	B1BCCF000017	Transistor	

Ref. No.	Part No.	Part Name & Description	Remarks
Q781	B1BCCF000017	Transistor	
Q782	B1GBCFJN0004	Transistor	
DIODES			
D270	YESAD098	Diode	
D271	YESAD098	Diode	
D272	YESAD098	Diode	
D273	YESAD098	Diode	
D274	YESAD098	Diode	
D275	YESAD098	Diode	
D276	YESAD098	Diode	
D277	YESAD098	Diode	
D504	B0BC5R000004	Zener Diode	
D601	LN25RF	LED	
D603	MA3X152A0L	Diode	
D650	MA3X152A0L	Diode	
D676	MA3X152D0L	Diode	
D680	MA3X152A0L	Diode	
D681	B0BC5R000004	Zener Diode	
D682	YESAD101	Diode	
D702	B0EAMN000001	Diode	
D703	YESAD096	Zener Diode	
D705	MA3X70400R	Diode	
D706	B0EAMN000001	Diode	
D707	B0JCPE000004	Diode	
D708	YESAD097	Zener Diode	
D709	MA3X72100L	Diode	
D710	B0BC5R000004	Zener Diode	
D711	YESAD096	Zener Diode	
D713	B0EAMN000001	Diode	
D714	YESAD095	Zener Diode	
D719	YESAD102	Diode	
CAPACITORS			
C51	YESCC225	Ceramic, 47pF 50WV	
C53	YESCC234	Ceramic, 0.01pF 50WV	
C54	ECALAM331I	Electrolytic, 330pF 10WV	
C55	YESCC234	Ceramic, 0.01pF 50WV	
C56	YESCC219	Ceramic, 10pF 50WV	
C61	YESCC236	Ceramic, 0.018pF 50WV	
C62	YESCC236	Ceramic, 0.018pF 50WV	
C65	YESCC233	Ceramic, 1000pF 50WV	
C66	YESCC226	Ceramic, 470pF 50WV	
C201	FIJ1H681A025	Ceramic, 680pF 50WV	
C202	FIJ1H681A025	Ceramic, 680pF 50WV	
C203	ECALHKA3R3I	Electrolytic, 3.3pF 50WV	
C204	YESCC191	Ceramic, 2.2pF	
C206	YESCC191	Ceramic, 2.2pF	
C207	YESCC228	Ceramic, 0.1pF 16WV	
C208	YESCC230	Ceramic, 0.33pF 16WV	
C209	YESCC191	Ceramic, 2.2pF	
C210	YESCC228	Ceramic, 0.1pF 16WV	
C212	YESCC228	Ceramic, 0.1pF 16WV	
C220	ECALHKA2R2I	Electrolytic, 2.2pF 50WV	
C261	ECALHKA4R7I	Electrolytic, 4.7pF 50WV	
C263	ECALHKA010I	Electrolytic, 1pF 50WV	
C264	ECALHKA010I	Electrolytic, 1pF 50WV	
C265	ECALHKA4R7I	Electrolytic, 4.7pF 50WV	
C267	ECALHKA010I	Electrolytic, 1pF 50WV	
C268	ECALHKA010I	Electrolytic, 1pF 50WV	
C271	YESCC235	Ceramic, 4700pF 50WV	
C272	YESCC235	Ceramic, 4700pF 50WV	
C275	ECALHKA2R2I	Electrolytic, 2.2pF 50WV	
C276	ECALAKS101I	Electrolytic, 100pF 10WV	
C277	EALHGG010I	Electrolytic, 1pF 50WV	
C278	YESCC228	Ceramic, 0.1pF 16WV	
C279	EALCDT472Y	Electrolytic, 4700pF 16WV	
C280	YESCC228	Ceramic, 0.1pF 16WV	
C282	ECALAKA220I	Electrolytic, 22pF 10WV	
C284	YESCC231	Ceramic, 0.022pF 25WV	
C301	FIJ1H681A025	Ceramic, 680pF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
R283	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R301	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R302	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R303	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R304	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R305	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R307	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R308	ERJ6GEYJ363V	Chip, 36kΩ 1/10W	
R325	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R326	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R351	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R357	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R361	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R362	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R363	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R365	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R366	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R367	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R368	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R369	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R375	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R381	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R382	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R383	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R384	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R401	ERJ6GEYJ152	Chip, 1.5kΩ 1/10W	
R402	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R403	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R408	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R413	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R414	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R417	ERJ6GEYJ100	Chip, 100Ω 1/10W	
R418	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R419	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R420	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R421	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R422	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R423	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R424	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R425	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R501	ERJ6GEYJ225V	Chip, 2.2M 1/10W	
R504	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R506	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R507	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R510	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R601	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R604	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R605	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R607	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R608	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R609	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R610	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R611	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R612	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R614	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R618	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R620	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R621	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R622	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R623	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R624	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R625	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R626	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R628	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R631	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R632	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R633	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R634	ERJ6GEYJ564	Chip, 560kΩ 1/10W	
R635	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R636	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R638	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R640	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R641	ERJ6GEYJ473	Chip, 47kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R642	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R643	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R644	ERJ6GEYJ511V	Chip, 510Ω 1/10W	
R645	ERJ6GEYJ511V	Chip, 510Ω 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R652	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R653	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R656	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R657	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R658	ERJ8GEYJ152V	Chip, 1.5kΩ 1/8W	
R659	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R660	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R661	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R662	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R664	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R669	ERJ6GEYJ5R6V	Chip, 5.6Ω 1/10W	
R670	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R672	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R673	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R674	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R676	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R678	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R679	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R680	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R681	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R682	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R683	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R684	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R685	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R687	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R689	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R690	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R692	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R694	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R695	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R700	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R701	ERJ8GEYJ100V	Chip, 10Ω 1/8W	
R702	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R703	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R704	ERJ6GEYJ684	Chip, 680kΩ 1/10W	
R705	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R706	ERJ6GEYJ204V	Chip, 200kΩ 1/10W	
R707	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R708	ERJ6GEYJ113V	Chip, 11kΩ 1/10W	
R709	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R710	ERDS1FJ820	Chip, 82Ω 1/2W	
R711	ERDS1FJ820	Chip, 82Ω 1/2W	
R712	ERJ8GEYJ1R0V	Chip, 1Ω 1/8W	
R713	ERJ8GEYJ1R0V	Chip, 1Ω 1/8W	
R714	ERDS1FJ102	Chip, 1kΩ 1/2W	
R718	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R719	ERDS2TJ681	Chip, 680Ω 1/4W	
R720	ERJ6GEYJ362V	Chip, 3.6kΩ 1/10W	
R722	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R723	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R733	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R759	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R771	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R781	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R782	ERDS1FJ680	Chip, 68Ω 1/2W	
R786	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R806	ERJ6GEYJ512	Chip, 5.1kΩ 1/10W	
R807	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R808	ERJ6GEYJ512	Chip, 5.1kΩ 1/10W	
R809	ERJ6GEYJ512	Chip, 5.1kΩ 1/10W	
R810	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R812	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R817	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
CONNECTORS			
J1	K2HA104B0010	Jack, RCA	

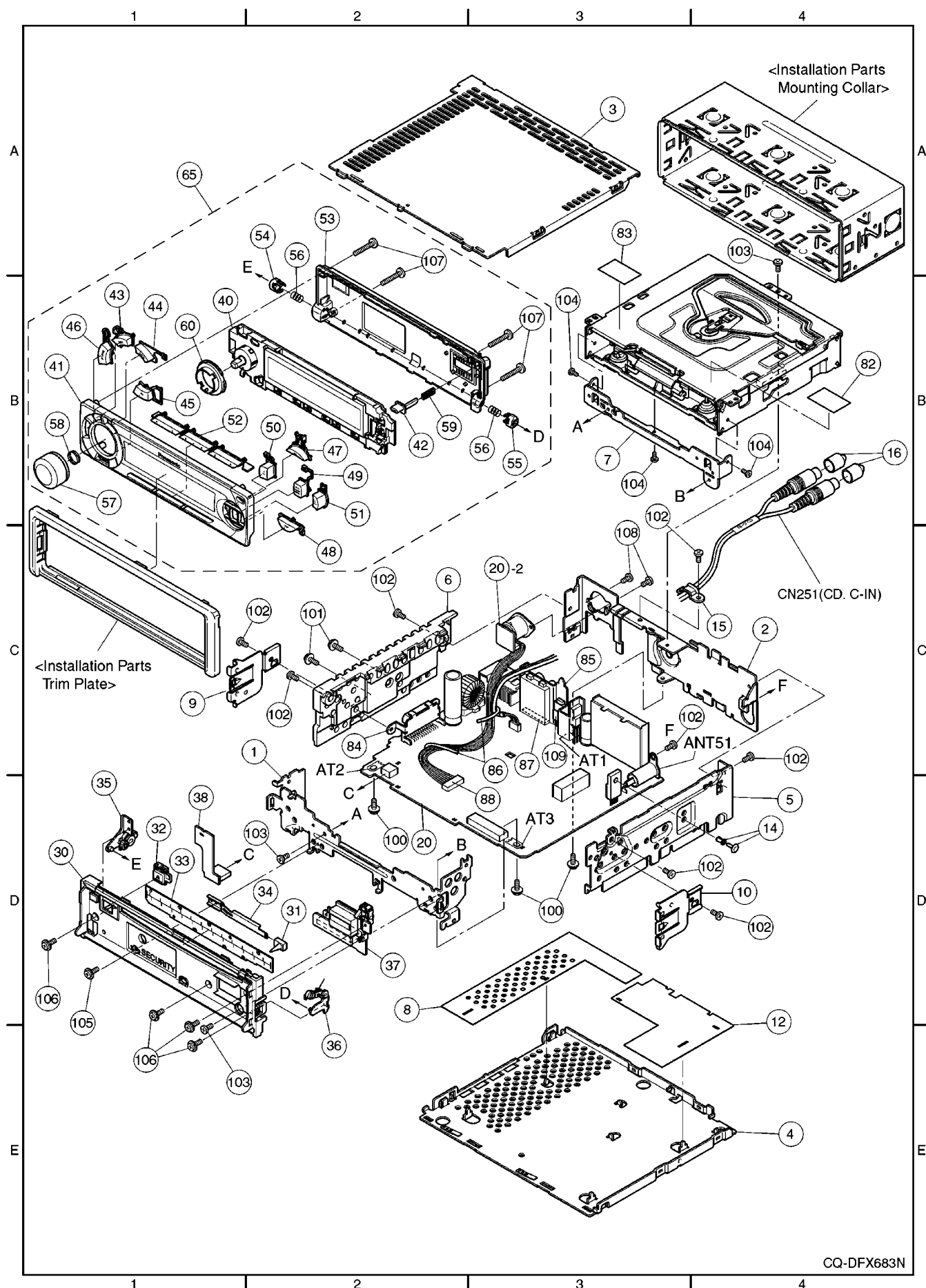
Ref. No.	Part No.	Part Name & Description	Remarks
CN251	YESAJ07008	2RCA (CD.C-IN)	
CN601	K1KB15B00010	Connector, 15P	
CN602	YESAE339	Connector, 4P	
CN661	YESAJ07007	Connector, 7P	
CN680	YESAE343	8P DIN Connector	
CN681	YESAE344	Connector, 18P	
CN701	K1FA116B0028	Connector, 16P	
COILS			
L50	YESLQ013	Coil	
L51	G1C150K00011	Coil	
L401	G0C101K00010	Coil	
L501	YESLA004	Coil	
L504	YESLA004	Coil	
L671	YESLQ012	Coil	
L701	J0JKA0000001	Coil	
L702	G0A201J00001	Coil	
CRYSTALS			
XL401	H0D720400003	Crystal	
XL501	YESXL019	Crystal	
XL601	YESXL017	Crystal	
XL602	H0A327200080	Crystal	
THERMISTOR			
PT701	YERT7AR4R7MT	Thermistor	
SWITCH			
SW601	K0L1BB000003	Switch	
SERGE PROTECTOR			
Z50	J0LE00000002	Serge Protector	
VARISTOR			
Z701	ERZS07DK470T	Varistor	
[7201-05-01] Display Block			
IC's and TRANSISTORS			
IC901	YEAMLC75854T	IC	
IC905	B3MBZ0000006	IC	
Q901	B1GDCFJJ0008	Transistor	
Q902	B1GBCFNN0009	Transistor	
DIODES			
D901	B3AAB0000143	LED	
D902	B3AAB0000143	LED	
D903	B3AAB0000143	LED	
D904	B3AAB0000143	LED	
D905	B3AAB0000143	LED	
D906	B3AAB0000143	LED	
D907	B3AAB0000143	LED	
D908	B3AAB0000143	LED	
D909	B3AAB0000143	LED	
D910	B3AAB0000143	LED	
D911	B3AAB0000143	LED	
D912	B3AAB0000143	LED	
D913	B3AAB0000143	LED	
D914	B3AAB0000143	LED	
D915	B3AAB0000143	LED	
D926	MAZ805600L	Zener Diode	
D927	MAZ805600L	Zener Diode	
D928	MAZ805600L	Zener Diode	
D929	MAZ805600L	Zener Diode	
D940	B3AFB0000039	LED	
D941	B3AFB0000039	LED	
D942	MA8047MTX	Zener Diode	

Ref. No.	Part No.	Part Name & Description	Remarks
D943	MA8047MTX	Zener Diode	
CAPACITORS			
C910	YESCC233	Ceramic, 1000pF 50WV	
C911	YESCC229	Ceramic, 1pF 16WV	
C912	YESCC229	Ceramic, 1pF 16WV	
C914	YESCC228	Ceramic, 0.1pF 16WV	
C915	YESCC228	Ceramic, 0.1pF 16WV	
C916	YESCC228	Ceramic, 0.1pF 16WV	
C923	FLJ1H681A025	Ceramic, 680pF 50WV	
RESISTORS			
R906	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R907	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R909	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R910	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R939	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R940	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R941	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R942	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R944	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R956	ERJ6GEYJ821	Chip, 820Ω 1/10W	
R958	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R959	ERJ6GEYJ511V	Chip, 510Ω 1/10W	
R960	ERJ6GEYJ511V	Chip, 510Ω 1/10W	
R961	ERJ6GEYJ511V	Chip, 510Ω 1/10W	
R962	ERJ6GEYJ152	Chip, 1.5kΩ 1/10W	
R963	ERJ6GEYJ511V	Chip, 510Ω 1/10W	
CONNECTOR			
CN901	YEAE012760	Connector 14P	
SWITCHES			
SW901	K9AA024A0007	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
SW915	K0H1BA000445	Switch	
SW916	K0H1BA000445	Switch	
SW917	K0H1BA000445	Switch	
SW918	K0H1BA000445	Switch	
LCD			
LCD901	YESXDCU007	LCD	
[7201-02-14] Connector Block			
CN640	K1KA15A00096	Connector 15P	
CP641	YEAE012761	Connector 14P	
[7201-02-13] Eject Block			
D642	B3ABB0000154	LED	
D643	B3ABB0000154	LED	
SW610	K0H1BA000445	Switch	
CJ642	K1KA04A00296	Connector 4P	

Ref. No.	Part No.	Part Name & Description	Remarks
Accessories			
PRINTING			
	YEFM283971	Operating Instructions	
	YEFM292934	Installation Instructions (A)	
	YEFM292935	Installation Instructions (B)	
INSTALLATION PARTS			
	YEFAL31733	Removal Face Plate Case	
	YEAJ02874	Power Connector	
	YEFX9992663	Remote Control Unit	
	YEP0FX3316	Screws Kit (Bolt, ISO antenna adapter, Lock cancel plate)	
	YESFX018006	Mounting Collar	
	YESFC05016	Trim Plate	
	CR2025/1F	Lithium Battery	△
MECHANICAL PARTS			
MISCELLANEOUS			
ANT51	YM104C700ZA	ANT Jack	
AT1	K4ZZ01000048	Earth Terminal	
AT2	K4ZZ01000048	Earth Terminal	
AT3	K4ZZ01000048	Earth Terminal	
1	YESFA01066	Front Chassis	
2	YESFA08018	Rear Plate 683N	
3	YESFA03053	Top Cover A	
4	YESFA05034	Bottom Cover Assy	
5	YESFA09004	Side Plate	
6	YESFF01079	Heat Sink	
7	YESFG02027	Front Bracket	
8	YESFV01061	Insulated Sheet L	
9	YESFX005133	Plate Spring L	
10	YESFX005134	Plate Spring R	
12	YESFV01062	Insulated Sheet R	
14	YESFX014007	Rivet	
15	YESFX007024	Cord Clamper	
16	YESFR04010	RCA Cap	
20	YESAP268	Main PCB Assy	RTL
30	YESFC02079	Escutcheon	
31	YEFX9992957	Cap Lever Detect	
32	YESFEL3116	Eject Button	
33	YESFS04016	Dust Felt	
34	YESFX999053	Lever Spring Detect	
35	YESFX999050	Bracket Arm L Assy	
36	YESFX999051	Bracket Arm R Assy	
37	YESAP252	CN PCB/BKT Hook Assy	RTL
38	YESAP253	EJ PCB Assy	RTL
40	YESAP251	Display PCB Assy	RTL
41	YESFC02090	Escutcheon Assy	
42	YESFEL3115	Button (OPEN)	
43	YESFEL3108	Button (MUTE)	
44	YESFEL3109	Button (S HDB)	
45	YESFEL3124	Button (TA)	
46	YESFEL3111	Button (SOURCE)	
47	YESFEL3125	Button (AF)	
48	YESFEL3113	Button (DISP)	
49	YESFEL3114	Button (BAND APM)	
50	YESFEL3117	Button (TUNE DOWN)	
51	YESFEL3118	Button (TUNE UP)	
52	YESFEL3119	Preset Button	
53	YESFA07008	Rear Cover	
54	YESFX999054	Rear Cover Metal L	
55	YESFX999055	Rear Cover Metal R	
56	YESFX005135	Metal Spring	
57	YESFE02017	Vol Knob	
58	YESFX005131	Knob Spring	
59	YESFX005136	Open Button Spring	
60	YESFL02041	Indicator (Vol)	
65	YESSDP0113	Removable Face Plate Unit	RTL
82	YESFM01083	Laser Seal (3 Language)	

