

Service Manual

COMPACT
disc
DIGITAL AUDIO

AUTO PRODUCTS
CQ-DP34LEE

Removable Face High-Power CD Player / Receiver
Abnehmbares Bedienteil High-Power CD-Spieler / Autoradio



- MASH is a trademark of NTT.

SPECIFICATIONS\ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

INSTALLATION\УСТАНОВКА

ELECTRICAL AND SPEAKER CONNECTION\ЭЛЕКТРИЧЕСКИЕ СОЕДИНЕНИЯ

BLOCK DIAGRAM\БЛОК - СХЕМА

SCHEMATIC DIAGRAM\ПРИНЦИПИАЛЬНЫЕ СХЕМЫ

WIRING DIAGRAM\СХЕМЫ СОЕДИНЕНИЙ

OPERATION OF LSI\ЦОКОЛЕВКА И ФУНКЦИОНАЛЬНОЕ НАЗНАЧЕНИЕ ВЫВОДОВ МИКРОСХЕМ

PACKAGE AND IC BLOCK DIAGRAM\БЛОК - СХЕМЫ МИКРОСХЕМ

REPLACEMENT PARTS LIST\СПИСОК ЗАПАСНЫХ ЧАСТЕЙ

EXPLODED VIEWS\СБОРОЧНЫЕ ЧЕРТЕЖИ

Panasonic

■ FEATURES

- PLL (Phase Locked Loop) Synthesized Tuning.
- 24-Stations Preset (18-FM, and 6-MW/LW).
- 32-times Oversampling MASH 1-Bit Dual DAC System.
- Electronic Control of Volume, Bass, Treble, Balance and Fader.
- Detachable Face Plate Security.

FUSE

Be sure to use a fuse of the specified rating (1A, 10A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit.

MAINTENANCE

To clean the exterior of this unit, use a soft cloth to wipe the surface. Do not use benzine, thinner, or any other type of solvents.

Specifications*

General

Power Supply	: DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Maximum Power Output	: 22W × 4 (at 4Ω)
Power Output	: 11W × 4 (DIN45 324 at 4Ω)
Tone Controls	: Bass: ± 12dB at 100Hz Treble: ± 12dB at 10kHz
Speaker Impedance	: 4 - 8Ω
Current Consumption	: Less than 2.0A (CD Play mode, 0.5W 4-Speaker)

FM Stereo Radio

Frequency Range	: 87.5 - 108MHz
Usable Sensitivity	: 6dB/μV (S/N 30dB)
Stereo Separation	: 42 dB (at 1kHz)

MW Radio

Frequency Range	: 531 - 1,602kHz
Usable Sensitivity	: 26dB/μV (S/N 20dB)

LW Radio

Frequency Range	: 153 - 279kHz
Usable Sensitivity	: 30dB/μV (S/N 20dB)

CD Player

Sampling Frequency	: 32 times oversampling
DA Converter	: MASH-1bit/4 DAC System
Error Correction System	: Panasonic Super Decoding Algorithm
Pick-Up Type	: Astigma 3-beam
Light Source	: Semiconductor laser
Wavelength	: 780 nm
Frequency Response	: 20Hz to 20,000Hz (± 1dB)
Signal to Noise Ratio	: 96dB
Total Harmonic	
Distortion	: 0.01% (1kHz)
Wow and Flutter	: Below measurable limits
Channel Separation	: 75dB

Dimensions**

Main unit	: 178 (W) × 50 (H) × 160 (D) mm
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Weight**

Main unit	: 1.7kg
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* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

RADIO ALIGNMENT

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

CD DECK ALIGNMENT

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

Installation

Preparation

- Before installation check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (–) battery terminal (see caution below).

Caution:

For installation to cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery could not be disconnected. Therefore, extra care should be taken to prevent short circuiting.

In-dash Installation

Installation Opening

In-dash installation can be done if the car's dashboard has an opening for this unit as shown in Fig. 1. The car's dashboard should have a thickness of 4.5mm - 6mm in order to make the installation of the unit.

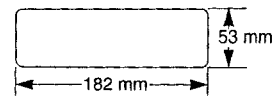


Fig. 1

Installation Precautions

1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connection on page 12 carefully. Failure to do so may result in damage to the unit.
3. Connect the power lead after other connections are made.
4. Be sure to connect the YELLOW lead to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardware

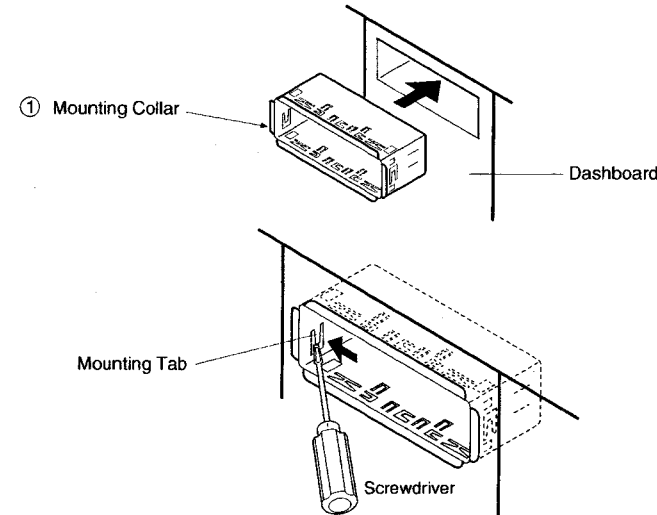
No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Plain Washer (5 mmφ)		2
③	Spring Washer (5 mmφ)		2
④	Hex. Nut (5 mmφ)		2
⑤	Rear Support Strap		1
⑥	Hex. Bolt (5 mmφ x 25 mm)		1

No.	Item	Diagram	Q'ty
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Dismounting Pin		1
⑩	Power Connector		1
⑪	Removable Face Plate Case		1

Installation Procedures

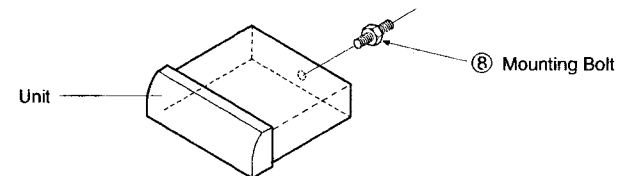
1. Secure the Mounting Collar ①.

Insert Mounting Collar ① into the car's dashboard, and bend mounting tabs out with a screwdriver.

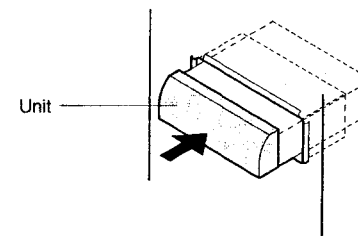


2. Secure the rear of the unit.

- a) Check the electrical connection by referring to this operating instructions.
- b) Connect the Mounting Bolt ⑧, using a suitable wrench.



- c) Insert the unit into Mounting Collar ① and push it in until "click" is heard.

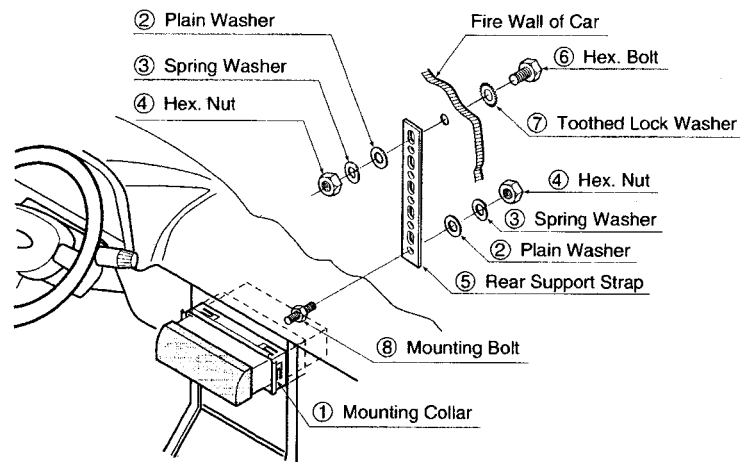


- d) Secure the rear of the unit to the car by either of the two recommended methods on the next page.

Installation continued

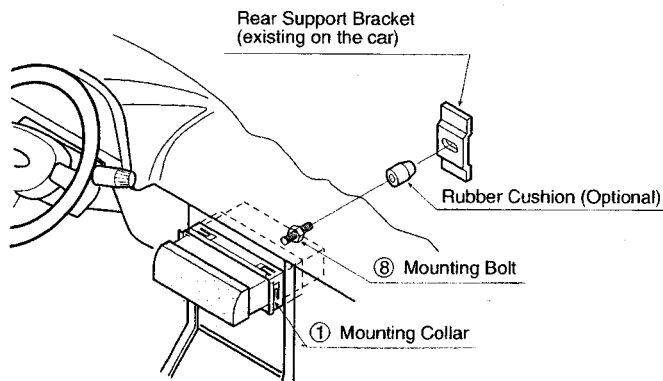
■ Using the Rear Support Strap ⑤

Affix one end of the Rear Support Strap ⑤ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.

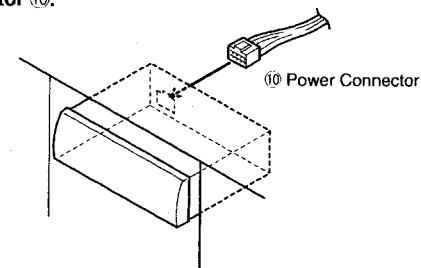


■ Using the Rubber Cushion (Optional)

(If there is an existing Rear Support Bracket on the Fire Wall of Car.)
Cover Mounting Bolt ⑧ on the rear of the unit with Rubber Cushion (Optional), and mount it into the existing Rear Support Bracket.



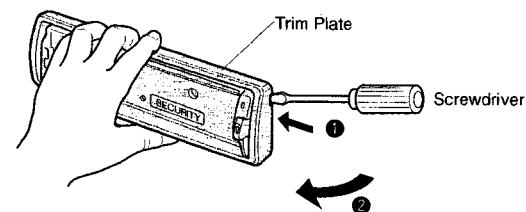
3. Plug the Power Connector ⑩.



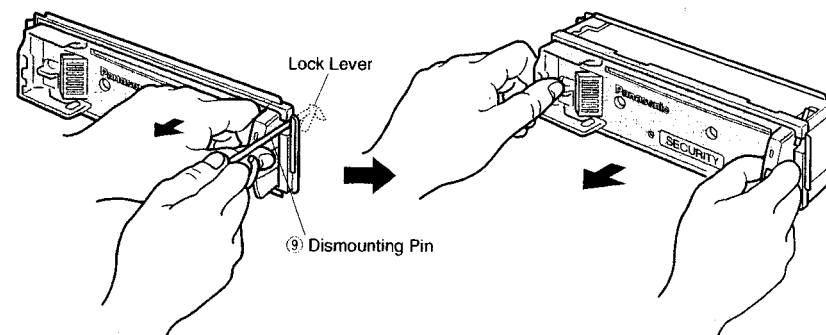
4. After installation reconnect the negative (-) battery terminal.

To Remove the Unit

- Remove the removable face plate. (See page 9.)
- Remove the trim plate with a screwdriver as shown in the figure.



- Pull out the unit while pushing the lock lever using Dismounting Pin ⑨.
- Remove the unit pulling with both hands.

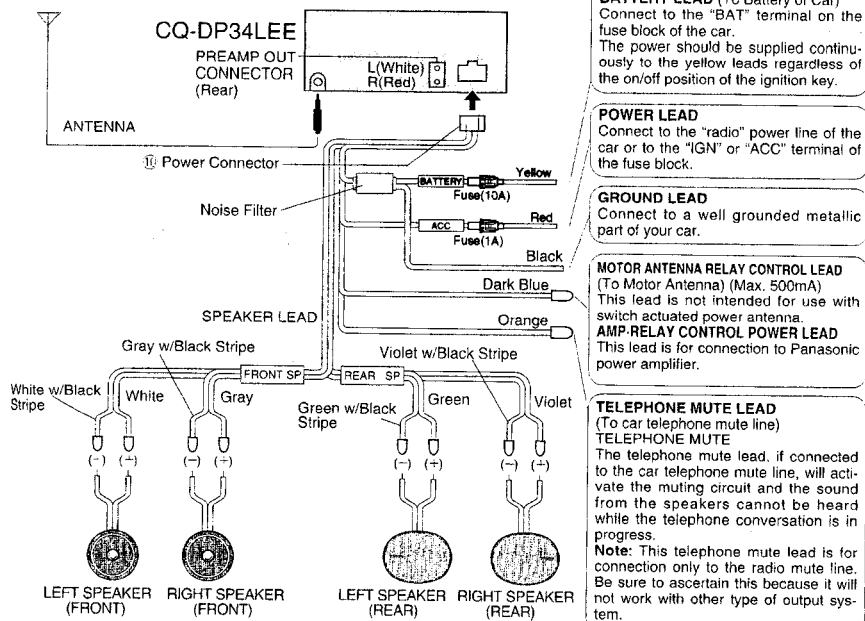


Note: Do not lose the Dismounting Pin. It will be needed to remove the unit from the car's dashboard.

Electrical Connection

Caution:

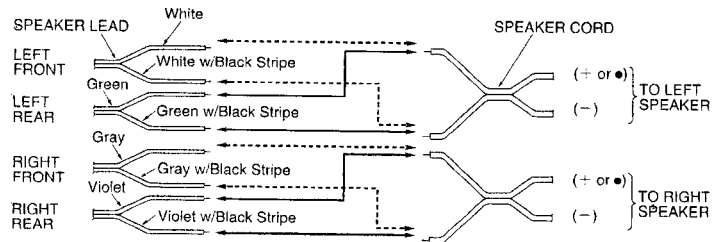
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting.
- Be sure to connect the ground lead (black) to the car chassis first before connecting the other leads to the specified wires of the car.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



2-SPEAKER SYSTEM

Use only front or rear speaker leads. Do not connect both (Front and Rear) together.

- When the front speakers are used, connect leads as illustrated in dotted lines (.....) below.
- When the rear speakers are used, connect leads as illustrated in actual lines (—) below.



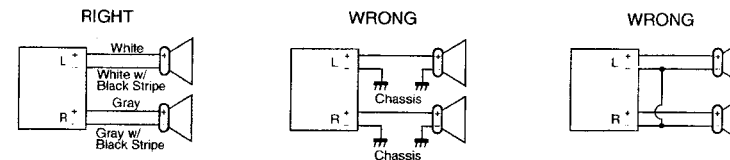
※ To prevent unused speaker leads from any short-circuiting, protect them with insulating caps.

Speaker Connections

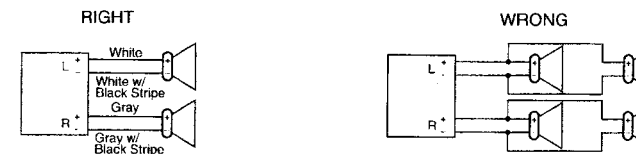
CAUTION:

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 22W of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.
3. The speaker impedance should be 4 - 8 ohms. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or this unit.
4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 30cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

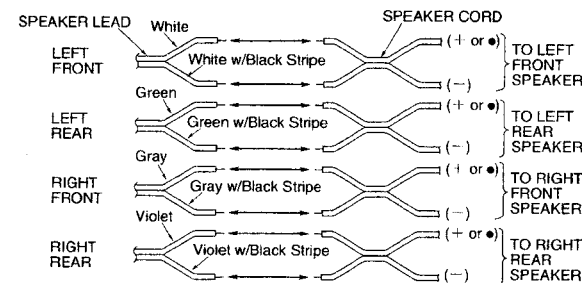
- Unit will be damaged if speakers (Front, Rear) are not connected properly.



