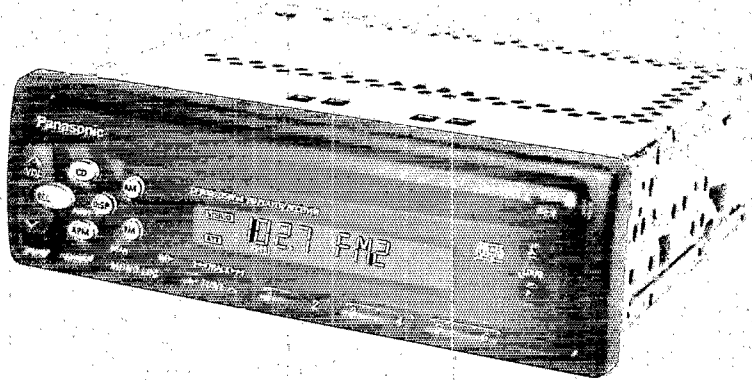


Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

CQ-DP800LEE

High-Power Cassette Player / Receiver



Specifications*

General

Power Supply	: DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Tone Controls	: Bass ; \pm 12dB at 100Hz Treble ; \pm 12dB at 10kHz
Current Consumption	: Less than 2.5A (CD play mode)
Maximum Power Output	: 35W \times 4ch (at 4 Ω)
Power Output	: 14W \times 4 (at 4 Ω)
Speaker impedance	: 4 ~ 8 Ω

MW Stereo Radio

Frequency Range	: 531 - 1,602kHz
Usable Sensitivity	: 28dB/ μ V(S/N 20dB)

LW Stereo Radio

Frequency Range	: 153 - 279kHz
Usable Sensitivity	: 32dB/ μ V(S/N 20dB)

FM Stereo Radio

Frequency Range	: 87.5 - 108MHz
Usable Sensitivity	: 6dB/ μ V(S/N 30dB)
Stereo Separation	: 35dB(at 1kHz)

CD Player

Sampling Frequency	: 32 times oversampling
DA Converter	: MASH•1bit/4 DAC System
Pick-Up Type	: 1-beam
Light Source	: Semiconductor laser
Wavelength	: 780nm
Frequency Responce	: 20Hz to 20,000Hz (\pm 1dB)
Signal to Noise Ratio	: 96dB
Wow and Flutter	: Below measurable limits
Channel Separation	: 75dB

Dimensions**

: 178(W) \times 50(H) \times 150(D) mm

Weight**

: 1.7kg

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

** Dimensions and Weight shown are approximate.

⚠ 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.

Panasonic

©1997 Matsushita Communication Industrial Co., Ltd.
All rights reserved. Unauthorized copying and distribution is a violation of law.

CONTENTS

	Page
DIMENSIONS	1
FEATURES	1
FUSE	1
MAINTENANCE	1
RADIO AND CD DECK ALIGNMENT	1
LASER PRODUCTS	1
LABEL INDICATIONS AND THEIR LOCATIONS....	1
< OPERATING INSTRUCTIONS >	
Precautions	2
Power and Sound Controls	2,3
Radio Basics	3,4
Compact Disc Player Basics	5
Clock Basics	6
Anti-Theft System	6,7
Installation	7,8
Electrical Connection	9
Speaker Connections	9
BLOCK DIAGRAM	10
SCHEMATIC DIAGRAM (Display)	11
WIRING DIAGRAM (Display)	12
PACKAGE AND IC BLOCK DIAGRAM	12
SCHEMATIC DIAGRAM (Main)	13
WIRING DIAGRAM (Main)	14
TERMINALS DESCRIPTION	15,17
SCHEMATIC DIAGRAM (CD Servo)	15
WIRING DIAGRAM (CD Servo)	16
REPLACEMENT PARTS LIST	18 ~ 22,25 ~ 28
EXPLODED VIEW (Unit)	23
EXPLODED VIEW (CD Servo)	24

FEATURES

- 32bit-times oversampling MASH 1bit 4-DAC system.
- Digital servo for reliable playback.
- PLL (Phase Locked Loop) synthesized tuning.
- 18-FM, 6-AM presets with preset scan.
- Intelligent volume control.
- Removable face plate.

FUSE

Be sure to use a fuse of the specified rating (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.

RADIO AND CD DECK ALIGNMENT

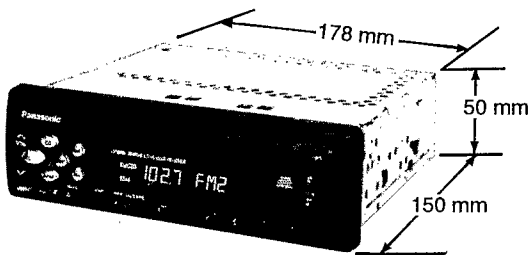
■ RADIO BLOCK

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 BLOCK

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

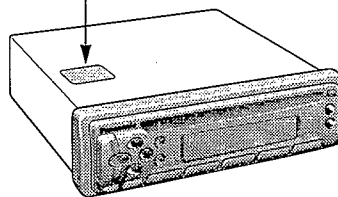
DIMENSIONS



- Label Indications and Their Locations
- Indications portées les étiquettes et emplacement
- Aanduiding van de labels en hun plaats

- APPAREIL À LASER DE CLASSE 1
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE

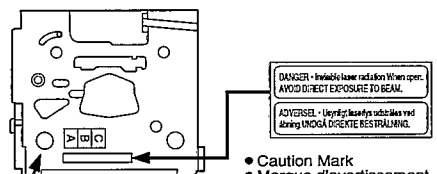
CLASS 1 LASER PRODUCT



- Varnings skyltarna, och deras placering
- Indicazioni delle etichette e le loro posizioni
- Indicaciones de las etiquetas y su ubicación

VORSICHT! UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET IST, NICHT DEM LASERSTRAHL AUSSETZEN.

- A) ADVERSEL! Usynlig laserstrålning när dekset åpnes og sikkerhetslås brytes. Unngå eksponering for strålen.
- B) VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.
- C) VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.



- Caution Mark
- Marque d'avertissement
- Waarschuwingsteken
- Varningsmärke
- Marca di precauzione
- Marka de advertencia

- Deck Ass'y (Upper Side)
- Assemblage de la table lecture (Côté supérieur)
- Dekkevestig (Bovenkant)
- Däcksenhet (Topp)
- Gruppo della piastra (Lato superiore)
- Conjunto de la platina (Lado superior)

Laser Products

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.

Laser products:
Wave Length 780 nm
Laser Power No hazardous radiation is emitted with safety protection.

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

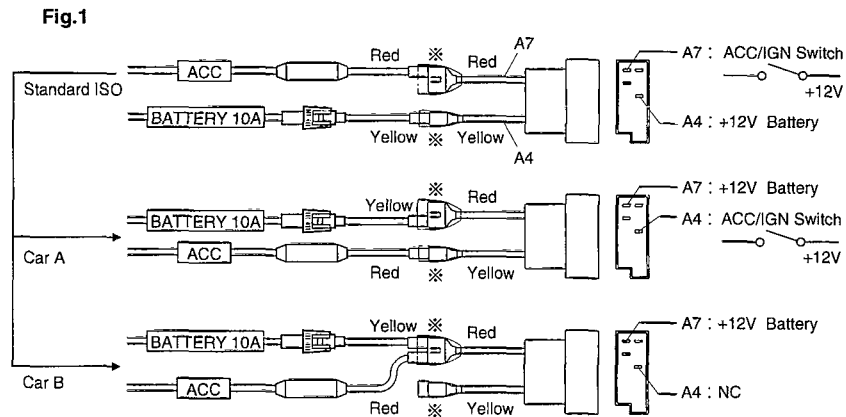
Precautions (ISO connector)

- Wiring for the power connector conforms to the arrangement of standard ISO connectors.
- In case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adopted.

Table 1

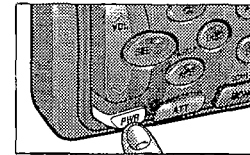
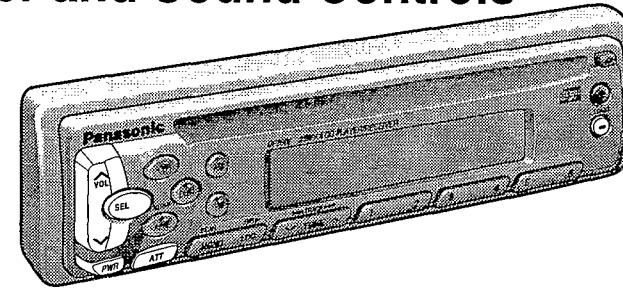
Fig. 1 Pin No.	A4	A7
Car for standard ISO	Battery (permanent 12 V supply)	"IGN" or "ACC" (switched 12 V supply)
In case of Car type A	"IGN" or "ACC" (switched 12 V supply)	Battery (permanent 12 V supply)
In case of Car type B	No Connection	Battery (permanent 12 V supply)

- Make sure the ISO connector arrangement in your car side is as same as the standard ISO. (Table 1, Fig. 1)
- In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint (※) as shown in Fig. 1.



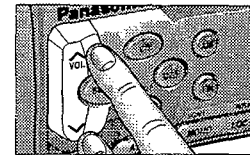
- After fix the connections, the part (※) should be insulated with electrical tape to keep away from unit damage.

Power and Sound Controls



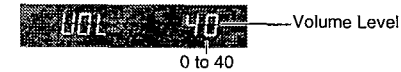
Power

If the car is not already running, turn the key in the ignition until the accessory indicator lights. Press PWR to switch on the power. Press and hold PWR again to switch off the power.

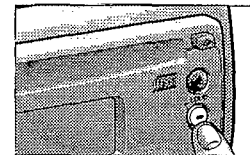


Volume

Press "VOL+" or "VOL-" to increase or decrease volume.



Press "VOL+" or "VOL-" for more than a half second to sequentially change numeric levels on the display.

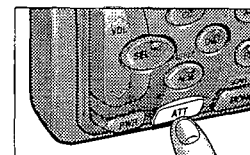


Tone Enhancement

• Press ⊖ (LOUD) to enhance bass and treble tones when listening at low or medium volume.



• Press ⊖ (LOUD) again to cancel.



Attenuator

• Press ATT to decrease volume to about 1/10 of the previous level.



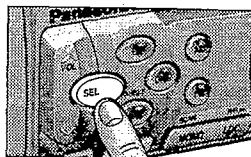
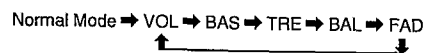
• Press ATT again to cancel.

Note: This unit is equipped with anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened with sudden loud volume. This system operates as below. When PWR is first pressed to switch on, the volume level is low. After that, the volume level gradually returns to the level when the switch is turned off. Anti-volume-blast circuit is not effective when volume level is lower than position 20 at the display.

Power and Sound Controls continued

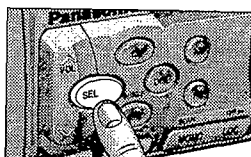
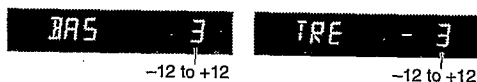
Changing Audio Modes

Press SEL to switch the audio mode in the following order.



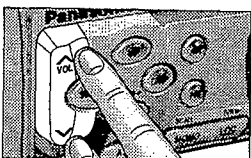
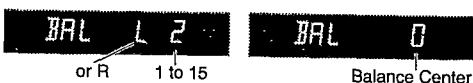
Bass and Treble

Press SEL to select the BASS (TREBLE) mode. Press "VOL^" or "VOLv" to increase or decrease the bass (treble) response.



Balance

Press SEL to select the BALANCE mode. Press "VOL^" or "VOLv" to shift the sound volume to the right or left speakers.



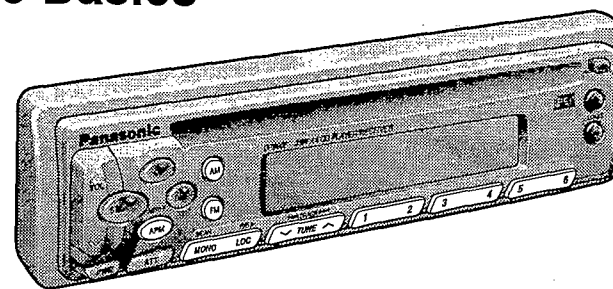
Fader

Press SEL to select the FADER mode. Press "VOL^" or "VOLv" to shift the sound volume to the front or rear speakers.



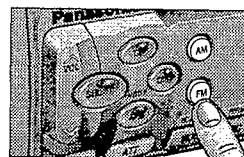
Note: When a Audio control mode (BAS/TRE/BAL/FAD) is selected but no operation is made within 5 seconds (2 seconds at VOL mode), the display will return to the normal operation (Radio, CD Player) mode. In such a case, press SEL again to select the control mode.

Radio Basics



To change Tuner Mode

- Press AM to change to AM mode.
- Press FM to change to FM mode.



Selecting a Band

Press FM to select the bands in the following order.



"STEREO" indicator lights if the station is broadcasting in stereo.

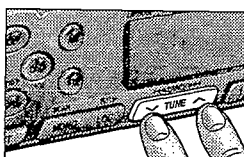


Manual Tuning

Press "TUNE^" or "TUNEv" to move to a higher or lower frequency.

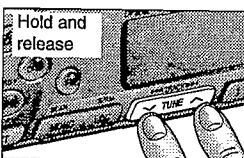


Press and hold "TUNE^" or "TUNEv" to move to a lower or higher frequency rapidly.



Seek Tuning

Press and hold "TUNE^" or "TUNEv" for more than a half second, then release. The radio automatically stops on the next station.

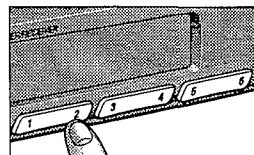
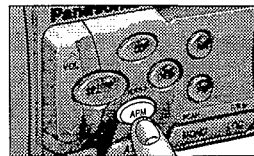
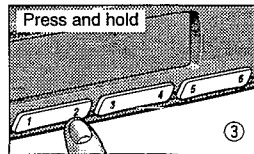
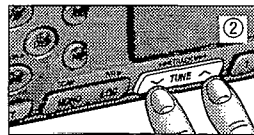
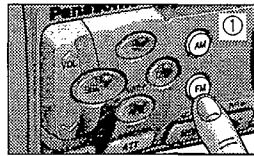


Radio Basics continued

Preset Station Setting

Up to 24 stations can be preset in the station memory as follows;

FM1	FM2	FM3	AM(LW/MW)
6 stations	6 stations	6 stations	6 stations



Manual Station Preset

- ① Select a desired band.
 - ② Use manual or seek tuning to find a station that you want to program into memory.
 - ③ Press and hold one of the station selector buttons 1 through 6 until the display blinks. The memory is now set for that button on the band you have selected.
- Repeat the process to set other stations for the FM1 to AM bands.



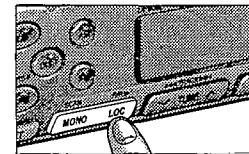
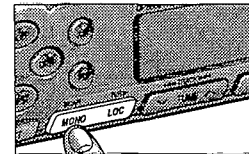
Note: You can change the memory setting by repeating the above procedure.

Tuning in a Preset Station

Press any of the buttons 1 through 6 to tune in the station preset by the above steps ① to ③.

Auto Station Preset

- Select a band and press APM (AUTO-P).
- The six strongest available stations will be automatically set in memory on preset buttons 1 through 6.
 - Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press the appropriate preset button for the station you want to hear.



MONO/LOCAL Selection

- Much interference is reduced during a weak FM stereo broadcasts when MONO is ON. (Only for FM mode)
- Searching stops automatically at a strong wave station only when LOCAL is ON.