Ref. No.	Part No.	Part Name & Description	Remarks
83	YESFM01084	Laser Seal (4 Language)	
84	YESFG02029	PWR IC Bracket	
85	YESFG02030	RCA Bracket	
86	YESFX007023	Style Pin	
87	YESFL02041	PCB Sheet	
88	YESAJ07007	Connector, 7P w/wire	
100	YESJS01165	Cup Screw S Tite M3.0*6.0	
101	YESJS01160	Cap Screw 3*6	
102	YESJT03067	Tapping Screw BindjS Tite M3*6	
103	YESJS01163	S Tite Bind 2.6*6 Black CR	
104	YESJS01162	C Tite 2.0*3.0	
105	YESJS01161	Cap Screw 2*5 Black CR	
106	YESJS01159	Cap Screw 2*4	
107	YESJS01164	P Tite 2*8 Black CR	
108	YESJS01166	Screw Bind 3.0*6.0	
109	YESJT03069	Tapping Screw Bind 2.6*8	

12 EXPLODED VIEW [CQ-DFX683N]



CQ-DFX683N

13 REPLACEMENT PARTS LIST[CQ-DFX223N/DFX213N/DFX203N]

Notes :

- Be sure to make your orders of replacement parts according to this list.
- Important safety notice: Components, identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
- The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
 - Order intake period is basically six months after the first shipment.
- "A" or "B" marks in remarks column are indicated as follows :
 - A : CQ-DFX223N
 - B : CQ-DFX213N
 - C : CQ-DFX203N

Ref. No.	Part No.	Part Name & Description	Remarks
[7201-02-11A] Main Block			
IC's and Transistors			
IC201	C1BB00000543	IC	
IC271	C1EA00000021	IC	
IC280	C0ABBB000073	IC	
IC401	C1BB00000644	IC	
IC501	YESAM179	IC	
IC601	YESAM180	IC	
IC650	YEAMTC4584FN	IC	
IC701	C0EAB0000002	IC	
IC702	C0EAH0000025	IC	
IC719	YESAM158	IC	
IC761	C0CAAHF00001	IC	
IC781	C0CAAHF00001	IC	
IC783	YESAM159	IC	
PA51	YESAP263	Electronic Tuner	
Q52	B1GDCFNN0002	Transistor	
Q54	B1GBCFNN0004	Transistor	
Q55	B1GBNCEJ0001	Transistor	
Q66	YESAN063	Transistor	
Q262	B1GBHBEA0004	Transistor	
Q266	B1GBHBEA0004	Transistor	
Q362	B1GBHBEA0004	Transistor	
Q366	B1GBHBEA0004	Transistor	
Q411	B1CBGF000001	FET	
Q642	B1GBCFNN0004	Transistor	
Q644	B1GDCFJN0004	Transistor	
Q645	B1GDCFJN0004	Transistor	
Q646	B1GBCFNN0004	Transistor	
Q660	YEANFP1F3PT1	Transistor	
Q661	B1GDCFJA0001	Transistor	
Q670	B1GDCFJJ0002	Transistor	

Ref. No.	Part No.	Part Name & Description	Remarks
Q701	YESAN058	Transistor	
Q703	B1BCCF000017	Transistor	
Q704	B1GDJCEJ0001	Transistor	
Q705	YESAN058	Transistor	
Q708	YESAN059	Transistor	
Q709	B1BAAJ000005	Transistor	
Q720	B1GBNCEJ0001	Transistor	
Q721	B1GBCFJN0004	Transistor	
Q760	B1GBCFJN0004	Transistor	
Q761	B1BCCF000017	Transistor	
Q781	B1BCCF000017	Transistor	
Q782	B1GBCFJN0004	Transistor	
DIODEs			
D270	YESAD098	Diode	
D271	YESAD098	Diode	
D272	YESAD098	Diode	
D273	YESAD098	Diode	
D274	YESAD098	Diode	
D275	YESAD098	Diode	
D276	YESAD098	Diode	
D277	YESAD098	Diode	
D504	B0BC5R000004	Zener Diode	
D601	LN25RP	LED	
D603	MA3X152A0L	Diode	
D650	MA3X152A0L	Diode	
D676	MA3X152D0L	Diode	
D680	MA3X152A0L	Diode	
D681	B0BC5R000004	Zener Diode	
D682	YESAD101	Diode	
D702	B0EAMM000001	Diode	
D703	YESAD096	Zener Diode	
D705	MA3X70400R	Diode	
D706	B0EAMM000001	Diode	
D707	B0JCPE000004	Diode	
D708	YESAD097	Zener Diode	
D709	MA3X72100L	Diode	
D710	B0BC5R000004	Zener Diode	
D711	YESAD096	Zener Diode	
D713	B0EAMM000001	Diode	
D714	YESAD095	Zener Diode	
D719	YESAD102	Diode	
CAPACITORS			
C51	YESCC225	Ceramic, 47pF 50WV	
C53	YESCC234	Ceramic, 0.01μF 50WV	
C54	ECA1AM331I	Electrolytic, 330μF 10WV	
C55	YESCC234	Ceramic, 0.01μF 50WV	
C56	YESCC219	Ceramic, 10pF 50WV	
C61	YESCC236	Ceramic, 0.018μ 50WV	
C62	YESCC236	Ceramic, 0.018μ 50WV	
C65	YESCC233	Ceramic, 1000pF 50WV	
C66	YESCC226	Ceramic, 470pF 50WV	
C201	FLJ1H681A025	Ceramic, 680pF 50WV	
C202	FLJ1H681A025	Ceramic, 680pF 50WV	
C203	ECEA1HKA3R3I	Electrolytic, 3.3μF 50WV	
C204	YESCC191	Ceramic, 2.2μF	
C206	YESCC191	Ceramic, 2.2μF	
C207	YESCC228	Ceramic, 0.1μF 16WV	
C208	YESCC230	Ceramic, 0.33μF 16WV	
C209	YESCC191	Ceramic, 2.2μF	
C210	YESCC228	Ceramic, 0.1μF 16WV	
C212	YESCC228	Ceramic, 0.1μF 16WV	
C220	ECEA1HKA2R2I	Electrolytic, 2.2μF 50WV	
C261	ECEA1HKA4R7I	Electrolytic, 4.7μF 50WV	
C263	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C264	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C265	ECEA1HKA4R7I	Electrolytic, 4.7μF 50WV	
C267	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C268	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C271	YESCC235	Ceramic, 4700pF 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C272	YESCC235	Ceramic, 4700pF 50WV	
C275	ECEA1HKA2R2I	Electrolytic, 2.2μF 50WV	
C276	ECEA1AKS101I	Electrolytic, 100μF 10WV	
C277	ECA1HHG010I	Electrolytic, 1μF 50WV	
C278	YESCC228	Ceramic, 0.1μF 16WV	
C279	ECA1CDT472Y	Electrolytic, 4700μF 16WV	
C280	YESCC228	Ceramic, 0.1μF 16WV	
C282	ECEA1AKA220I	Electrolytic, 22μF 10WV	
C284	YESCC231	Ceramic, 0.022μF 25WV	
C301	FL1JH681A025	Ceramic, 680pF 50WV	
C302	FL1JH681A025	Ceramic, 680pF 50WV	
C303	ECEA1HKA3R3I	Electrolytic, 3.3μF 50WV	
C304	YESCC191	Ceramic, 2.2μF	
C306	YESCC191	Ceramic, 2.2μF	
C308	YESCC230	Ceramic, 0.33μF 16WV	
C309	ECEA1CKA100I	Electrolytic, 10μF 16WV	
C310	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C320	ECEA1HKA2R2I	Electrolytic, 2.2μF 50WV	
C325	YESCC222	Ceramic, 220pF 50WV	
C361	ECEA1HKA4R7I	Electrolytic, 4.7μF 50WV	
C363	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C364	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C365	ECEA1HKA4R7I	Electrolytic, 4.7μF 50WV	
C367	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C368	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C371	YESCC235	Ceramic, 4700pF 50WV	
C372	YESCC235	Ceramic, 4700pF 50WV	
C375	ECEA1CKA100I	Electrolytic, 10μF 16WV	
C378	YESCC228	Ceramic, 0.1μF 16WV	
C381	YESCC233	Ceramic, 1000pF 50WV	
C401	C2012CH1H150J	Ceramic, 15pF 50WV	
C402	C2012CH1H150J	Ceramic, 15pF 50WV	
C403	ECEA0JKA101I	Electrolytic, 100μF 6.3WV	
C404	YESCC234	Ceramic, 0.01μF 50WV	
C405	YESCC220	Ceramic, 100pF 50WV	
C411	YESCC234	Ceramic, 0.01μF 50WV	
C412	YESCC231	Ceramic, 0.022μF 25WV	
C413	ECQV1H224JL2	Film, 0.22μF 50WV	
C417	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C418	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C419	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C420	YESCC193	Ceramic, 47pF 50WV	
C421	YESCC193	Ceramic, 47pF 50WV	
C501	YESCC223	Ceramic, 27pF 50WV	
C502	YESCC219	Ceramic, 10pF 50WV	
C504	ECEA1CKA470I	Electrolytic, 47μF 16WV	
C505	YESCC228	Ceramic, 0.1μF 16WV	
C506	YESCC234	Ceramic, 0.01μF 50WV	
C507	YESCC224	Ceramic, 270pF 50WV	
C508	ECEA1CKA100I	Electrolytic, 10μF 16WV	
C601	EECS0HD473H	Electrolytic, 0.047μF 5.5WV	
C602	ECEA0JKA331I	Electrolytic, 330μF 6.3WV	
C605	YESCC234	Ceramic, 0.01μF 50WV	
C624	YESCC228	Ceramic, 0.1μF 16WV	
C628	YESCC228	Ceramic, 0.1μF 16WV	
C631	YESCC229	Ceramic, 1μF 16WV	
C634	YESCC221	Ceramic, 22pF 50WV	
C635	YESCC221	Ceramic, 22pF 50WV	
C636	YESCC234	Ceramic, 0.01μF 50WV	
C651	YESCC234	Ceramic, 0.01μF 50WV	
C660	ECEA1HKA2R2I	Electrolytic, 2.2μF 50WV	
C674	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C675	YESCC234	Ceramic, 0.01μF 50WV	
C680	ECSH1CY225R	Tantalum, 2.2μF 16WV	
C683	ECEA1HKA4R7I	Electrolytic, 4.7μF 50WV	
C687	ECEA1CKA470I	Electrolytic, 47μF 16WV	
C688	YESCC228	Ceramic, 0.1μF 16WV	
C701	YESCC192	Electrolytic, 220μF 16WV	
C702	ECEA1HKA4R7I	Electrolytic, 4.7μF 50WV	
C704	ECEA0JKA470I	Electrolytic, 47μF 6.3WV	
C705	ECEA1HKA010I	Electrolytic, 1μF 50WV	
C708	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C710	ECEA1AKS101I	Electrolytic, 100μF 10WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C711	ECEA0JKA470I	Electrolytic, 47μF 6.3WV	
C713	YESCC228	Ceramic, 0.1μF 16WV	
C715	ECA1CDT102UB	Electrolytic, 1000μF 16WV	
C717	YESCC228	Ceramic, 0.1μF 16WV	
C718	YESCC228	Ceramic, 0.1μF 16WV	
C719	EEAFC1A820H	Electrolytic, 82μF 10WV	
C720	ECEA1CKA101I	Electrolytic, 100μF 16WV	
C721	ECEA0JKA470I	Electrolytic, 47μF 6.3WV	
C752	YESCC228	Ceramic, 0.1μF 16WV	
C768	ECA1EHG470I	Electrolytic, 47μF 25WV	
C769	YESCC232	Ceramic, 0.22μF 25WV	
C770	YESCC232	Ceramic, 0.22μF 25WV	
C771	EEAFC1A820H	Electrolytic, 82μF 10WV	
C781	YESCC232	Ceramic, 0.22μF 25WV	
C782	YESCC232	Ceramic, 0.22μF 25WV	
C783	ECEA1AKS101I	Electrolytic, 100μF 10WV	
C786	YESCC228	Ceramic, 0.1μF 16WV	
C787	ECEA0JKA101I	Electrolytic, 100μF 6.3WV	
C788	YESCC228	Ceramic, 0.1μF 16WV	
C789	ECEA1AKS101I	Electrolytic, 100μF 10WV	
C791	YESCC228	Ceramic, 0.1μF 16WV	
C792	YESCC218	Ceramic, 0.033μF 25WV	
C793	YESCC232	Ceramic, 0.22μF 25WV	
C794	YESCC228	Ceramic, 0.1μF 16WV	
C795	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C796	ECEA1AKS221I	Electrolytic, 220μF 10WV	
C797	YESCC234	Ceramic, 0.01μF 50WV	
C798	YESCC228	Ceramic, 0.1μF 16WV	
RESISTORS			
FB201	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
FB202	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
FB301	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
FB302	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
J001	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J002	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J201	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J204	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J205	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J207	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J208	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J302	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
J303	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
J50	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
JP003	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L61	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L62	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L291	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L298	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
L398	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R50	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R51	ERJ6GEYJ5R6V	Chip, 5.6Ω 1/10W	
R52	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
R53	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R59	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R65	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R66	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R67	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R68	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R201	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R202	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R203	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R204	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R205	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R207	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R208	ERJ6GEYJ363V	Chip, 36kΩ 1/10W	
R225	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R226	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R227	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R251	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R257	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R261	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R262	ERJ6GEYJ103	Chip, 10kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R263	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R265	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R266	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R267	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R268	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R269	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R275	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R280	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R283	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R301	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R302	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R303	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R304	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R305	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R307	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R308	ERJ6GEYJ363V	Chip, 36kΩ 1/10W	
R325	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R326	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R351	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R357	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R361	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R362	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R363	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R365	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R366	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R367	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R368	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R369	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R375	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R381	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R382	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R383	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R384	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R401	ERJ6GEYJ152	Chip, 1.5kΩ 1/10W	
R402	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R403	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R408	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R413	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R414	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R417	ERJ6GEYJ100	Chip, 10ohm; 1/10W	
R418	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R419	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R420	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R421	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R422	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R423	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R424	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R425	ERJ6GEYJ221V	Chip, 220Ω 1/10W	
R501	ERJ6GEYJ225V	Chip, 2.2M 1/10W	
R504	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R506	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R507	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R510	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R600	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R601	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R604	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R605	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R607	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R608	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R609	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R610	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R611	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R612	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R614	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R618	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R620	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R621	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R622	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R623	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R624	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R625	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R626	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R628	ERJ6GEYJ184	Chip, 180kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R631	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R632	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R633	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R634	ERJ6GEYJ564	Chip, 560kΩ 1/10W	
R635	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R636	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R638	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R640	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R641	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R642	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R643	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R644	ERJ6GEYJ391	Chip, 390Ω 1/10W	
R645	ERJ6GEYJ391	Chip, 390Ω 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R652	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R653	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R656	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R657	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R658	ERJ8GEYJ152V	Chip, 1.5kΩ 1/8W	
R659	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R660	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R661	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R662	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R664	ERJ6GEYJ471	Chip, 470Ω 1/10W	
R669	ERJ6GEYJ5R6V	Chip, 5.6Ω 1/10W	
R670	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R672	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R673	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R674	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R676	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R678	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R679	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R680	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R681	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R682	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R683	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R684	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R685	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R687	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R689	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R690	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R691	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R692	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R693	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R694	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R695	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R696	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R697	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R698	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R699	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R700	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R701	ERJ8GEYJ100V	Chip, 10Ω 1/8W	
R702	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R703	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R704	ERJ6GEYJ684	Chip, 680kΩ 1/10W	
R705	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R706	ERJ6GEYJ204V	Chip, 200kΩ 1/10W	
R707	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R708	ERJ6GEYJ113V	Chip, 11kΩ 1/10W	
R709	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R710	ERDS1FJ820	Chip, 82Ω 1/2W	
R711	ERDS1FJ820	Chip, 82Ω 1/2W	
R712	ERJ8GEYJ1R0V	Chip, 1Ω 1/8W	
R713	ERJ8GEYJ1R0V	Chip, 1Ω 1/8W	
R714	ERDS1FJ102	Chip, 1kΩ 1/2W	
R718	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R719	ERDS2TJ681	Chip, 680Ω 1/4W	
R720	ERJ6GEYJ362V	Chip, 3.6kΩ 1/10W	
R722	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R723	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R731	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R733	ERJ6GEYJ223	Chip, 22kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R759	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R771	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R781	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R782	ERDS1FJ680	Chip, 68 Ω 1/2W	
R786	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R812	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R817	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
CONNECTORS			
J1	K2HA104B0010	Jack, RCA	
CN251	YESAJ07008	2RCA (CD.C-IN)	
CN601	K1KB15B00010	Connector, 15P	
CN602	YESAE339	Connector, 4P	
CN661	YESAJ07007	Connector, 7P	
CN680	YESAE343	8P DIN Connector	
CN681	YESAE340	Connector, 22P	
CN701	K1FA116B0028	Connector, 16P	
COILS			
L401	G0C101K00010	Coil	
L50	YESLQ013	Coil	
L51	G1C150K00011	Coil	
L501	YESLA004	Coil	
L504	YESLA004	Coil	
L671	YESLQ012	Coil	
L701	J0JKA0000001	Coil	
L702	G0A201J00001	Coil	
CRYSTALS			
XL401	H0D720400003	Crystal	
XL501	YESXL019	Crystal	
XL601	YESXL017	Crystal	
XL602	H0A327200080	Crystal	
THERMISTOR			
PT701	YERT7AR4R7MT	Thermistor	
SWITCH			
SW601	K0L1BB000003	Switch	
SERGE PROTECTOR			
Z50	J0LE00000002	Serge Protector	
VARISTOR			
Z701	ERZS07DK470T	Varistor	
[7201-05-01] Display Block [CQ-DFX223N]			
IC's and TRANSISTORS			
IC901	YEAMLC75854T	IC	
IC905	B3MBZ0000006	IC	
Q901	B1GDCFJJ0008	Transistor	
Q902	B1GBCFNN0009	Transistor	
DIODES			
D901	B3AAB0000143	LED	
D902	B3AAB0000143	LED	
D903	B3AAB0000143	LED	
D904	B3AAB0000143	LED	
D905	B3AAB0000143	LED	
D906	B3AAB0000143	LED	
D907	B3AAB0000143	LED	
D908	B3AAB0000143	LED	
D909	B3AAB0000143	LED	
D910	B3AAB0000143	LED	
D911	B3AAB0000143	LED	