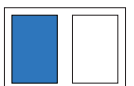
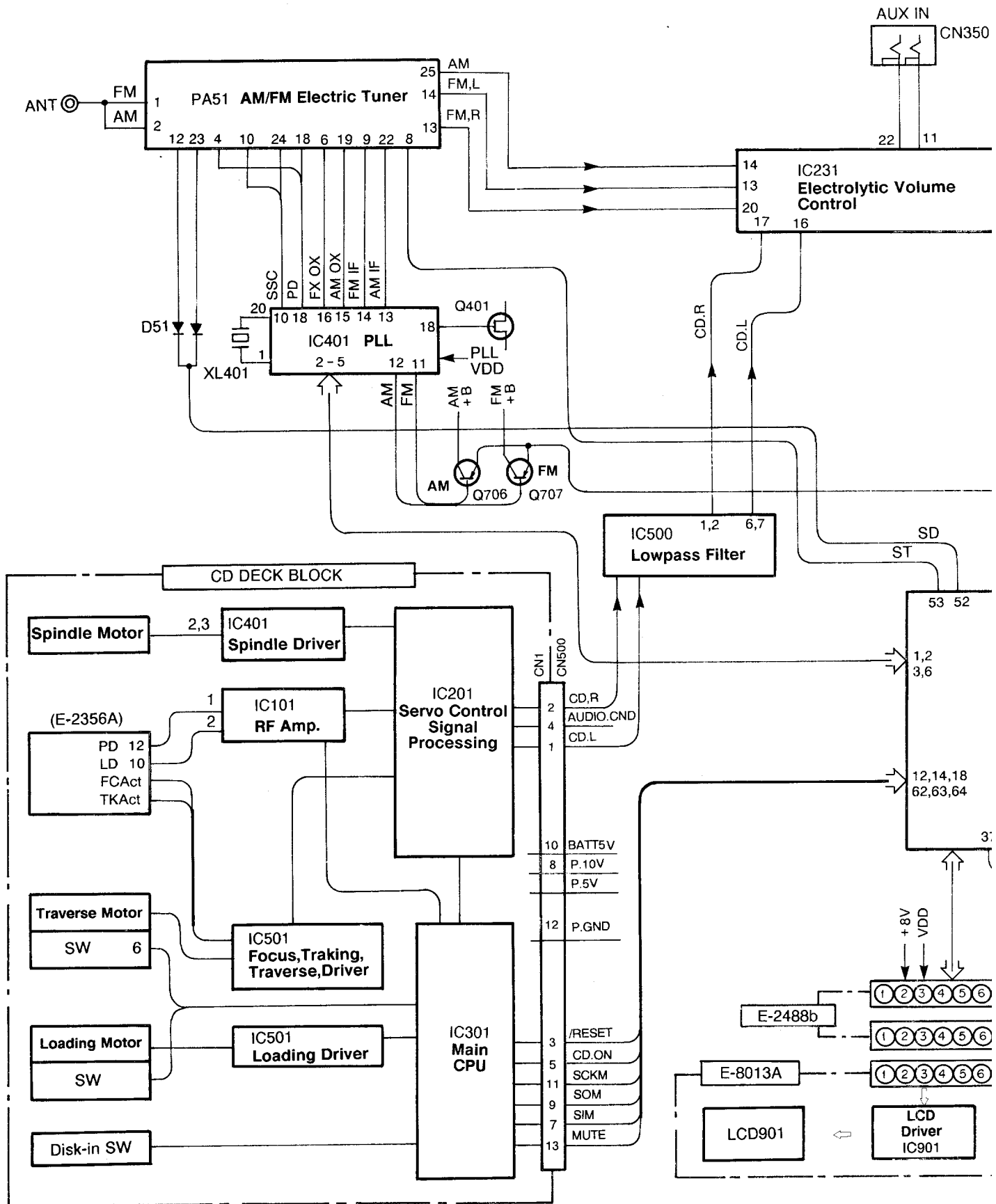
- Do not connect more than one speaker to one set of speaker leads.

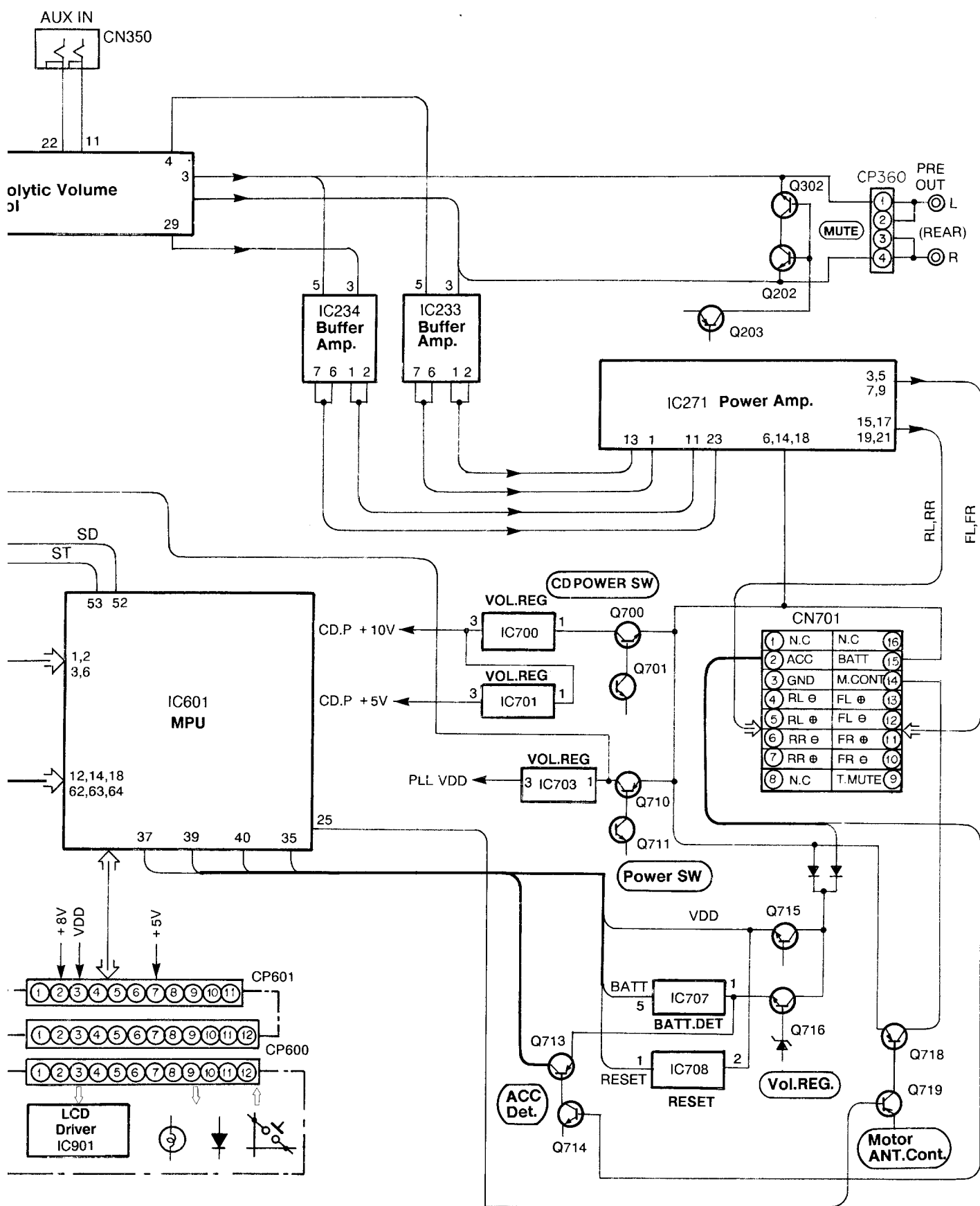


4-SPEAKER SYSTEM

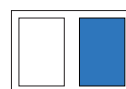


BLOCK DIAGRAM MODEL CQ-DP34LEE

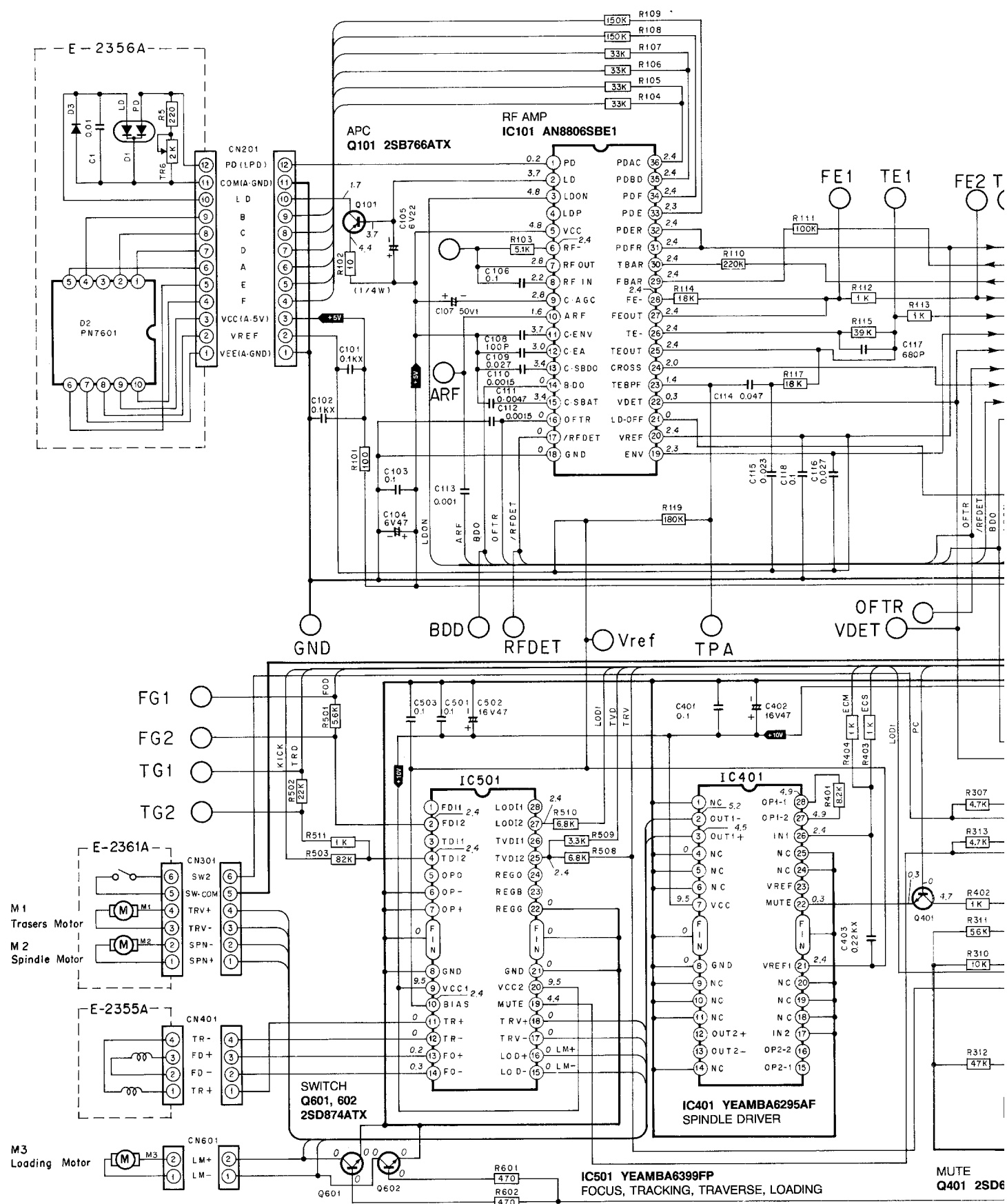




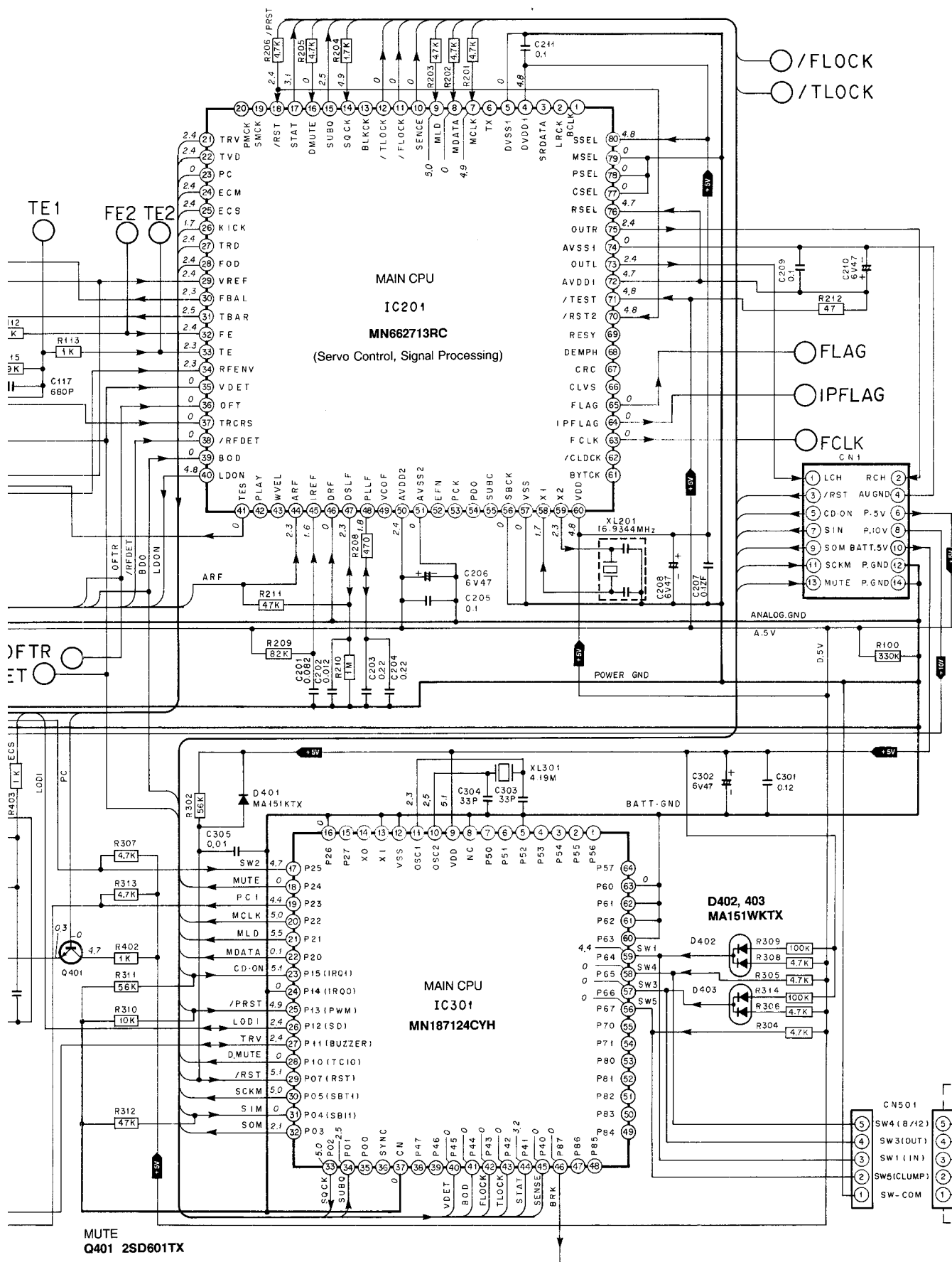
Removable Face High-Power CD Player / Receiver



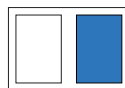
SCHEMATIC DIAGRAM / SCHALTBILT MODEL CQ-DP34LEE (CD Deck Block)

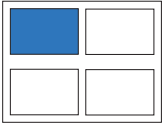


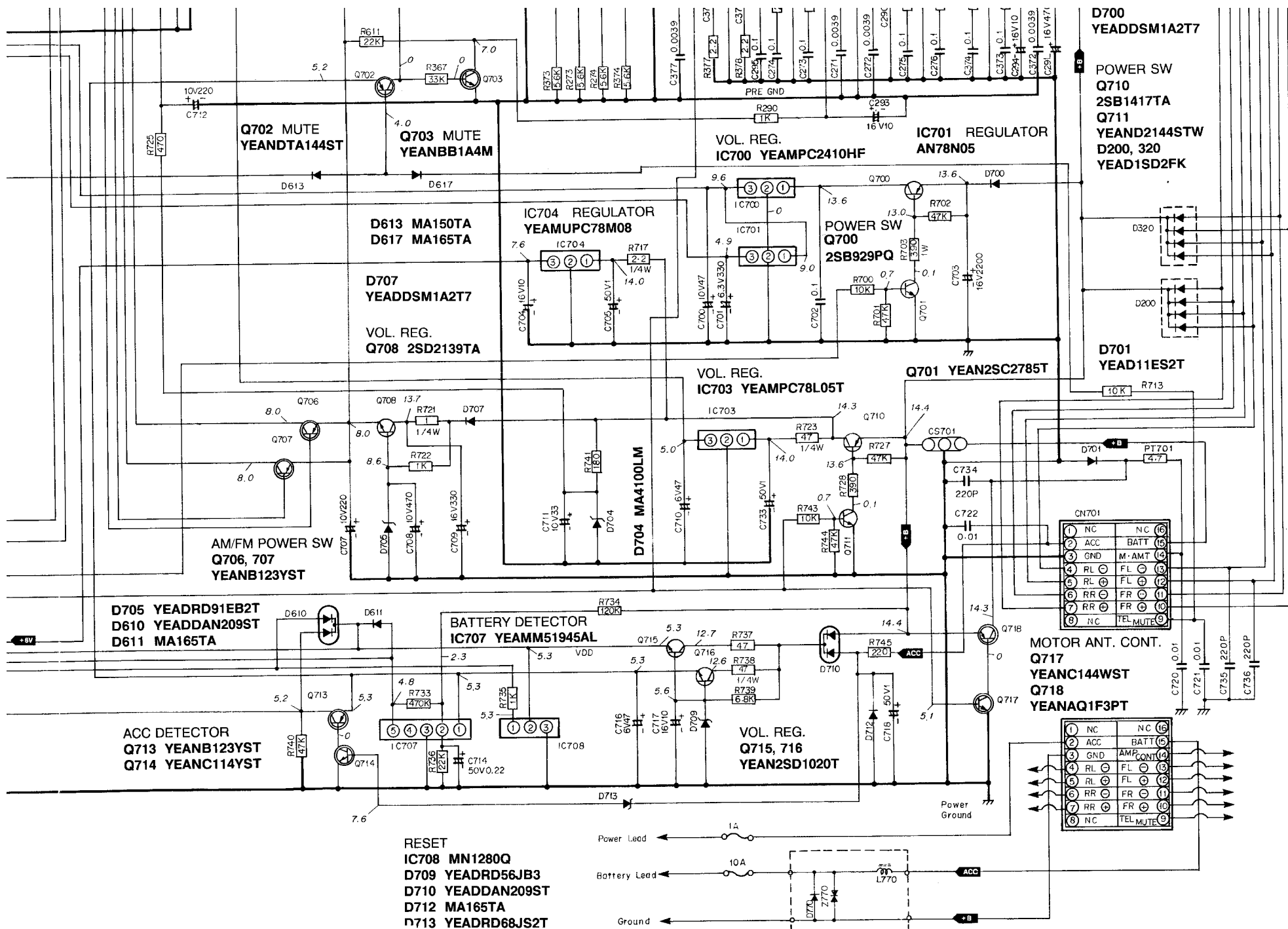
Deck Block)