Press MONO/LOC to switch the mode in the following order.

- ① **During FM broadcasts.**
Press MONO to switch on or off the MONO mode as follows.
MONO OFF ↔ MONO ON

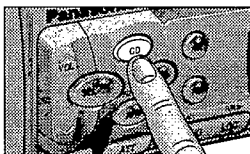
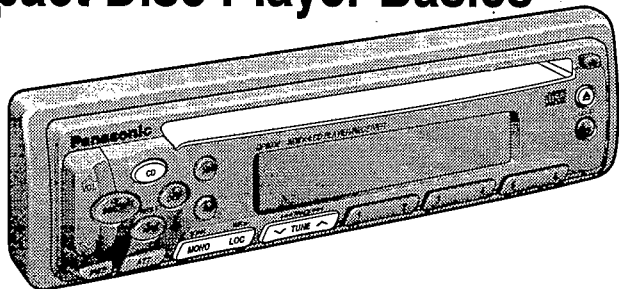
Press LOC to switch on or off the LOC mode as follows.
LOCAL OFF ↔ LOCAL ON

- ② **During AM broadcasts.**
Press LOC to switch on or off the LOC mode as follows.
LOCAL OFF ↔ LOCAL ON



CAUTION: For safety reasons, do not attempt to program while driving.

Compact Disc Player Basics



Mode Selection

While the disc is inserted, press CD to switch the operation mode.

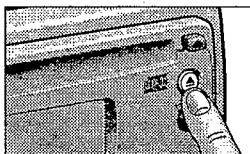
To start the CD Player

Insert the disc and playback starts automatically.

"LOAD" will be displayed until the disc is loaded. Play starts from first track.

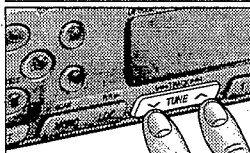


Note: While the disc is inserted, "DISC" indicator will light.



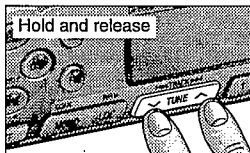
Stopping and Ejecting a Disc

Press "▲" to stop CD play, and the disc will quietly eject from the CD slot. (During disc ejection, "EJ" will be displayed.)



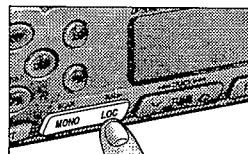
Selecting a Track

- Press "▲(TRACK▶▶)" once to go to the next track.
- Press "▼(◀◀TRACK)" once to play from the beginning of the track you are listening to. Press twice to play the previous track.
- Press repeatedly to skip the desired number of tracks.



Searching a Track

- Press and hold "▲(TRACK▶▶)" or "▼(◀◀TRACK)" for more than a half second to activate fast forward or reverse through a track.
- Release "▲(TRACK▶▶)" or "▼(◀◀TRACK)" to resume the normal CD play.

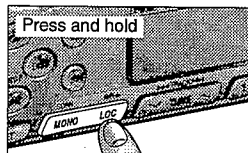


Repeating a Track

- Press R/R▶(REREAT) to repeat the current selection.



- Press R/R▶(REREAT) again to cancel.

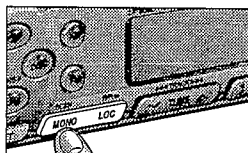


Random Selection

- Press and hold R/R▶(RANDOM) for more than 2 seconds. A random selection of music is played from all available tracks.



- Press and hold R/R▶ (RANDOM) for more than 2 seconds again to cancel.



Scanning a Disc

- Press SCAN. The display will blink and the first 10 seconds of each track on the disc play in order.

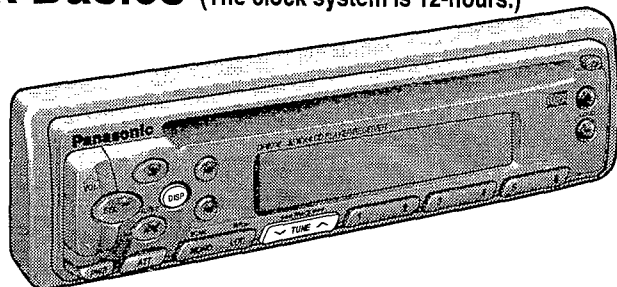


- Press SCAN again to cancel.

Error Display Messages

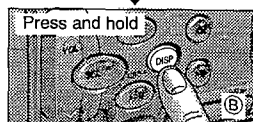
	<p>Displays when the compact disc is dirty or upside down. The disc eject automatically. But, the disc may eject automatically, even if this error message is not displayed.</p>
	<p>Displays when compact disc is scratched. The disc eject automatically. But, the disc may eject automatically, even if this error message is not displayed.</p>
	<p>Displays when the compact disc stops operating for some reason. Please turn off the car engine (ACC off) and remove the fuse from yellow lead for 1 minute. Then reinstall the fuse.</p>

Clock Basics (The clock system is 12-hours.)

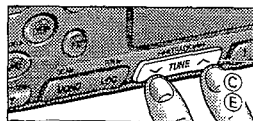


Initial Time Setting

A Press DISP "Adj" is displayed.



B Press and hold DISP again for more than 2 seconds "12" blinks indicating the time setting mode is activated.



C To set hours, press "TUNE ^ or VTUNE".



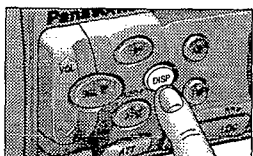
D Press DISP again for minutes setting.



E To set minutes, press TUNE ^ or VTUNE.



Hold " ^ " or " v " change numbers rapidly.



F When set the time, press DISP.

Resetting the Time

When you want to reset the time, press and hold DISP for more than 2 seconds to activate the time setting mode. Then, repeat step C to F above.

Selecting the Clock Display

Press DISP for clock displayed.
Press DISP once again, the current audio display mode resumes.

Anti-Theft System

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

To Remove the Removable Face Plate

- ① Switch off the power.
- ② Press the release button (▲). The removable face plate will be released.

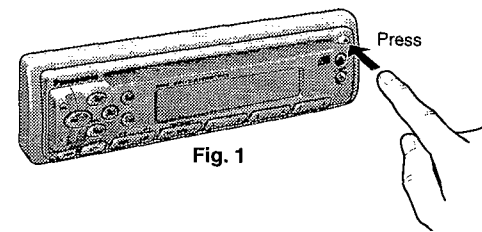


Fig. 1

- ③ Remove the removable face plate by pulling on the right side of the unit. Place the removable face plate in a supplied case.

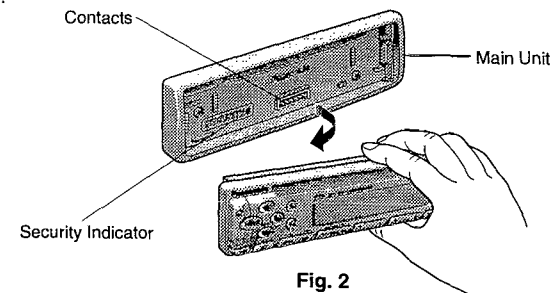


Fig. 2

Security Indicator

The security indicator blinks when the removable face plate is removed from the unit.

Activate Security Indicator

Press and hold SEL for more than 2 seconds when the power is ON. "LEd On" is displayed, and the security indicator turn ON.

Display	Security Indicator
	Blinks
↕	(Press and hold SEL for more than 2 seconds.)
	OFF

Caution:

When you want to remove the unit, the security indicator functions can be canceled by the following steps of procedure.

- Install the removable face plate.
- Disconnect the power connector.

Anti-Theft System continued

④ As shown in Fig.3, insert the removable face plate with the arrow pointing toward the removable face plate case until you hear a "click". Keep the removable face plate in the case. Then, you can bring the plate safely.

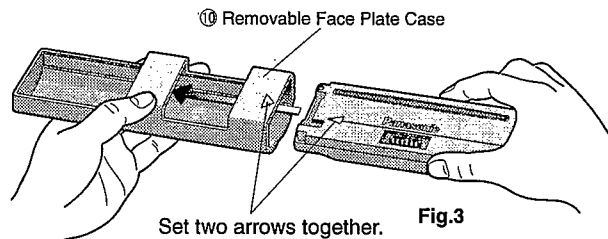
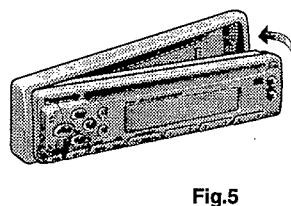
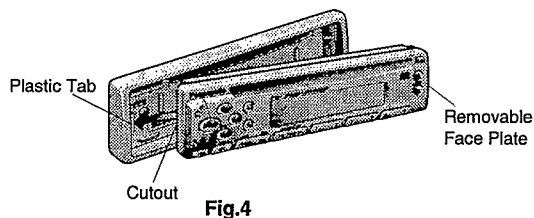


Fig.3
Set two arrows together.

To install the Removable Face Plate

- ① Slide the left side of the removable face plate in place.
- ② Press the right end of removable face plate until "click" is heard.



Caution:

1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate, while driving your car.
4. Do not place the removable face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the removable face plate or on the main unit, since this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth.

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.

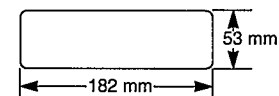


Fig. 1

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 24 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 Hardwares

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

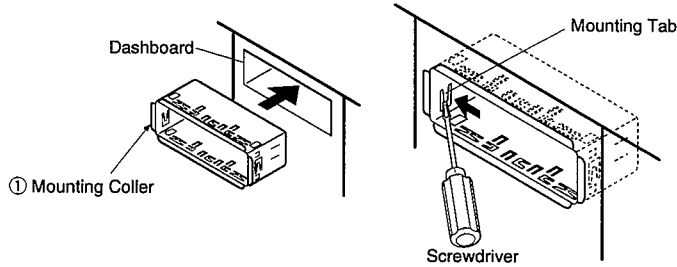
No.	Item	Diagram	Q'ty
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Power Connector		1
⑩	Removable Face Plate Case		1
⑪	Dismounting Plate		1

Installation continued

Installation Procedures

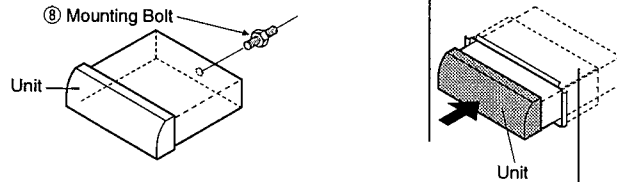
1. Secure the Mounting Collar ①.

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



2. Secure the rear of the unit.

- Check the electrical connection by referring to this operating instructions.
- Connect the Mounting Bolt ⑧, using a suitable wrench.
- Insert the unit into Mounting Collar ① and push it in until "click" is heard.



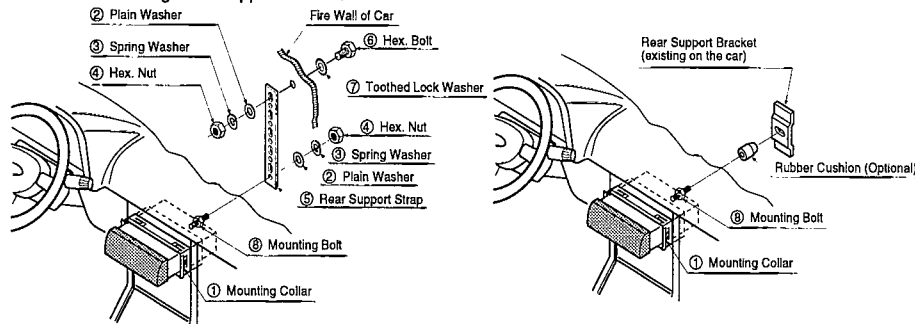
d) Secure the rear of the unit to the car by either of the two recommended methods.

■ Using the Rear Support Strap ⑤

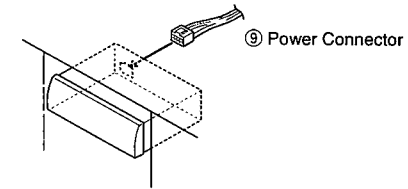
Affix one end of the Rear Support Strap ⑤ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.

■ 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 ⑨.

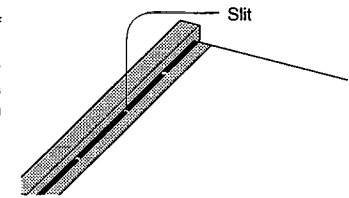


4. After installation reconnect the negative (-) battery terminal.

To remove the trim plate (for Japanese Cars)

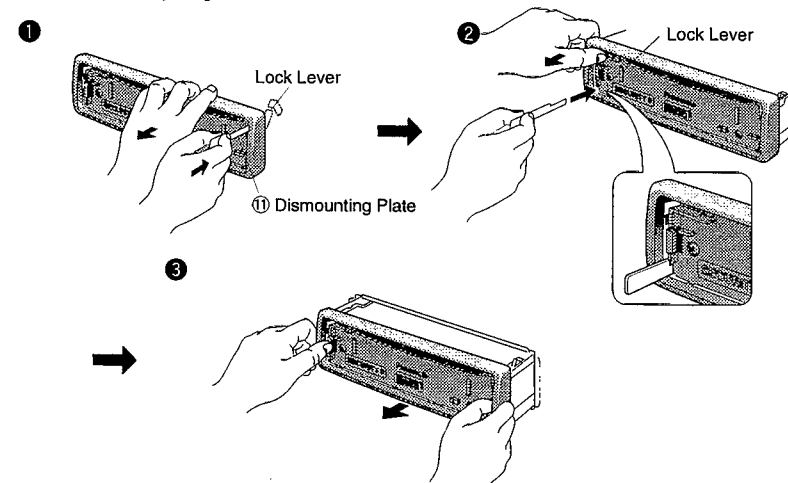
You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your dealer.

To mount this unit on a Japanese car, first cut the 9 slits in back of the trim plate with side-cut pliers, remove the trim plate, then mount this unit.



To Remove the Unit

- Remove the removable face plate. (See page 6.)
- Pull out the unit while pushing the lock lever using Dismounting Plate ⑪.
- Remove the unit pulling with both hands.

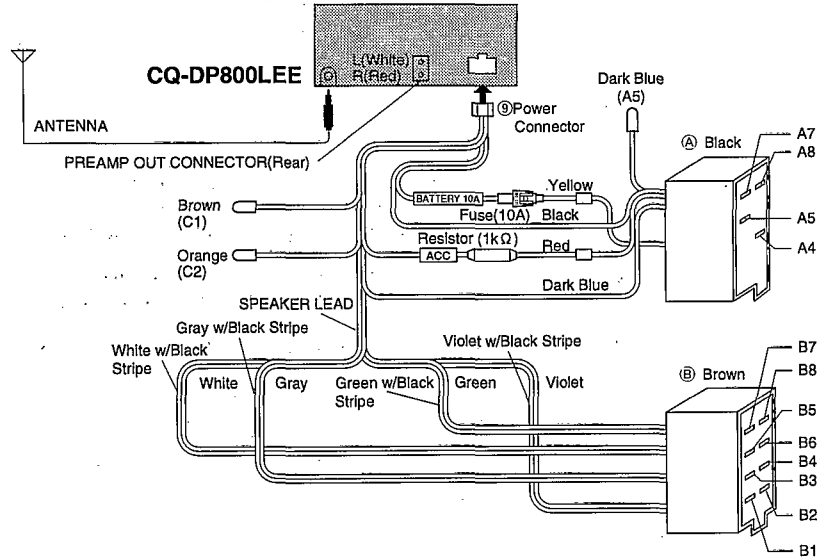


Note: Do not lose the Dismounting Plate. It will be needed to remove the unit from the car's dashboard.