Ref. No.	Part No.	Part Name & Description	Remarks
D912	B3AAB0000143	LED	
D913	B3AAB0000143	LED	
D914	B3AAB0000143	LED	
D915	B3AAB0000143	LED	
D926	MAZ805600L	Zener Diode	
D927	MAZ805600L	Zener Diode	
D928	MAZ805600L	Zener Diode	
D929	MAZ805600L	Zener Diode	
D940	YESAD105	LED	
D941	YESAD105	LED	
D942	MA8047MTX	Zener Diode	
D943	MA8047MTX	Zener Diode	
D944	YESAD105	LED	
D945	MA8047MTX	Zener Diode	
CAPACITORS			
C910	YESCC233	Ceramic, 1000pF 50WV	
C911	YESCC229	Ceramic, 1 μ F 16WV	
C912	YESCC229	Ceramic, 1 μ F 16WV	
C914	YESCC228	Ceramic, 0.1 μ F 16WV	
C915	YESCC228	Ceramic, 0.1 μ F 16WV	
C916	YESCC228	Ceramic, 0.1 μ F 16WV	
C923	FLJ1H681A025	Ceramic, 680pF 50WV	
RESISTORS			
R906	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
R907	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R908	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R909	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R910	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R911	ERJ6GEYJ102	Chip, 1k Ω 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R939	ERJ6GEYJ4R7	Chip, 4.7 Ω 1/10W	
R940	ERJ8GEYJ471V	Chip, 470 Ω 1/8W	
R941	ERJ6GEYJ103	Chip, 10k Ω 1/10W	
R942	ERJ6GEYJ473	Chip, 47k Ω 1/10W	
R944	ERJ8GEYJ471V	Chip, 470 Ω 1/8W	
R946	ERJ8GEYJ471V	Chip, 470 Ω 1/8W	
R956	ERJ6GEYJ821	Chip, 820 Ω 1/10W	
R958	ERJ6GEY0R00V	Chip, 0 Ω 1/10W	
R959	ERJ6GEYJ511V	Chip, 510 Ω 1/10W	
R960	ERJ6GEYJ511V	Chip, 510 Ω 1/10W	
R961	ERJ6GEYJ511V	Chip, 510 Ω 1/10W	
R962	ERJ6GEYJ152	Chip, 1.5k Ω 1/10W	
R963	ERJ6GEYJ511V	Chip, 510 Ω 1/10W	
CONNECTOR			
CN901	YEA012760	Connector 14P	
SWITCHES			
SW901	K9AA024A0007	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
SW915	K0H1BA000445	Switch	
SW916	K0H1BA000445	Switch	
SW917	K0H1BA000445	Switch	
SW918	K0H1BA000445	Switch	
LCD			

Ref. No.	Part No.	Part Name & Description	Remarks
LCD901	YESXDCU007	LCD	
[7201-05-01] Display Block [CQ-DFX213N]			
IC's & TRANSISTORS			
IC901	YEAMLC75854T	IC	
IC905	B3MBZ0000006	IC	
Q901	B1GDCFJJ0008	Transistor	
Q902	B1GBCFNN0009	Transistor	
DIODES			
D901	YESAD108	LED	
D902	YESAD108	LED	
D903	YESAD108	LED	
D904	YESAD108	LED	
D905	YESAD108	LED	
D906	YESAD108	LED	
D907	YESAD108	LED	
D908	YESAD108	LED	
D909	YESAD108	LED	
D910	YESAD108	LED	
D911	YESAD108	LED	
D912	YESAD108	LED	
D913	YESAD108	LED	
D914	YESAD108	LED	
D915	B3AAB0000143	LED	
D926	MAZ805600L	Zener Diode	
D927	MAZ805600L	Zener Diode	
D928	MAZ805600L	Zener Diode	
D929	MAZ805600L	Zener Diode	
D940	YESAD106	LED	
D941	YESAD106	LED	
D942	MA8047MTX	Zener Diode	
D943	MA8047MTX	Zener Diode	
CAPACITORS			
C910	YESCC233	Ceramic, 1000pF 50WV	
C911	YESCC229	Ceramic, 1pF 16WV	
C912	YESCC229	Ceramic, 1pF 16WV	
C914	YESCC228	Ceramic, 0.1pF 16WV	
C915	YESCC228	Ceramic, 0.1pF 16WV	
C916	YESCC228	Ceramic, 0.1pF 16WV	
C923	FLJ1H681A025	Ceramic, 680pF 50WV	
RESISTORS			
R906	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
R907	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R909	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R910	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R939	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R940	ERJ8GEYJ471V	Chip, 470Ω 1/8W	
R941	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R942	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R944	ERJ8GEYJ471V	Chip, 470Ω 1/8W	
R952	YESRG032	Chip, 200Ω 1/8W	
R956	ERJ6GEYJ821	Chip, 820Ω 1/10W	
R958	ERJ6GEYJ0R00V	Chip, 0Ω 1/10W	
R959	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
R960	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
R961	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
R963	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
CONNECTOR			
CN901	YEAE012760	Connector 14P	

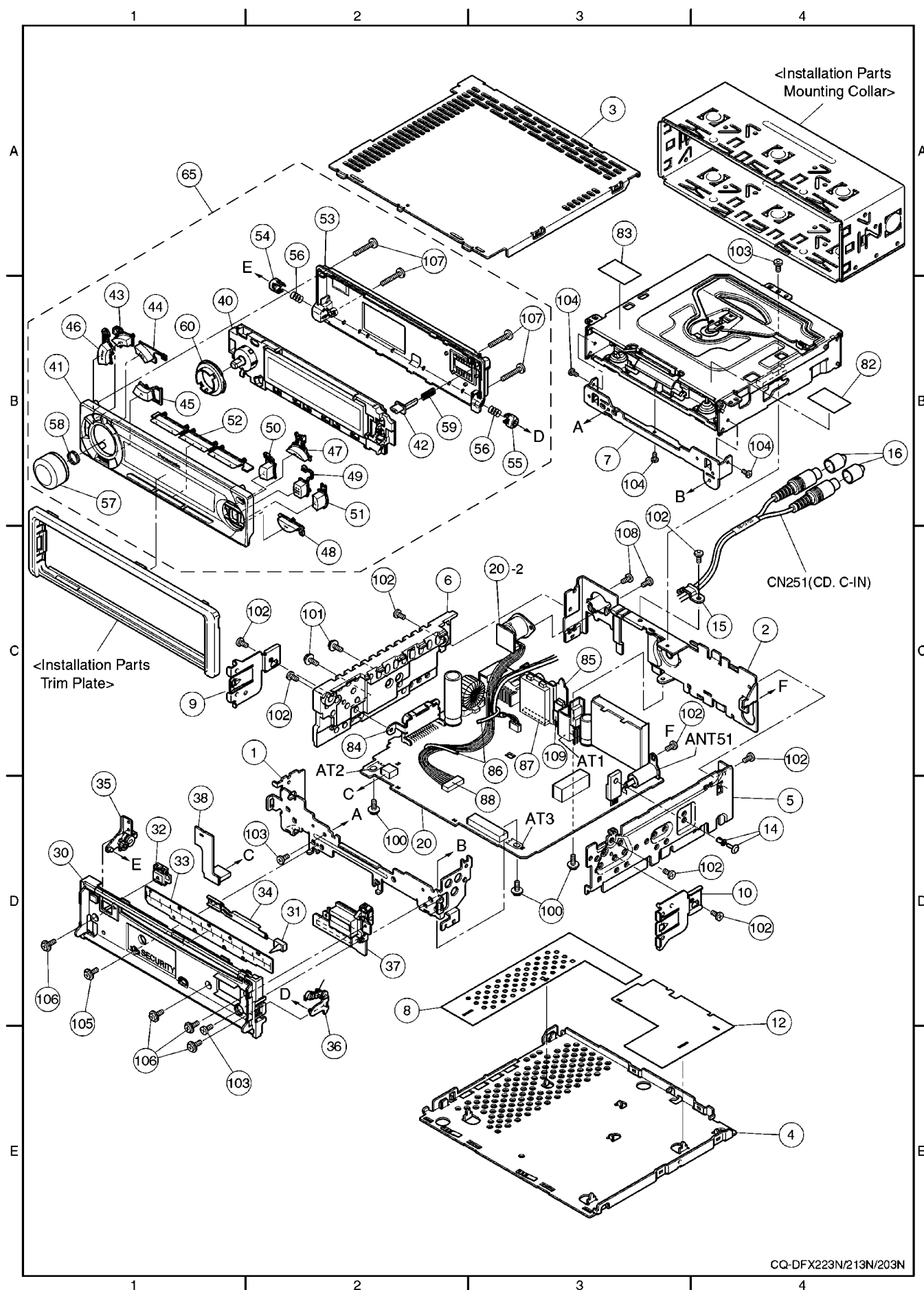
Ref. No.	Part No.	Part Name & Description	Remarks
SWITCHES			
SW901	K9AA024A0007	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
SW915	K0H1BA000445	Switch	
SW916	K0H1BA000445	Switch	
SW917	K0H1BA000445	Switch	
SW918	K0H1BA000445	Switch	
LCD			
LCD901	YESXDCU007	LCD	
[7201-05-01] Display Block [CQ-DFX203N]			
IC's and TRANSISTORS			
IC901	YEAMLC75854T	IC	
IC905	B3MBZ0000006	IC	
Q901	B1GDCFJJ0008	Transistor	
Q902	B1GBCFNN0009	Transistor	
DIODES			
D901	YESAD110	LED	
D902	YESAD110	LED	
D903	YESAD109	LED	
D904	YESAD110	LED	
D905	YESAD110	LED	
D906	YESAD109	LED	
D907	YESAD110	LED	
D908	YESAD110	LED	
D909	YESAD110	LED	
D910	YESAD110	LED	
D911	YESAD110	LED	
D912	YESAD110	LED	
D913	YESAD110	LED	
D914	YESAD110	LED	
D915	B3AAB0000143	LED	
D926	MAZ805600L	Zener Diode	
D927	MAZ805600L	Zener Diode	
D928	MAZ805600L	Zener Diode	
D929	MAZ805600L	Zener Diode	
D940	YESAD107	LED	
D941	YESAD107	LED	
D942	MA8047MTX	Zener Diode	
D943	MA8047MTX	Zener Diode	
CAPACITORS			
C910	YESCC233	Ceramic, 1000pF 50WV	
C911	YESCC229	Ceramic, 1pF 16WV	
C912	YESCC229	Ceramic, 1pF 16WV	
C914	YESCC228	Ceramic, 0.1pF 16WV	
C915	YESCC228	Ceramic, 0.1pF 16WV	
C916	YESCC228	Ceramic, 0.1pF 16WV	
C923	FLJ1H681A025	Ceramic, 680pF 50WV	
RESISTORS			
R906	ERJ6GEYJ101	Chip, 100ohm; 1/10W	
R907	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip, 1kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R909	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R910	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R939	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R940	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R941	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R942	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R944	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R952	ERJ8GEYJ271	Chip, 270Ω 1/8W	
R956	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R958	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R959	YESRG031	Chip, 110Ω 1/10W	
R960	YESRG031	Chip, 110Ω 1/10W	
R961	YESRG031	Chip, 110Ω 1/10W	
R963	YESRG031	Chip, 110Ω 1/10W	
CONNECTOR			
CN901	YEA012760	Connector 14P	
SWITCHES			
SW901	K9AA024A0007	Switch	
SW903	K0H1BA000445	Switch	
SW904	K0H1BA000445	Switch	
SW905	K0H1BA000445	Switch	
SW907	K0H1BA000445	Switch	
SW908	K0H1BA000445	Switch	
SW909	K0H1BA000445	Switch	
SW910	K0H1BA000445	Switch	
SW911	K0H1BA000445	Switch	
SW912	K0H1BA000445	Switch	
SW913	K0H1BA000445	Switch	
SW914	K0H1BA000445	Switch	
SW915	K0H1BA000445	Switch	
SW916	K0H1BA000445	Switch	
SW917	K0H1BA000445	Switch	
SW918	K0H1BA000445	Switch	
LCD			
LCD901	YESXDCU007	LCD	
[7201-02-14] Connector Block			
CN640	K1KA15A00096	Connector 15P	
CP641	YEA012761	Connector 14P	
[7201-02-13] Eject Block			
D642	B3ABB0000154	LED	
D643	B3ABB0000154	LED	
SW610	K0H1BA000445	Switch	
CJ642	K1KA04A00296	Connector 4P	
Accessories			
PRINTING			
	YEFM283971	Operating Instructions	
	YEFM292934	Installation Instructions (A)	
	YEFM292935	Installation Instructions (B)	
INSTALLATION PARTS			
	YEFAL131733	Removal Face Plate Case	
	YEAJ02874	Power Connector	
	YEP0FX3316	Screws Kit (Bolt, ISO antenna adapter, Lock cancel plate)	
	YESFX018006	Mounting Collar	
	YESFC05016	Trim Plate	