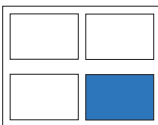
Removable Face High-Power CD Player / Receiver







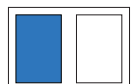
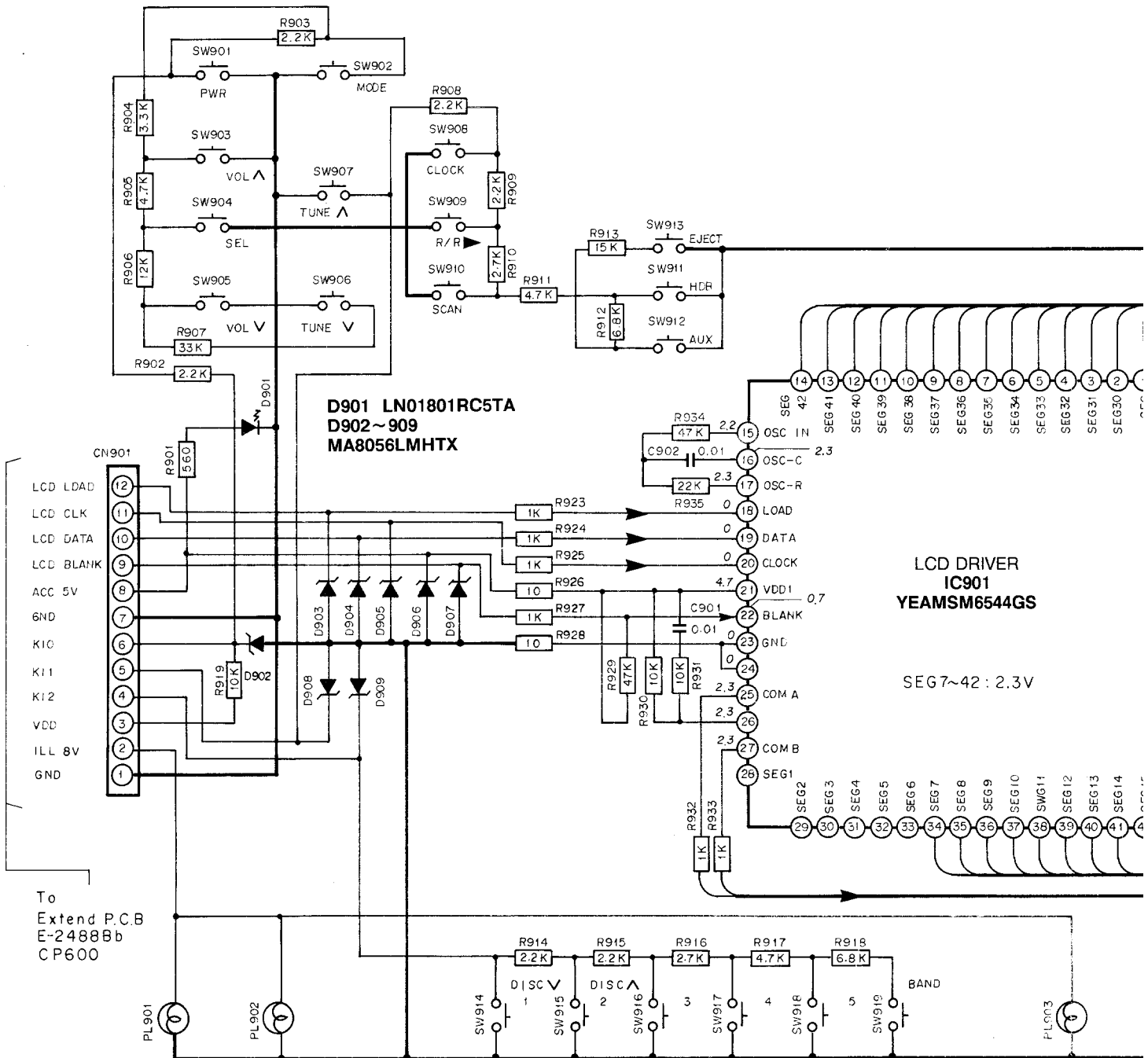
Removable Face High-Power CD Player / Receiver



SCHEMATIC DIAGRAM / SCHALTBIKT MODEL CQ-DP34LEE (Display Block)

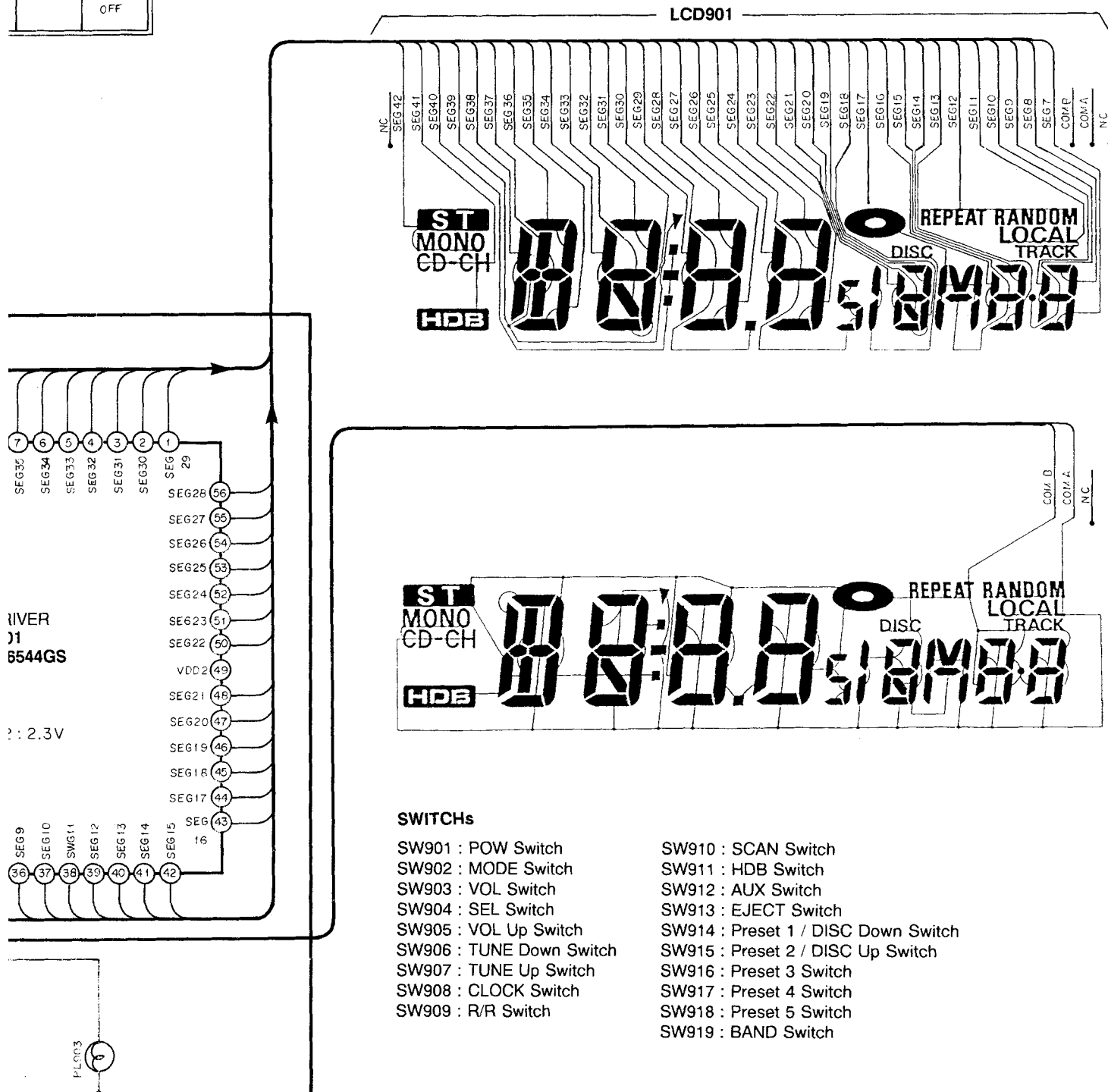
KEY MATRIX

K10	[PANEL]	POWER	MODE	VOL ▲	SEL	VOL ▼	TUNE ▼	OFF
K11	TUNE ▲	DISP CLOCK	R/R ►	SCAN	HDB	AUX	EJECT	OFF
K12	DISC ▼ M1	DISC ▲ M2	M3	M4	M5	A-P BAND		OFF

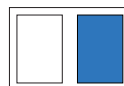


Display Block)

TUNE V	OFF
EJECT	OFF
	OFF



Removable Face High-Power CD Player / Receiver



WIRING DIAGRAM / VERDHATUNG MODEL CQ-DP34LEE (Main Block)

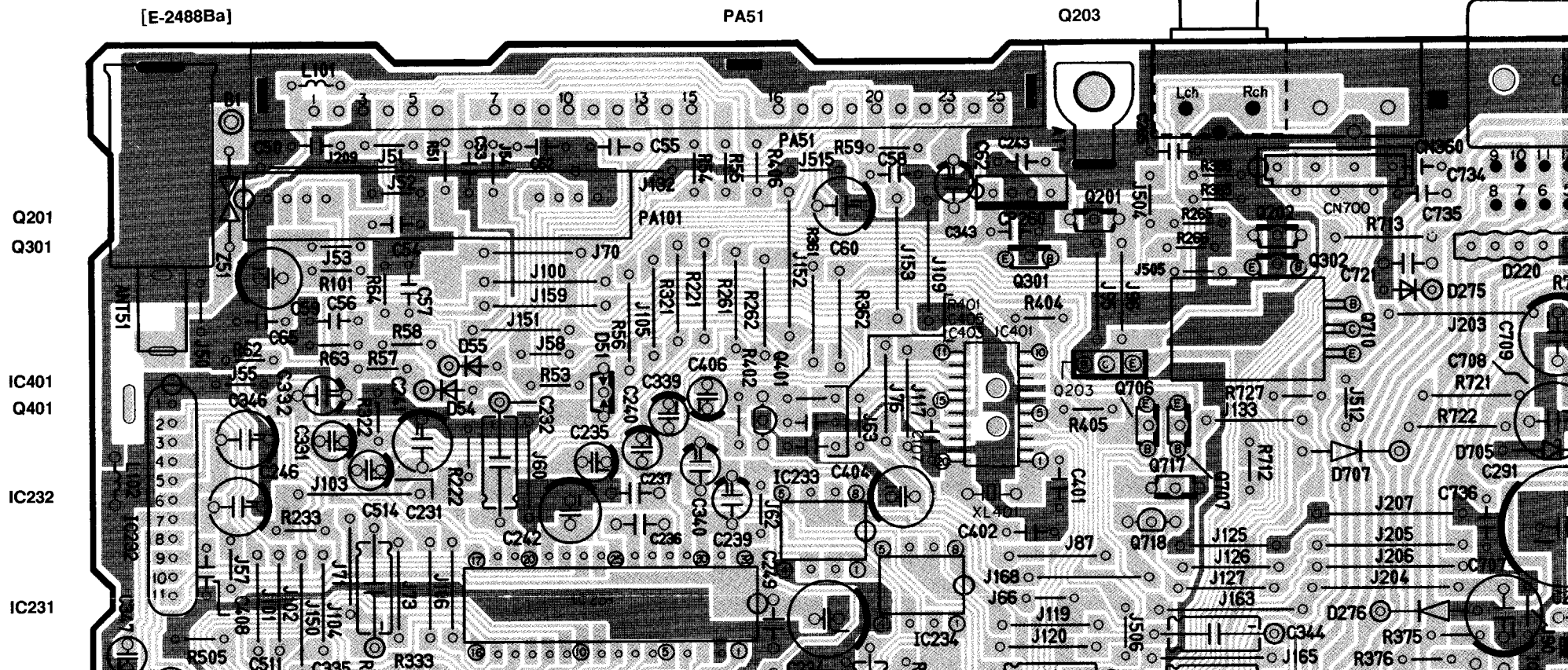
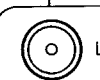
Q700		Q701		Q706		Q707		Q708	
B	13.0 V	B	0.7 V	B	0 V	B	0 V	B	8.6 V
C	13.6 V	C	0.1 V	C	8.0 V	C	8.0 V	C	13.7 V
E	13.6 V	E	0 V	E	8.0 V	E	8.0 V	E	8.0 V
Q710		Q711		Q713		IC714		Q715	
B	13.6 V	B	0.7 V	B	0 V	B	7.6 V	B	5.6 V
C	14.3 V	C	0.1 V	C	5.2 V	C	0 V	C	12.7 V
E	14.4 V	E	0 V	E	5.3 V	E	0 V	E	5.3 V
				Q716		Q717		Q718	
				B	5.6 V	B	5.1 V	B	0 V
				C	12.6 V	C	0 V	C	14.3 V
				E	5.3 V	E	0 V	E	14.4 V

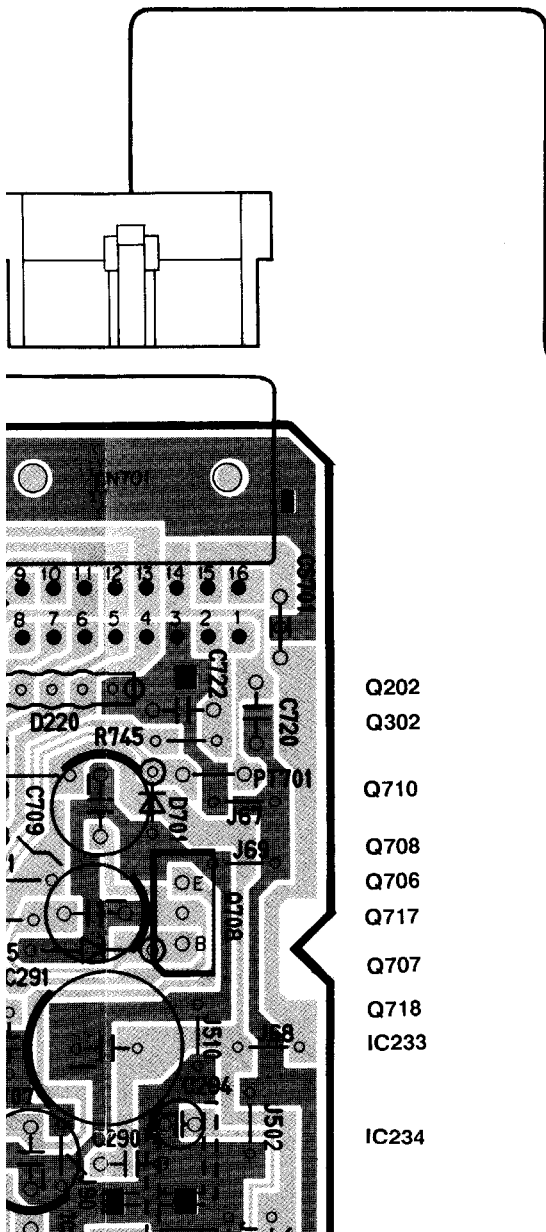
CN701 16Pin Connector

1. No Connection
2. Power Supply, ACC ⊕
3. Ground
4. Rear Speaker, Left ⊖
5. Rear Speaker, Left ⊕
6. Rear Speaker, Right ⊖
7. Rear Speaker, Right ⊕
8. No Connection
9. Tel. Mute
10. Front Speaker, Right ⊕
11. Front Speaker, Right ⊖
12. Front Speaker, Left ⊕
13. Front Speaker, Left ⊖
14. Motor Ant Cont.
15. Power Supply, +B
16. No Connection