Electrical Connection

Caution:

- Confirm the note on page 4, and make connections to the connectors on car side.
- 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. (the cords except for ISO connector's cords)
- Do not insert the power connector into the unit until the wiring is completed.
- 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.



Loudspeakers (connector B)

	Left +	Left -	Right +	Right -
Front	B5 (White)	B6 (White w/Black Stripe)	B3 (Gray)	B4 (Gray w/Black Stripe)
Rear	B7 (Green)	B8 (Green w/Black Stripe)	B1 (Violet)	B2 (Violet w/Black Stripe)

A4

BATTERY LEAD (To Battery of Car) (Yellow)
Connect to the "BAT" terminal on the fuse block of the car. The power should be supplied continuously to the yellow leads regardless of the on/off position of the ignition key.

A5

MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue)
(To Motor Antenna) (Max. 500mA)
This lead is not intended for use with switch actuated power antenna.
AMP-RELAY CONTROL POWER LEAD
This lead is for connection to Panasonic power amplifier.

A7

POWER LEAD (Red)
Connect to the "radio" power line of the car or to the "IGN" or "ACC" terminal of the fuse block.

A8

GROUND LEAD (Black)
Connect to a well grounded metallic part of your car.

C1

Not used

C2

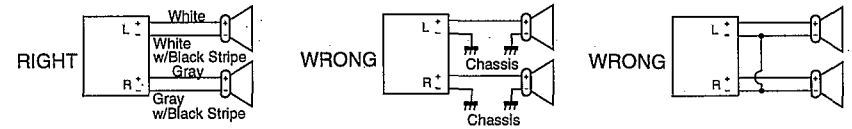
Not used

Speaker Connections

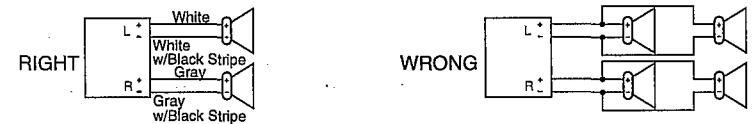
CAUTION:

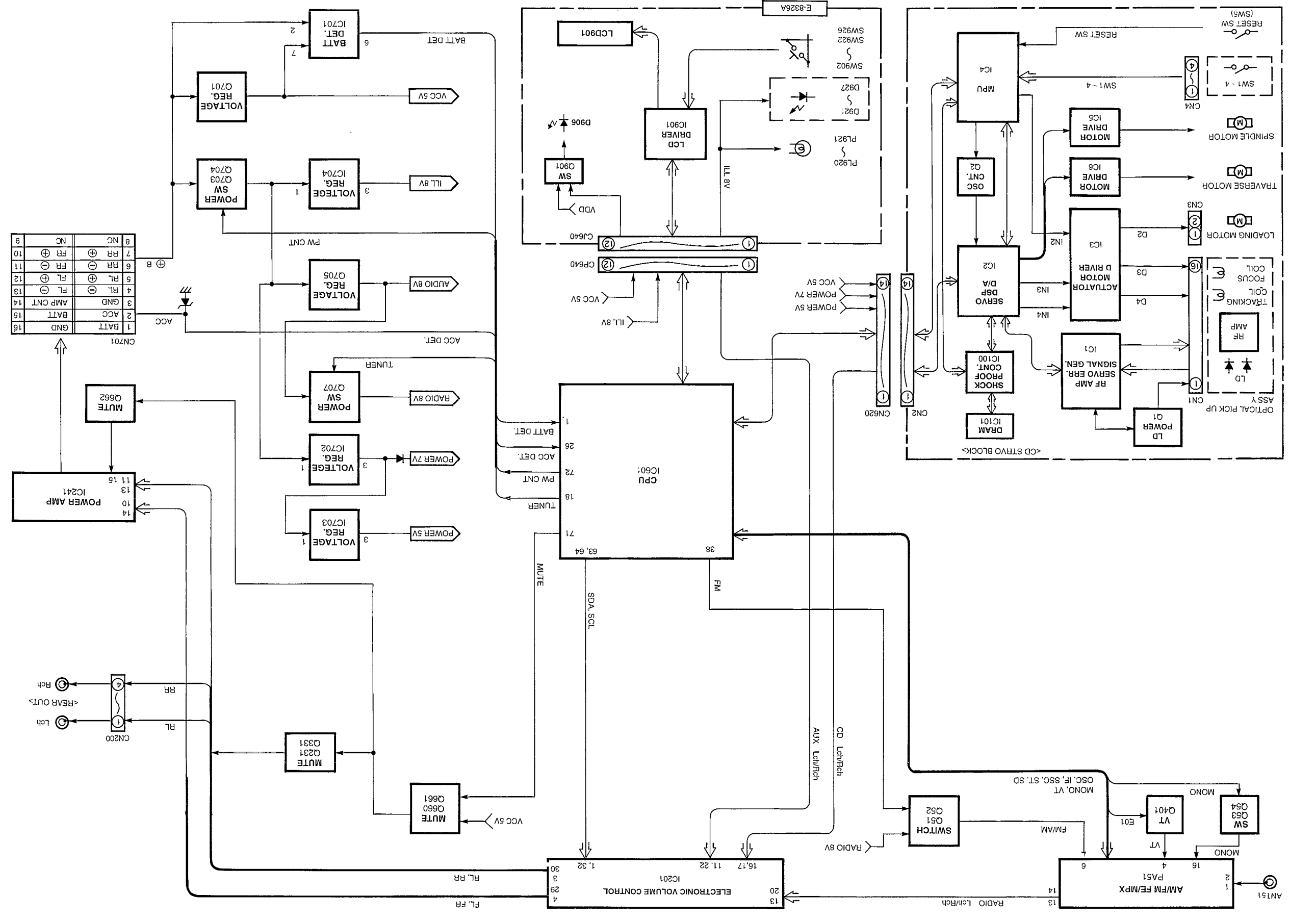
1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 35W of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage 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.

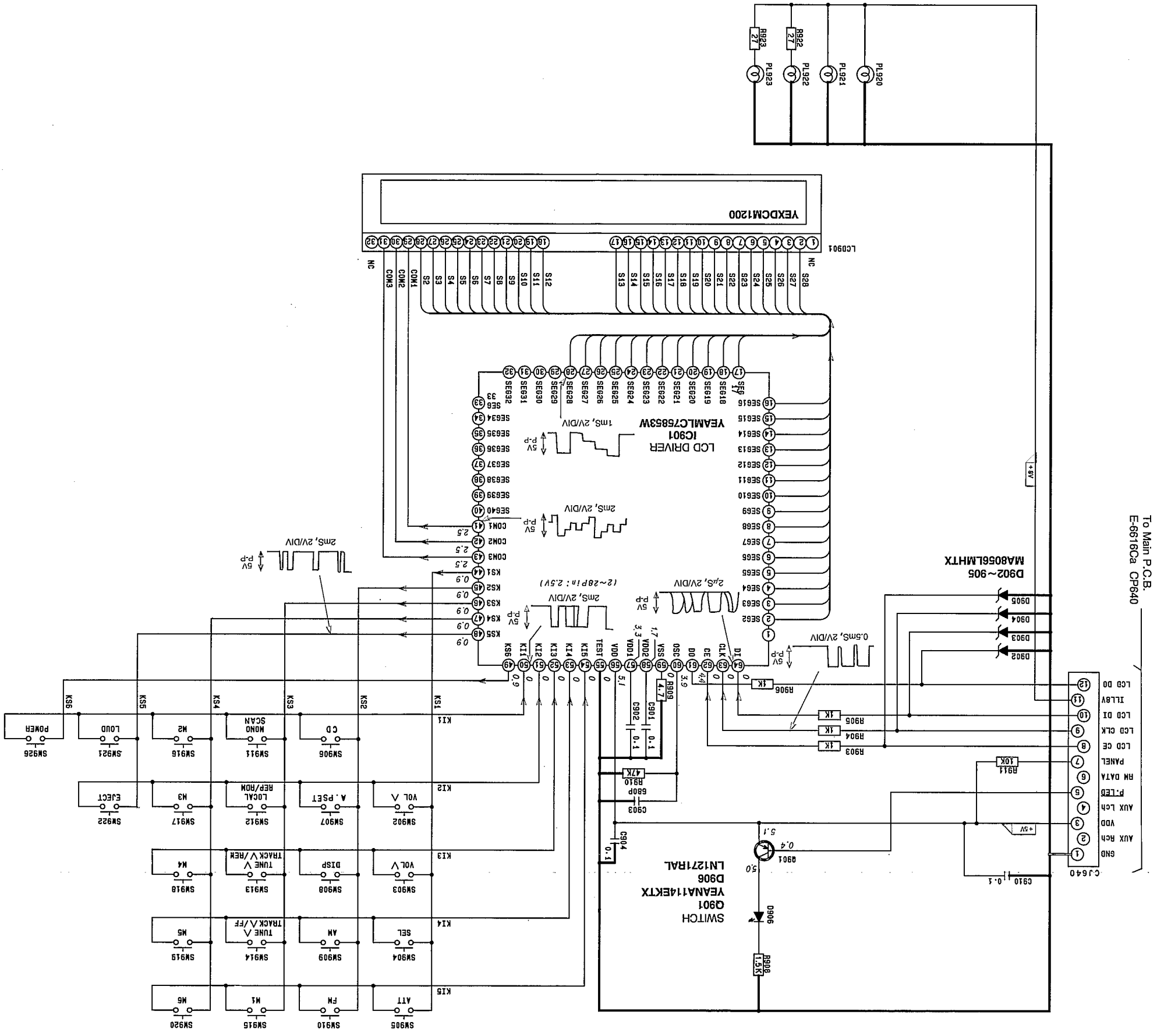




Pin	Symbol	Label
1	BATT	GND
2	ACC	BATT
3	GND	AMP CNT
4	FL	+
5	RL	+
6	RR	-
7	RR	+
8	RR	+
9	NC	NC