Ref. No.	Part No.	Part Name & Description	Remarks
MECHANICAL PARTS			
MISCELLANEOUS			
ANT51	YML04C700ZA	ANT Jack	
AT1	K4ZZ01000048	Earth Terminal	
AT2	K4ZZ01000048	Earth Terminal	
AT3	K4ZZ01000048	Earth Terminal	
1	YESFA01066	Front Chassis	
2	YESFA08017	Rear Plate 223N	A
	YESFA08016	Rear Plate 213N	B
	YESFA08015	Rear Plate 203N	C
3	YESFA03053	Top Cover A	
4	YESFA05034	Bottom Cover Assy	
5	YESFA09004	Side Plate	
6	YESFF01079	Heat Sink	
7	YESFG02027	Front Bracket	
8	YESFV01061	Insulated Sheet L	
9	YESFX005133	Plate Spring L	
10	YESFX005134	Plate Spring R	
12	YESFV01062	Insulated Sheet R	
14	YESFX014007	Rivet	
15	YESFX007024	Cord Clamper	
16	YESFR04010	RCA Cap	
20	YESAP264	Main PCB Assy	RTL
30	YESFC02079	Escutcheon	
31	YESFX9992957	Cap Lever Detect	
32	YESFE13116	Eject Button	
33	YESFS04016	Dust Felt	
34	YESFX999053	Lever Spring Detect	
35	YESFX999050	Bracket Arm L Assy	
36	YESFX999051	Bracket Arm R Assy	
37	YESAP252	CN PCB/BKT Hook Assy	RTL
38	YESAP253	EJ PCB Assy	RTL
40	YESAP267	Display PCB Assy	A, RTL
	YESAP266	Display PCB Assy	B, RTL
	YESAP265	Display PCB Assy	C, RTL
41	YESFC02089	Escutcheon Assy	A
	YESFC02088	Escutcheon Assy	B
	YESFC02087	Escutcheon Assy	C
42	YESFE13115	Button (OPEN)	
43	YESFE13108	Button (MUTE)	
44	YESFE13109	Button (S HDB)	
45	YESFE13124	Button (TA)	
46	YESFE13111	Button (SOURCE)	
47	YESFE13125	Button (AF)	
48	YESFE13113	Button (DISP)	
49	YESFE13114	Button (BAND APM)	
50	YESFE13117	Button (TUNE DOWN)	
51	YESFE13118	Button (TUNE UP)	
52	YESFE13119	Preset Button	
53	YESFA07008	Rear Cover	
54	YESFX999054	Rear Cover Metal L	
55	YESFX999055	Rear Cover Metal R	
56	YESFX005135	Metal Spring	
57	YESFE02017	Vol Knob	
58	YESFX005131	Knob Spring	
59	YESFX005136	Open Button Spring	
60	YESFL02041	Indicator (Vol)	
65	YESSDF0111	Removable Face Plate Unit	A, RTL
	YESSDF0110	Removable Face Plate Unit	B, RTL
	YESSDF0109	Removable Face Plate Unit	C, RTL
82	YESFM01083	Laser Seal (3 Language)	
83	YESFM01084	Laser Seal (4 Language)	
84	YESFG02029	PWR IC Bracket	
85	YESFG02030	RCA Bracket	
86	YESFX007023	Style Pin	
87	YESFL02044	PCB Sheet	
88	YESAJ07007	Connector, 7P w/wire	
100	YESJS01165	Cup Screw S Tite M3.0*6.0	
101	YESJS01160	Cap Screw 3*6	

Ref. No.	Part No.	Part Name & Description	Remarks
102	YESJT03067	Tapping Screw Bind S Tite M3*6	
103	YESJS01163	S Tite Bind 2.6*6 Black CR	
104	YESJS01162	C Tite 2.0*3.0	
105	YESJS01161	Cap Screw 2*5 Black CR	
106	YESJS01159	Cap Screw 2*4	
107	YESJS01164	P Tite 2*8 Black CR	
108	YESJS01166	Screw Bind 3.0*6.0	
109	YESJT03069	Tapping Screw Bind 2.6*8	

14 EXPLODED VIEW [CQ-DFX223N/DFX213N/DFX203N]



15 CD PLAYER PARTS LIST

[CQ-DFX683N]

Notes :

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

Ref. No.	Part No.	Part Name & Description	Remarks
[3032-14-02] CD Servo Block			
IC's and TRANSISTORS			
IC201	MN6627482WB	IC	
IC202	YESAM163	IC	
IC203	YESAM166	IC	
IC204	C0ABBB000073	IC	
IC401	YESAM176	IC	
IC402	YESAM172	IC	
IC406	YESAM171	IC	
IC409	YESAM167	IC	
IC411	YESAM178	IC	
Q101	B1BDBC000001	Transistor	
Q201	B1BDBC000001	Transistor	
Q203	YESAN060	Transistor	
CAPACITORS			
C101	YESCC203	Chip, 220pF 50WV	
C102	YESCC187	Chip, 0.1pF 25WV	
C103	YESCC187	Chip, 0.1pF 25WV	
C104	YESCC206	Chip, 0.047pF 25WV	
C105	FLH1H2220004	Chip, 0.0047pF 25WV	
C106	YESCC207	Chip, 0.001pF 50WV	
C107	YESCC206	Chip, 0.047pF 25WV	
C108	YESCC204	Chip, 330pF 50WV	
C109	YESCC187	Chip, 0.1pF 25WV	
C110	YESCC187	Chip, 0.1pF 25WV	
C111	YESCC186	Chip, 0.022pF 50WV	
C112	YESCC183	Chip, 0.0022pF 50WV	
C113	YESCC208	Chip, 0.0015pF 50WV	
C114	YESCC207	Chip, 0.001pF 50WV	
C115	YESCC187	Chip, 0.1pF 25WV	
C116	YESCC187	Chip, 0.1pF 25WV	
C121	YESCC187	Chip, 0.1pF 25WV	
C122	YESCC207	Chip, 0.001pF 50WV	
C123	YESCC186	Chip, 0.022pF 50WV	
C124	YESCC187	Chip, 0.1pF 25WV	
C125	YESCC207	Chip, 0.001pF 50WV	
C126	YESCC210	Chip, 1pF 16WV	
C127	YESCC207	Chip, 0.001pF 50WV	
C128	YESCC205	Chip, 0.22pF 10WV	
C129	YESCC187	Chip, 0.1pF 25WV	
C130	YESCC207	Chip, 0.001pF 50WV	
C131	YESCC187	Chip, 0.1pF 25WV	

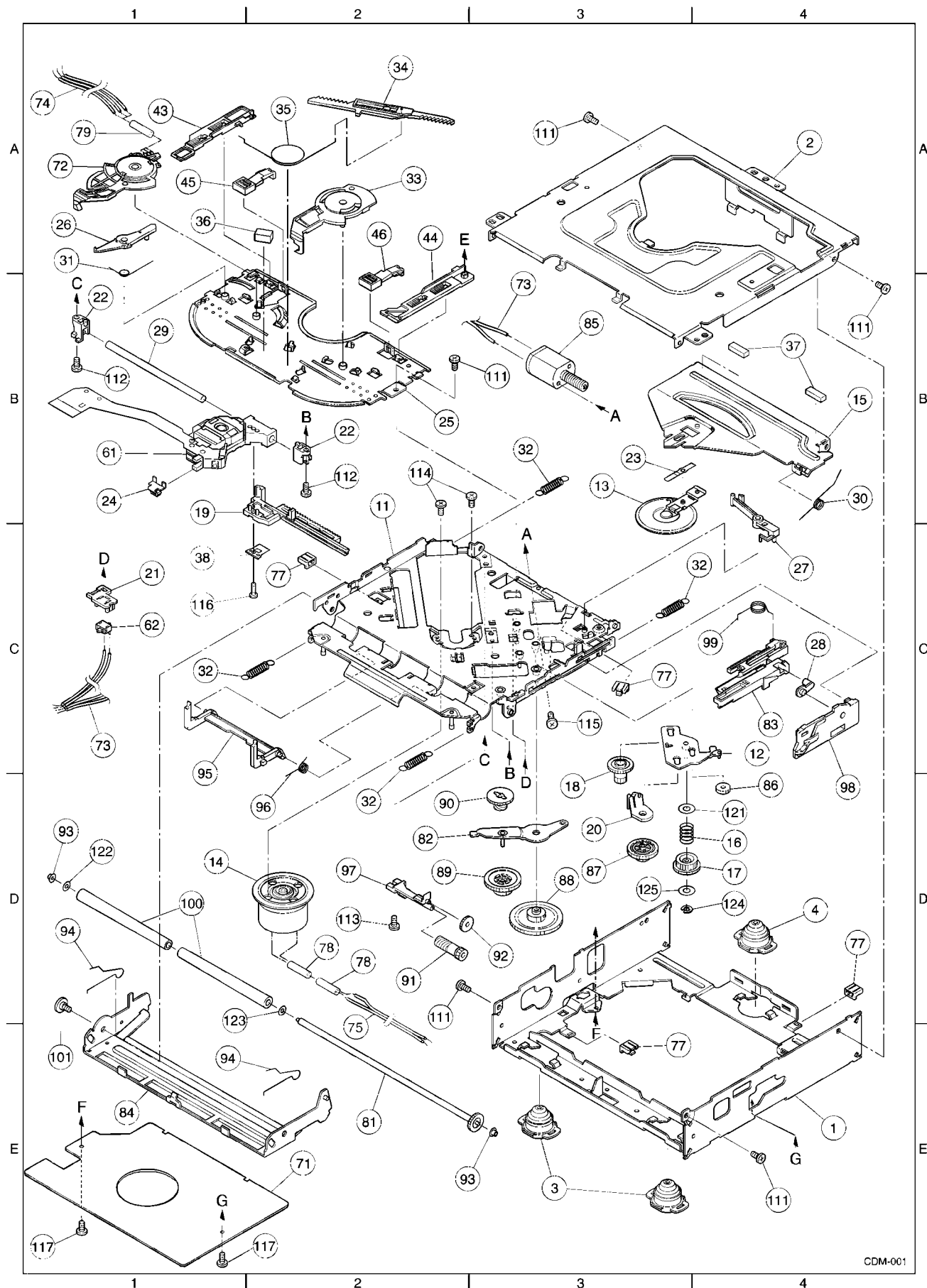
Ref. No.	Part No.	Part Name & Description	Remarks
C132	YESCC187	Chip, 0.1pF 25WV	
C135	YESCC187	Chip, 0.1pF 25WV	
C136	YESCC187	Chip, 0.1pF 25WV	
C137	YESCC210	Chip, 1pF 16WV	
C138	YESCC210	Chip, 1pF 16WV	
C139	YESCC187	Chip, 0.1pF 25WV	
C140	YESCC187	Chip, 0.1pF 25WV	
C141	YESCC187	Chip, 0.1pF 25WV	
C151	YESCC188	Electrolytic, 10micro;F 16WV	
C152	YESCC213	Electrolytic, 22micro;F 6.3WV	
C153	YESCC213	Electrolytic, 22micro;F 6.3WV	
C154	YESCC215	Electrolytic, 220micro;F 10WV	
C203	YESCC209	Chip, 0.0033pF 50WV	
C204	YESCC209	Chip, 0.0033pF 50WV	
C205	YESCC187	Chip, 0.1pF 25WV	
C207	YESCC187	Chip, 0.1pF 25WV	
C208	YESCC202	Chip, 22pF 50WV	
C251	YESCC215	Electrolytic, 220micro;F 10WV	
C252	YESCC214	Electrolytic, 47micro;F 6.3WV	
C253	YESCC215	Electrolytic, 220micro;F 10WV	
C301	YESCC207	Chip, 0.001pF 50WV	
C302	YESCC207	Chip, 0.001pF 50WV	
C311	YESCC207	Chip, 0.001pF 50WV	
C312	YESCC207	Chip, 0.001pF 50WV	
C321	YESCC187	Chip, 0.1pF 25WV	
C356	YESCC213	Electrolytic, 22micro;F 6.3WV	
C357	YESCC214	Electrolytic, 47micro;F 6.3WV	
C358	YESCC213	Electrolytic, 22micro;F 6.3WV	
C359	YESCC216	Electrolytic, 100micro;F 16WV	
C360	YESCC188	Electrolytic, 10micro;F 16WV	
C401	YESCC187	Chip, 0.1pF 25WV	
C402	YESCC187	Chip, 0.1pF 25WV	
C403	YESCC187	Chip, 0.1pF 25WV	
C404	YESCC187	Chip, 0.1pF 25WV	
C405	YESCC187	Chip, 0.1pF 25WV	
C406	YESCC188	Chip, 0.1pF 26WV	
C407	YESCC189	Chip, 0.1pF 27WV	
C408	YESCC190	Chip, 0.1pF 28WV	
C409	YESCC187	Chip, 0.1pF 25WV	
C410	YESCC187	Chip, 0.1pF 25WV	
C411	YESCC188	Chip, 0.1pF 26WV	
C412	YESCC189	Chip, 0.1pF 27WV	
C413	YESCC190	Chip, 0.1pF 28WV	
C414	YESCC191	Chip, 0.1pF 29WV	
C418	YESCC187	Chip, 0.1pF 25WV	
C426	YESCC187	Chip, 0.1pF 25WV	
C433	YESCC210	Chip, 1pF 16WV	
C434	YESCC210	Chip, 1pF 16WV	
C435	YESCC187	Chip, 0.1pF 25WV	
C436	YESCC187	Chip, 0.1pF 25WV	
C437	YESCC210	Chip, 1pF 16WV	
C452	YESCC188	Electrolytic, 10micro;F 16WV	
C463	YESCC214	Electrolytic, 47micro;F 6.3WV	
C464	YESCC214	Electrolytic, 47micro;F 6.3WV	
R435	YESCC187	Chip, 0.1pF 25WV	
RESISTORS			
JP101	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
JP102	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
L302	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
L303	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
L304	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
L305	ERJ6GEY0R00	Chip, 0 Ω 1/10W	
R101	ERJ3GEYJ4R7V	Chip, 4.7 Ω 1/16W	
R103	ERJ3GEYJ152V	Chip, 1.5k Ω 1/16W	
R104	ERJ3GEYJ471V	Chip, 470 Ω 1/16W	
R105	ERJ3GEYJ272V	Chip, 2.7k Ω 1/16W	
R106	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R107	ERJ3GEYJ272V	Chip, 2.7k Ω 1/16W	
R108	ERJ3GEYJ394V	Chip, 390k Ω 1/16W	
R109	ERJ3GEYJ154V	Chip, 150k Ω 1/16W	
R110	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R111	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R112	ERJ3GEYJ244V	Chip, 240kΩ 1/16W	
R113	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R114	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R115	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R116	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R117	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R118	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R119	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R120	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R121	ERJ3GEYJ224V	Chip, 240kΩ 1/16W	
R122	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R123	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R125	ERJ3GEYJ471V	Chip, 470Ω 1/16W	
R126	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R127	RK1J224JT	220kΩ	
R128	ERJ3GEYJ221V	Chip, 220Ω 1/16W	
R129	ERJ3GEYJ682V	Chip, 6.8kΩ 1/16W	
R130	ERJ3GEYJ105V	Chip, 1MΩ 1/16W	
R131	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R133	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R136	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R137	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R138	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R139	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R140	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R141	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R142	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R201	ERJ3GEYJ682V	Chip, 6.8kΩ 1/16W	
R202	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R204	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R205	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R206	ERJ3GEYJ183V	Chip, 18kΩ 1/16W	
R207	ERJ3GEYJ512V	Chip, 5.1kΩ 1/16W	
R208	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R209	ERJ3GEYJ512V	Chip, 5.1kΩ 1/16W	
R210	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R211	ERJ3GEYJ273V	Chip, 27kΩ 1/16W	
R212	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R301	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R302	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R303	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R304	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R305	RK1J221JT	220Ω	
R311	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R312	ERJ3GEYJ392V	Chip, 3.9kΩ 1/16W	
R313	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R314	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R315	ERJ3GEYJ221V	Chip, 220Ω 1/16W	
R322	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R323	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R324	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R325	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R326	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R327	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R328	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R329	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R401	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R402	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R403	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R404	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R408	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R409	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R414	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R415	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R416	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R425	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R428	ERJ3GEYJ330V	Chip, 33Ω 1/16W	
R429	ERJ3GEYJ221V	Chip, 220Ω 1/16W	
R430	ERJ3GEYJ561V	Chip, 560Ω 1/16W	
R431	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R432	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R434	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R478	ERJ3GEYJ560V	Chip, 56Ω 1/16W	
R480	ERJ3GEYJ560V	Chip, 56Ω 1/16W	
R481	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R482	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
R483	ERJ3GEYJ222V	Chip, 2.2kΩ 1/16W	
RESISTOR NETWORKs			
RA401	YESXA003	Resistor Network	
RA402	YESXA003	Resistor Network	
RA403	YESXA003	Resistor Network	
RA405	YESXA003	Resistor Network	
RA406	YESXA003	Resistor Network	
RA407	YESXA003	Resistor Network	
RA408	YESXA003	Resistor Network	
RA409	YESXA003	Resistor Network	
RA410	YESXA003	Resistor Network	
RA412	YESXA002	Resistor Network	
RA413	YESXA003	Resistor Network	
RA414	YESXA002	Resistor Network	
CRYSTAL			
X401	YESXL018	Crystal OSC	
COILs			
L301	YESLQ011	Coil	
L401	YESLQ014	Coil	
L402	YESLQ014	Coil	
L403	YESLQ014	Coil	
CONNECTORS			
CN101	YESAE345	Connector 18P	
CN102	K1MN16B00036	FFC/FPC Connector 16P	
MECHANICAL PARTS			
MISCELLANEOUS			
1	YERFA01001	Frame M	
2	YERFA01002	Top cover M	
3	YERFS04003	Damper F	
4	YERFS04004	Damper R	
11	YERFA01005	Chassis Rivet S Ass'y (M)	
12	YERFX046001	Change Plate Rivet Ass'y (M)	
13	YERFX007001	Clamper Ass'y	
14	YERAK0001	Spindle Motor (M) Ass'y	
15	YERFX046002	Clamper Arm M	
16	YERFX005001	Change Gear Spring	
17	YERFX03001	Change Gear 2	
18	YERFX03002	Feed Gear	
19	YERFX03003	Feed Rack M	
20	YERFX046003	Change Lock Lever M	
21	YERFW04001	Feed SW Holder (M)	
22	YERFW04002	PU Shaft Holder (M)	
23	YERFX005002	Clamper Sub Spring	
24	YERFW04003	FD Sub Holder M	
25	YERFA01006	Top Plate S	
26	YERFX046004	Select Lock Arm	
27	YERFX046005	Trigger Arm M	
28	YERFX046006	Slide Hook	
29	YERFW01001	PU Shaft M	
30	YERFX005003	Clamper Arm Spring M	
31	YERFX005004	Select Lock Arm Spring	
32	YERFX005013	Suspension Spring MS	
33	YERFX046007	Select Arm R	
34	YERFX03004	Link Plate	
35	YESFX005137	Link Plate Spring	
36	YERFS01001	Cushion F	
37	YERFS01002	Cushion R	
38	YERFX005014	Feed SPR Plate M	