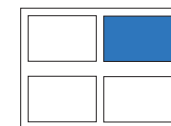
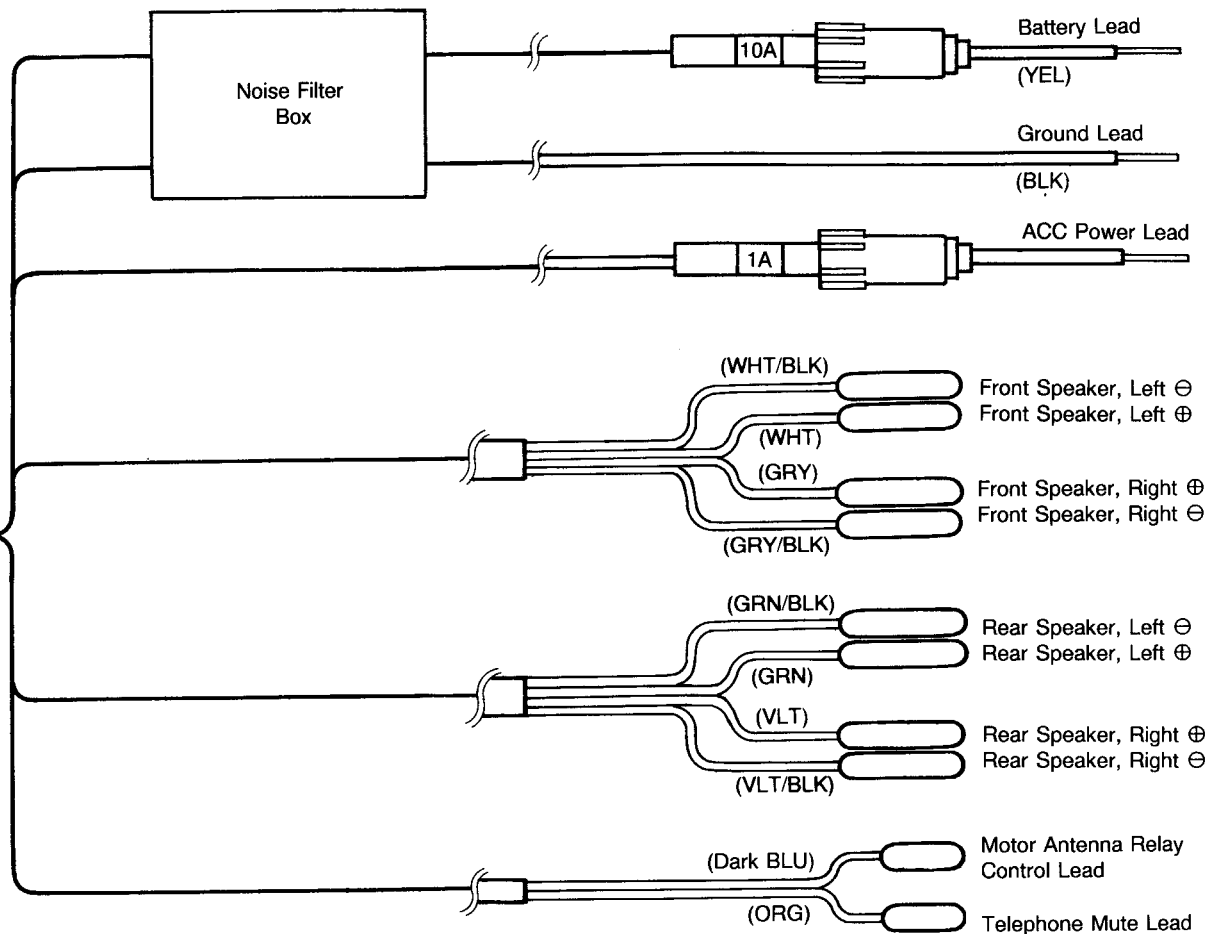
CN360 RCA Connector

REAR





Q202
Q302
Q710
Q708
Q706
Q717
Q707
Q718
IC233
IC234



IC231

IC703

IC601

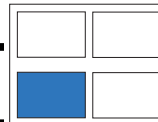
IC500

IC707

To CD Control P.C.B.
E-8018A CN1

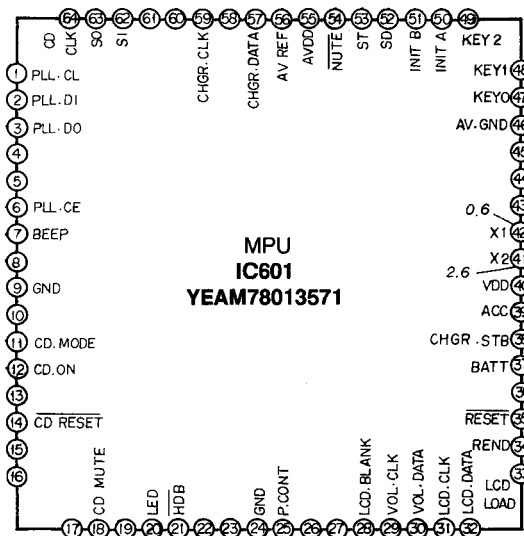
E-2488Ba

E-2488Bb

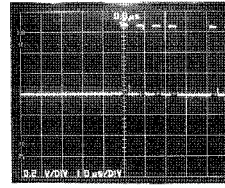


OPERATION OF LSI

■ IC601 YEAM78013571 (MAIN BLOCK, MPU)

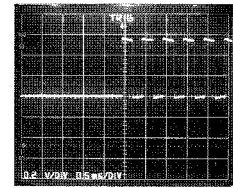


① PLL. CL



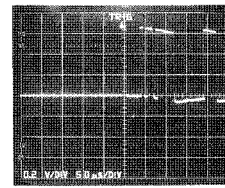
2V/DIV, 10 μ S/DIV

⑥ PLL. CE



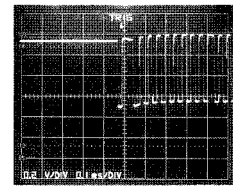
2V/DIV, 0.5 μ S/DIV

③ PLL. DO



2V/DIV, 50 μ S/DIV

②⑨ VOL. CLK



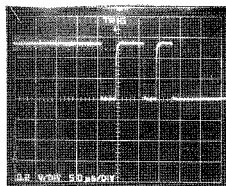
2V/DIV, 0.1mS/DIV

Pin No.	Port	Description	I/O	Vol. (V)
1	PLL. CLK	Clock for PLL	O	0
2	PLL. DI	DATA from PLL	I	0
3	PLL. DO	DATA for PLL	O	0
4	—			
5	—			
6	PLL. CE	PLL controller chip enable	O	0
7	NC	No connection	—	—
8	—	(Connectiong to ground)	—	0
9	GND	Ground (V _{SS})	—	0
10	—			
11	CD.MODE	CD mode signal	O	5.1
12	CD. ON	CD STOP/START signal	O	5.2
13	—			
14	CD RESET	CD reset signal	O	5.2
15	—			
16	—			
17	—			
18	CD. MUTE	CD mute control signal	I	0
19	—			
20	LED	Security LED ON/OFF	O	0
21	HDB	High definition bass	O	0
22	—			
23	—			

Pin No.	Port	Description	I/O	Vol. (V)
24	GND	Ground (V _{SS})	—	0
25	P.CONT	Power control	O	5.1
26	—			
27	—			
28	LCD BLANK	LCD ON/OFF control	O	0
29	VOL.CLK	Electrolytic volume clock	O	4.8
30	VOL.DATA	Electrolytic volume data	O	4.8
31	LCD.CLK	LCD drive clock	O	0
32	LCD.DATA	LCD drive data	O	0
33	LCD.LOAD	LCD drive load	O	0
34	—			
35	RESET	Compulsion reset	I	5.1
36	—	(Connectiong to ground)	—	0
37	BATT	Battery detection	I	4.8
38	—			
39	ACC	ACC detection	I	5.1
40	V _{DD}	+5V power supply	—	5.2
41	X2	Crystal oscillator	—	2.6
42	X1	Crystal oscillator	—	0.6
43	—	(Connectiong to ground)	—	0
45	—			
45	—	(Connectiong to ground)	—	0
46	AV. GND	Ground	—	0

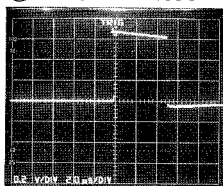
- These waveforms are measured by using ten times ($\times 10$) probe.

③⑩ VOL DATA



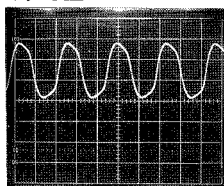
2V/DIV, 50 μ S/DIV

③⑫ LCD DATA



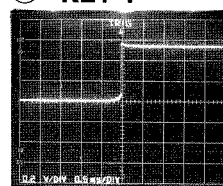
2V/DIV, 20 μ S/DIV

④① X2



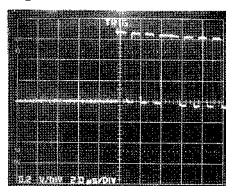
2V/DIV, 50 μ S/DIV

④⑧ KEY 1



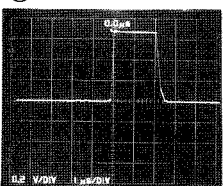
2V/DIV, 0.5mS/DIV

③⑪ LCD CLK



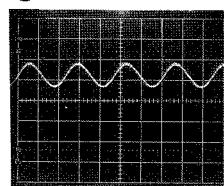
2V/DIV, 20 μ S/DIV

③⑬ LCD LOAD



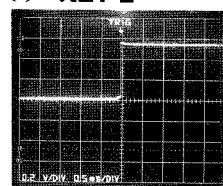
2V/DIV, 1 μ S/DIV

④② X1



2V/DIV, 50 μ S/DIV

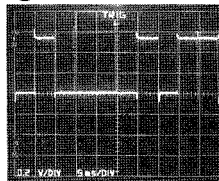
④⑨ KEY 2



2V/DIV, 0.5mS/DIV

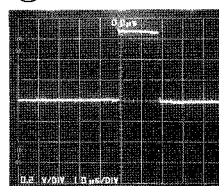
Pin No.	Port	Description	I/O	Vol. (V)
47	KEY0	Key data input	I	4.5
48	KEY1	Key data input	I	4.9
49	KEY2	Key data input	I	4.9
50	INIT A	Initial setting	I	4.5
51	INIT B	Initial setting	I	4.5
52	SD	B/S detection	I	0.5
53	ST	Stereo/Mono input	I	4.7
54	MUTE	Mute control	O	5.1
55	AV _{DD}	+ 5V power supply	—	5.1
56	AV _{REF}	Reference voltage	—	5.1
57	—			
58	—			
59	—			
60	—	(Connectiong to ground)	—	0
61	—	(Connectiong to ground)	—	0
62	SI	Serial data from CD MPU	I	0
63	SO	Serial data for CD MPU	O	0
64	CD CLK	Clock for CD MPU	I	5.0

⑥② SI



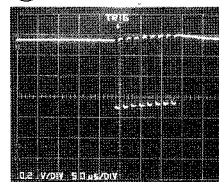
2V/DIV, 5mS/DIV

⑥③ SO



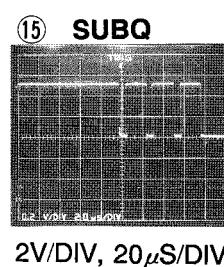
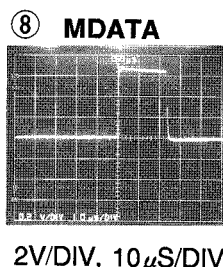
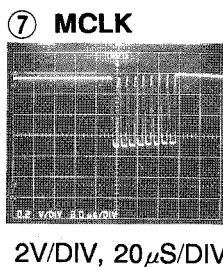
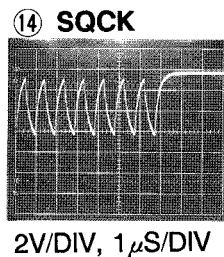
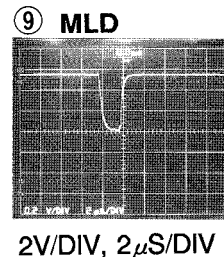
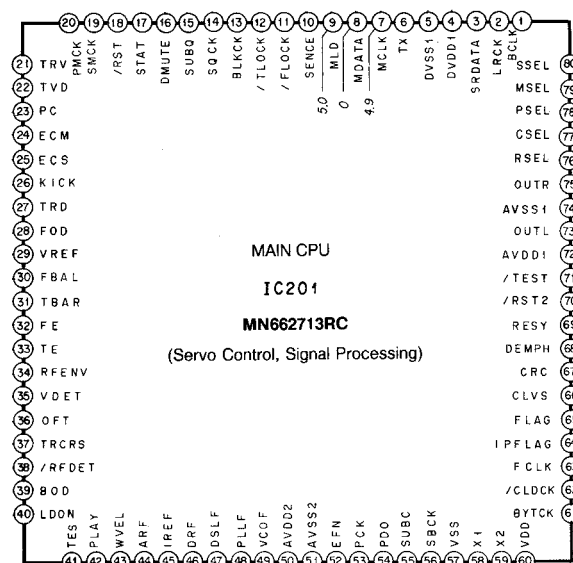
2V/DIV, 10 μ S/DIV

⑥④ CD CLK



2V/DIV, 50 μ S/DIV

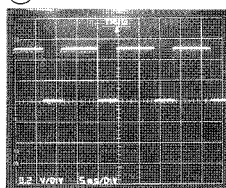
■ IC201 MN662713RC (CD DECK BLOCK)



Pin No.	Port	Description	I/O	Volt. (V)
1	—			
2	—			
3	—			
4	DVDD1	+5V Power Supply for Digital	I	4.8
5	DVSS1	Ground for Digital	I	0
6	—			
7	MCLK	Command Clock Signal	I	4.9
8	MDATA	Command Data	I	0
9	MLD	Command Load	I	5.0
10	SENSE	Sense Signal	O	0
11	/FLOCK	Focus Servo	O	0
12	/TLOCK	Tracking Servo	O	0
13	—			
14	SQCK	EX-Clock for Subcord Q	I	4.9
15	SUBQ	Subcord Q-cord	O	2.5
16	DMUTE	Muting	I	0
17	STAT	Status Signal	O	3.1
18	/RST	Reset Input	I	2.4
19	—			
20	—			

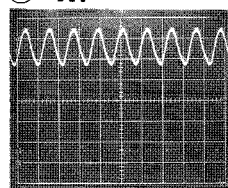
Pin No.	Port	Description	I/O	Volt.(V)
21	TRV	Traverse Motor Control	O	2.4
22	TVD	Traverse Motor Control	O	2.4
23	PC	Spindle Motor ON	O	0
24	ECM	Spindle Motor Drive	O	2.4
25	ECS	Spindle Motor Drive	O	2.4
26	KICK	Kick Pulse	O	1.7
27	TRD	Tracking Drive	O	2.4
28	FOD	Focus Drive	O	2.4
29	VREF	Reference Voltage	I	2.4
30	FBAL	Focus Balance	O	2.3
31	TBAL	Tracking Balance	O	2.5
32	FE	Focus Error	I	2.4
33	TE	Tracking Error	I	2.3
34	RFENV	RF	I	2.3
35	VDET	Detecting Signal	I	0
36	OFT	OFF Track Signal	I	0
37	TRCRS	Track Close	I	0
38	/RFDET	RF Detecting Signal	I	0
39	BDO	Drop-out Signal	I	0
40	LDON	Laser ON Signal	O	4.8

①⑦ STAT



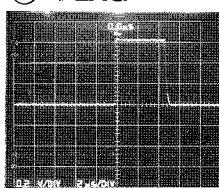
2V/DIV, 5mS/DIV

⑤⑧ X1



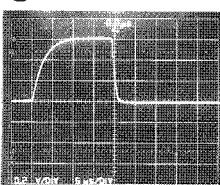
1V/DIV, 50nS/DIV

⑥⑤ FLAG



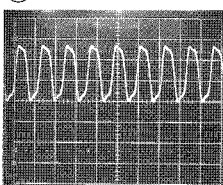
2V/DIV, 2μS/DIV

③⑦ TRCRS



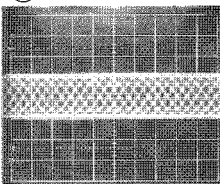
2V/DIV, 5μS/DIV

⑤⑨ X2



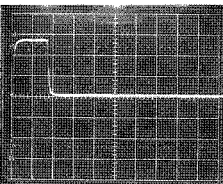
2V/DIV, 50nS/DIV

④④ ARF



0.5V/DIV, 0.5μS/DIV

⑥③ FCLK

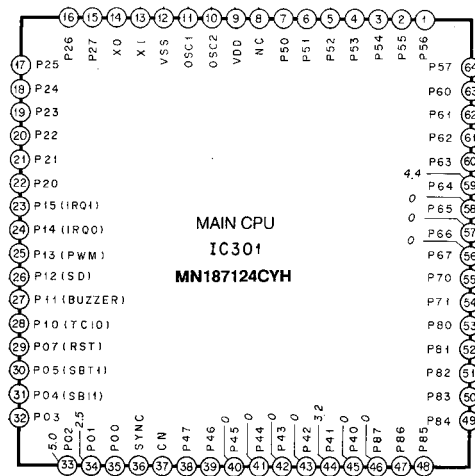


2V/DIV, 0.2μS/DIV

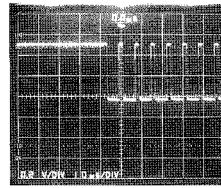
Pin No.	Port	Description	I/O	Vol. (V)
41	TES	Tracking Error Shunt	O	0
42	—			
43	—			
44	ARF	RF Signal	I	2.3
45	IREF	Standard Current Input	I	1.6
46	DRF	Blas for DSL	I	0
47	DSL F	Loop Filter for DSL	I/O	2.3
48	PLL F	Loop Filter for PLL	I/O	1.8
49	—			
50	AVDD2	Power supply for Analog	I	2.4
51	AVSS2	Ground for Analog	I	0
52	—			
53	—			
54	—			
55	—			
56	SBCK	Subcord Clock	I	0
57	V _{SS}	Ground	I	0
58	X1	Crystal oscillator	I	1.7
59	X2	Crystal oscillator	O	2.3
60	V _{DD}	+ 5V Power Supply	I	4.8