SCHMATIC DIAGRAM (Display Block) MODEL CQ-DP800LEE

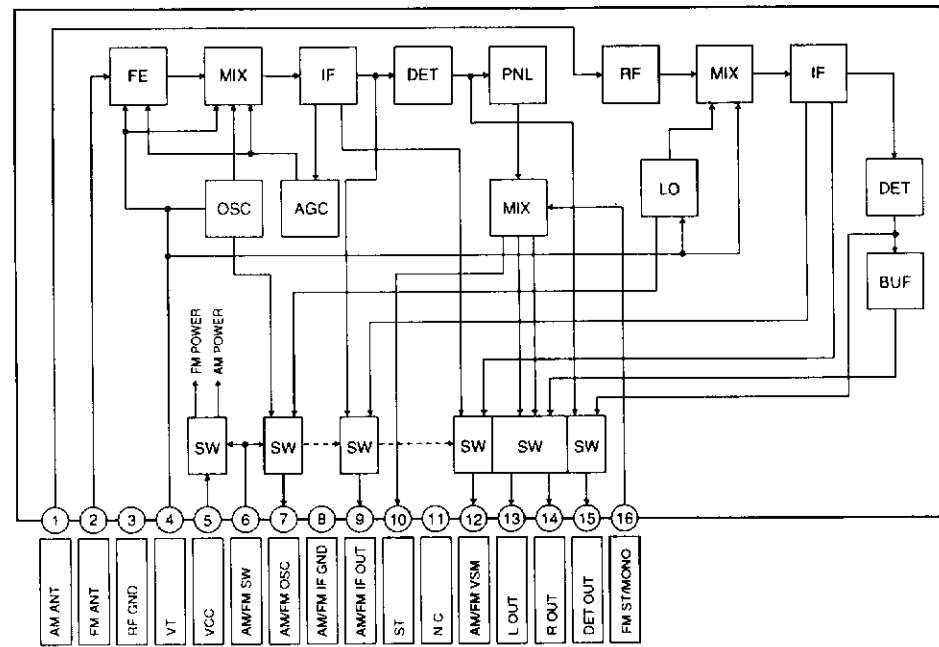
CQ-DP800LEE CQ-DP800LEE



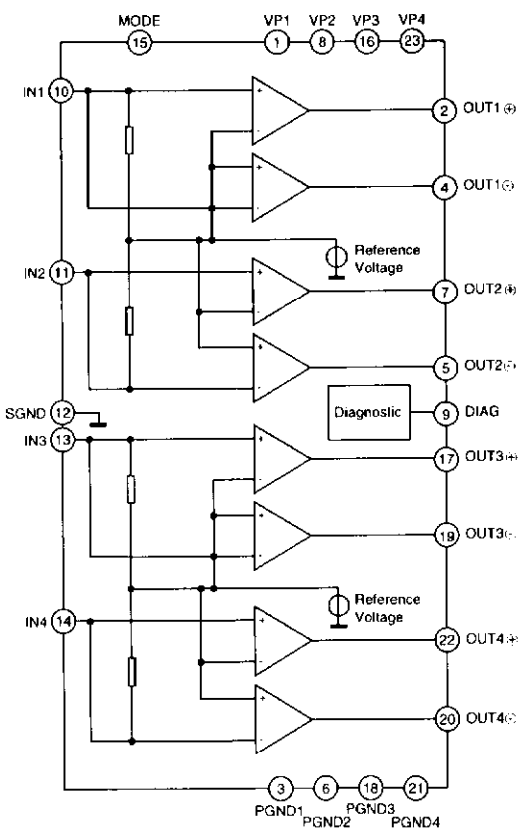
PACKAGE AND IC BLOCK DIAGRAM

< Main Block >

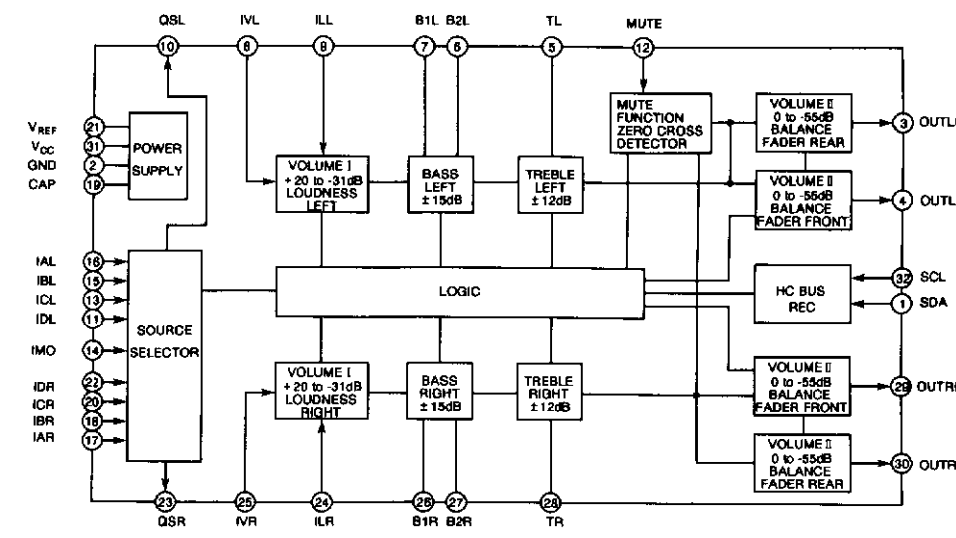
● PA51 YEAO03SMX25



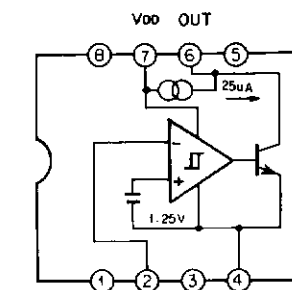
● IC241 YEAMTDA8568Q



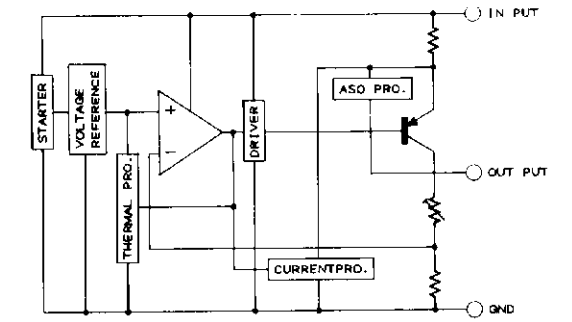
● IC201 YEAMEA6320TT



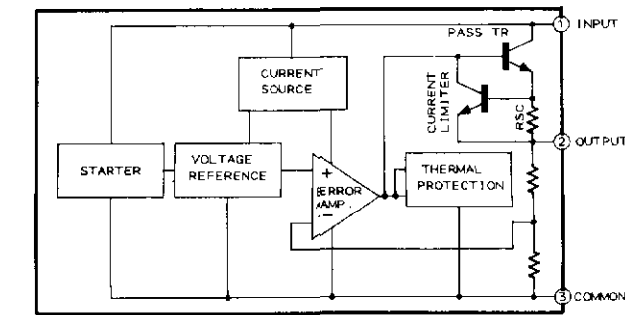
● IC701 YEAMM51945AF



● IC702 YEAMPC2908HF

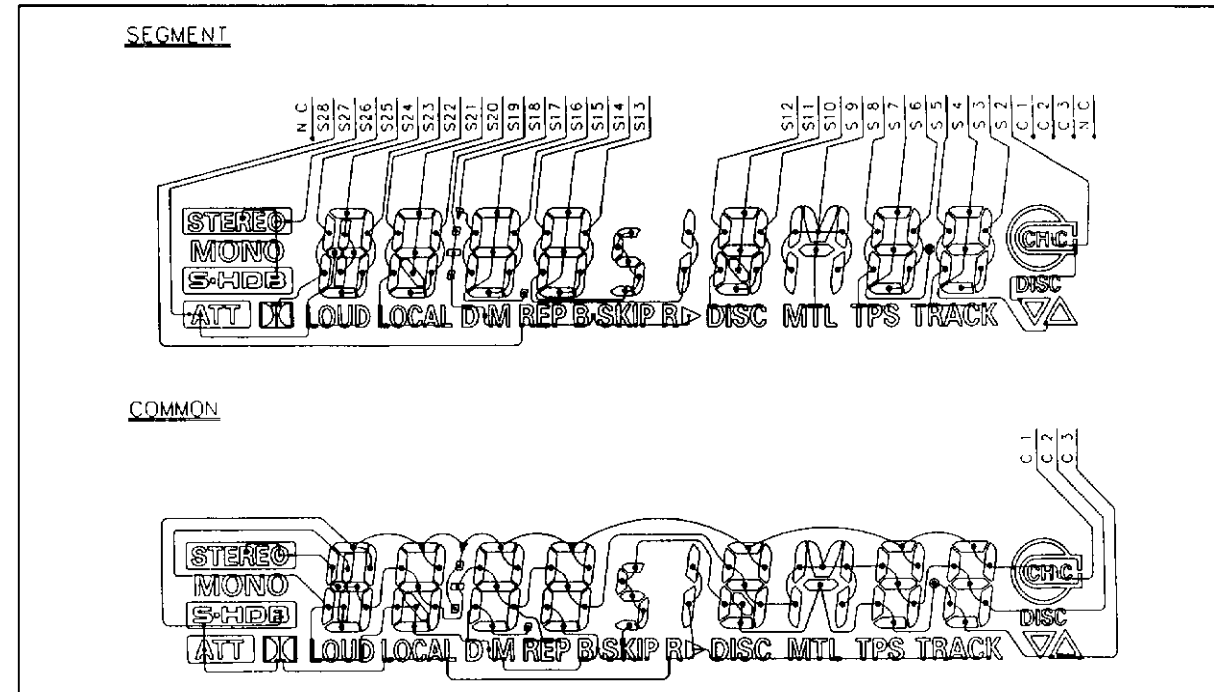


● IC703 AN78N05
● IC704 YEAMPC78M08A

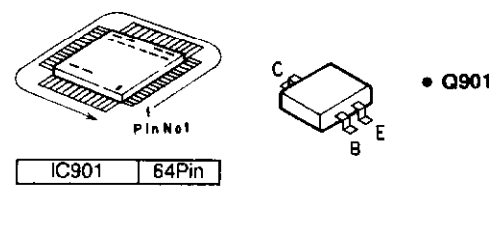


WIRING DIAGRAM (Display Block) MODEL CQ-DP800LEE

< LCD901



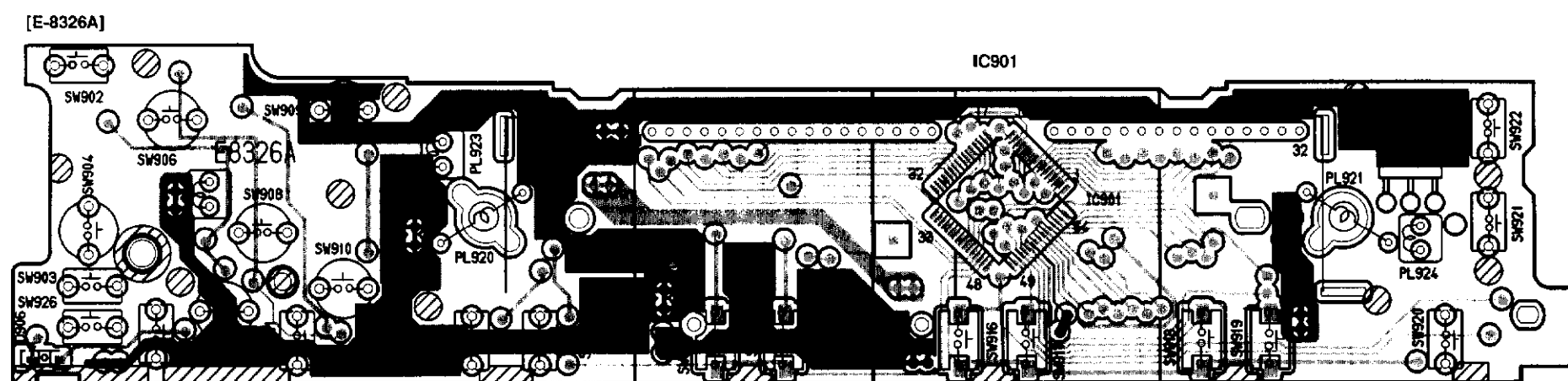
ICs & Transistors



Q901	
B	0.4 V
C	5.0 V
E	5.1 V

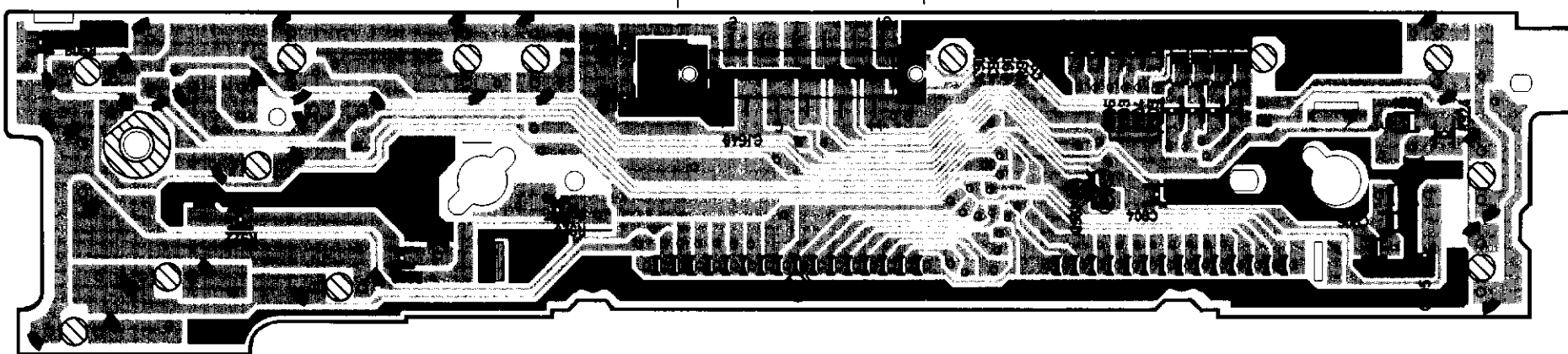
< Switches >

- SW902 : VOL A Switch
- SW903 : VOL V Switch
- SW904 : SEL Switch
- SW905 : ATT Switch
- SW906 : CD Switch
- SW907 : A.PSET Switch
- SW908 : DISP Switch
- SW909 : AM Switch
- SW910 : FM Switch
- SW911 : MONO/SCAN Switch
- SW912 : LOC/REP/RDM Switch
- SW913 : TUNE/TRACK √/REW Switch
- SW914 : TUNE/TRACK /FF Switch
- SW915 : Preset 1 Switch
- SW916 : Preset 2 Switch
- SW917 : Preset 3 Switch
- SW918 : Preset 4 Switch
- SW919 : Preset 5 Switch
- SW920 : Preset 6 Switch
- SW921 : LOUD Switch
- SW922 : EJECT Switch
- SW926 : POWER Switch