Ref. No.	Part No.	Part Name & Description	Remarks
43	YERFX046008	Select Plate L	
44	YERFX046009	Select Plate R	
45	YERFX046010	Select Piece L	
46	YERFX046011	Select Piece R	
61	YESSZCDM002	Pick Up RD-DAP005-TN	
62	YERAS0001	DET SW ESE 22MH55	
71	YESAP255	Servo PCB Ass'y	RTL
72	YERAS0002	Mode SW	
73	YESAJ02015	LD Wire MS	
74	YESAJ02013	SW Wire S	
75	YESAJ02012	SP Wire S	
77	YERFX999001	Wire Clamper M	
78	YESFX024021	Wire Tube SPM	
79	YESFX024022	Wire Tube MSW	
81	YERFX03005	Roller Shaft Ass'y	
82	YERFX046012	Loading Gear Plate Rivet Ass'y	
83	YERFX046013	Loading Plate Ass'y	
84	YERFX046014	Lock Arm Rivet Ass'y	
85	YERAK0002	Loading/Feed Motor Ass'y (MB)	
86	YERFX03006	Loading Gear 1	
87	YERFX03007	Loading Gear 2	
88	YERFX03008	Loading Gear 3	
89	YERFX03009	Loading Gear 4	
90	YERFX03010	Loading Gear 5	
91	YERFX03011	Loading Gear 6	
92	YERFX03012	Loading Gear 7	
93	YERFW04004	Roller Guide	
94	YERFX005007	Roller Guide Spring	
95	YERFX046015	Disc Stopper Arm	
96	YERFX005008	Disc Stop Arm Spring	
97	YERFX046016	LD Gear Bracket	
98	YESFX046133	L Slide Plate	
99	YERFX005009	Loading Plate Spring	
100	YESFX046136	LDG Roller	
101	YERJS01001	PK Collar Screw A	
111	YERJT01001	Tapping Screw 2~3	
112	YERJT01002	Tapping Screw 2~4	
113	YERJT03117	Tapping Bind Screw 2~4	
114	YERJS01002	Camera Screw 1.7~1.8	
115	YERJS01003	Camera Screw 2~2	
116	YERJS01004	Camera Tapping Screw P3 M1.7~5	
117	YESJT03070	Tapping Screw (Metal) 2.0~4.0	
121	YERJW01001	PW 3.5~8~0.3	
122	YERJW01002	HLW 1.85~5~0.13	
123	YERJW01003	Lumilar Washer 3.1~6~0.1	
124	YERJE01028	E Ring S 1.5	
125	YERJW01005	PW 2.1~4~0.13	

16 EXPLODED VIEW (CD Deck) [CQ-DFX683N]



CDM-001

17 CD PLAYER PARTS LIST

[CQ-DFX223N/213N/203N]

Notes :

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

Ref. No.	Part No.	Part Name & Description	Remarks
[3032-14-03] CD Servo Block			
IC's and TRANSISTORS			
IC1	CLBB00000665	IC	
IC4	COGBY0000020	IC	
Q2	B1BDBC000001	Transistor	
DIODE			
D2	YESAD093	Diode	
CAPACITORS			
C1	YESCC181	Chip, 27pF 50WV	
C2	YESCC181	Chip, 27pF 50WV	
C3	YESCC180	Chip, 8pF 50WV	
C4	YESCC181	Chip, 27pF 50WV	
C5	YESCC179	Chip, 4pF 50WV	
C6	YESCC187	Chip, 0.1 μ F 25WV	
C7	YESCC187	Chip, 0.1 μ F 25WV	
C8	FIH1H2220004	Chip, 0.0022 μ F 50WV	
C9	YESCC187	Chip, 0.1 μ F 25WV	
C10	YESCC187	Chip, 0.1 μ F 25WV	
C11	YESCC187	Chip, 0.1 μ F 25WV	
C12	YESCC187	Chip, 0.1 μ F 25WV	
C16	YESCC195	Chip, 0.1micro;F 50WV	
C17	YESCC187	Chip, 0.1 μ F 25WV	
C19	YESCC187	Chip, 0.1 μ F 25WV	
C20	FIH1H103A783	Chip, 0.01 μ F 50WV	
C21	FIH1H103A783	Chip, 0.01 μ F 50WV	
C24	YESCC188	Electrolytic, 10micro;F 16WV	
C25	YESCC186	Chip, 0.022 μ F 50WV	
C26	YESCC183	Chip, 0.0022 μ F 50WV	
C27	YESCC183	Chip, 0.0022 μ F 50WV	
C28	YESCC181	Chip, 27pF 50WV	
C30	YESCC182	Chip, 56pF 50WV	
C31	YESCC181	Chip, 27pF 50WV	
C32	YESCC188	Electrolytic, 10micro;F 16WV	
C34	YESCC195	Chip, 0.1micro;F 50WV	
C35	YESCC188	Electrolytic, 10micro;F 16WV	
C38	YESCC189	Electrolytic, 100micro;F 10WV	
C39	YESCC188	Electrolytic, 10micro;F 16WV	
C40	YESCC189	Electrolytic, 100micro;F 10WV	
C45	YESCC195	Chip, 0.1micro;F 50WV	
C46	YESCC189	Electrolytic, 100micro;F 10WV	
C51	YESCC194	Chip, 0.01micro;F 250WV	
C52	FIH1H103A783	Chip, 0.01 μ F 50WV	

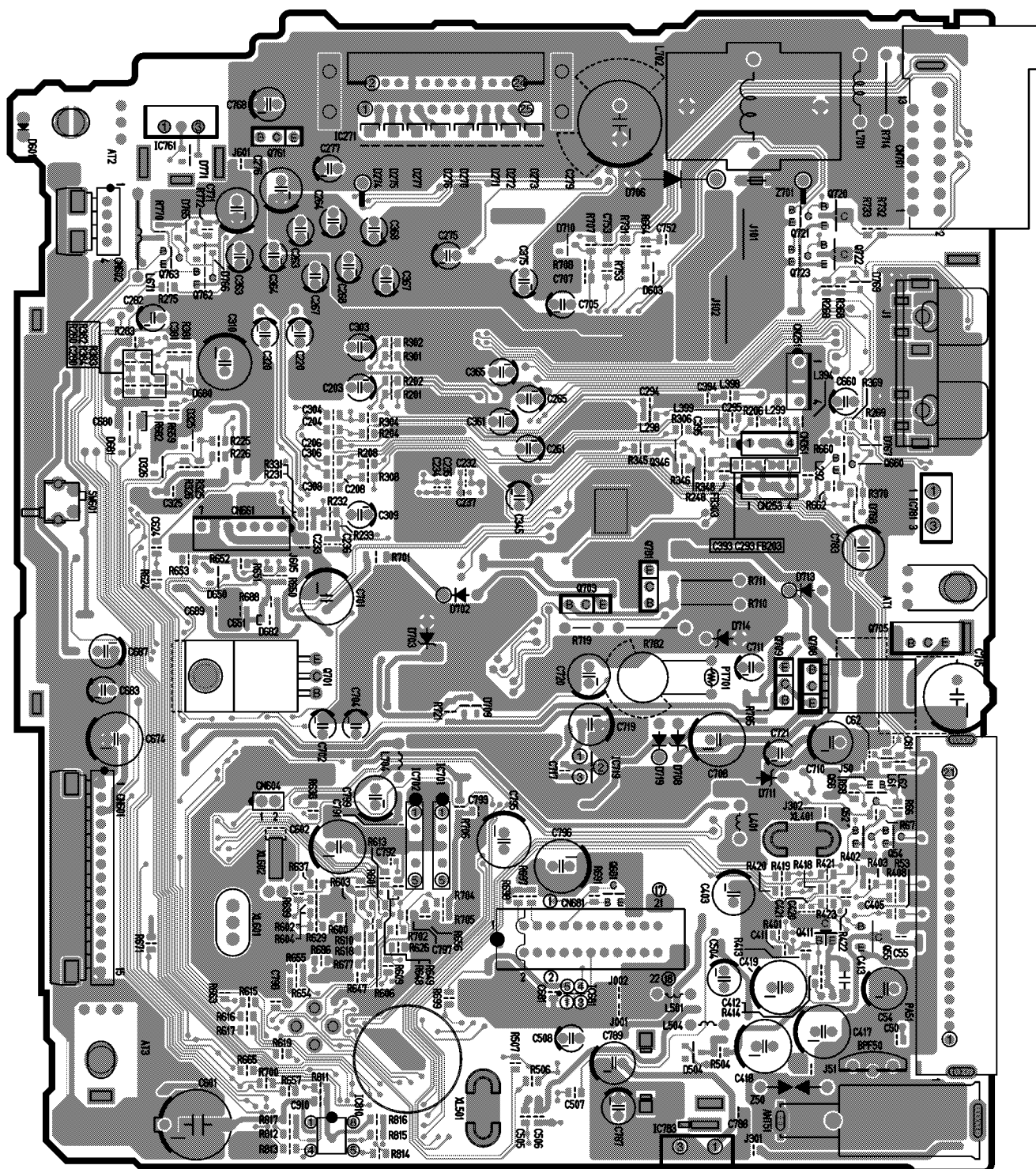
Ref. No.	Part No.	Part Name & Description	Remarks
C53	FIH1H103A783	Chip, 0.01 μ F 50WV	
RESISTORS			
J1	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J100	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J101	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J102	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J103	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J104	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J105	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J106	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J107	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J108	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J109	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J110	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J111	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J112	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J113	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J114	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J115	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J116	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J117	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J118	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J119	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J120	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J121	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J122	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J123	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J124	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J125	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J126	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J127	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J128	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J129	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J130	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J131	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J132	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J133	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J134	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J135	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J136	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J137	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J138	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J139	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J140	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J142	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J143	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J144	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J145	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J146	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J147	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J148	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J149	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J150	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J151	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J152	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J153	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J154	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J155	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J156	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J157	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J158	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J159	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
J160	ERJ8GEY0R00V	Chip, 0 Ω 1/8W	
R1	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R2	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R8	ERJ6GEYJ222	Chip, 2.2k Ω 1/10W	
R10	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R12	ERJ3GEYJ222V	Chip, 2.2k Ω 1/16W	
R13	ERJ3GEYJ392V	Chip, 3.9k Ω 1/16W	
R14	ERJ3GEYJ103V	Chip, 10k Ω 1/16W	
R20	ERJ3GEYJ473V	Chip, 47k Ω 1/16W	
R21	ERJ3GEYJ221V	Chip, 220 Ω 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R22	ERJ3GEYJ221V	Chip, 220Ω 1/16W	
R27	ERJ3GEYJ393V	Chip, 39kΩ 1/16W	
R28	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R30	ERJ3GEYJ220V	Chip, 22Ω 1/16W	
R34	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R37	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R39	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R40	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
R41	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R46	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R47	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R48	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R51	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R52	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R53	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R54	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R55	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R56	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R57	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R58	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R59	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R60	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R61	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R62	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
CRYSTAL			
X1	H2C160500001	Ceramic Resonator	
COIL			
L1	YESLQ011	Coil	
CONNECTORS			
CN1	YESAE341	Connector	
CN2	K1MN16B00036	FFC/FPC Connector	
MECHANICAL PARTS			
MISCELLANEOUS			
1	YERFA01001	Frame M	
2	YERFA01002	Top cover M	
3	YERFS04003	Damper F	
4	YERFS04004	Damper R	
11	YERFA01005	Chassis Rivet S Ass'y (M)	
12	YERFX046001	Change Plate Rivet Ass'y (M)	
13	YERFX007001	Clamper Ass'y	
14	YERAK0001	Spindle Motor (M) Ass'y	
15	YERFX046002	Clamper Arm M	
16	YERFX005001	Change Gear Spring	
17	YERFX03001	Change Gear 2	
18	YERFX03002	Feed Gear	
19	YERFX03003	Feed Rack M	
20	YERFX046003	Change Lock Lever M	
21	YERFW04001	Feed SW Holder (,M)	
22	YERFW04002	PU Shaft Holder (,M)	
23	YERFX005002	Clamper Sub Spring	
24	YERFW04003	FD Sub Holder M	
25	YERFA01006	Top Plate S	
26	YERFX046004	Select Lock Arm	
27	YERFX046005	Trigger Arm M	
28	YERFX046006	Slide Hook	
29	YERFW01001	PU Shaft M	
30	YERFX005003	Clamper Arm Spring M	
31	YERFX005004	Select Lock Arm Spring	
32	YERFX005013	Suspension Spring MS	
33	YERFX046007	Select Arm R	
34	YERFX03004	Link Plate	
35	YERFX005006	Link Plate Spring	
36	YERFS01001	Cushion F	
37	YERFS01002	Cushion R	
38	YERFX005014	Feed SPR Plate M	
43	YERFX046008	Select Plate L	
44	YERFX046009	Select Plate R	

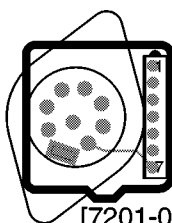
Ref. No.	Part No.	Part Name & Description	Remarks
45	YERFX046010	Select Piece L	
46	YERFX046011	Select Piece R	
61	YERFD13001	Pick Up RD-DAP005-TN	
62	YERAS0001	DET SW ESE 22MH55	
71	YESAP254	Servo PCB Ass'y	RTL
72	YERAS0002	Mode SW	
73	YESAJ02015	LD Wire MS	
74	YESAJ02013	SW Wire S	
75	YESAJ02012	SP Wire S	
77	YERFX999001	Wire Clamper M	
78	YESFX024021	Wire Tube SPM	
79	YESFX024022	Wire Tube MSW	
81	YERFX03005	Roller Shaft Ass'y	
82	YERFX046012	Loading Gear Plate Rivet Ass'y	
83	YERFX046013	Loading Plate Ass'y	
84	YERFX046014	Lock Arm Rivet Ass'y	
85	YERAK0002	Loading/Feed Motor Ass'y (MB)	
86	YERFX03006	Loading Gear 1	
87	YERFX03007	Loading Gear 2	
88	YERFX03008	Loading Gear 3	
89	YERFX03009	Loading Gear 4	
90	YERFX03010	Loading Gear 5	
91	YERFX03011	Loading Gear 6	
92	YERFX03012	Loading Gear 7	
93	YERFW04004	Roller Guide	
94	YERFX005007	Roller Guide Spring	
95	YERFX046015	Disc Stopper Arm	
96	YERFX005008	Disc Stop Arm Spring	
97	YERFX046016	LD Gear Bracket	
98	YESFX046133	L Slide Plate	
99	YERFX005009	Loading Plate Spring	
100	YESFX046134	LDG Roller	
101	YERJS01001	PK Collar Screw A	
111	YERJT01001	Tapping Screw 2~3	
112	YERJT01002	Tapping Screw 2~4	
113	YEJT03117	Tapping Bind Screw 2~4	
114	YERJS01002	Camera Screw 1.7~1.8	
115	YERJS01003	Camera Screw 2~2	
116	YERJS01004	Camera Tapping Screw P3 M1.7~5	
117	YESJS01148	Tapping Screw (Metal) 2.0~4.0	
121	YERJW01001	PW 3.5~8~0.3	
122	YERJW01002	HLW 1.85~5~0.13	
123	YERJW01003	Lumilar Washer 3.1~6~0.1	
124	YEJE01028	E Ring S 1.5	
125	YERJW01005	PW 2.1~4~0.13	