Pin No.	Port	Description	I/O	Vol. (V)
61	—			
62	—			
63	FCLK	F-Clock	O	0
64	IPFLAG	H-Flag	O	0
65	FLAG	Flag Output	O	0
66	—			
67	—			
68	—			
69	—			
70	/RST2	Reset for MASH	I	4.8
71	/TEST	Test Pin	I	4.8
72	AVDD1	+ 5V Power supply for Analog	I	4.7
73	OUTL	L-Channel Output	O	2.4
74	AVSS1	Ground for Analog	I	0
75	OUTR	R-Channel Output	O	2.4
76	RSEL	RF Polarity	I	4.7
77	CSEL	(Connecting Ground)	I	0
78	PSEL	(Connecting Ground)	I	0
79	MSEL	(Connecting Ground)	I	0
80	SSEL	Mood Selecte for Output	I	4.8

■ IC301 MN187124CYH (CD DECK BLOCK)

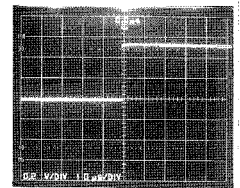


②0 MCLK



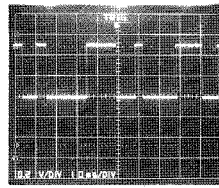
2V/DIV, 10μS/DIV

②1 MLD



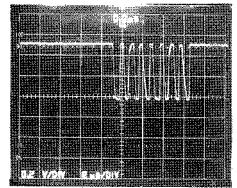
2V/DIV, 10μS/DIV

③2 SOM



2V/DIV, 10mS/DIV

③3 SQCK

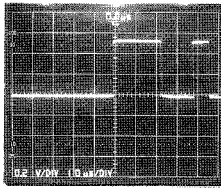


2V/DIV, 2μS/DIV

Pin No.	Port	Description	I/O	Vol. (V)
1	P56	No connection	—	—
2	P55	No connection	—	—
3	P54	No connection	—	—
4	P53	No connection	—	—
5	P52	No connection	—	—
6	P51	No connection	—	—
7	P50	No connection	—	—
8	NC	(Connectiong to ground)	—	0
9	V _{DD}	+5V power supply	—	5.1
10	OSC2	Crystal oscillator	—	2.5
11	OSC1	Crystal oscillator	—	2.3
12	V _{SS}	Ground	—	0
13	XI	(Connectiong to ground)	—	0
14	XO	No connection	—	—
15	P27	No connection	—	—
16	P26	(Connectiong to ground)	—	0
17	SW2	Inner track switch	I	4.7
18	MUTE	Mute output	O	0
19	PC1	Loading motor power control	O	4.4
20	MCLK	Clock for servo LSI	O	5.0
21	MLD	Data latch for servo LSI	O	5.5
22	MDATA	Data for servo LSI	O	0.1
23	CD.ON	MPU on/off status	I	5.1

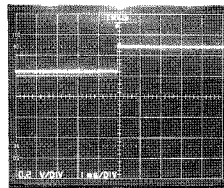
Pin No.	Port	Description	I/O	Vol. (V)
24	IRQ1	(Connectiong to ground)	—	0
25	PRST	Servo block reset	I	4.9
26	LODI	Loading direction control	I/O	2.4
27	TRV	Foced traverse control	I/O	2.4
28	DMUTE	Digital LSI mute	O	0
29	RESET	CPU reset	I	5.1
30	SCLM	Control for I/O controller	O	5.0
31	SIM	Serial data input	I	0
32	SOM	Serual data output	O	2.1
33	SQCK	Clock for Q-code data	O	5.0
34	SUBQ	Q-code data	I	2.5
35	P00	No connection	—	—
36	SYNC	No connection	—	—
37	CM	(Connectiong to ground)	—	0
38	P47	No connection	—	—
39	P48	No connection	—	—
40	VDET	Vibration detection	I	0
41	BDO	Drop out signal	I	0
42	FLOCK	Focus servo lock detection	I	0
43	TLOCK	Tracking servo lock detection	I	0
45	STAT	Signal process LSI status	I	3.2
45	SENSE	Servo LSI status	I	0
46	BRK	Loading motor brake control	O	0

②② MDATA



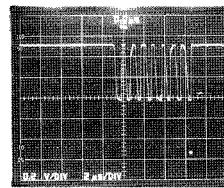
2V/DIV, 10μS/DIV

②⑦ TRV



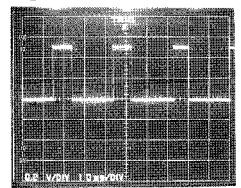
2V/DIV, 1mS/DIV

③⑩ SCKM



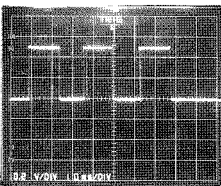
2V/DIV, 2μS/DIV

③① SIM



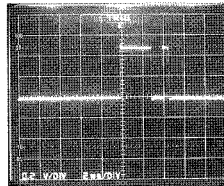
2V/DIV, 10mS/DIV

③④ SUBQ



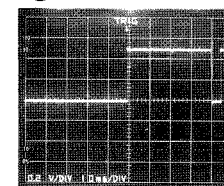
2V/DIV, 10mS/DIV

④① VDET



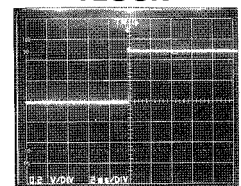
2V/DIV, 2mS/DIV

④② FLOCK



2V/DIV, 2mS/DIV

④③ TLOCK



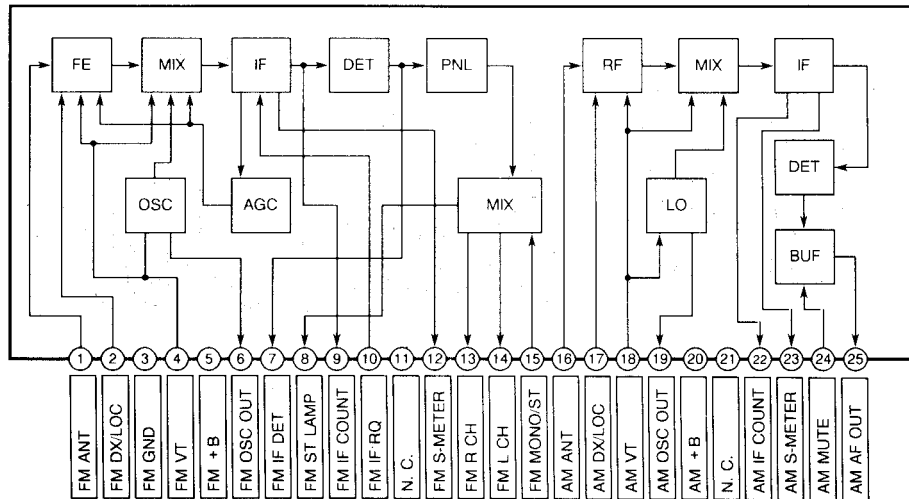
2V/DIV, 10mS/DIV

Pin No.	Port	Description	I/O	Vol. (V)
47	P86	No connection	—	—
48	P85	No connection	—	—
49	P84	No connection	—	—
50	P83	No connection	—	—
51	P82	No connection	—	—
52	P81	No connection	—	—
53	P80	No connection	—	—
54	P71	No connection	—	—
55	P70	No connection	—	—
56	SW5	Clamp completion switch	I	0
57	SW3	Loading completion switch	I	0
58	SW4	8cm disc-in switch	I	0
59	SW1	CD eject completion switch	I	4.4
60	P63	(Conecting to ground)	—	0
61	P62	(Conecting to ground)	—	0
62	P61	(Conecting to ground)	—	0
63	P60	(Conecting to ground)	—	0
64	P57	(Conecting to ground)	—	0

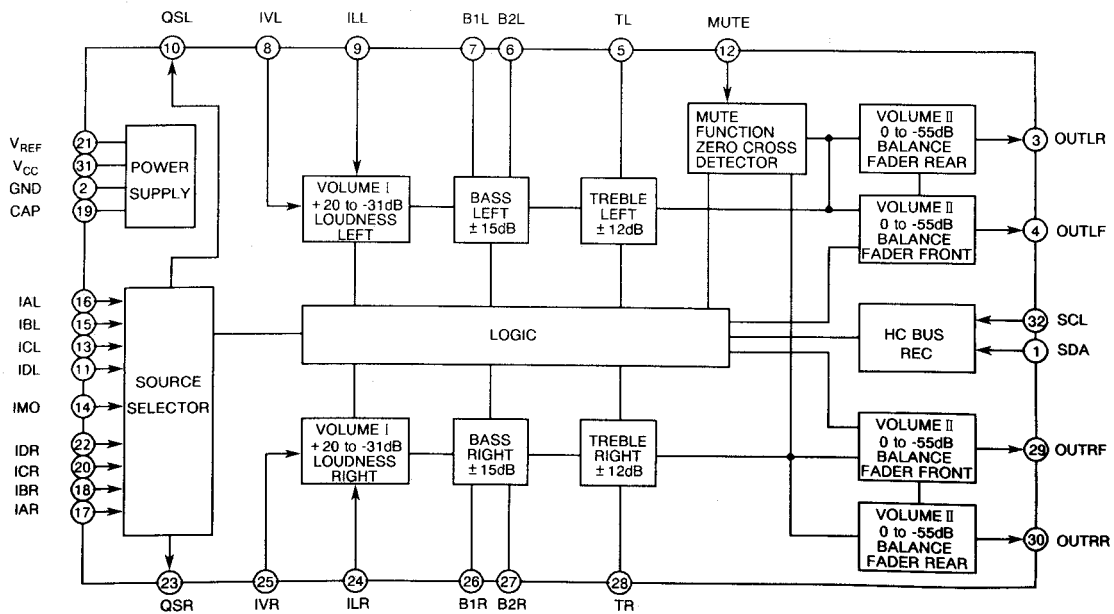
PACKAGE AND IC BLOCK DIAGRAM / PACKEN UND IC BLOCK DIAGRAM

<Main P.C.B. : E-2488B>

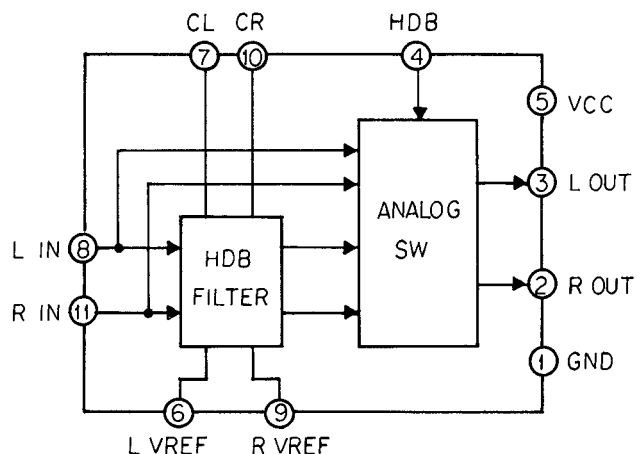
● PA51 YEAU03SMX02A



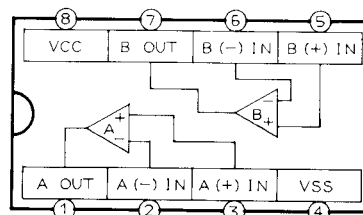
● IC231 YEAMTEA6320



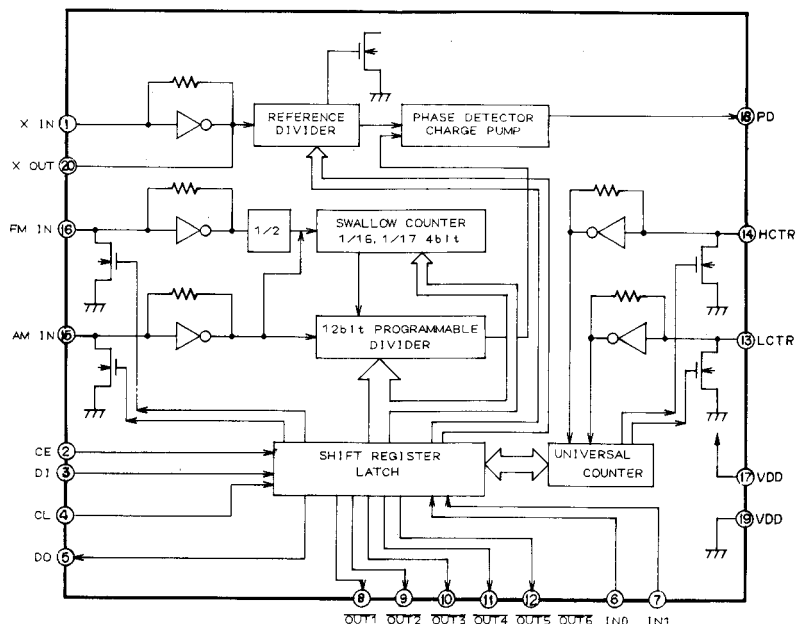
● IC232 YEAMHL146S



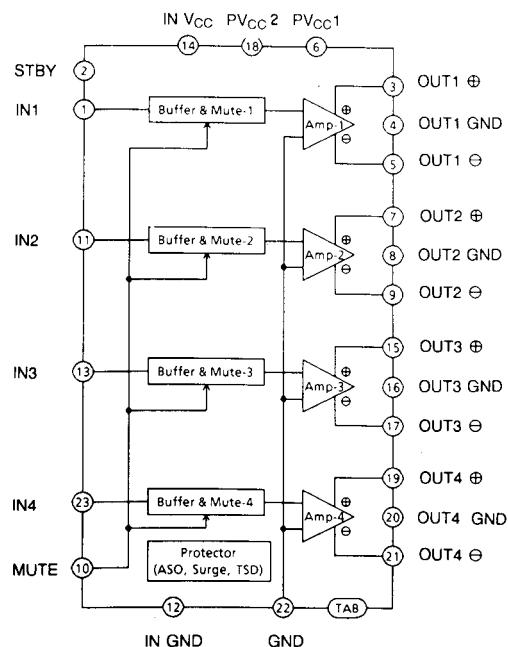
● IC233,234,500 YEAMUPC4570C



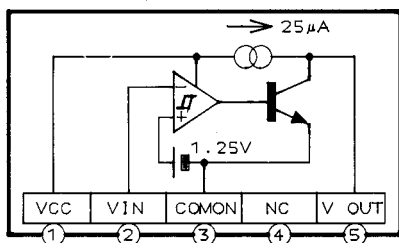
● IC401 YEAMLC7216M



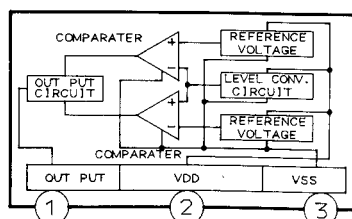
● IC271 YEAMHA13151



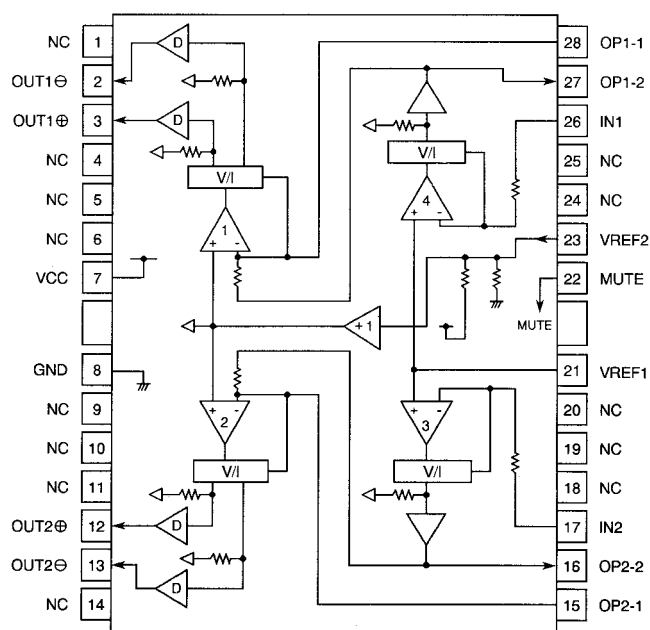
● IC707 YEAMM51945AL



● IC708 MN1280Q



- IC101
AN8806SBE1



Replacement Parts List Model NO. CQ-DP34LEE

NOTES :