TOP VIEW

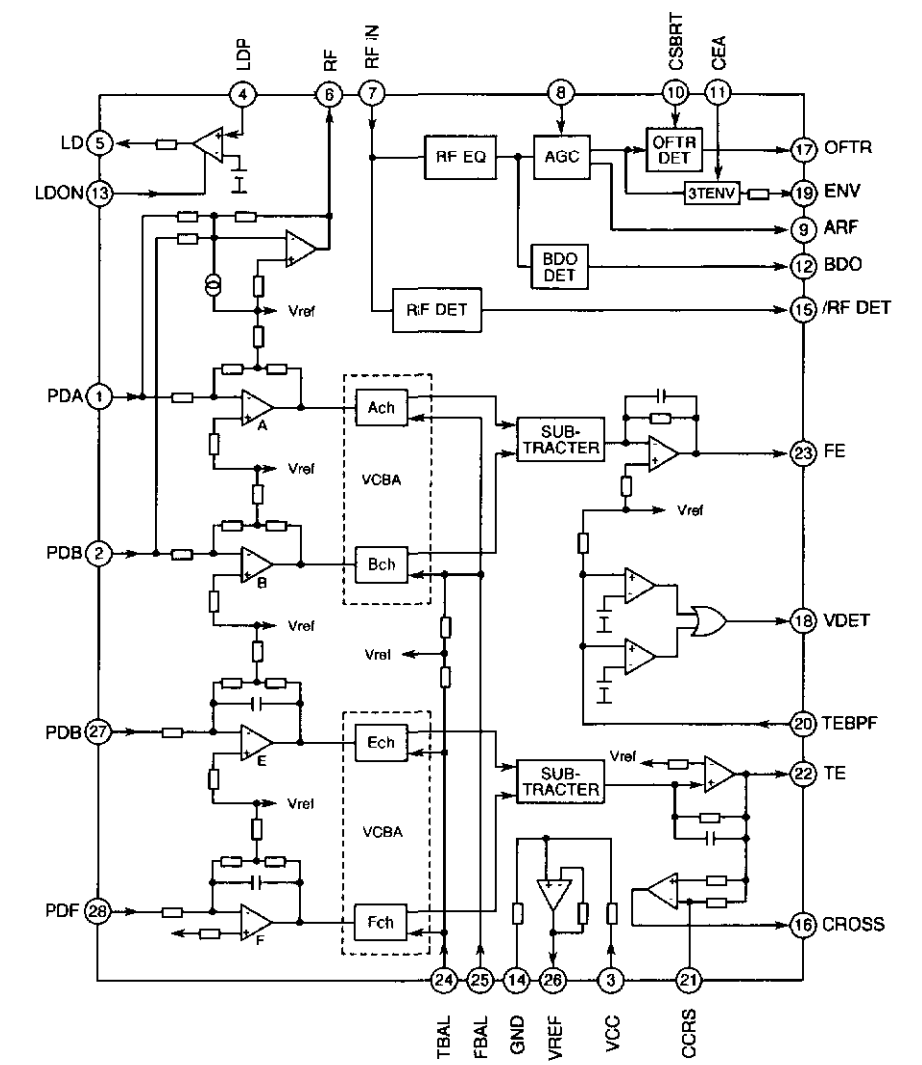
To Main P.C.B.
E-6616Ca CP640



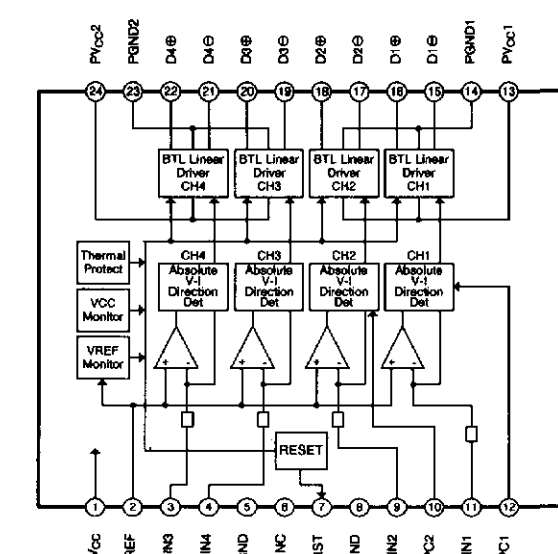
BOTTOM VIEW

< CD Servo Block >

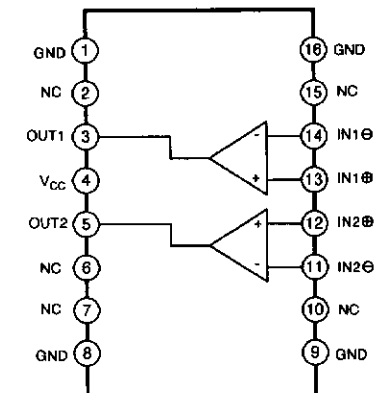
● IC1 AN8835SBE1



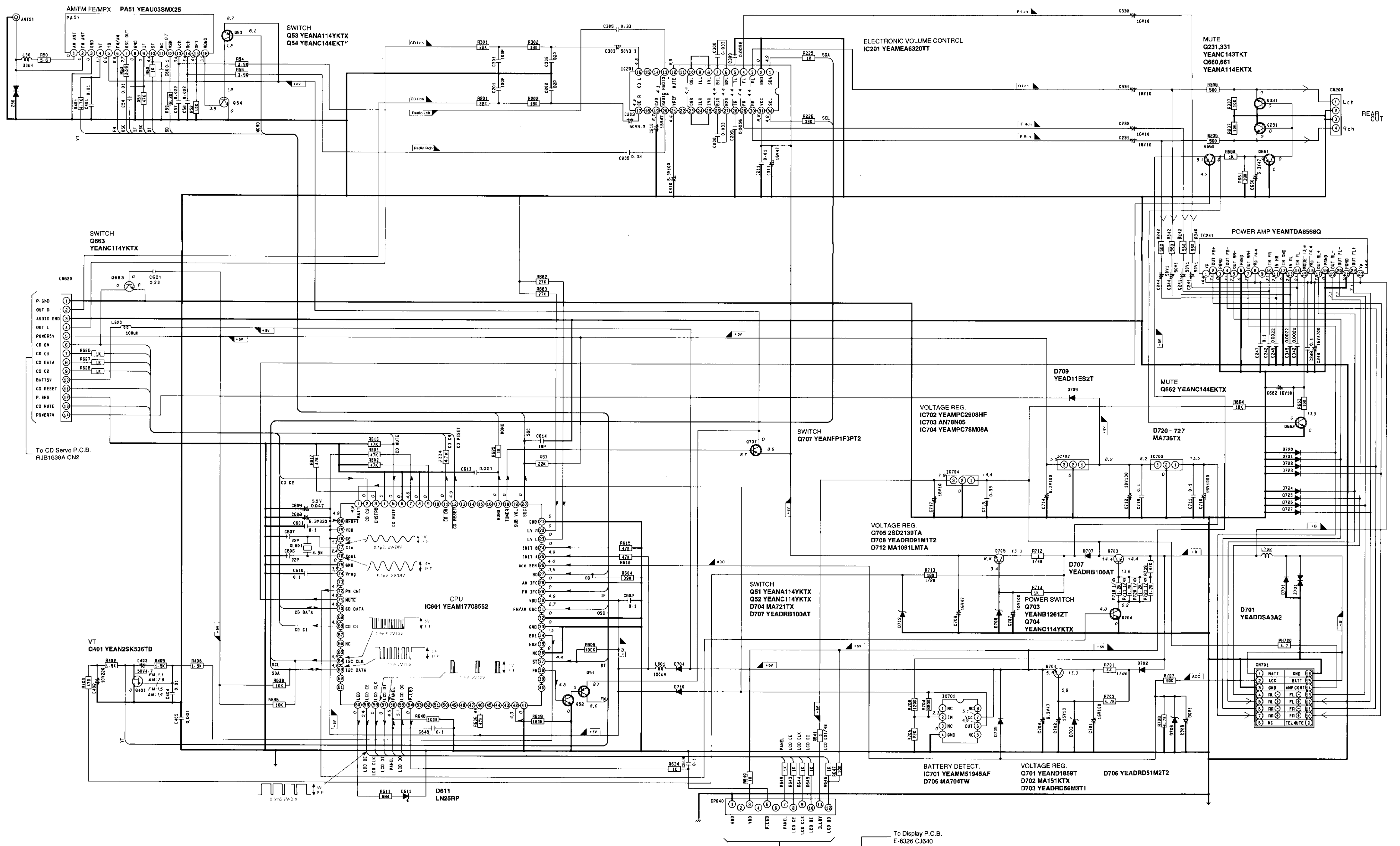
● IC3 AN8389SE1



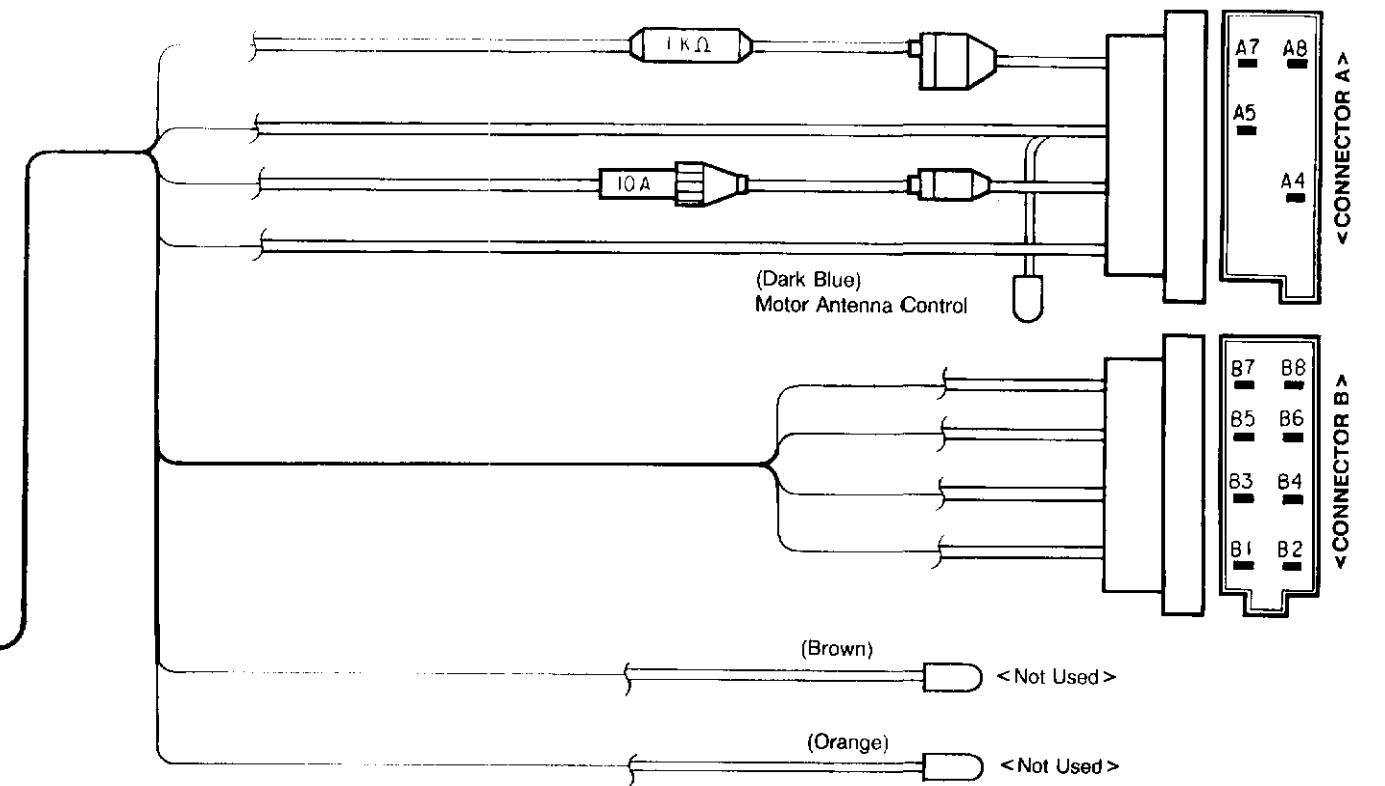
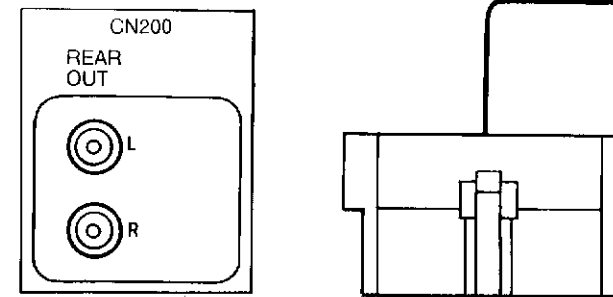
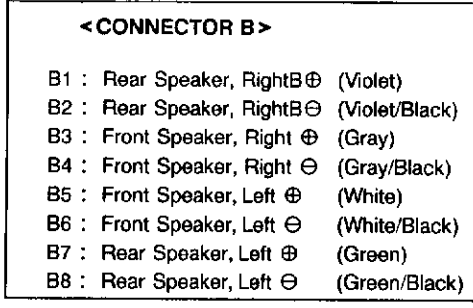
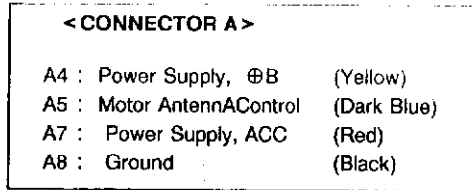
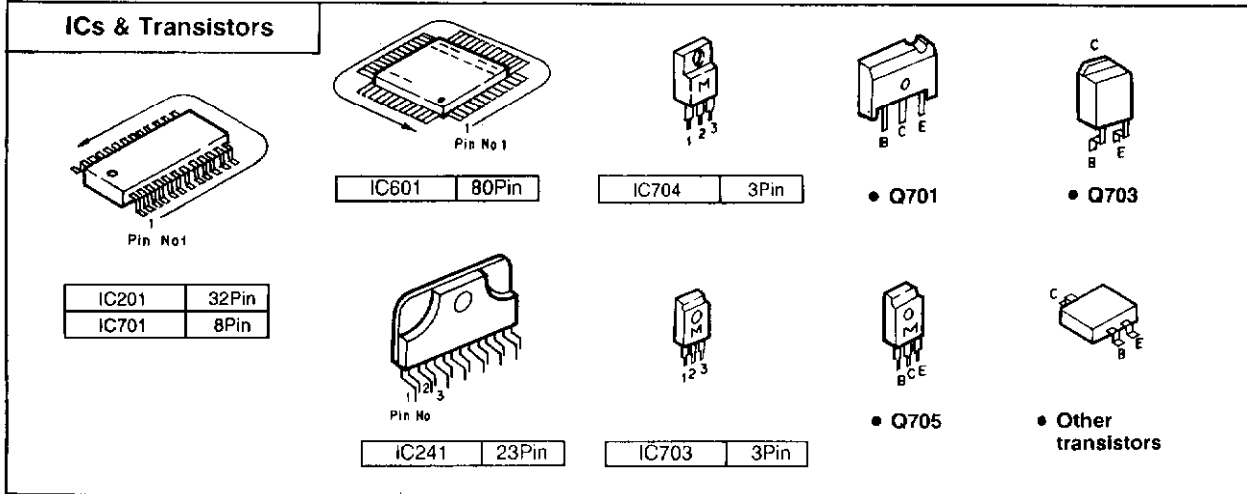
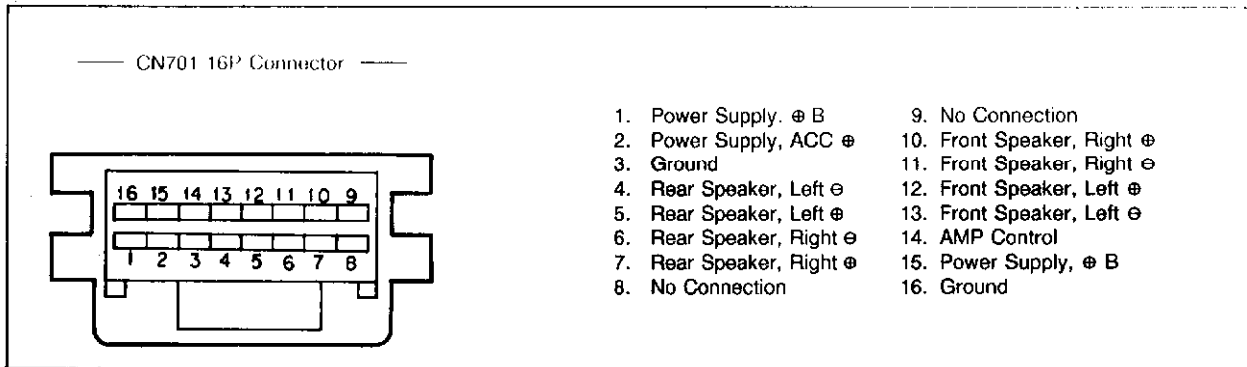
● IC5, 6 TCA0372DM2R



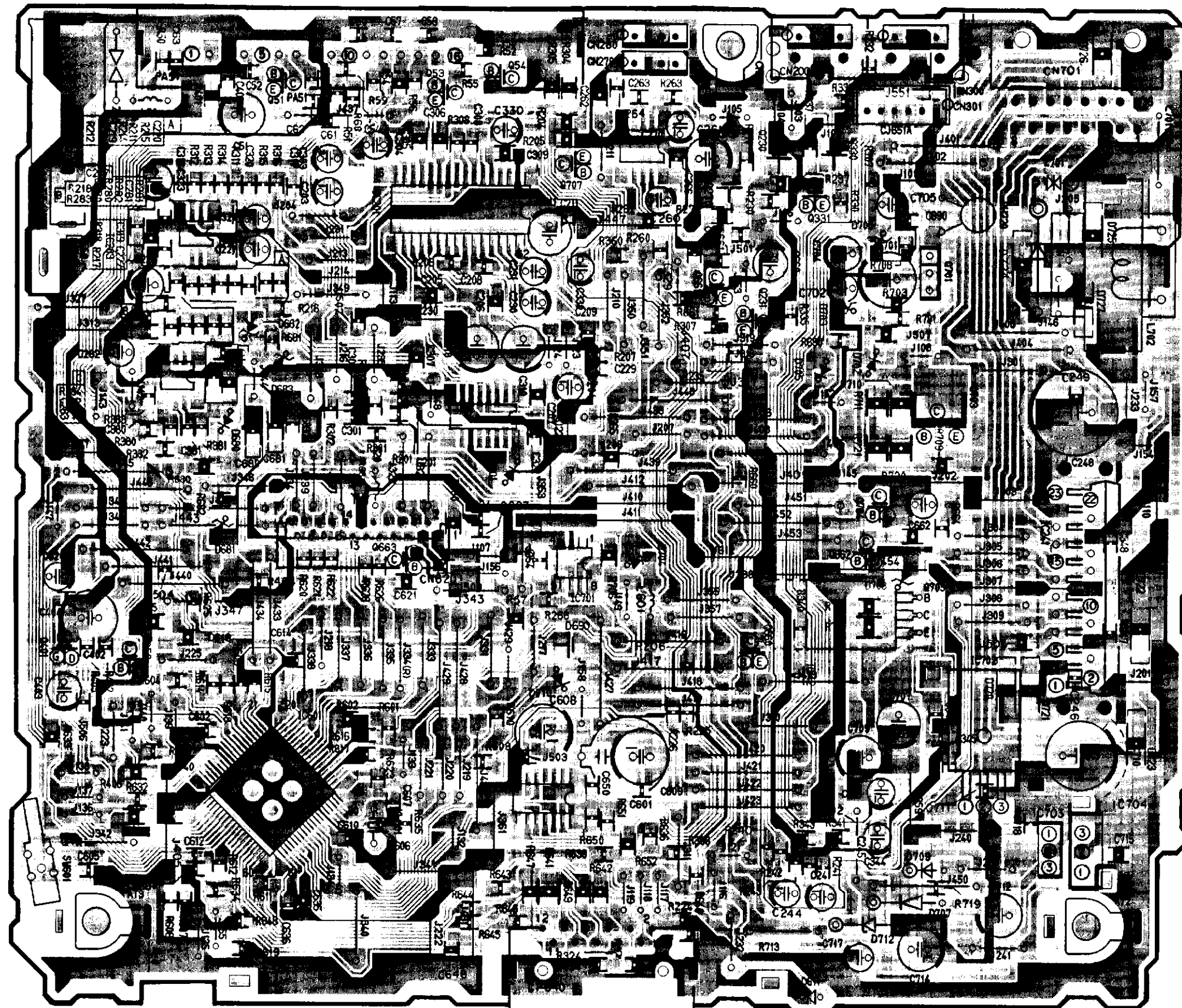
SCHEMATIC DIAGRAM (Main Block) MODEL CQ-DP800LEE



WIRING DIAGRAM (Main Block) MODEL CQ-DP800LEE



[E-6616Ca] PA51 Q51



	B	C	E
Q51	0	8.6	8.7
Q52	4.8	0	0
Q53	8.2	1.8	8.7
Q54	1.8	3.5	0
Q231	0	0	0
Q331	0	0	0
Q660	4.9	0	5.1

	B	C	E
Q661	0	0	0
Q662	0	13.5	0
Q663	0	0	0
Q701	5.8	13.3	5.1
Q703	13.6	14.4	14.4
Q704	4.8	0.2	0
Q705	9.4	13.3	8.8
Q707	8.7	0	8.9