19 WIRING DIAGRAM

19.1. Main Block (Top View)

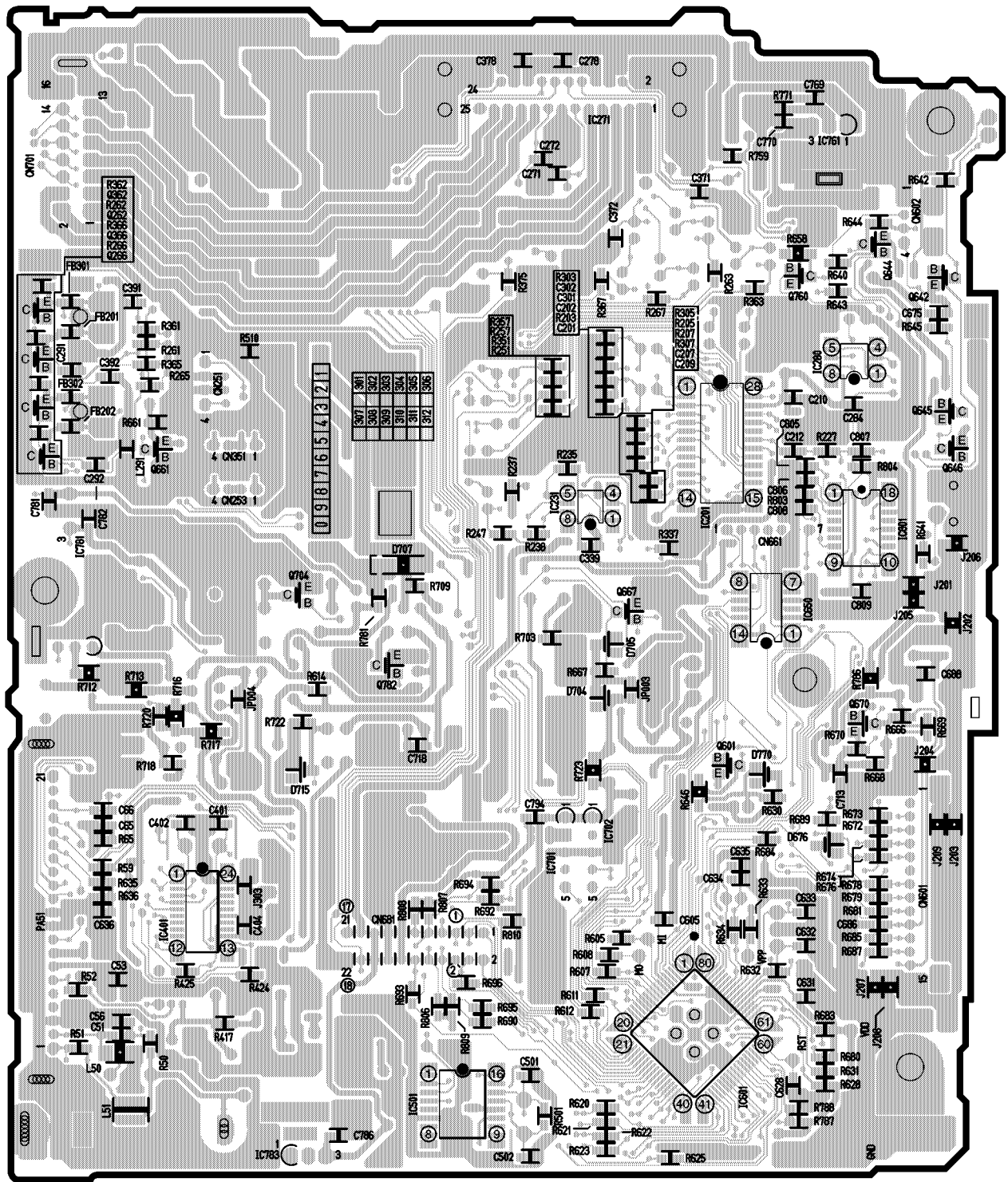


[7201-02-11A] [Top View]

[7201-02-12A]
[Top View]

CQ-DFX683N/DFX223N/DFX213N/DFX203N MAIN P.C.B

19.2. Main Block (Bottom View)

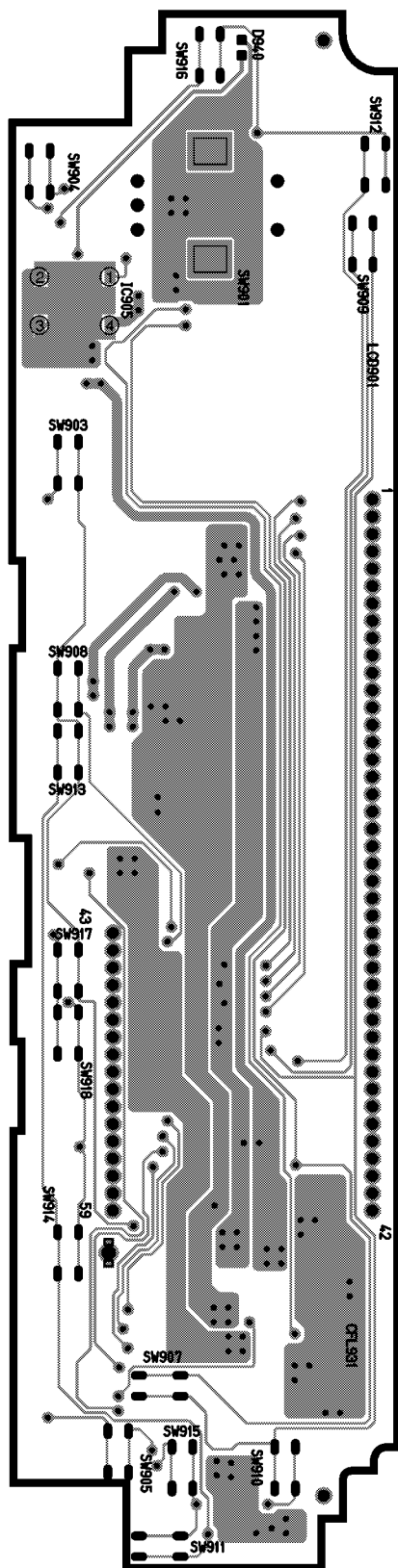


[7201-02-11A] [Bottom View]

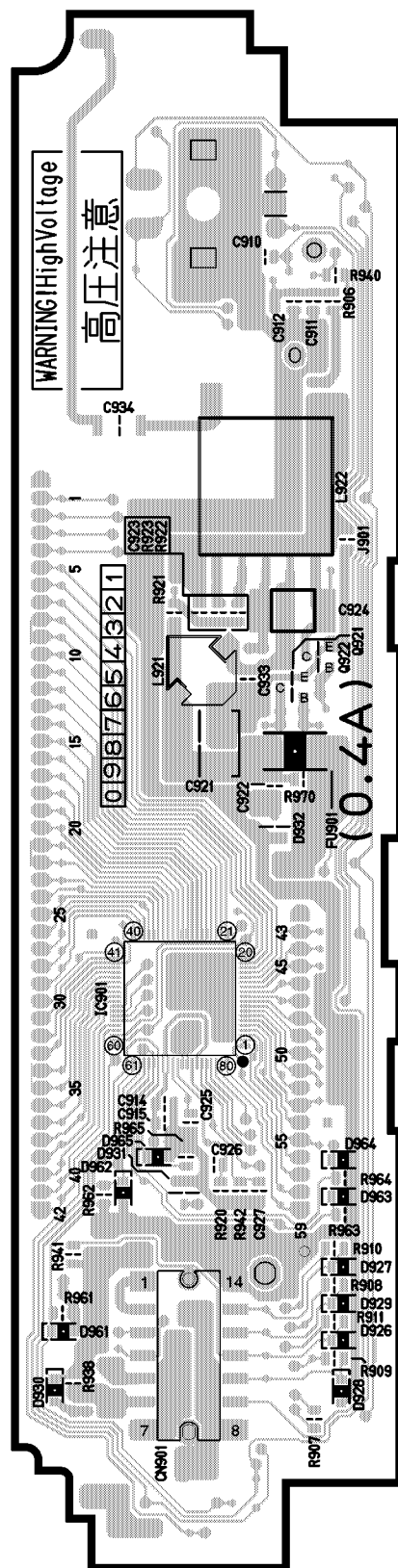
[7201-02-12A]
[Bottom View]

CQ-DFX683N/DFX223N/DFX213N/DFX203N MAIN P.C.B

19.3. Display Block



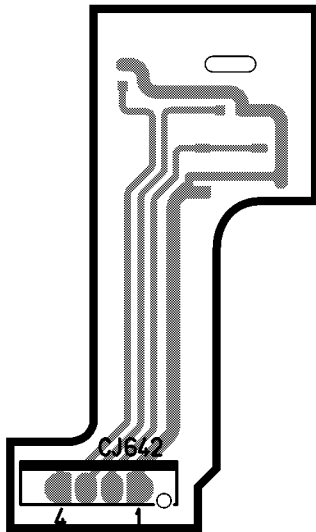
[7201-05-01] [Top View]



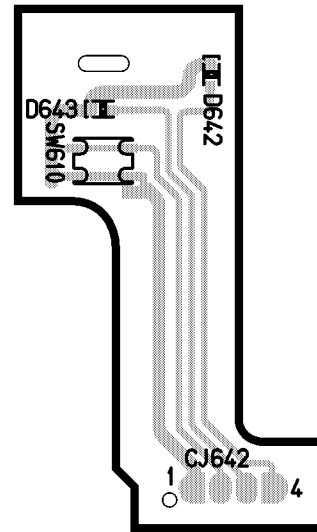
[7201-05-01] [Bottom View]

CQ-DFX683N/DFX223N/DFX213N/DFX203N ESC P.C.B

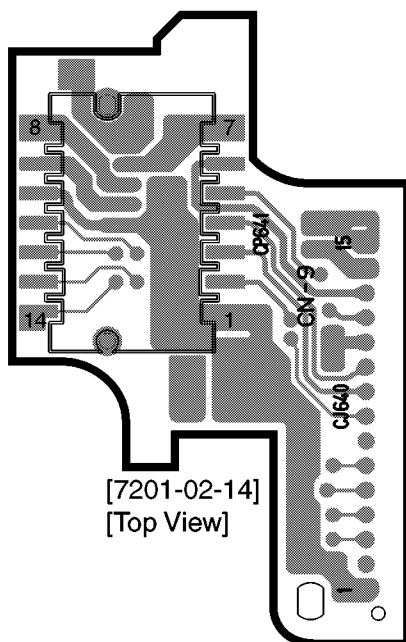
19.4. Eject/ Connector Block



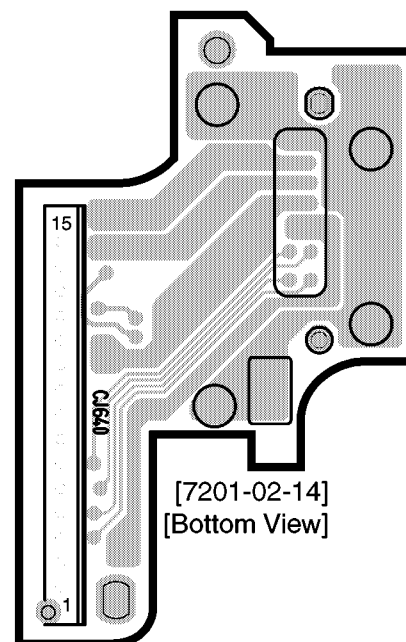
[7201-02-13]
[Top View]



[7201-02-13]
[Bottom View]

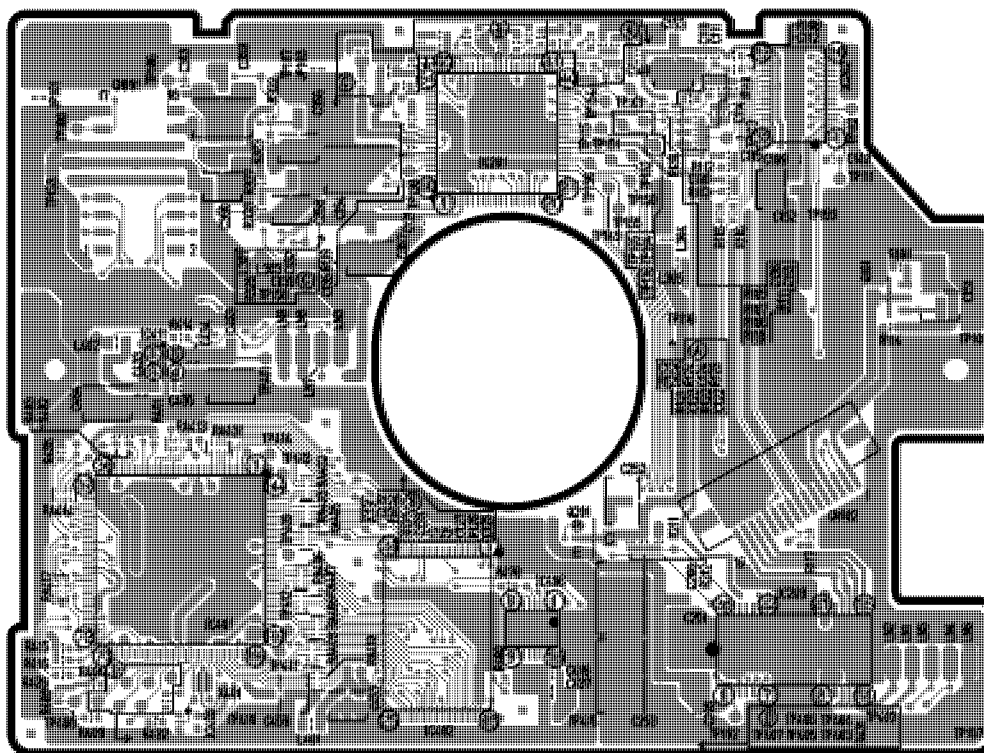


[7201-02-14]
[Top View]



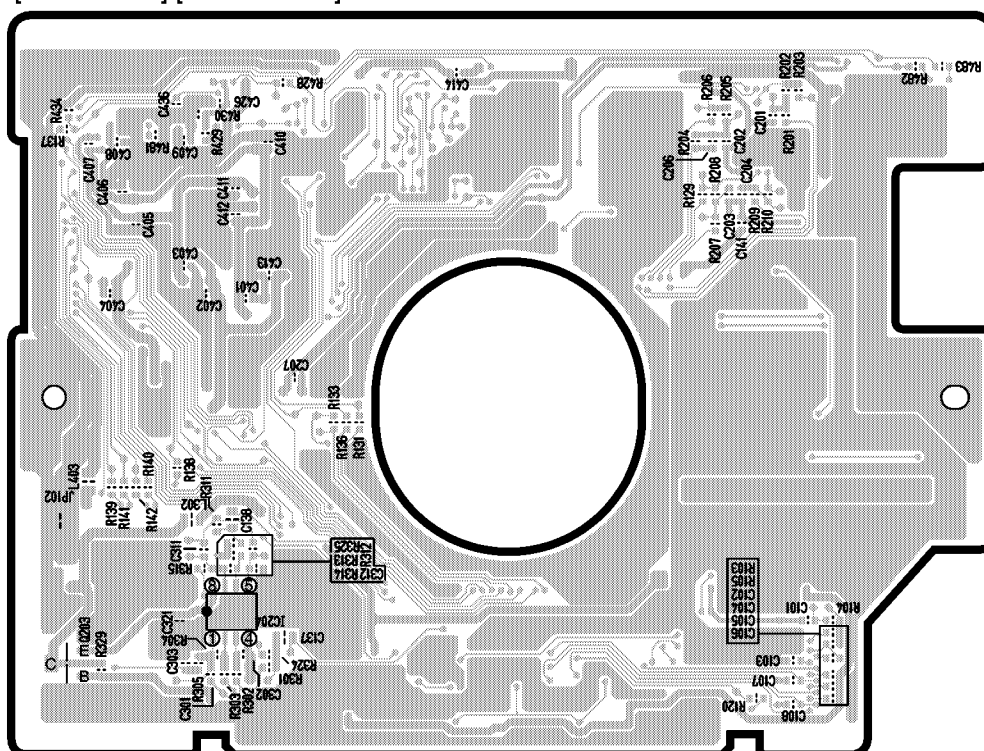
[7201-02-14]
[Bottom View]