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

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
ICs & TRANSISTORS					
[E2488B] MAIN BLOCK					
IC231	YEAMTEA6320		IC	1	
IC232	YEAMHL146S		IC	1	
IC233, 234	YEAMUPC4570C		IC	2	
IC271	YEAMHA13151		IC	1	
IC401	YEAMLC7216M		IC	1	
IC500	YEAMUPC4570C		IC	1	
IC601	YEAM78013571		IC	1	
IC700	YEAMPC2410HF		IC	1	
IC701	AN78N05		IC	1	
IC703	YEAMPC78L05T		IC	1	
IC704	YEAMUPC78M08		IC	1	
IC707	YEAMM51945AL		IC	1	
IC708	MN1280Q		IC	1	
PA51	YEAU03SMX02A		Electronic Tuner	1	
Q202	YEANDTC323ST		Transistor	1	
Q203	YEANA114YLT		Transistor	1	
Q302	YEANDTC323ST		Transistor	1	
Q401	YEAN2SK583		Transistor	1	
Q700	2SB929PQ		Transistor	1	
Q701	YEAN2SC2785T		Transistor	1	
Q702	YEANDTA144ST		Transistor	1	

MODEL CQ-DP34LEE

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
Q703	YEANBB1A4M		Transistor	1	
Q706, 707	YEANB123YST		Transistor	2	
Q708	2SD2139TA		Transistor	1	
Q710	2SB1417TA		Transistor	1	
Q711	YEAND2144STW		Transistor	1	
Q713	YEANB123YST		Transistor	1	
Q714	YEANC114YST		Transistor	1	
Q715, 716	YEAN2SD1020T		Transistor	2	
Q717	YEANC144WST		Transistor	1	
Q718	YEANAQ1F3PT		Transistor	1	
DISPLAY BLOCK					
[E8013B]					
IC901	YEAMSM6544GS		IC	1	
DIODES					
[E2488B] MAIN BLOCK					
D51	YEADDAN209ST		Diode	1	
D200	YEAD1SD2FK		Diode	1	
D201	MA4056MHTA		Diode	1	
D320	YEAD1SD2FK		Diode	1	
D610	YEADDAN209ST		Diode	1	
D611	MA165TA		Diode	1	
D613	MA150TA		Diode	1	
D615	LN25RP		LED	1	
D617	MA165TA		Diode	1	
D700	YEADDSM1A2T7		Diode	1	
D701	YEAD11ES2T		Diode	1	
D704	MA4100LM		Diode	1	
D705	YEADRD91EB2T		Diode	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
D707	YEADDSM1A2T7		Diode	1	
D709	YEADRD56JB3		Diode	1	
D710	YEADDAN209ST		Diode	1	
D712	MA165TA		Diode	1	
D713	YEADRD68JS2T		Diode	1	
[E8013B]					
DISPLAY BLOCK					
D901	LN01801RC5TA		LED	1	
D902 to 909	MA8056LMHTX		Diode	8	
CAPACITORS					
[E2488B]					
MAIN BLOCK					
C50, 52	YEE05Y103N		Ceramic, 0.01MFD 50WV	2	
C53 to 55	YEE05Y103N		Ceramic, 0.01MFD 50WV	3	
C58	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C59	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C60	ECEA1AKS470B		Electrolytic, 47MFD 10WV	1	
C62	ECEA1HKS010B		Electrolytic, 1MFD 50WV	1	
C107	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C232	ECEB1EK3R3BZ		Electrolytic, 3.3MFD 25WV	1	
C233	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	1	
C234	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C235	ECEA1HKS0R1I		Electrolytic, 0.1MFD 50WV	1	
C236	ECQB1H333JF4		Plastic Film, 0.033MFD 50WV	1	
C237	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C239	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	1	
C241	ECEA1AKS470B		Electrolytic, 47MFD 10WV	1	
C242	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C244, 245	ECEB1EK3R3BZ		Electrolytic, 3.3MFD 25WV	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C246	ECEA0JKS101B		Electrolytic, 100MFD 6.3WV	1	
C247	ECEA1HKS3R3I		Electrolytic, 0.33MFD 50WV	1	
C248	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C249	ECQV1H124JM2		Plastic Film, 0.12MFD 50WV	1	
C250	ECEA1CKS220I		Electrolytic, 22MFD 16WV	1	
C271, 272	YEE05X392M		Ceramic, 0.0039MFD 16WV	2	
C273 to 276	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	4	
C290	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C291	ECA1CDT472Y		Electrolytic, 4700MFD 16WV	1	
C293	ECEA1CKS100B		Electrolytic, 10MFD 16WV	1	
C294	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C295	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C332, 333	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	2	
C335	ECEA1HKS0R1I		Electrolytic, 0.1MFD 50WV	1	
C336	ECQB1H333JF4		Plastic Film, 0.033MFD 50WV	1	
C337	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C340	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	1	
C344, 345	ECEB1EK3R3BZ		Electrolytic, 3.3MFD 25WV	2	
C346	ECEA0JKS101B		Electrolytic, 100MFD 6.3WV	1	
C347	ECEA1HKS3R3I		Electrolytic, 0.33MFD 50WV	1	
C372	YEE05X392M		Ceramic, 0.0039MFD 16WV	1	
C373 to 376	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	4	
C377	YEE05X392M		Ceramic, 0.0039MFD 16WV	1	
C401	YEU05SL180J		Ceramic, 18PF 50WV	1	
C402	YEU05SL150J		Ceramic, 15PF 50WV	1	
C403	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C404	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C405	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C406	ECEA1VKS4R7I		Electrolytic, 4.7MFD 35WV	1	
C408	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C501	YEE05X392M		Ceramic, 0.0039MFD 16WV	1	
C502	YEU05B221K		Ceramic, 220PF 50WV	1	
C503	YEU05B681K		Ceramic, 680PF 50WV	1	
C504	ECEA1CKS220I		Electrolytic, 22MFD 16WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks	Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C505	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1		C720 to 722	YECKR05103Z		Ceramic, 0.01MFD 50WV	3	
C506	YEU05B101K		Ceramic, 100PF 50WV	1		C731	ECEA1HKS010B		Electrolytic, 1MFD 50WV	1	
C510	ECEA0JKS470B		Electrolytic, 47MFD 6.3WV	1		C733	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1	
C511	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1		C734 to 736	YEU05B221K		Ceramic, 220PF 50WV	3	
C514	ECEB1CK100BZ		Electrolytic, 10MFD 16WV	1		CS701	YECCL55S222T		Noise Filter, 2200PF 100WV	1	
C551	YEE05X392M		Ceramic, 0.0039MFD 16WV	1							
C552	YEU05B221K		Ceramic, 220PF 50WV	1							
C553	YEU05B681K		Ceramic, 680PF 50WV	1		[E8013B] DISPLAY BLOCK					
C554	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1							
C555	ECEA1CKS220I		Electrolytic, 22MFD 16WV	1		C901, 902	YECUS1H103KX		Ceramic, 0.01MFD 50WV	2	
C601, 602	YEU05SL150J		Ceramic, 15PF 50WV	2							
C603	YEE05Y103N		Ceramic, 0.01MFD 50WV	1							
C604	YEU05F104Z		Ceramic, 0.1MFD 50WV	1							
C615	YEU05B101K		Ceramic, 100PF 50WV	1		RESISTORS					
C616	YEU05SL680J		Ceramic, 68PF 50WV	1							
C617	EECS5R5T473		Electrolytic, 0.047FD 5.5WV	1		[E2488B] MAIN BLOCK					
C618, 619	ECEA0JKS331I		Electrolytic, 330MFD 6.3WV	2							
C620	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		R51	ERDS2TJ101		Carbon, 100 ohms 0.25W	1	
C700	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1		R53	ERDS2TJ393		Carbon, 39k ohms 0.25W	1	
C701	ECEA0JKS331Q		Electrolytic, 330MFD 6.3WV	1		R55	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
C702	YEU05F104Z		Ceramic, 0.1MFD 50WV	1		R56	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
C703	ECA1CGE222L		Electrolytic, 2200MFD 16WV	1		R57, 58	ERDS2TJ560		Carbon, 56 ohms 0.25W	2	
C704	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1		R59	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
C705	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1		R62	ERDS2TJ563		Carbon, 56k ohms 0.25W	1	
C707	ECEA1AKS221Q		Electrolytic, 220MFD 10WV	1		R223	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
C708	ECEA1AU471B		Electrolytic, 470MFD 10WV	1		R224	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
C709	ECEA1CU331B		Electrolytic, 330MFD 16WV	1		R241	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
C710	ECEA0JKS470I		Electrolytic, 47MFD 6.3WV	1		R242	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
C711	ECEA1AKS330I		Electrolytic, 33MFD 10WV	1		R243	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
C712	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1		R267	ERDS2TJ681		Carbon, 680 ohms 0.25W	1	
C714	ECEA1HKSR22I		Electrolytic, 0.22MFD 50WV	1		R271, 272	ERDS2TJ561		Carbon, 560 ohms 0.25W	2	
C716	ECEA0JKS470I		Electrolytic, 47MFD 6.3WV	1		R273, 274	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	2	
C717	ECEA1CKS100B		Electrolytic, 10MFD 16WV	1		R275, 276	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	2	
C718	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1		R277	ERD25TJ2R2		Carbon, 2.2 ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R278	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1	
R290, 291	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R323	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R324	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R361, 362	ERD25TJ561		Carbon, 560 ohms 0.25W	2	
R365, 366	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R367	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
R371, 372	ERDS2TJ561		Carbon, 560 ohms 0.25W	2	
R373, 374	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	2	
R375 to 378	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	4	
R401 to 403	ERDS2TJ152		Carbon, 1.5k ohms 0.25W	3	
R404, 405	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R406	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R407	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R501	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R502, 503	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R504	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R505	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R506	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R510	ERDS2TJ123		Carbon, 12k ohms 0.25W	1	
R511	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R512, 513	ERDS2TJ473		Carbon, 47k ohms 0.25W	2	
R551	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R552, 553	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R554	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R555	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R556	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R601, 603	ERDS2TJ473		Carbon, 47k ohms 0.25W	2	
R608, 609	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R611	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R620	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R621	ERD25TJ101		Carbon, 100 ohms 0.25W	1	
R623, 624	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R625	ERDS1FJ2R2		Carbon, 2.2 ohms 0.5W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R626	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R627, 628	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R630, 631	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R632	ERD25TJ560		Carbon, 56 ohms 0.25W	1	
R633	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R634	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R635, 636	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R637	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R638	ERD25TJ473		Carbon, 47k ohms 0.25W	1	
R639	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R700	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R701, 702	ERDS2TJ473		Carbon, 47k ohms 0.25W	2	
R703	ERG1SJ391		Metal Oxid, 390 ohms 1W	1	
R713	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R717	ERDS2FJ2R2T		Carbon, 2.2 ohms 0.25W	1	
R721	ERD25FJ1R0T		Carbon, 1 ohm 0.25W	1	
R722	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R723	ERDS2FJ470		Carbon, 47 ohms 0.25W	1	
R725	ERDS2TJ471		Carbon, 470 ohms 0.25W	1	
R727	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R728	ERG1SJ391		Metal Oxid, 390 ohms 1W	1	
R733	ERDS2TJ474		Carbon, 470k ohms 0.25W	1	
R734	ERDS2TJ124		Carbon, 120k ohms 0.25W	1	
R735	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R736	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R737, 738	ERDS2FJ470		Carbon, 47 ohms 0.25W	2	
R739	ERDS2TJ682		Carbon, 6.8k ohms 0.25W	1	
R740	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R741	ERDS2TJ181		Carbon, 180 ohms 0.25W	1	
R743	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R744	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R745	ERDS2TJ221		Carbon, 220 ohms 0.25W	1	
L401	ERDS2TJ100		Carbon, 10 ohms 0.25W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
DISPLAY BLOCK					
[E8013B]					
R901	ERJ8GEYJ561V		Chip, 560 ohms 0.13W	1	
R902, 903	ERJ6GEYJ222		Chip, 2.2k ohms 0.1W	2	
R904	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R905	ERJ8GEYJ472V		Chip, 4.7k ohms 0.13W	1	
R906	ERJ6GEYJ123		Chip, 12k ohms 0.1W	1	
R907	ERJ6GEYJ333		Chip, 33k ohms 0.1W	1	
R908	ERJ6GEYJ222		Chip, 2.2k ohms 0.1W	1	
R909	ERJ8GEYJ222V		Chip, 2.2k ohms 0.13W	1	
R910	ERJ8GEYJ272V		Chip, 2.7k ohms 0.13W	1	
R911	ERJ8GEYJ472V		Chip, 4.7k ohms 0.13W	1	
R912	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R913	ERJ6GEYJ153		Chip, 15k ohms 0.1W	1	
R914, 915	ERJ6GEYJ222		Chip, 2.2k ohms 0.1W	2	
R916	ERJ6GEYJ272		Chip, 2.7k ohms 0.1W	1	
R917	ERJ8GEYJ472V		Chip, 4.7k ohms 0.13W	1	
R918	ERJ8GEYJ682V		Chip, 6.8k ohms 0.13W	1	
R919	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R923 to 925	ERJ6GEYJ102		Chip, 1k ohms 0.1W	3	
R926	ERJ8GEYJ100V		Chip, 10 ohms 0.13W	1	
R927	ERJ8GEYJ102V		Chip, 1k ohms 0.13W	1	
R928	ERJ8GEYJ100V		Chip, 10 ohms 0.13W	1	
R929	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R930, 931	ERJ6GEYJ103		Chip, 10k ohms 0.1W	2	
R932, 933	ERJ6GEYJ102		Chip, 1k ohms 0.1W	2	
R934	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R935	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
CONNECTORS					
MAIN BLOCK					
[E2488B]					
CN350	YEA02152		Connector, 1P Jack	1	

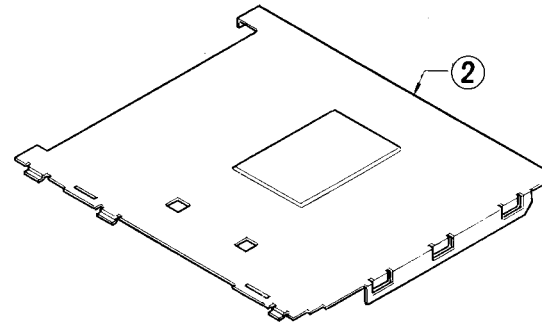
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CN360	YEA02165		Connector, 2P RCA	1	
CN500	YEA0114TKCB		Connector, 14P	1	
CN701	YEA012194		Connector, 16P	1	
CP600	YEA012298		Connector, 12P	1	
CP601	YEA012298		Connector, 11P	1	
DISPLAY BLOCK					
[E8013B]					
CN901	YEA012282		Connector, 12P	1	
SWITCHES					
SW901 to 919	EVQPJH05K		Switch	19	
CRYSTALS					
XL401	YEXL49U072TA		Crystal OSC	1	
XL600	YEXL49U838TA		Crystal OSC	1	
COILS					
L101	YELT02C330KT		Coil	1	
L500	YELT02C101KT		Coil	1	
LCD					
LCD901	YEXDCM1111		LCD	1	
THERMISTOR					
PT701	YERT6AR4R7MT		Thermistor	1	

EXPLODED VIEW (UNIT) / AUFGELOTE DARSTELLUNGS (GANZES GERÄT)

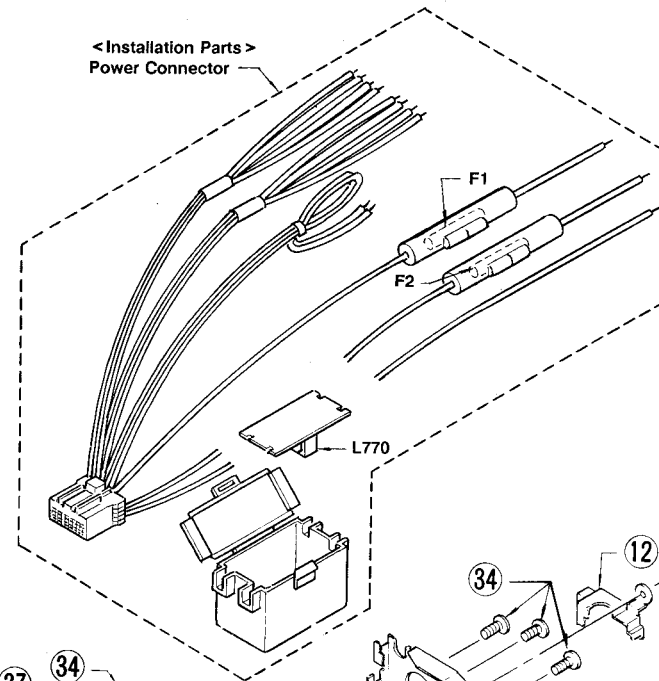
■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST

■ The symbols next to the screws indicate as follows.