	FM	G	D	S
Q401	1.5	1.1	0	0
AM	1.4	2.8	0	0

Pin	IC241	IC701	IC702	IC703	IC704	PA51
1	14.4	—	13.5	8.2	14.4	0
2	7.1	2.3	0	0	0	0
3	0	—	8.2	5.0	7.9	0
4	7.1	0	—	—	—	1.1
5	7.1	—	—	—	—	8.6
6	0	4.9	—	—	—	8.5
7	7.1	5.1	—	—	—	2.7
8	14.4	—	—	—	—	0
9	—	—	—	—	—	0
10	2.1	—	—	—	—	4.4
11	2.1	—	—	—	—	—
12	0	—	—	—	—	0.7
13	2.1	—	—	—	—	3.4
14	2.1	—	—	—	—	3.4
15	13.6	—	—	—	—	4.0
16	14.4	—	—	—	—	3.5
17	7.1	—	—	—	—	—
18	0	—	—	—	—	—
19	7.1	—	—	—	—	—
20	7.1	—	—	—	—	—
21	0	—	—	—	—	—
22	7.1	—	—	—	—	—
23	14.4	—	—	—	—	—

Pin	IC201
1	4.9 17 4.3
2	0 18 4.3
3	4.4 19 8.7
4	4.4 20 4.3
5	4.4 21 4.4
6	4.4 22 4.3
7	4.4 23 4.4
8	3.9 24 —
9	— 25 3.9
10	4.4 26 4.4
11	4.3 27 4.4
12	8.3 28 4.4
13	4.3 29 4.4
14	— 30 4.4
15	4.3 31 8.4
16	4.3 32 4.8

To CD Servo P.C.B.
RJB1639A CN2

To Display P.C.B.
E-8326A CJ640

■ IC600 : YEAM17708552

Pin No.	Port	Description	I/O	Vol.(V)
1	BATT	Battery detection	I	4.9
2	CD C2	Communication control	I	0
3	/CH STRB	(Ground pull-down)	-	0
4	—	(Connection to ground)	-	0
5	CD MUTE	CD mute	I	0
6	—	(Connection to ground)	-	0
7	—	(+5V pull-up)	O	4.9
8	—	(Connection to ground)	-	0
9	—	(Ground pull-down)	-	0
10	—	No connection	-	-
11	/CD ON	CD on/off control	O	0
12	/CD RESET	CD reset	O	4.9
13~15	—	No connection	-	-
16	—	No connection	-	-
17	MONO	Mono/ST selectio	O	0
18	TUNER	Radio power control	O	0
19	SUB VOL	No connection	-	-
20	SSC	Serch stop clear	O	0
21	GND	Ground	-	0
22	LV R	Rch level detection	I	0
23	LV L	Lch level detection	I	0
24	INIT B	Initial value B	I	0

Pin No.	Port	Description	I/O	Vol.(V)
25	INT A	Initial value A	I	4.9
26	ACC SEN	ACC detection	I	4.0
27	SD	Field strength	I	0.6
28	AM IFC	(Connection to ground)	-	0
29	FM IFC	FM IF input	I	0
30	VDD	+5V power supply	-	4.9
31	FM/AM OSC	FM/AM local oscillation	I	2.7
32	—	(Connection to ground)	-	0
33	GND	Ground	-	0
34	EO1	PLL ogase-comp.error	O	1.5
35	EO2	Not used	-	-
36	NC	(Connection to ground)	-	0
37	/ST	Stereo indicator	I	4.4
38	FM	FM/AM band selection	O	4.8
39,40	—	No connection	-	-
41	—	(Connection to ground)	-	0
42	REM IN	(Connection to ground)	I	0
43~45	—	No connection	-	-
46	—	(+5V pull-up)	-	4.6
47~53	—	No connection	-	-
54	/P.LED	Power LED control	O	0
55	LCD DO	LCD driver data	-	5.1

Pin No.	Port	Description	I/O	Vol.(V)
56	PANEL	Panel detection	I	4.5
57	LCD DI	LCD driver data	O	0
58	LCD CLK	LCD driver clock	O	0
59	LCD CE	LCD driver CE	O	0.4
60	LED	Security LED	O	0
61	—	No connection	-	-
62	—	No connection	-	-
63	12C DATA	Electronic volume cont data	I/O	4.9
64	12C CLK	Electronic volume cont clock	O	4.9
65	—	No connection	-	-
66	NC	No connection	-	-
67	—	No connection	-	-
68	CD C1	Communication control	O	4.9
69	—	No connection	-	-
70	CD DATA	CD data	I/O	4.8
71	/MUTE	Mute output	O	4.8
72	PW CNT	System power control	O	4.7
73	—	No connection	-	-
74	VREG	Voltage regulator	O	3.5
75	GND	Ground	-	0
76	XOUT	Crystal oscillator	-	2.4
77	XIN	Crystal oscillator	-	1.3

Pin No.	Port	Description	I/O	Vol.(V)
78	CE	(Connecting to VDD)	-	4.9
79	VDD	+5V power supply	-	4.9
80	/RESET	(Connecting to VDD)	-	4.9

Note 1 : Voltage measurements are with respect to ground, with a voltmeter (Internal resistance : 10M ohms).

■ IC901 : YEAMLC75853W

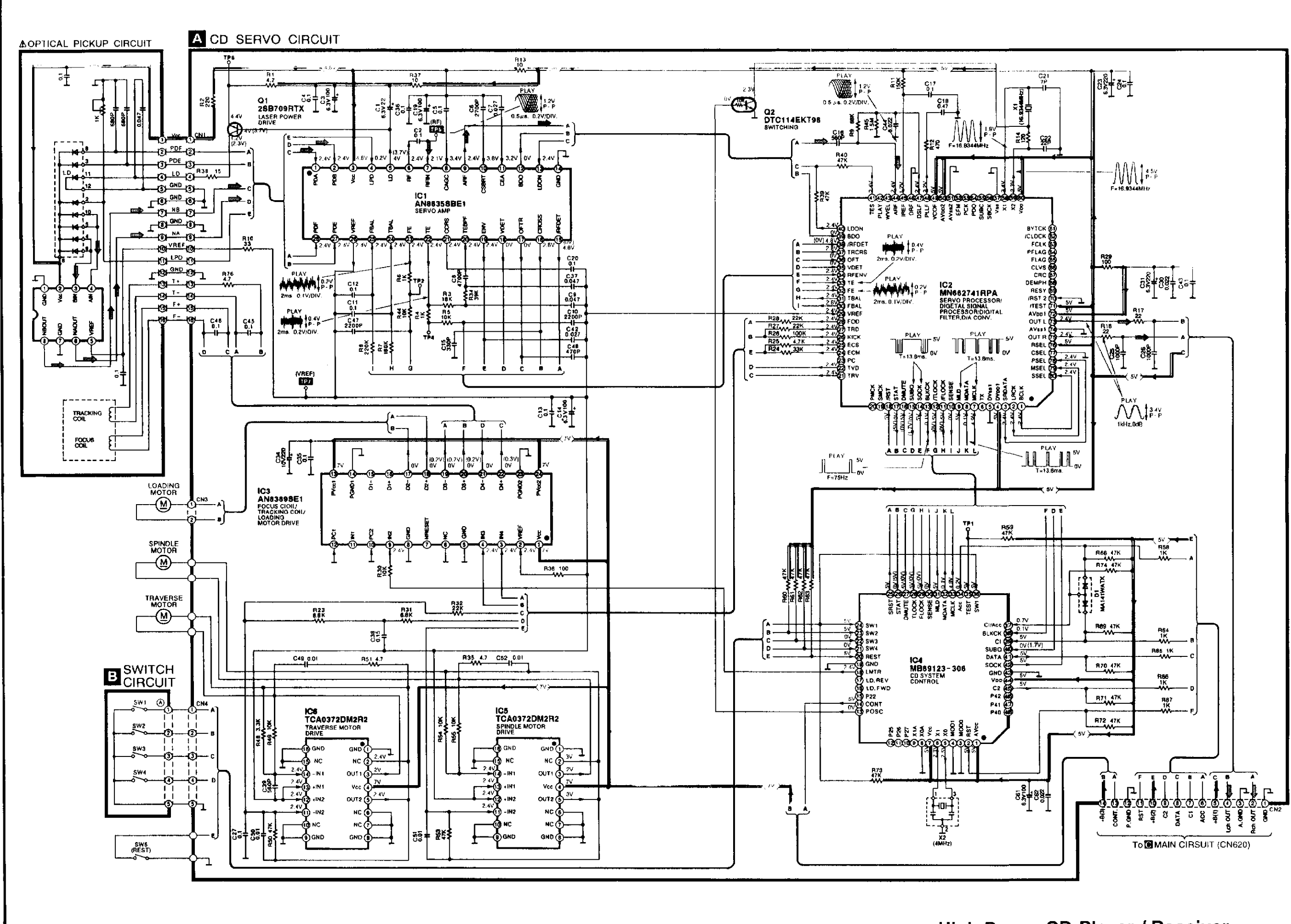
Pin No.	Port	Description	I/O	Vol.(V)
1	—	No connection	-	-
2~28	SEG2~28	LCD segment output	O	2.5
29~40	SEG29~40	No connection	-	-
41~43	COM1~3	LCD common output	O	2.5
44~49	KS1~6	Key scan signal	O	0.9
50~54	KI1~5	Key data input	I	0
55	TEST	(Connecting to ground)	-	0
56	VDD	+5V power supply	-	5.1
57	VDD1	Ground through capacitor	-	3.3
58	VDD2	Ground through capacitor	-	1.7
59	Vss	Ground	-	0
60	OSC	CR oscillator	-	3.9
61	DO	Key data output	O	4.4
62	CE	Chip enable	I	0
63	CLK	LCD clock	I	0
64	DI	LCD data input	I	0

■ IC4 MB89123-306

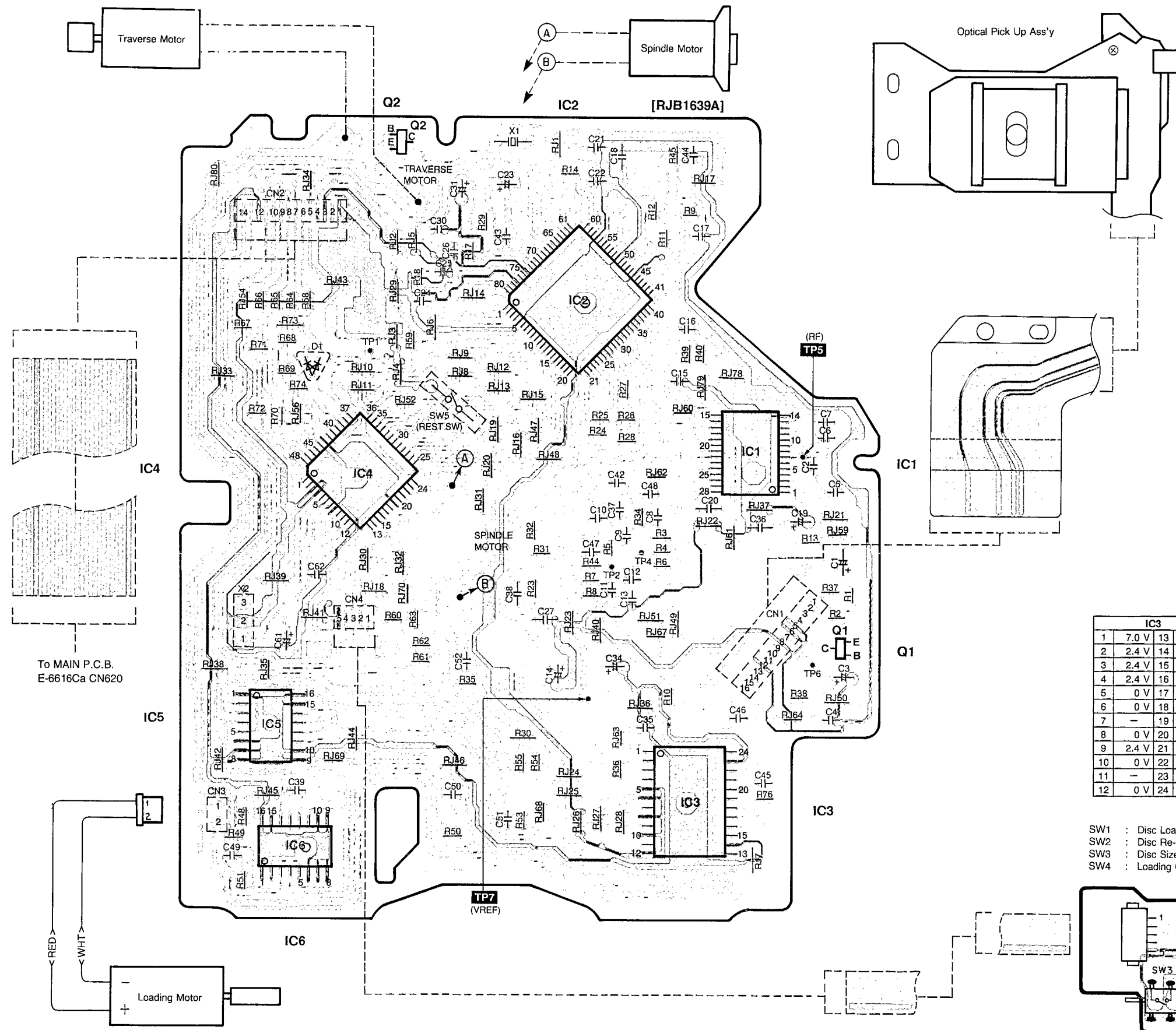
Pin No.	Port	Description	I/O	Vol.(V)
1	AVcc	+5V power supply	—	5.0
2	RST	Reset signal	I	5.0
3	MOD0	Connecting to ground	—	0
4	MOD1	Connecting to ground	—	0
5	X0	Crystal oscillator	O	2.5
6	X1	Crystal oscillator	I	2.3
7	Vcc	+5V power supply	—	5.0
8	XOA	Connecting to ground	—	0
9~12	—	Not used	—	—
13	POSC	Oscillator control	O	0
14	CONT	Power control	O	5.0
15~17	—	Not used	—	—
18	LMTR	Loading motor drive	O	2.4
19	GND	Ground	—	0
20	REST	Inside track detection	I	5.0
21	SW4	Loading completion	I	0
22	SW3	Disc size detection	I	0
23	SW2	Disc re-inserting detection	I	5.0
24	SW1	Disc insert detection	I	5.0
25	SRST	Servo logic reset	O	5.0
26	STAT	IC2 status signal	I	0

Pin No.	Port	Description	I/O	Vol.(V)
27	DMUTE	Digital mute	O	5.0
28	TLOCK	Tracking lock	I	5.0
29	FLOCK	Focus lock	I	5.0
30	SENSE	Sence signal input	I	0
31	MLD	MPU command load	O	5.0
32	MDATA	MPU command data	O	0.1
33	MCLK	MPU command clock	O	4.9
34	ACC	ACC detection	I	0.2
35	TEST	Test mode set	I	5.0
36	SW1	Disc insert detection	I	5.0
37	C1/ACC	Comm/ACC interrupt	I	0.7
38	BLK	Block interrupt	I	0.1
39	C1	Communication control	I	5.0
40	SUBQ	Q code data input	I	0
41	DATA	Communication data	I/O	5.0
42	SQCK	Q code clock	O	5.0
43	GND	Ground	—	0
44	Vcc	+5V power supply	—	5.0
45	C2	Communication control	O	5.0
46~48	—	Not used	—	—

SCHMATIC DIAGRAM (CD Servo Block) MODEL CQ-DP800LEE



WIRING DIAGRAM (CD Servo Block) MODEL CQ-DP800LEE



ICs & Transistors

•Q1, Q2

IC2	80Pin
IC4	48Pin
IC1	28Pin
IC3	24Pin
IC5	16Pin
IC6	16Pin

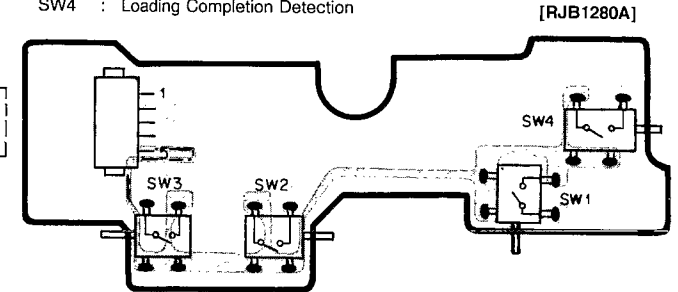
Q1		Q2	
B	3.7V	B	0V
C	1.2V	C	2.3V
E	4.4V	E	0V