19.5. CD Servo Block [CQ-DFX683N]

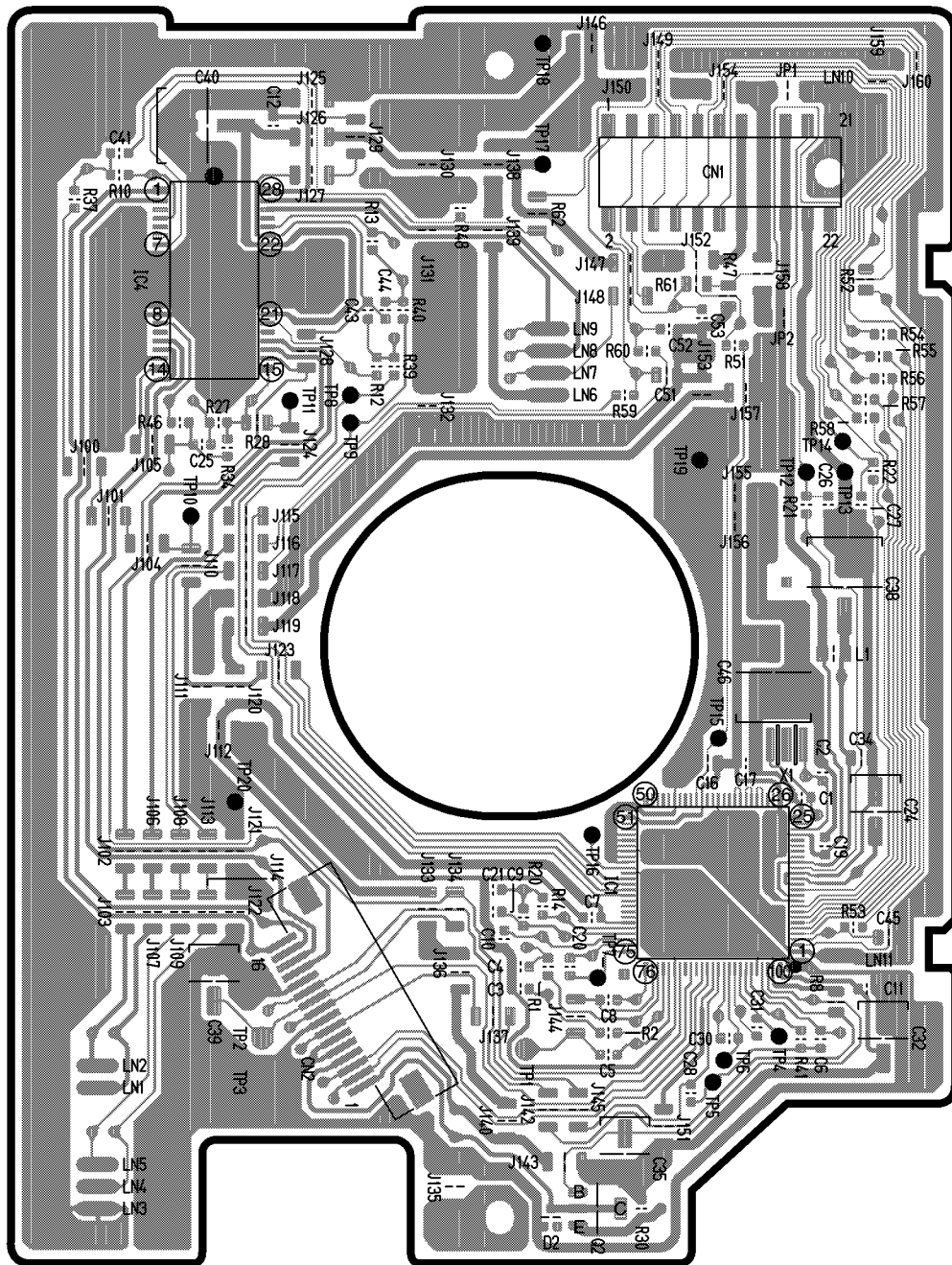


[3032-14-02] [Top View]

[3032-14-02] [Bottom View]



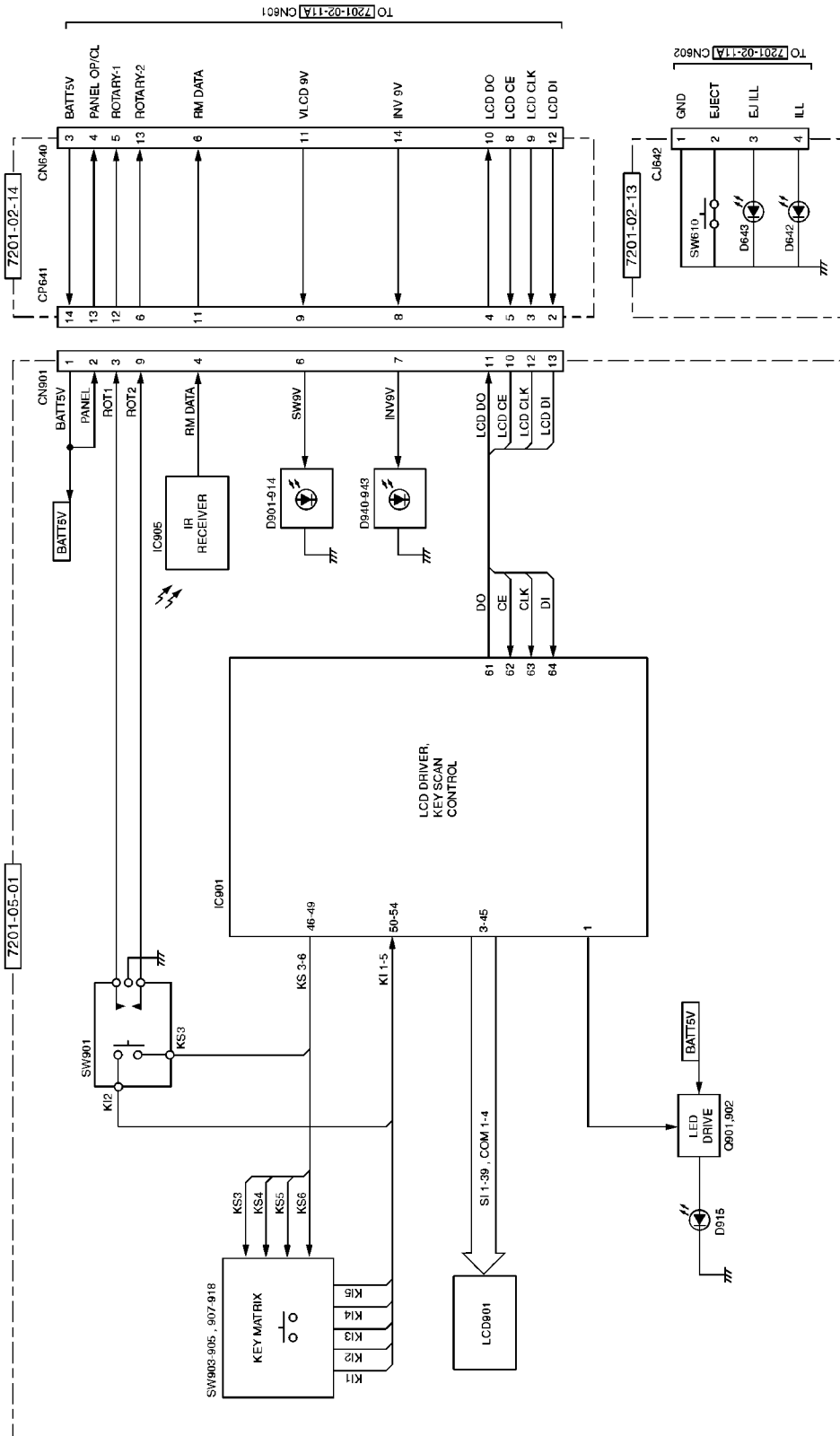
19.6. CD Servo Block [CQ-DFX223N/DFX213N/DFX203N]



[3032-14-03] [Top View]

20 BLOCK DIAGRAM-1

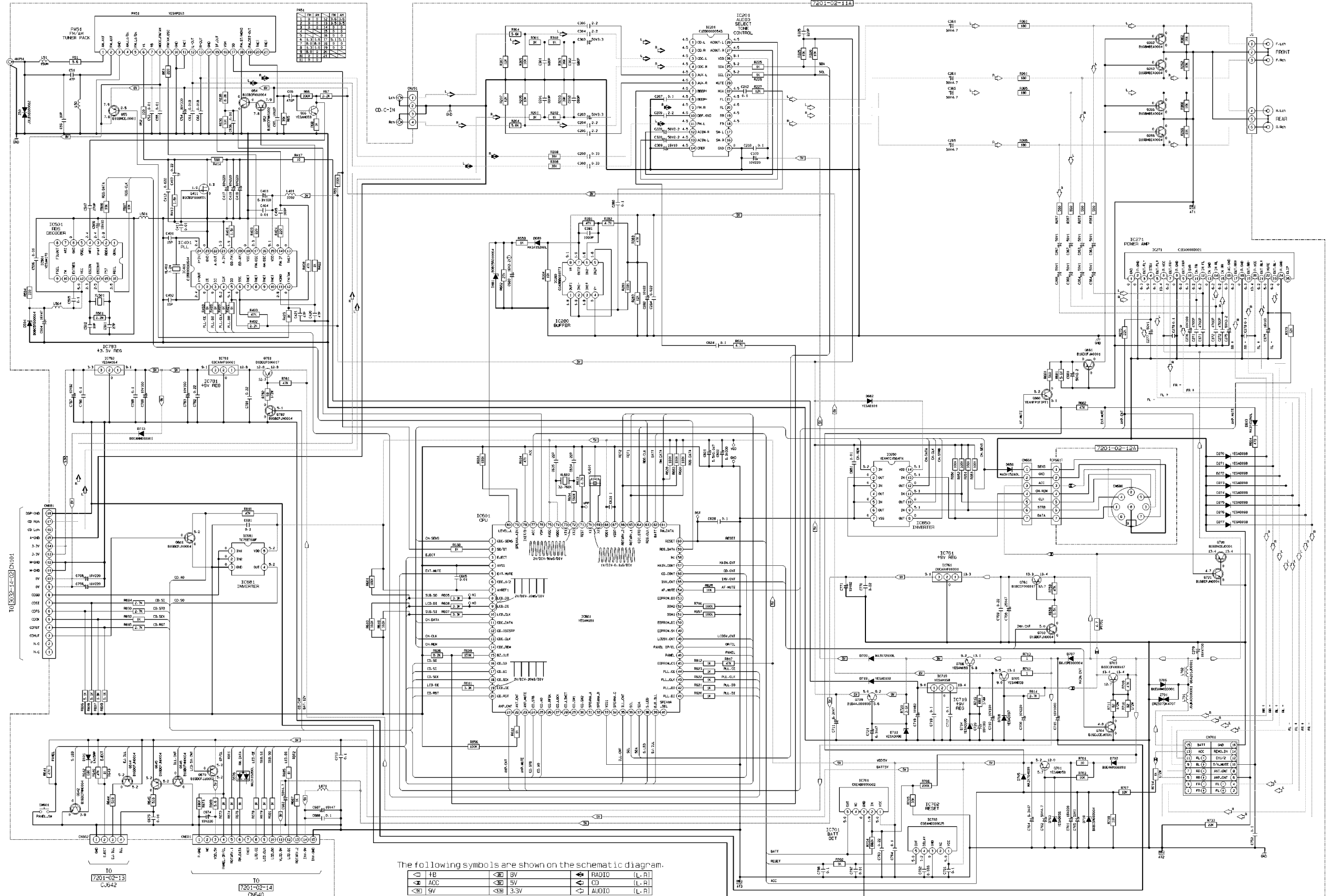
20.1. Display Block [CQ-DFX683N/DFX223N/DFX213N/DFX203N]