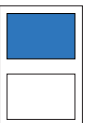
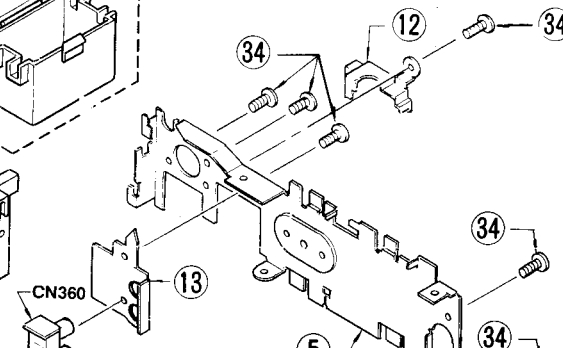
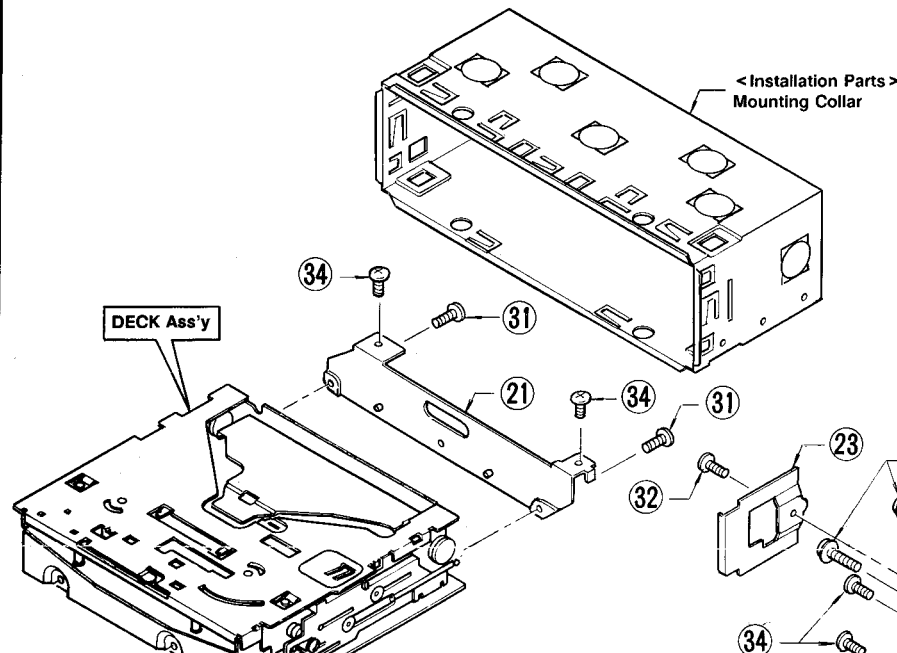
28	XSB26 + 4FZ	Screw,	2.6mm × 4mm
29	YEJT03015	Tapping Screw,	3mm × 6mm
30	YEJT03156	Tapping Screw,	2.6mm × 4mm
31	XSB26 + 4FX	Screw,	2.6mm × 4mm
32	XTB3 + 6JFX	Tapping Screw,	3mm × 6mm
33	XTB3 + 8GFX	Tapping Screw,	3mm × 8mm
34	XTB3 + 6FFX	Tapping Screw,	3mm × 6mm
36	XTN2 + 8GFZ	Tapping Screw,	2mm × 8mm
37	YEJS05016	Screw,	3mm × 15mm

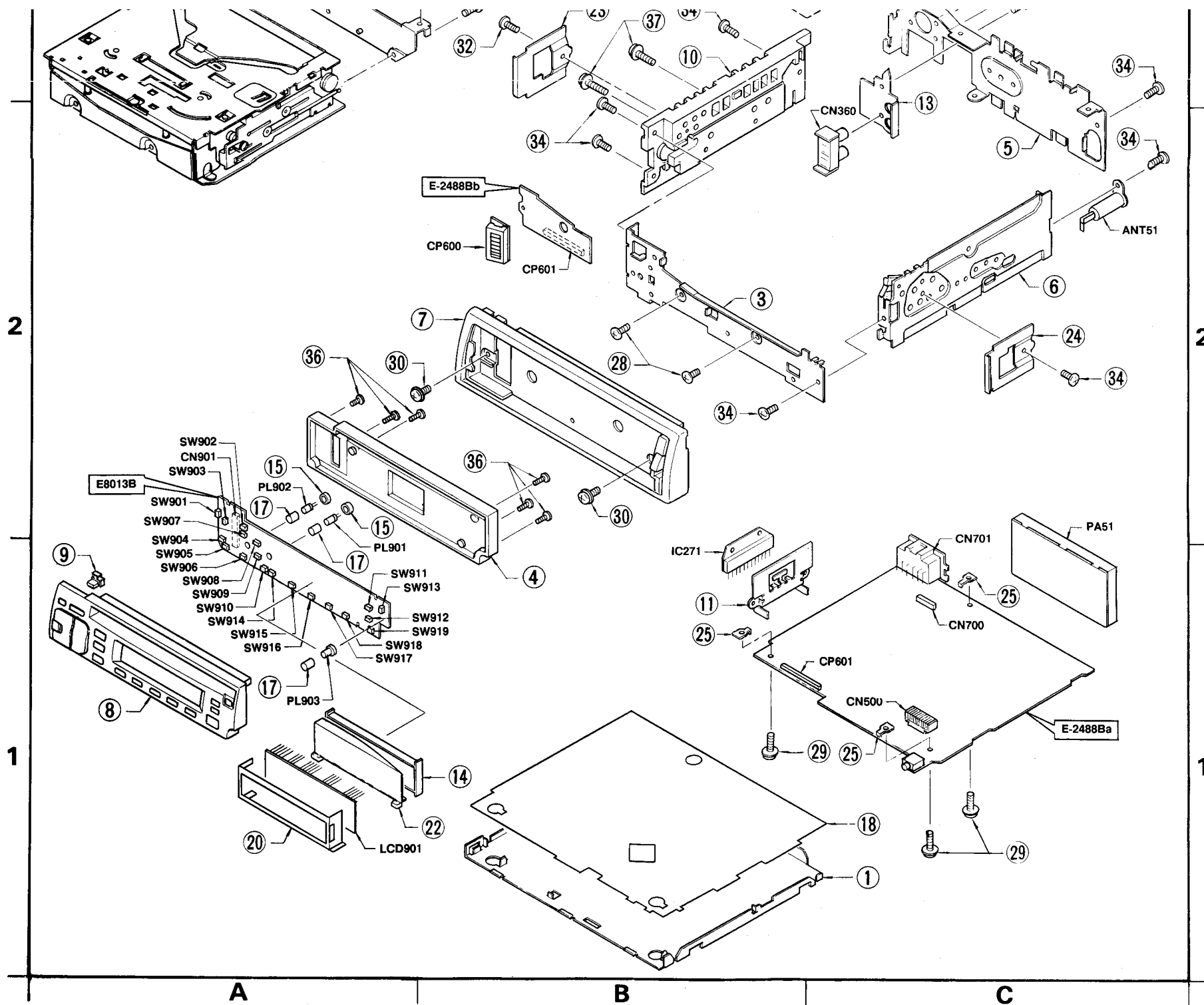


< Installation Parts >
Power Connector



< Installation Parts >
Mounting Collar





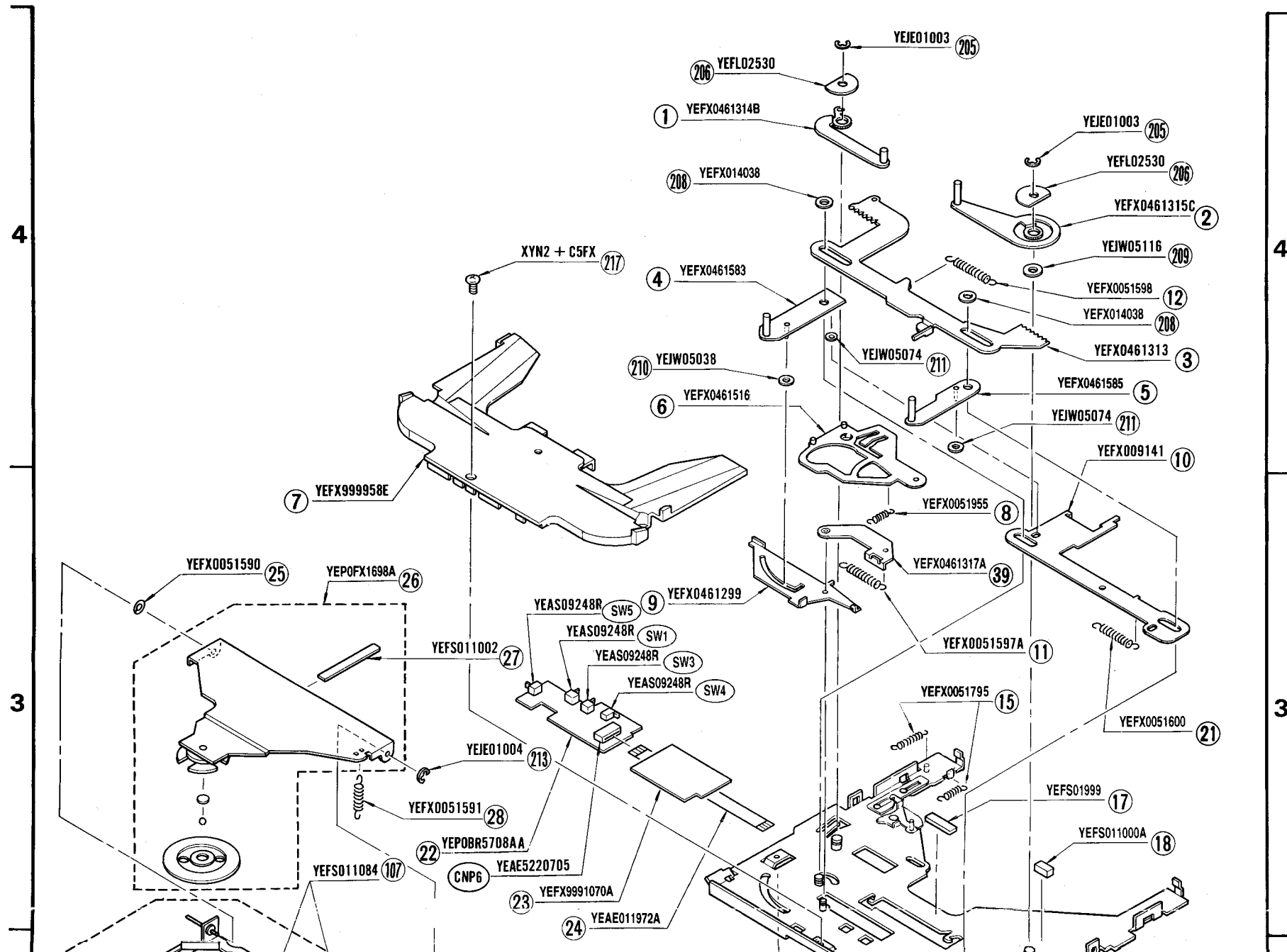
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks	Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
PRINTINGS						6	(2-C) YEFA09457		Side Plate	1	
	YEFM282187		Instruction Book	1		7	(2-B) YEFC024228		Escutcheon (Unit)	1	
						8	(1-A) YEFC024262		Escutcheon	1	
						9	(1-A) YEFE133978		Button PWR	1	
INSTALLATION PART						10	(3-B) YEFF01775		Heat Sink	1	
1	YEFX0213629		Mounting Collar	1		11	(1-B) YEFX0213648A		Bracket for IC271	1	
2	XWG5FX		Plain Washer 5mm	2		12	(3-C) YEFX0213649		Bracket for CN701	1	
3	XWA5BFX		Spring Washer 5mm	2		13	(3-C) YEFX0213673		Bracket for RCA	1	
4	XNG5AFX		Hex. Nut 5mm	2		14	(1-A) YEFK06643		LCD Base	1	
5	YEEG04019		Rear Support Strap	1		15	(2-A) YEFK04482		Holder for Pilot Lamp	2	
6	XVG5C25FX		Hex. Bolt 5mm x 25mm	1		17	(1-A) (2-A) YEFR04333		Illumination Cap	2	
7	XWC5CFX		Toothed Lock Washer 5mm	1		18	(1-B) YEFV011574		Insulator	1	
8	YEJV01060		Mounting Bolt 5mm x 8mm	1		20	(1-A) YEFX0213671		Bracket for LCD	1	
9	YEFX0213377		Dismounting Pin	1		21	(3-A) YEFX0213668		Bracket for Deck	1	
10	YEAJ02701		Power Connector	1		22	(1-A) YEFX0011519		Transparent Plate	1	
11	YEFA131117		Removal Face Plate Case	1		23	(3-B) YEFX0213713		Bracket for Left Side Plate	1	
12	YEFC05531		Trim Plate	1		24	(2-C) YEFX0213669A		Bracket for Right Side Plate	1	
MISCELLANEOUS						25	(1-B) (1-C) YEAT03346A		Terminal	3	
PL901, 902	YEAL01202		Pilot Lamp	2		26	YEP0PT2488F0		PCB w/Component	1	RTL
PL903	YEAL01204A		Pilot Lamp	1		27	YEP0PT8013C0		PCB w/Component	1	RTL
Z51	YEAL02010T		Neon Lamp	1		28	(2-B) XSB26 + 4FZ		Screw, 2.6mm x 4mm	2	
F1	XBB1C10NR1		Fuse, 1A	1		29	(1-B) (1-C) YEJT03015		Screw, 3mm x 6mm	3	
F2	XBA1C100NS1		Fuse, 10A	1		30	(2-B) YEJT03156		Screw, 2.6mm x 4mm	2	
ANT51	YEAA10060		Antenna Receptacle	1		31	(3-A) (3-B) XSB26 + 4FX		Screw, 2.6mm x 4mm	2	
1	(1-B) YEFA05594		Bottom Cover	1		32	(3-B) XTB3 + 6JFX		Screw, 3mm x 6mm	1	
2	(4-B) YEFA031359A		Upper Cover	1		33	(3-C) XTB3 + 8GFX		Screw, 3mm x 8mm	1	
3	(2-B) YEFA07335A		Front Plate	1		34	XTB3 + 6FFX		Screw, 3mm x 6mm	11	
4	(2-A) YEFA131114		Cover (Removal Face Plate)	1		36	(2-A) (2-B) XTN2 + 8GFZ		Screw, 2mm x 8mm	6	
5	(2-C) YEFA08402AK		Rear Plate	1		37	(3-B) YEJS05016		Screw, 3mm x 15mm	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CD PLAYER PARTS					
FD15041 94.1.21					
ICs AND TRANSISTORS					
[E8018A]					
IC101	AN8806SBE1		IC	1	
IC201	MN662713RC		IC	1	
IC301	MN187124CYH		IC	1	
IC401	YEAMBA6295AF		IC	1	
IC501	YEAMBA6399FP		IC	1	
Q101	2SB766ATX		Transistor	1	
Q401	2SD601TX		Transistor	1	
Q601, 602	2SD874ATX		Transistor	2	
DIODEs					
[E8018A]					
D401	MA151KTX		Diode	1	
D402, 403	MA151WKTX		Diode	2	
CAPACITORS					
[E8018A]					
C101 to 103	YECUS1C104KX		Ceramic, 0.1MFD 16WV	3	
C104	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C105	ECSH0JC226CR		Tantalum, 22MFD 6.3WV	1	
C106	YECUS1C104KX		Ceramic, 0.1MFD 16WV	1	
C107	ECEV1HA010SR		Electrolytic, 1MFD 50WV	1	
C108	YECUS1H101JM		Ceramic, 100PF 50WV	1	
C109	YECUS1H273KX		Ceramic, 0.027MFD 50WV	1	
C110	YECUS1H152KX		Ceramic, 0.0015MFD 50WV	1	
C111	YECUS1H472KX		Ceramic, 0.0047MFD 50WV	1	
C112	YECUS1H152KX		Ceramic, 0.0015MFD 50WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C113	YECUS1H102KX		Ceramic, 0.001MFD 50WV	1	
C114	YECUS1C104KX		Ceramic, 0.01MFD 16WV	1	
C115	YECUV1E333KX		Ceramic, 0.033MFD 25WV	1	
C116	YECUS1H273KX		Ceramic, 0.027MFD 50WV	1	
C117	YECUS1H681JM		Ceramic, 680PF 50WV	1	
C118	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C201	YECUS1C823KX		Ceramic, 0.082MFD 16WV	1	
C202	YECUS1H123KX		Ceramic, 0.012MFD 50WV	1	
C203, 204	YECUV1C224KX		Ceramic, 0.22MFD 16WV	2	
C205	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C206	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C207	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C208	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C209	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C210	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C211, 301	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	2	
C302	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C303, 304	YECUS1H330JM		Ceramic, 33PF 50WV	2	
C305	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C401	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C402	ECEV1CA470SP		Electrolytic, 47MFD 16WV	1	
C403	YECUV1C224KX		Ceramic, 0.22MFD 16WV	1	
C501	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C502	ECEV1CA470SP		Electrolytic, 47MFD 16WV	1	
C503	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
RESISTORS					
[E8018A]					
R100	ERJ6GEYJ334		Chip, 330k ohms 0.1W	1	
R101	ERJ6GEYJ101		Chip, 100 ohms 0.1W	1	
R102	ERJ14YJ100H		Chip, 10 ohms 0.25W	1	
R103	ERJ6GEYJ512V		Chip, 5.1k ohm 0.1W	1	
R104 to 107	ERJ6GEYJ333		Chip, 33k ohms 0.1W	4	