IC1							
1	2.4V	8	3.4V	15	4.8V	22	2.4V
2	2.4V	9	2.4V	16	2.8V	23	2.4V
3	4.8V	10	3.8V	17	0V	24	2.4V
4	0.2V	11	3.2V	18	0V	25	2.4V
5	4.0V	12	0V	19	2.4V	26	2.4V
6	2.4V	13	2.4V	20	2.4V	27	2.4V
7	2.1V	14	0V	21	2.4V	28	2.4V

IC3			
1	7.0V	13	7.0V
2	2.4V	14	0V
3	2.4V	15	-
4	2.4V	16	-
5	0V	17	0V
6	0V	18	0V
7	-	19	0V
8	0V	20	0V
9	2.4V	21	0V
10	0V	22	0V
11	-	23	0V
12	0V	24	7.0V

IC5				IC6			
1	0V	9	0V	1	0V	9	0V
2	3.0V	10	0V	2	2.4V	10	0V
3	2.0V	11	2.4V	3	2.0V	11	2.4V
4	7.0V	12	2.4V	4	7.0V	12	2.4V
5	3.0V	13	2.4V	5	2.4V	13	2.4V
6	0V	14	2.4V	6	0V	14	2.4V
7	0V	15	0V	7	0V	15	0V
8	0V	16	0V	8	0V	16	0V

- SW1 : Disc Loading Detection
- SW2 : Disc Re-loading Detection
- SW3 : Disc Size Detection
- SW4 : Loading Completion Detection



To MAIN P.C.B.
E-6616Ca CN620

TERMINALS DESCRIPTION

IC2 MN662741RPA

Pin No.	Port	Description	I/O	Vol.(V)	Pin No.	Port	Description	I/O	Vol.(V)
1	BCLK	Bit clock output	O	2.4	35	VDET	Detecting Signal	I	0
2	LROCK	L/R select output	O	2.4	36	OFT	OFF Track Signal	I	0
3	SRDATA	Serial data output	O	2.4	37	TRCRS	Track Close	I	2.8
4	DVDD1	+5V Power Supply for Digital	-	5.0	38	/RFDET	RF Detecting Signal	I	4.8
5	DVSS1	Ground for Digital	-	0	39	BDO	Drop-out Signal	I	0
6	TX	Not used	-	-	40	LDON	Laser ON Signal	O	2.4
7	MCLK	Command Clock Signal	I	4.9	41	TES	Tracking Error Shunt	O	2.4
8	MDATA	Command Data	I	0.1	42	PLAY	Not used	-	-
9	MLD	Command Load	I	5.0	43	WVEL	Not used	-	-
10	SENSE	Sense Signal	O	0	44	ARF	RF Signal	I	2.4
11	/FLOCK	Focus Servo lock	O	5.0	45	/REF	Standard Current Input	I	1.2
12	/TLOCK	Tracking Servo lock	O	5.0	46	DRF	Connecting to ground	-	0
13	BLKCK	Sub-code block clock	O	0.1	47	DSL	Loop Filter for DSL	I/O	2.4
14	SQCK	EX-Clock for Subcode Q	I	5.0	48	PLLF	Loop Filter for PLL	I/O	2.2
15	SUBQ	Subcode Q-code	O	0	49	VCOF	Connecting to V _{DD}	-	5.0
16	DMUTE	Muting	I	5.0	50	AVDD2	Power supply for Analog	-	5.0
17	STAT	Status Signal	O	0	51	AVSS2	Ground for Analog	-	0
18	/RST	Reset Input	I	5.0	52~56		Not used	-	-
19	SMCK	Not used	-	-	57	VSS	Ground	-	0
20	PMCK	Not used	-	-	58	X1	Crystal oscillator	I	2.4
21	TRV	Traverse Motor Control	O	2.4	59	X2	Crystal oscillator	O	2.3
22	TV/D	Traverse Motor Control	O	2.4	60	VDD	+5V Power Supply	-	5.0
23	PC	Not used	-	-	61~69		Not used	-	-
24	ECM	Spindle Motor Drive	O	2.4	70	/RST2	Connecting to ground	-	0
25	ECS	Spindle Motor Drive	O	2.4	71	/TEST	(Connecting AVDD)	-	5.0
26	KICK	Kick Pulse	O	2.4	72	AVDD1	+5V Power supply for Analog	-	5.0
27	TRD	Tracking Drive	O	2.4	73	OUTL	L-Channel Output	O	2.4
28	FOD	Focus Drive	O	2.4	74	AVSS1	Ground for Analog	-	0
29	VREF	Reference Voltage	I	2.4	75	OUTR	R-Channel Output	O	2.4
30	FBAL	Focus Balance	O	2.6	76	RSEL	(Connecting AVDD)	I	5.0
31	TBAL	Tracking Balance	O	2.4	77	CSEL	(Connecting Ground)	I	0
32	FE	Focus Error	I	2.4	78	PSEL	Serial data input	I	2.4
33	TE	Tracking Error	I	2.4	79	MSEL	L/R select input	I	2.4
34	RFENV	RF Envelope	I	2.4	80	SSEL	Bit clock input	I	2.4

MODEL CQ-DP800LEE

Replacement Parts List
Model NO. CQ-DP800LEE

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. 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					
MAIN BLOCK					
[E-6616C]					
IC201	YEAMEA6320TT		IC	1	
IC241	YEAMTDA8568Q		IC	1	
IC601	YEAM17708552		IC	1	
IC701	YEAMM51945AF		IC	1	
IC702	YEAMPC2908HF		IC	1	
IC703	AN78N05		IC	1	
IC704	YEAMPC78M08A		IC	1	
PA51	YEAU03SMX25		Electronic Tuner	1	
Q51	YEANA114YKTX		Transistor	1	
Q52	YEANC114YKTX		Transistor	1	
Q53	YEANA114YKTX		Transistor	1	
Q54	YEANC144EKTX		Transistor	1	
Q231, 331	YEANC143TKT		Transistor	2	
Q401	YEAN2SK536TB		Transistor	1	
Q660, 661	YEANA114EKTX		Transistor	2	
Q662	YEANC144EKTX		Transistor	1	
Q663	YEANC114YKTX		Transistor	1	
Q701	YEAND1859T		Transistor	1	
Q703	YEANB1261ZT		Transistor	1	
Q704	YEANC114YKTX		Transistor	1	
Q705	2SD2139TA		Transistor	1	
Q707	YEANFP1F3PT2		Transistor	1	

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
DISPLAY BLOCK					
[E-8326A]					
IC901	YEAMLC75853W		IC	1	
Q901	YEANA114EKTX		Transistor	1	
DIODEs					
MAIN BLOCK					
[E-6616C]					
D611	LN25RP		LED	1	
D701	YEADDA3A2		Diode	1	
D702	MA151KTX		Diode	1	
D703	YEADRD56M3T1		Diode	1	
D704	MA721TX		Diode	1	
D705	MA704TW		Diode	1	
D706	YEADRD51M2T2		Diode	1	
D707	YEADRB100AT		Diode	1	
D708	YEADRD91M1T2		Diode	1	
D709	YEAD11ES2T		Diode	1	
D710	MA721TX		Diode	1	
D712	MA1091LMTA		Diode	1	
D720 to 727	MA736TX		Diode	8	
Z701	ERZC07DK470		ZNR	1	
DISPLAY BLOCK					
[E-8326A]					
D902 to 905	MA8056LMHTX		Diode	4	
D906	LN1271RAL		LED	1	

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CAPACITORS					
MAIN BLOCK					
[E-6616C]					
C54	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C57, 58	YECUS1E223KX		Ceramic, 0.022MFD 25WV	2	
C60	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C201	YECUS1H101JM		Ceramic, 100PF 50WV	1	
C202	YECUS1H820JM		Ceramic, 82PF 50WV	1	
C203	ECA1HSA3R3I		Electrolytic, 3.3MFD 50WV	1	
C205	YECUX1C334KX		Ceramic, 0.33MFD 16WV	1	
C208	YECUS1E333KX		Ceramic, 0.033MFD 25WV	1	
C209	YECUS1H562KX		Ceramic, 0.0056MFD 50WV	1	
C210	ECA1CSA470I		Electrolytic, 47MFD 16WV	1	
C211	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C230, 231	ECA1CSA100I		Electrolytic, 10MFD 16WV	2	
C241	ECA1HSA010I		Electrolytic, 1MFD 50WV	1	
C242	YECUS1H222KX		Ceramic, 0.0022MFD 50WV	1	
C244	ECA1HSA010I		Electrolytic, 1MFD 50WV	1	
C245	YECUS1H222KX		Ceramic, 0.0022MFD 50WV	1	
C247	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C248	ECA1CDT472Y		Electrolytic, 4700MFD 16WV	1	
C301	YECUS1H101JM		Ceramic, 100PF 50WV	1	
C302	YECUS1H820JM		Ceramic, 82PF 50WV	1	
C303	ECA1HSA3R3I		Electrolytic, 3.3MFD 50WV	1	
C305	YECUX1C334KX		Ceramic, 0.33MFD 16WV	1	
C308	YECUS1E333KX		Ceramic, 0.033MFD 25WV	1	
C309	YECUV2A562KX		Ceramic, 0.0056MFD 100WV	1	
C310	ECA0JSA101I		Electrolytic, 100MFD 6.3WV	1	
C311	ECA1CSA470I		Electrolytic, 47MFD 16WV	1	
C330, 331	ECA1CSA100I		Electrolytic, 10MFD 16WV	2	
C341	ECA1HSA010I		Electrolytic, 1MFD 50WV	1	
C342	YECUS1H222KX		Ceramic, 0.0022MFD 50WV	1	
C344	ECA1HSA010I		Electrolytic, 1MFD 50WV	1	

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C345	YECUS1H222KX		Ceramic, 0.0022MFD 50WV	1	
C348	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C401	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C402	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C403	ECA1HSA4R7I		Electrolytic, 4.7MFD 50WV	1	
C404	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C405	YECUV2A102KX		Ceramic, 0.001MFD 100WV	1	
C601, 602	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	2	
C606, 607	YECUS1H220JM		Ceramic, 22PF 50WV	2	
C608	ECEA0JKS331I		Electrolytic, 330MFD 6.3WV	1	
C609	ECCS5R5H473		Electrolytic, 0.047F 5.5WV	1	
C610	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C613	YECUV2A102KX		Ceramic, 0.001MFD 100WV	1	
C614	YECUS1H180JM		Ceramic, 18PF 50WV	1	
C619	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C621	YECUV1C224KX		Ceramic, 0.22MFD 16WV	1	
C648	YECUV1H104ZF		Ceramic, 0.1MFD 50WV	1	
C660	ECA0JSA470I		Electrolytic, 47MFD 6.3WV	1	
C662	ECA1CSA100I		Electrolytic, 10MFD 16WV	1	
C701	ECEA1CKS101I		Electrolytic, 100MFD 16WV	1	
C702	ECA1CSA100I		Electrolytic, 10MFD 16WV	1	
C704	ECA0JSA470I		Electrolytic, 47MFD 6.3WV	1	
C705	ECA1HSA010I		Electrolytic, 1MFD 50WV	1	
C707	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C709	ECA1CSA470I		Electrolytic, 47MFD 16WV	1	
C710	ECA1CDT102BQ		Electrolytic, 1000MFD 16WV	1	
C711	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C712	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C714	ECA0JSA101I		Electrolytic, 100MFD 6.3WV	1	
C715	YECUV1E334ZF		Ceramic, 0.33MFD 25WV	1	
C717	ECA1CSA100I		Electrolytic, 10MFD 16WV	1	
C718	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
DISPLAY BLOCK					
[E-8326A]					
C901, 902	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	2	
C903	YECUS1H681JM		Ceramic, 680PF 50WV	1	
C904, 910	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	2	
RESISTORS					
MAIN BLOCK					
[E-6616C]					
J334	ERD25TJ472		Carbon, 4.7k ohms 1/4W	1	
R50	ERJ6GEYJ5R6		Chip, 5.6 ohms 1/10W	1	
R51	ERJ6GEYJ473		Chip, 47k ohms 1/10W	1	
R52	ERJ6GEYJ103		Chip, 10k ohms 1/10W	1	
R53	ERJ6GEYJ331		Chip, 330 ohms 1/10W	1	
R54	ERJ8GEYJ392V		Chip, 3.9k ohms 1/8W	1	
R56	ERJ6GEYJ392		Chip, 3.9k ohms 1/10W	1	
R57	ERJ8GEYJ223V		Chip, 22k ohms 1/8W	1	
R59	ERJ6GEYJ822		Chip, 8.2k ohms 1/10W	1	
R60	ERJ6GEYJ102		Chip, 1k ohms 1/10W	1	
R201	ERJ6GEYJ223		Chip, 22k ohms 1/10W	1	
R202	ERJ6GEYJ183		Chip, 18k ohms 1/10W	1	
R225	ERJ6GEYJ102		Chip, 1k ohms 1/10W	1	
R226	ERJ6GEYJ333		Chip, 33k ohms 1/10W	1	
R235	ERJ6GEYJ561		Chip, 560 ohms 1/10W	1	
R237	ERJ8GEYJ103V		Chip, 10k ohms 1/8W	1	
R240, 242	ERJ6GEYJ561		Chip, 560 ohms 1/10W	2	
R301	ERJ6GEYJ223		Chip, 22k ohms 1/10W	1	
R302	ERJ6GEYJ183		Chip, 18k ohms 1/10W	1	
R335	ERJ6GEYJ561		Chip, 560 ohms 1/10W	1	
R337	ERJ6GEYJ103		Chip, 10k ohms 1/10W	1	
R340, 342	ERJ6GEYJ561		Chip, 560 ohms 1/10W	2	
R401	ERJ8GEYJ472V		Chip, 4.7k ohms 1/8W	1	