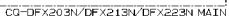


CQ-DFX683N/DFX223N/DFX213N/DFX203N Display / Connector / Eject Block

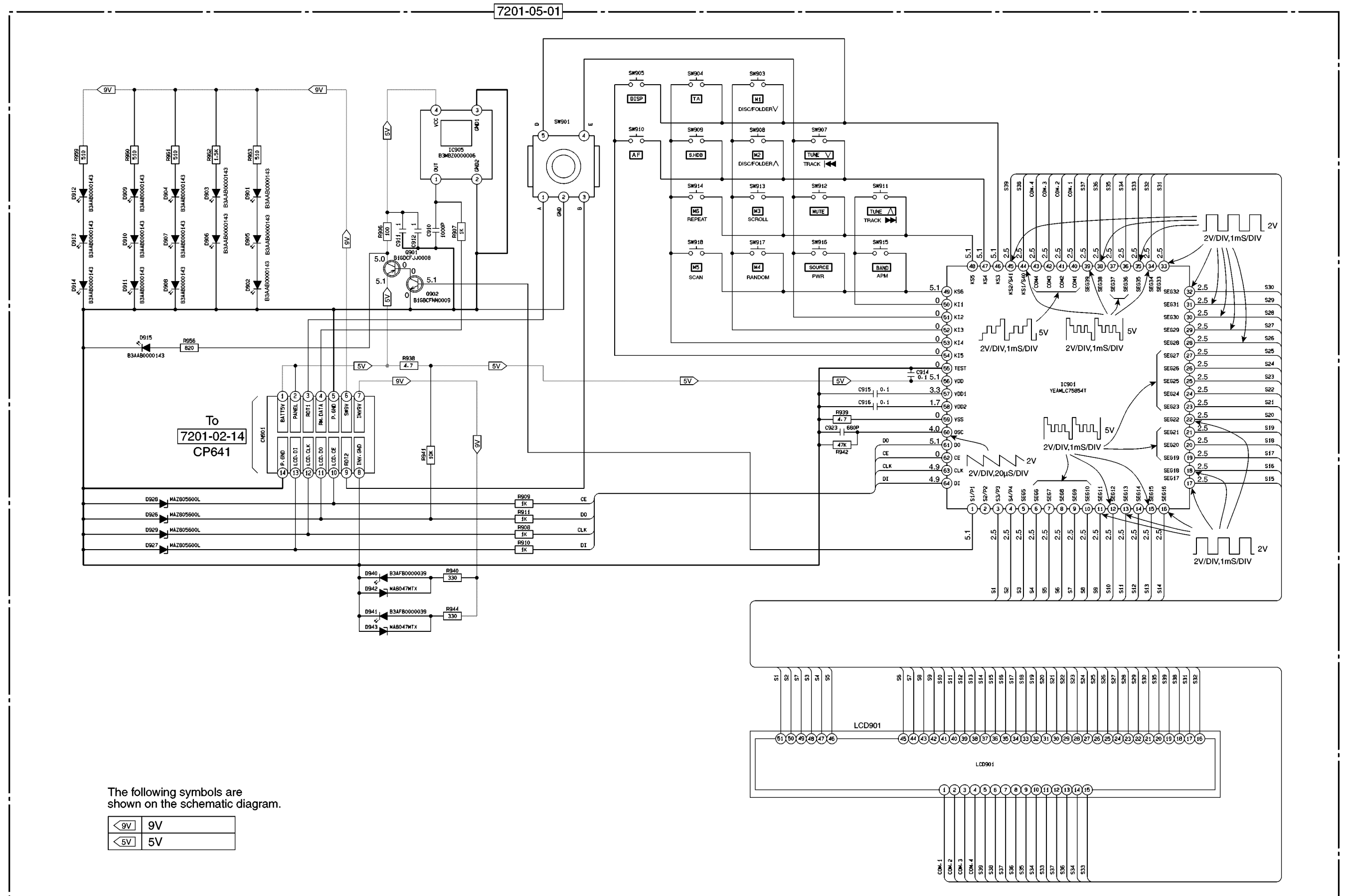
21 SCHEMATIC DIAGRAM-2

21.1. Main Block [CQ-DFX683N]



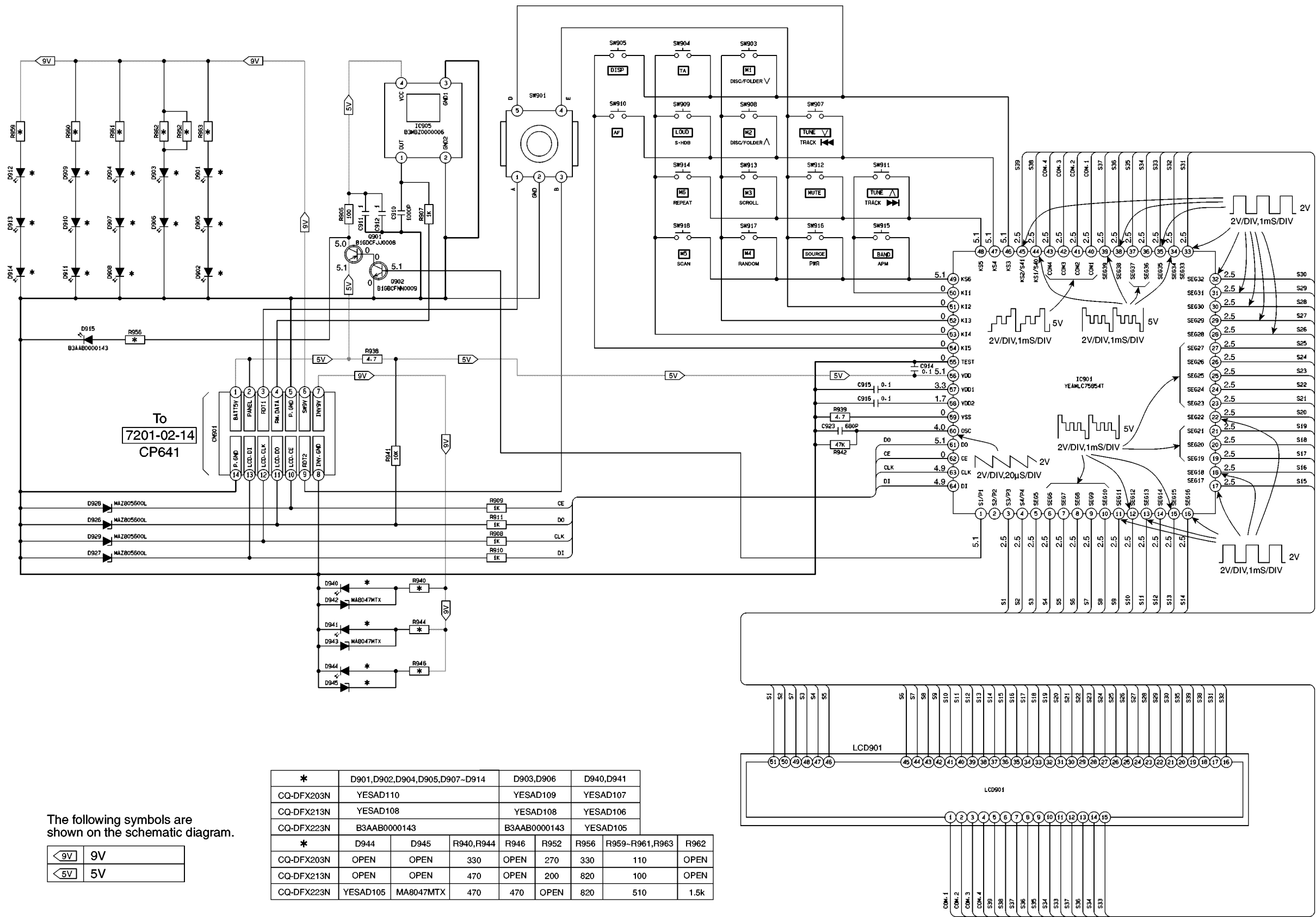


21.3. Display Block [CQ-DFX683N]

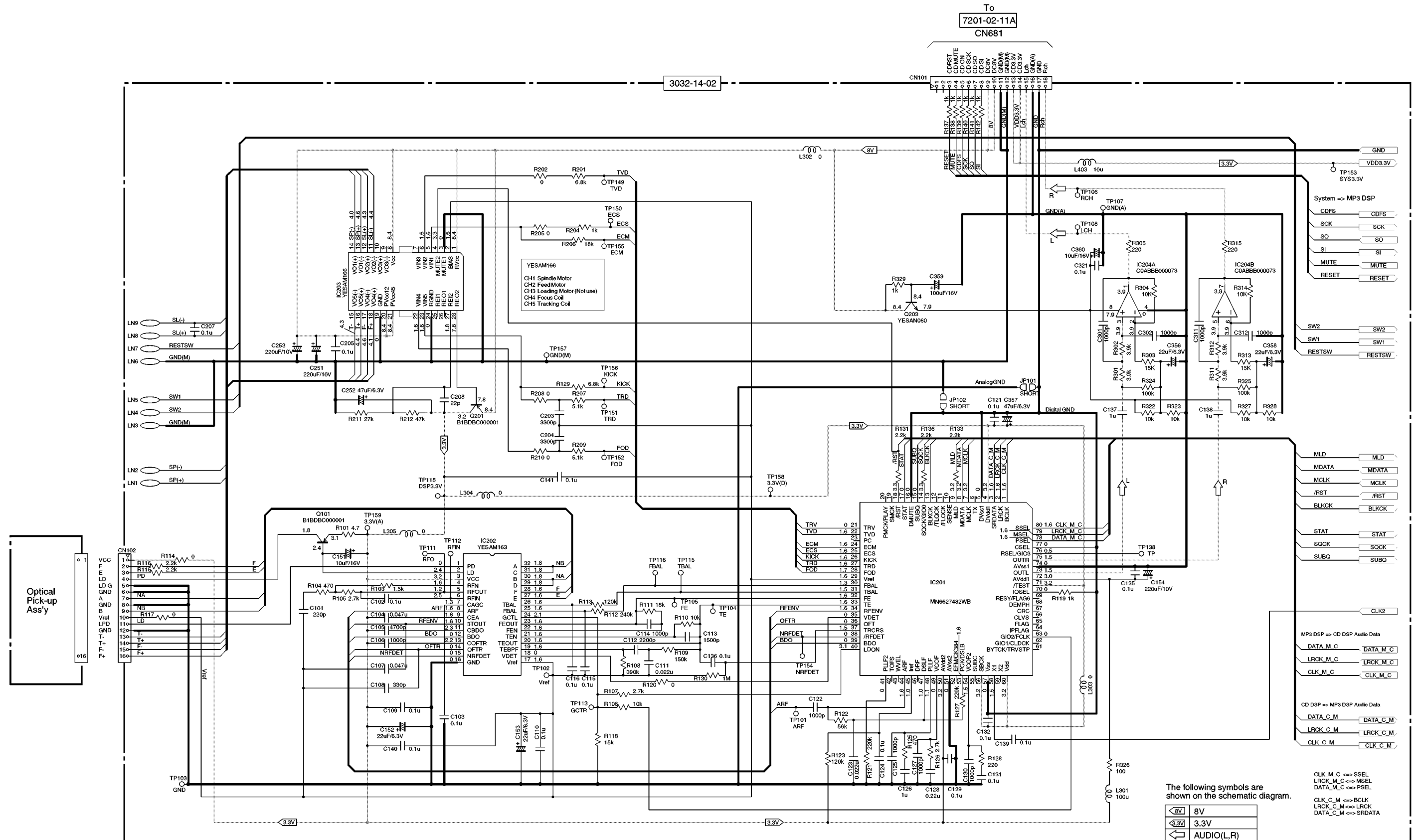


21.4. Display Block [CQ-DFX223N/DFX213N/DFX203N]

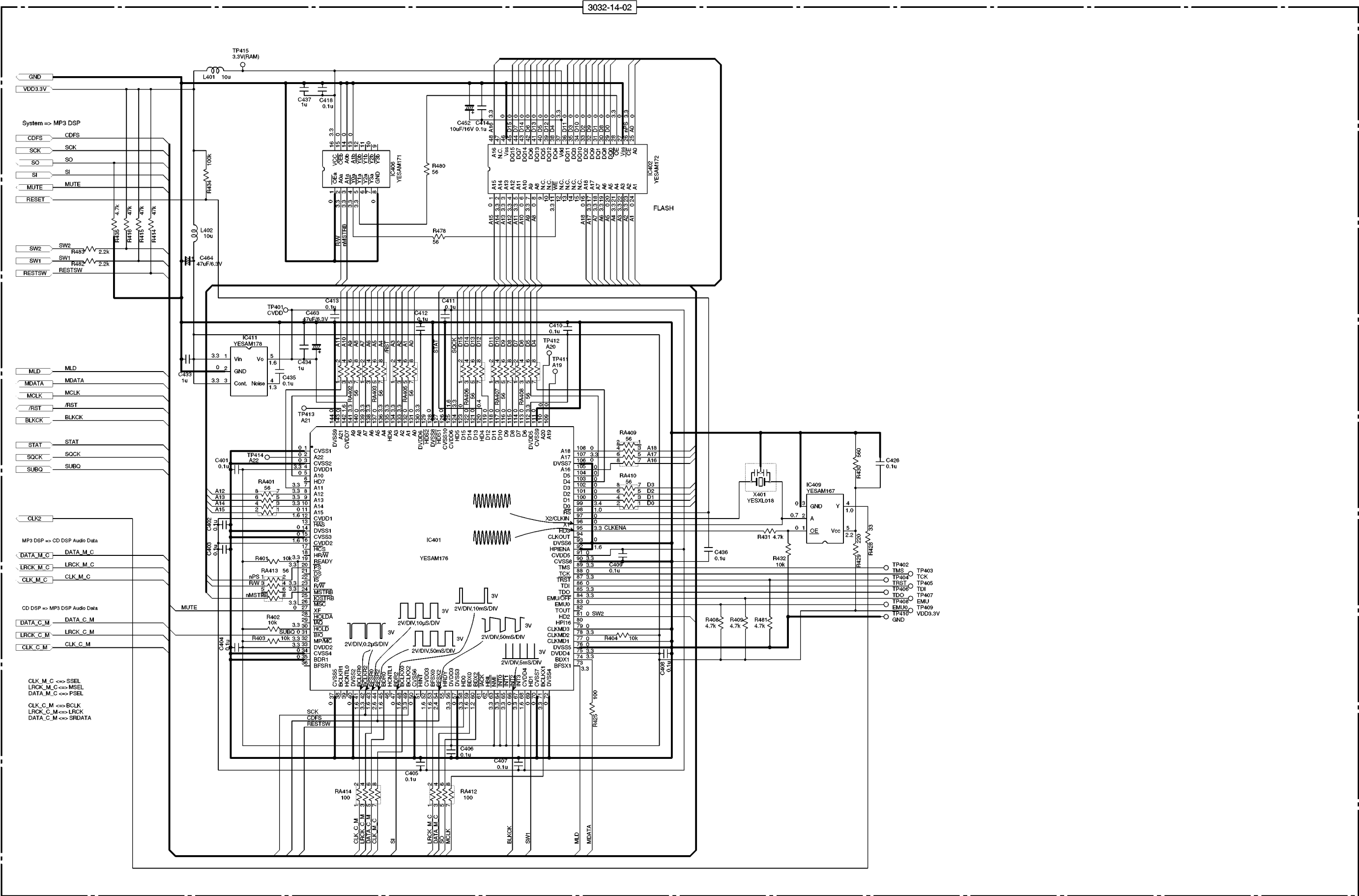
7201-05-01



21.5. CD Servo Block-1 [CQ-DFX683N]



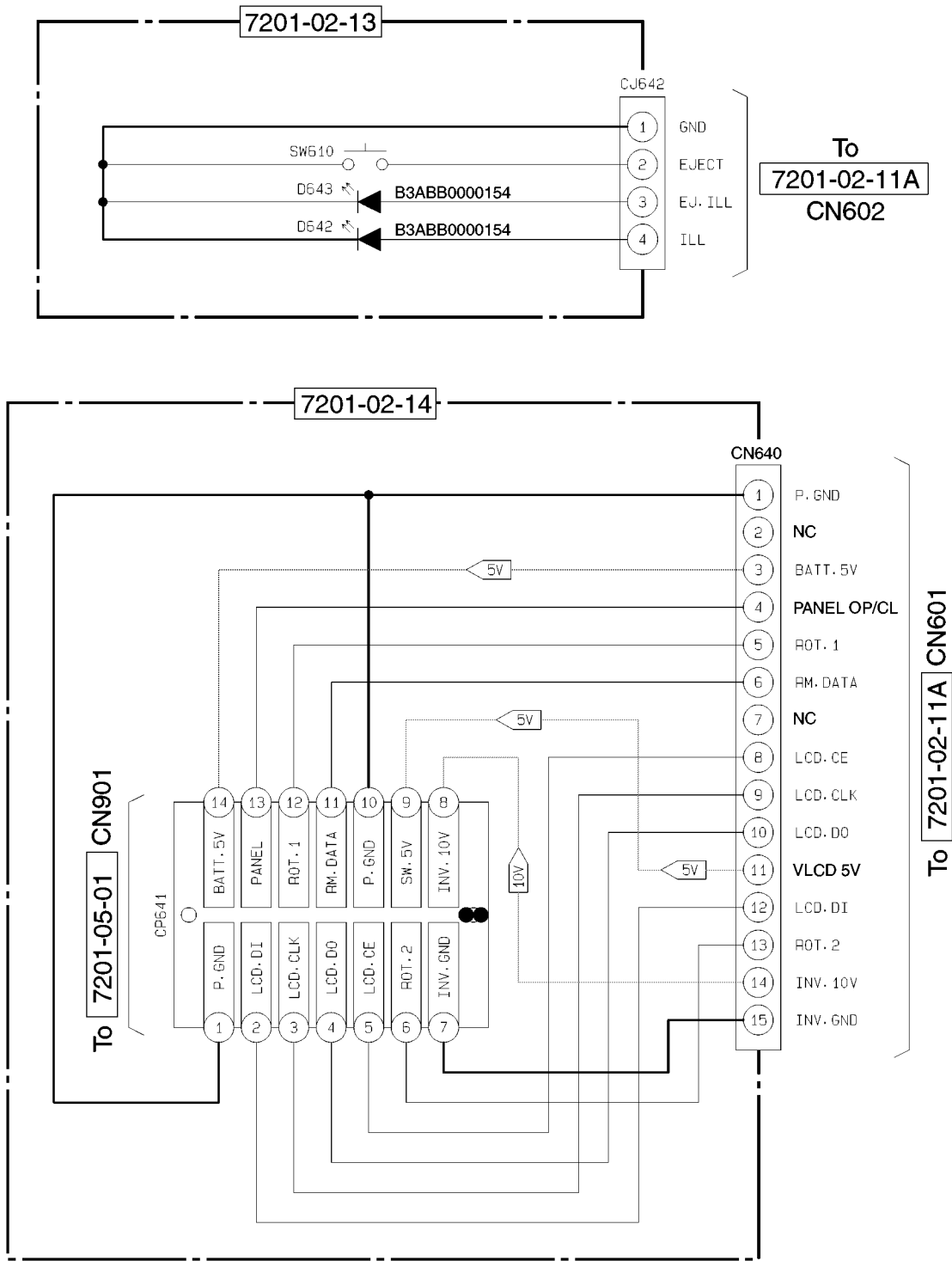
21.6. CD Servo Block-2 [CQ-DFX683N]



21.8. Eject/ Connector Block [CQ-DFX683N]

The following symbols are shown on the schematic diagram.

10V	10V
5V	5V

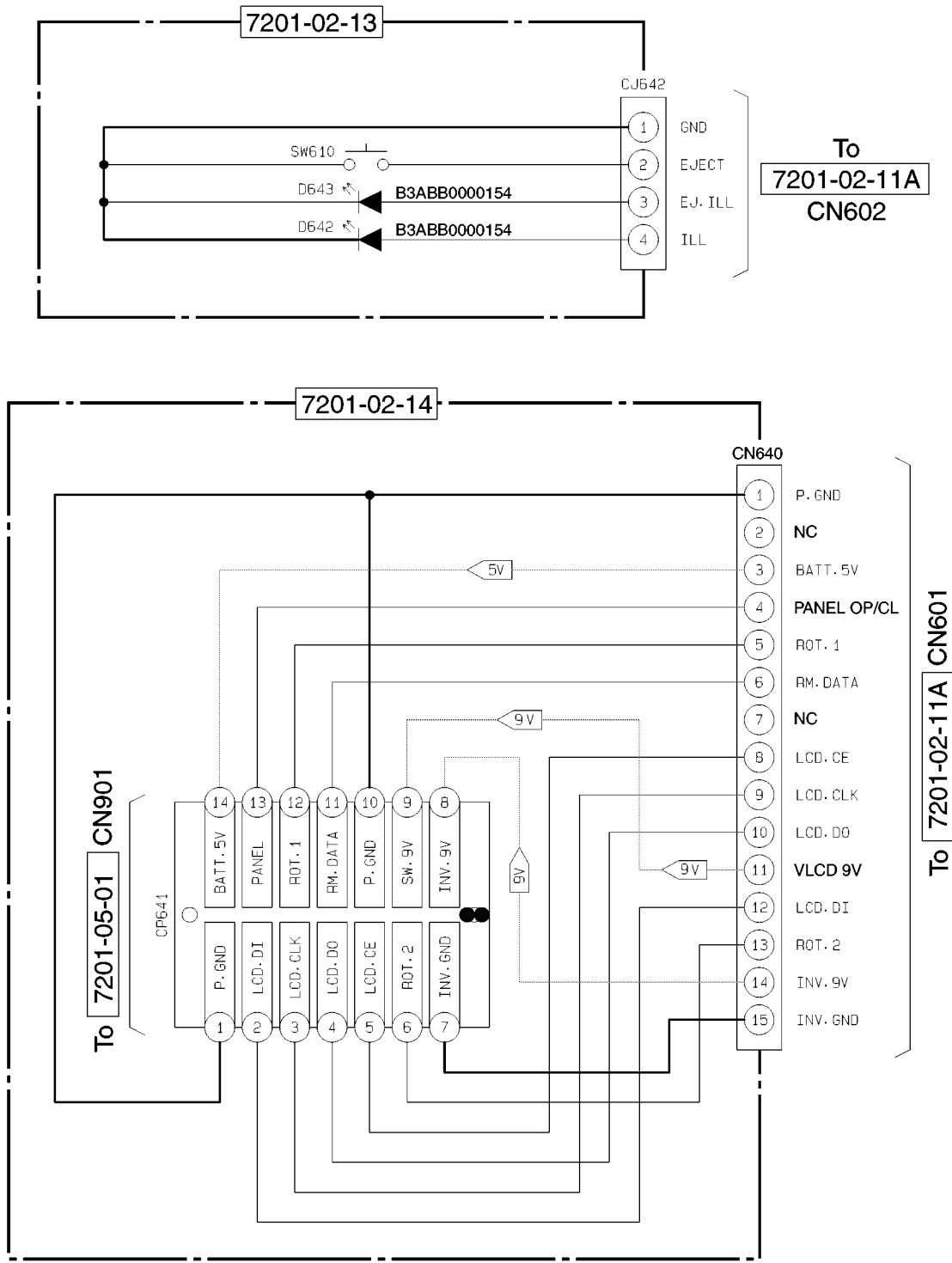


CQ-DFX683N EJ/CON BLOCK

21.9. Eject/ Connector Block [CQ-DFX223N/DFX213N/DFX203N]

The following symbols are shown on the schematic diagram.

9V	9V
5V	5V



CQ-DFX203N/DFX213N/DFX223N EJ/CON BLOCK

22 BLOCK DIAGRAM-2

22.1. Main Block [CQ-DFX683N]