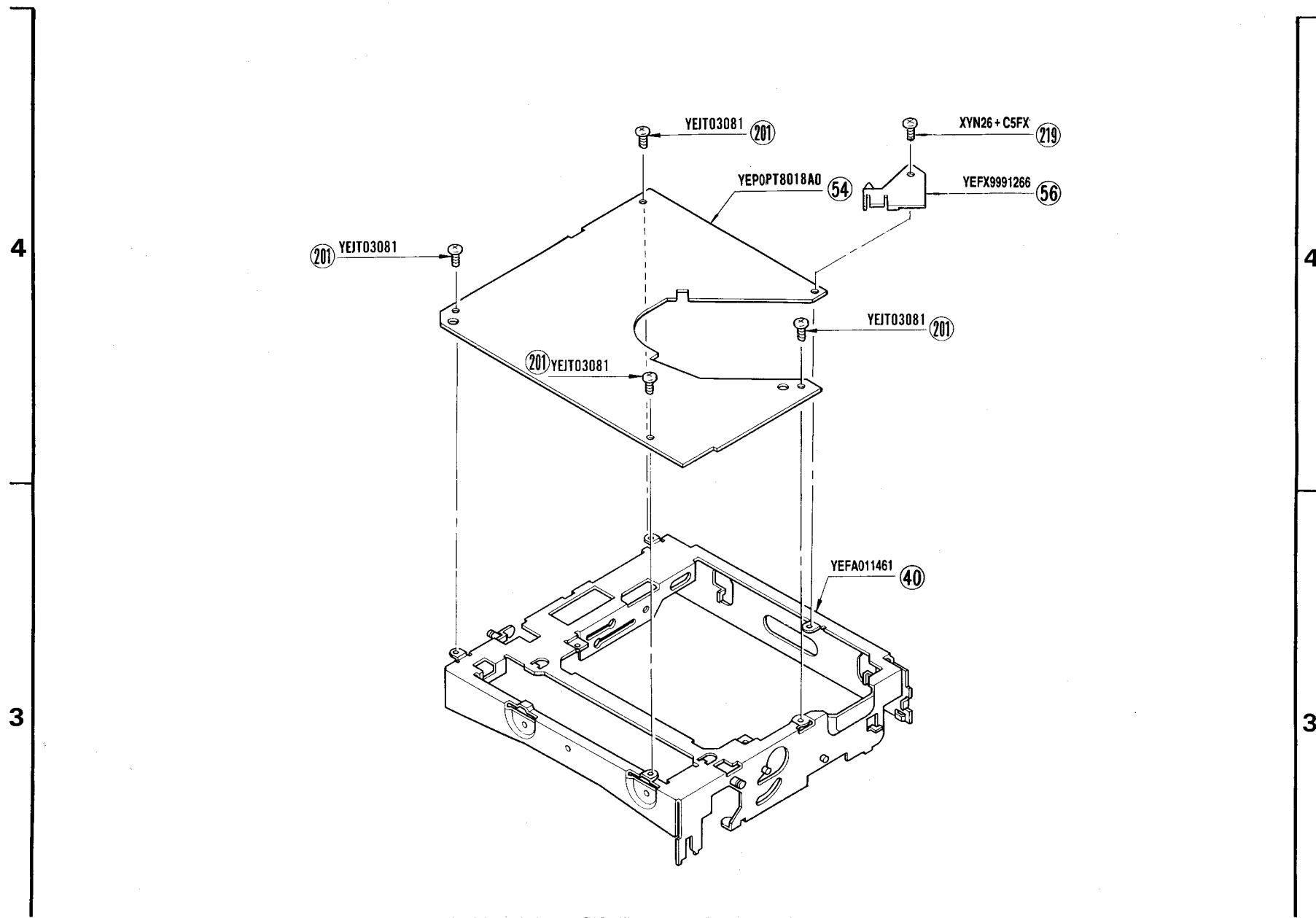
EXPLODED VIEW (CD DECK) / AUFGELOTE DARSTELLUNGS (CD TONBAND GERÄT)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



EXPLODED VIEW (CD DECK) / AUFGELOÖTE DARSTELLUNGS (CD TONBAND GERÄT)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST

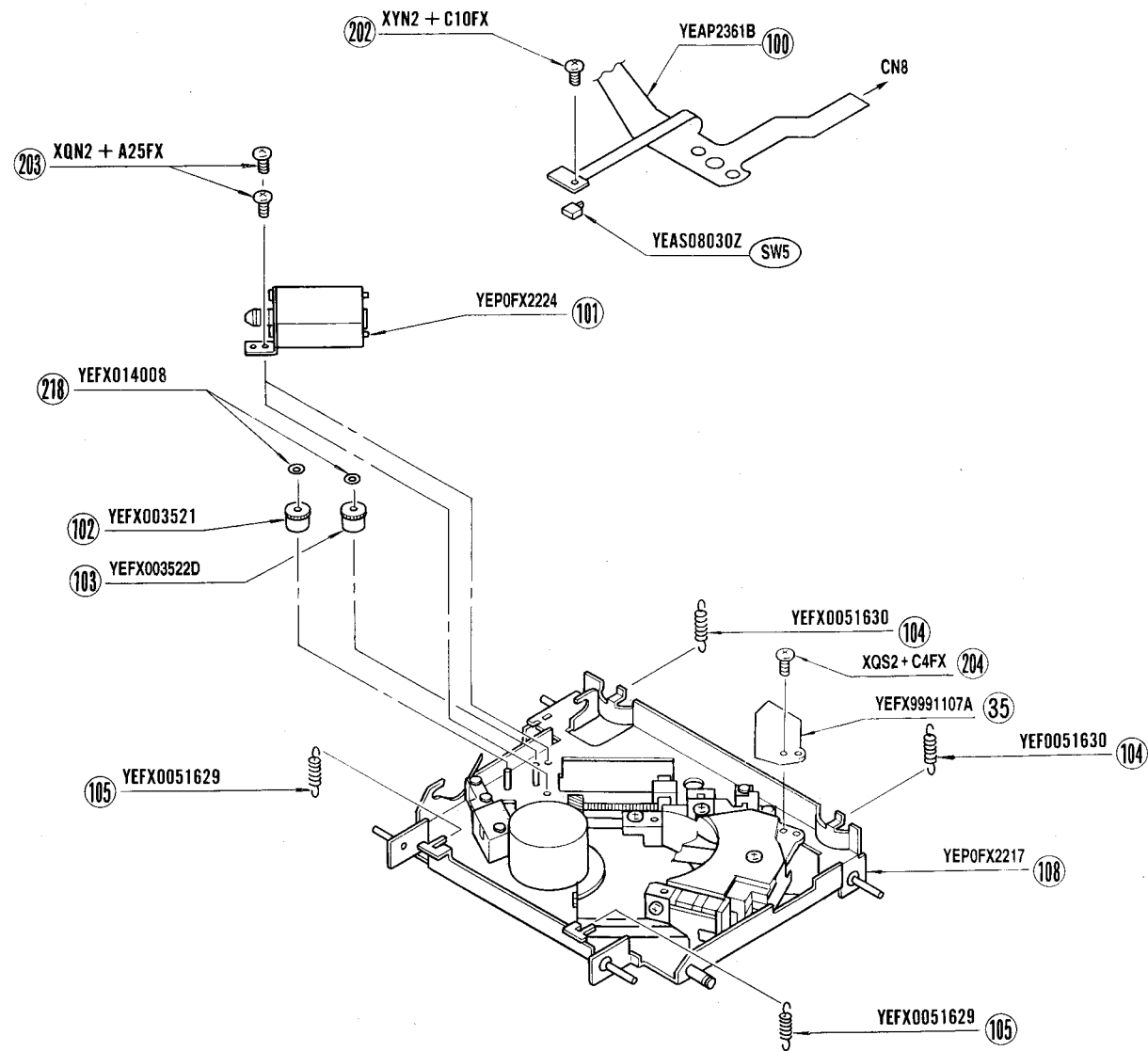


2

2

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1



A

B

C



Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R108, 109	ERJ6GEYJ154		Chip, 150k ohms 0.1W	2	
R110	ERJ6GEYJ224		Chip, 220k ohms 0.1W	1	
R111	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R112, 113	ERJ6GEYJ102		Chip, 1k ohms 0.1W	2	
R114	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R115	ERJ6GEYJ393		Chip, 39k ohms 0.1W	1	
R117	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R119	ERJ6GEYJ184		Chip, 180k ohms 0.1W	1	
R201 to 206	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	6	
R208	ERJ6GEYJ471		Chip, 470 ohms 0.1W	1	
R209	ERJ6GEYJ823		Chip, 82k ohms 0.1W	1	
R210	ERJ6GEYJ105		Chip, 1M ohms 0.1W	1	
R211	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R212	ERJ6GEYJ470		Chip, 47 ohms 0.1W	1	
R302	ERJ6GEYJ563		Chip, 56k ohms 0.1W	1	
R304 to 308	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	5	
R309	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R310	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R311	ERJ6GEYJ563		Chip, 56k ohms 0.1W	1	
R312	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R313	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	1	
R314	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R401	ERJ6GEYJ822		Chip, 8.2k ohms 0.1W	1	
R402 to 404	ERJ6GEYJ102		Chip, 1k ohms 0.1W	3	
R501	ERJ6GEYJ562		Chip, 5.6k ohms 0.1W	1	
R502	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R503	ERJ6GEYJ823		Chip, 82k ohms 0.1W	1	
R508	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R509	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R510	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R511	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R601, 602	ERJ6GEYJ471		Chip, 470 ohms 0.1W	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CONNECTORS					
CN1	YEA0114TKCE		Connector, 14P	1	
CN201	YEA05220712		Connector, 12P	1	
CN301	YEA05227106		Connector, 6P	1	
CN401	YEA05220704		Connector, 4P	1	
CN501	YEA05227105		Connector, 5P	1	
CN601	YEA05326102		Connector, 2P	1	
CRYSTALS					
XL201	YEXLCSTC169T		Crystal OSC	1	
XL301	YEXLCSAC419M		Crystal OSC	1	
SWITCHES					
SW1 to 4	YEAS09248R		Switch	4	
SW5	YEAS08030Z		Switch	1	
MISCELLANEOUS					
1	(4-B) YEFX0461314B		Position Detect, Lever (R)	1	
2	(4-C) YEFX0461315C		Position Detect, Lever (L)	1	
3	(4-C) YEFX0461313		Gear Lever Assy	1	
4	(4-B) YEFX0461583		Disc Lock Lever (RA)	1	
5	(4-C) YEFX0461585		Disc Lock Lever (LA)	1	
6	(4-B) YEFX0461516		Cam Lever Assy	1	
7	(3-A) YEFX999958E		Disc Guide (u)	1	
8	(3-C) YEFX0051955		Cam Lever Spring	1	
9	(3-B) YEFX0461299		IN Switch Lever	1	
10	(4-C) YEFX009141		Slide Joint Lever	1	
11	(3-C) YEFX0051597A		Switch Lever Spring	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
12	(4-C)	YEFX0051598	Gear Lever Spring	1	
14	(1-B)	YEFX0051886	Joint Lever Spring	1	
15	(3-C)	YEFX0051795	Spring	2	
17	(3-C)	YEFS01999	Pad (A)	1	
18	(3-C)	YEFS011000A	Pad (B)	1	
19	(2-B)	YEFA031175D	Upper Chassis Assy	1	
21	(3-C)	YEFX0051600	Slide Joint Spring	1	
22	(3-A)	YEP0BR5708AA	PCB w/Component	1	RTL
23	(3-B)	YEFX9991070A	Cover for PCB	1	
24	(3-B)	YEA011972A	5P Flat Cable	1	
25	(3-A)	YEFX0051590	Spring	1	
26	(3-B)	YEP0FX1698A	Clamper Assy	1	
27	(3-B)	YEFS011002	Pad	1	
28	(3-B)	YEFX0051591	Clamper Spring	1	
30	(2-B) (2-C)	YEFS04442	Dumper	4	
31	(2-C)	YEFX018265A	Dumper Bracket (B)	2	
32	(2-B) (2-C)	YEFX018264	Dumper Bracket (F)	2	
33	(2-C)	YEFX0461325A	Lock Lever R Assy	1	
34	(2-C)	YEFX0461318	Joint Lever RA Assy	1	
35	(1-B)	YEFX9991107A	Balancer	1	
36	(2-C)	YEP0FX2145	Loading Motor	1	
37	(1-C)	YEFX003664	Loading Gear	1	
38	(2-B)	YEFX0461319	Joint Lever RB Assy	1	
39	(3-C)	YEFX0461317A	Eject Lever Switch Assy	1	
40	(1-C)	YEFA011461	Main Chassis Assy	1	
41	(1-C)	YEFX0051588	Slide Cam Spring	1	
42	(1-C)	YEFX234171D	Slide Cam R	1	
43	(1-A) (1-C)	YEFX0051589A	Feeder Arm Spring	2	
44	(1-B)	YEFX003518D	Loading Gear 2	1	
45	(1-B)	YEFX003530	Friction Gear Assy	1	
46	(1-B)	YEFX003519D	Loading Gear 3	1	
47	(2-A)	YEFX218248	Rubber Roller	1	
48	(2-A)	YEFX0051633A	Lock Lever Spring	1	
49	(1-A)	YEFX003526D	Roller Gear Assy	1	

MODEL 00001 SHELL

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
50	(1-A)	YEFX0461309	Joint Lever LA	1	
51	(1-A)	YEFX0461321	Lock Lever LA Assy	1	
52	(1-A)	YEFX0461308	Lock Lever LB	1	
53	(1-A)	YEFX0461320A	Feeder Arm Assy	1	
54	(4-B)	YEP0PT8018A0	PCB w/Component	1	RTL
55	(2-B) (2-C)	YEFW04117	Roller Shaft	2	
56	(4-C)	YEFX9991266	FPC Holder	1	
100	(2-B)	YEAP2361B	Flexible Printed Circuit Board	1	
101	(2-B)	YEP0FX2224	Travers Motor Assy	1	
102	(1-A)	YEFX003521	Worm Gear	1	
103	(1-A)	YEFX003522D	Worm Wheel	1	
104	(1-C)	YEFX0051630	Suspension Spring (F)	2	
105	(1-A) (1-C)	YEFX0051629	Suspension Spring (R)	2	
107	(3-A)	YEFS011084	Pad (J)	2	
108	(2-B)	YEP0FX2217	Suspension Assy w/Optical Pick	1	
201		YEJT03081	Screw	4	
202	(2-B)	XYN2 + C10FX	Screw 2mm ϕ $\times$ 10mm	1	
203	(2-B)	XQN2 + A25FX	Screw 2mm ϕ $\times$ 25mm	2	
204	(1-B)	XQS2 + C4FX	Screw	1	
205	(4-B) (4-C)	YEJE01003	E-Ring	2	
206	(4-B) (4-C)	YEFL02530	Spacer	2	
208	(4-C)	YEFX014038	Snap Ring	2	
209	(4-C)	YEJW05116	Washer	1	
210	(4-B)	YEJW05038	Washer	1	
211	(4-C)	YEJW05074	Washer	2	
212	(2-B)	XYN2 + C4FX	Screw 2mm ϕ $\times$ 4mm	2	
213		YEJE01004	E-Ring	3	
214	(2-A) (2-B)	YAJW05011	Washer	2	
215	(1-A)	YEJE01014	E-Ring	1	
216	(2-B) (2-C)	XSB2 + 3FX	Screw	2	
217	(4-B)	XYN2 + C5FX	Screw	1	
218		YEFX014008	Snap Ring	4	
219	(4-C)	XYN26 + C5FX	Screw	1	
220	(2-C)	YEJS06097A	Screw	2	