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R402	ERJ6GEYJ152		Chip, 1.5k ohms 1/10W	1	
R403	ERJ6GEYJ471		Chip, 470 ohms 1/10W	1	
R405	ERJ6GEYJ152		Chip, 1.5k ohms 1/10W	1	
R406	ERJ8GEYJ152V		Chip, 1.5k ohms 1/8W	1	
R601	ERJ6GEYJ473		Chip, 47k ohms 1/10W	1	
R602	ERJ8GEYJ473V		Chip, 47k ohms 1/8W	1	
R604	ERJ6GEYJ393		Chip, 39k ohms 1/10W	1	
R605	ERJ6GEYJ104		Chip, 100k ohms 1/10W	1	
R606	ERJ8GEYJ473V		Chip, 47k ohms 1/8W	1	
R611	ERJ6GEYJ681		Chip, 680 ohms 1/10W	1	
R615 to 618	ERJ6GEYJ473		Chip, 47k ohms 1/10W	4	
R619	ERJ6GEYJ184		Chip, 180k ohms 1/10W	1	
R625 to 628	ERJ6GEYJ102		Chip, 1k ohms 1/10W	4	
R634	ERJ6GEYJ102		Chip, 1k ohms 1/10W	1	
R636, 638	ERJ6GEYJ103		Chip, 10k ohms 1/10W	2	
R640	ERJ6GEYJ100		Chip, 10 ohms 1/10W	1	
R641	ERJ14YJ1R0H		Chip, 1 ohm 1/4W	1	
R643 to 646	ERJ6GEYJ102		Chip, 1k ohms 1/10W	4	
R647	ERJ8GEYJ103V		Chip, 10k ohms 1/8W	1	
R648	ERJ6GEYJ104		Chip, 100k ohms 1/10W	1	
R649	ERJ8GEYJ102V		Chip, 1k ohms 1/8W	1	
R660	ERJ6GEYJ102		Chip, 1k ohms 1/10W	1	
R661	ERJ6GEYJ393		Chip, 39k ohms 1/10W	1	
R663	ERJ8GEYJ103V		Chip, 10k ohms 1/8W	1	
R664	ERJ6GEYJ183		Chip, 18k ohms 1/10W	1	
R682, 683	ERJ6GEYJ273		Chip, 27k ohms 1/10W	2	
R701	ERJ6GEYJ220		Chip, 22 ohms 1/10W	1	
R703	ERJ8GEYJ472V		Chip, 4.7k ohms 1/8W	1	
R704	ERJ6GEYJ684		Chip, 680k ohms 1/10W	1	
R705	ERJ6GEYJ223		Chip, 22k ohms 1/10W	1	
R706	ERJ8GEYJ124V		Chip, 120k ohms 1/8W	1	
R707	ERJ6GEYJ103		Chip, 10k ohms 1/10W	1	
R708	ERJ6GEYJ472		Chip, 4.7k ohms 1/10W	1	
R709	ERJ8GEYJ473V		Chip, 47k ohms 1/8W	1	

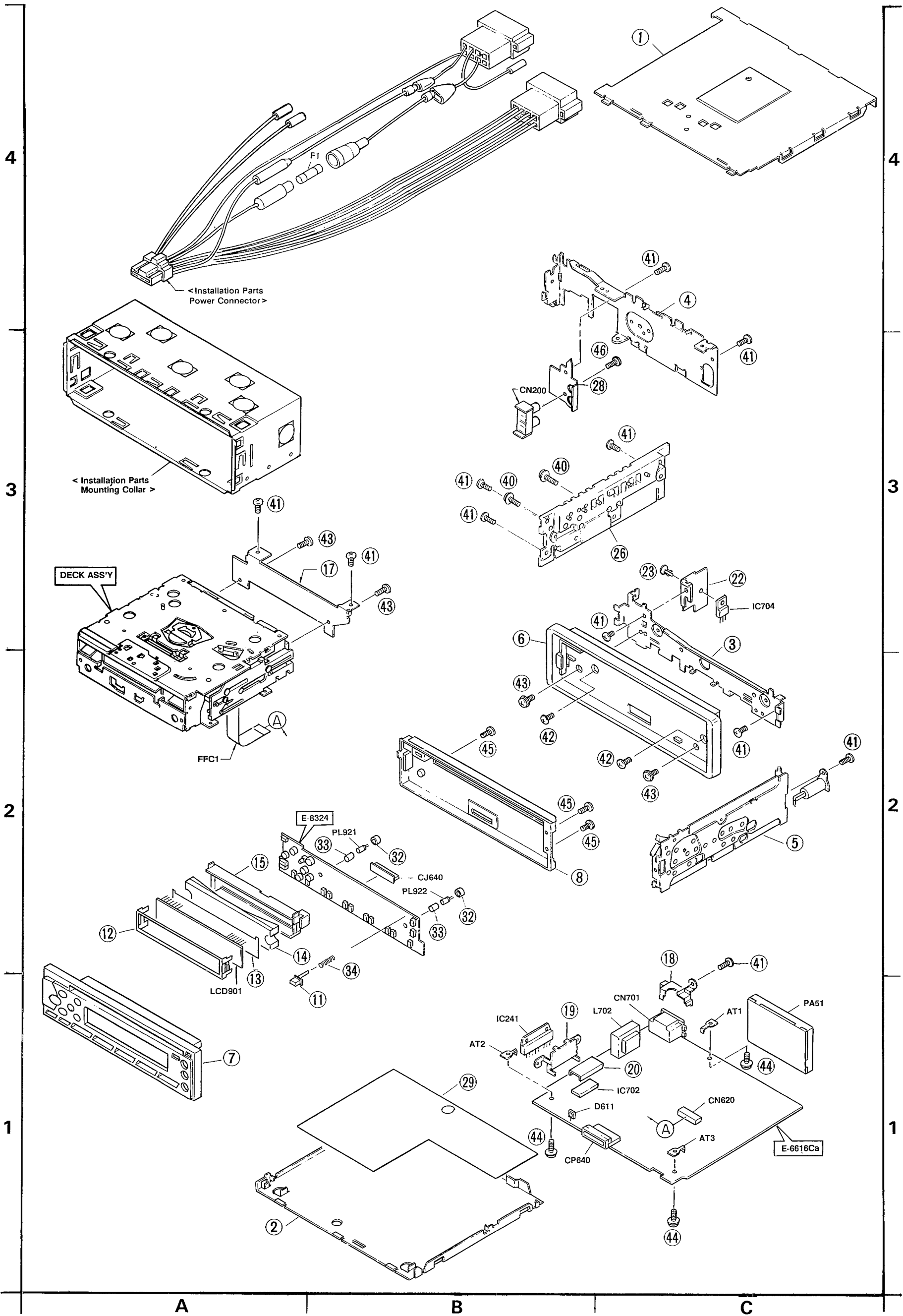
Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R710, 711	ERJ14YJ122H		Chip, 1.2k ohms 1/4W	2	
R712	ERJ14YJ1R0H		Chip, 1 ohm 1/4W	1	
R713	ERDS1FJ181		Carbon, 180 ohms 1/2W	1	
R714	ERJ8GEYJ102V		Chip, 1k ohms 1/8W	1	
R720, 721	ERJ14YJ122H		Chip, 1.2k ohms 1/4W	2	
DISPLAY BLOCK					
[E-8326A]					
R903 to 906	ERJ6GEYJ102		Chip, 1k ohms 1/10W	4	
R908	ERJ6GEYJ152		Chip, 1.5k ohms 1/10W	1	
R909	ERJ6GEYJ4R7		Chip, 4.7 ohms 1/10W	1	
R910	ERJ6GEYJ473		Chip, 47k ohms 1/10W	1	
R911	ERJ6GEYJ103		Chip, 10k ohms 1/10W	1	
R922, 923	ERJ6GEYJ270		Chip, 27 ohms 1/10W	2	
CONNECTORS					
MAIN BLOCK					
[E-6616C]					
CP1	YEAET14B100A		Connector, 14P	1	
CN200	YEAET02165		Connector, 2P RCA	1	
CN620	YEAET012669		Connector, 14P	1	
CN701	YEAET012194		Connector, 16P	1	
CP640	YEAET012475		Connector, 12P	1	
DISPLAY BLOCK					
[E-8326A]					
CJ640	YEAET012476		Connector, 12P	1	

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
SWITCHES					
SW902, 903	EVQPJH05K		Switch	2	
SW904	YEAS09287		Switch	1	
SW905	EVQPJH05K		Switch	1	
SW906 to 910	YEAS09287		Switch	5	
SW911 to 913	EVQPJH05K		Switch	3	
SW914 to 919	EVQPJX05M		Switch	6	
SW920 to 922	EVQPJH05K		Switch	3	
SW926	EVQPJH05K		Switch	1	
CRYSTALS					
XL601	YGXL49U0450T		Crystal OSC	1	
COILS					
L50	YELT02C330KT		Coil	1	
L601, 620	YELT02C101KT		Coil	2	
L702	YETQ026F147		Coil	1	
LCD					
LCD901	YEXDCM1200		LCD	1	
THERMISTORS					
PH720	YERT7AR4R7MT		Thermistor	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
PRINTING						14	(2-A)	YGFX0011740	Transparent Plate	1	
	YEFM282635		Operating Instructions	1		16	(2-A)	YGFK06748	Holder, LCD	1	
INSTALLATION PARTs						17	(3-A)	YEFX0213741	Bracket, Deck	1	
	YEAJ02736		Power Cord	1		18	(1-C)	YEFX0213649A	Bracket, CN701	1	
	YEFX9991721		Unlock Key	1		19	(1-B)	YEFX0213945B	Bracket, IC241	1	
	YGP9FZ2478		Screw Kit	1		20	(1-C)	YEFX0214168	Bracket, IC702	1	
	YEFA131290		Removable Face plate case	1		22	(3-C)	YEFX0214167	Bracket, IC704	1	
	YEFG04019		Rear Support Strap	1		23	(3-C)	YEFJ05030	Color Rivet	1	
	YEFX0214198		Mounting Collar	1		26	(3-C)	YEFF01832B	Heat Sink	1	
MISCELLANEOUS						28	(3-B)	YEFX0213673	Bracket, CN200	1	
F1 Δ	XBA1C100NS1		Fuse, 10A	1		29	(1-B)	YEFV011813	Insulator	1	
PL920, 921	YEAL01222		Pilot Lamp	2		32	(2-B)	YEFK04518	Holder	2	
PL922, 923	YEALHSJO002		Pilot Lamp	2		33	(2-B)	YEFR04333	Illumination Cap	2	
Z50	YEAL02007T		Neon Lamp	1		34	(2-B)	YEFX0052153	Spring	1	
ANT51	YGAA10082		Antenna Receptacle	1		40		YEJS06092	Screw, 3mm X 10mm	2	
AT1 to 3	YEAT03420		Terminal	3		41		XTB3+6FFX	Screw, 3mm X 6mm	10	
1 (4-C)	YEFA031359D		Upper Cover	1		42		YGJT03156	Screw, 2.6mm X 5mm	2	
2 (1-B)	YEFA05594B		Bottom Cover	1		43		XSB26+4FZ	Screw, 2.6mm X 4mm	4	
3 (2-C)	YEFA07395		Front Plate	1		44		YGJT03009	Screw, 3mm X 8mm	3	
4 (4-C)	YEFA08402BK		Rear Plate	1		45		XTN2+8GFZ	Screw, 2mm X 8mm	3	
5 (2-C)	YEFA09485A		Side Plate	1		46		XTB3+8GFX	Screw, 3mm X 8mm	1	
6 (2-C)	YGFC025261		Escutcheon Ass'y	1							
7 (1-A)	YGFC025246		Escutcheon Ass'y, detachable	1							
8 (2-B)	YEFA131281		Cove, Detachable	1							
11 (1-A)	YEFE134685		Button, RLSE	1							
12 (2-A)	YEFX0214173		Bracket, LCD	1							
13 (2-A)	YEFV021486		Optical Shade, LCD	1							

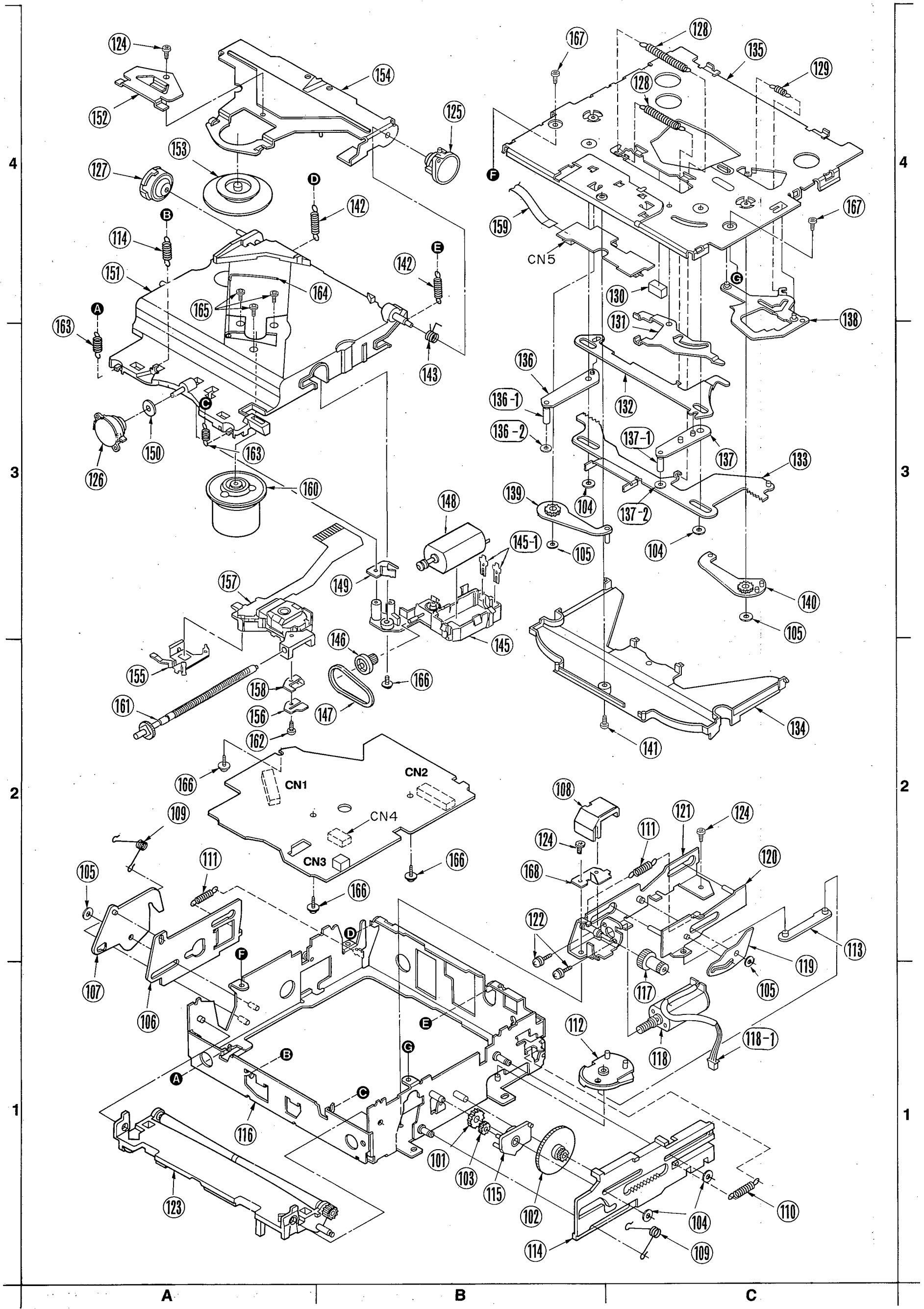
EXPLODED VIEW (UNIT)

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



EXPLODED VIEW (CD DECK)

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



Replacement Parts List

Model NO. CQ-DP800LEE

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.
- 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.
- 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.

5. "A" marks in remarks column are indicated supply parts of Audio Division (AD) in Matsushita Electric Industrial Co., Ltd. (MEI).

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CD PLAYER PARTS					RAJ1912 [96.7.31]
ICs & TRANSISTORS					
IC1	AN8835SBE1		IC	1	A
IC2	MN662741RPA		IC	1	A
IC3	AN8389SE1		IC	1	A
IC4	MB89123-306		IC	1	A
IC5, 6	TCA0372DM2R2		IC	2	A
Q1	2SB709S		Transistor	1	A
Q2	DTC144EKT96		Transistor	1	A
DIODE					
D1	MA141WATX		Diode	1	A
CAPACITORS					
C1	RCSX0JX226LE		Electrolytic, 22MFD 6.3WV	1	A
C2	ECUV1E104MBN		Ceramic, 0.1MFD 25WV	1	A
C3	ECEA0JKA101I		Electrolytic, 100MFD 6.3WV	1	
C4	ECUV1E104ZFN		Ceramic, 0.1MFD 25WV	1	A
C5	ECUV1E104MBN		Ceramic, 0.1MFD 25WV	1	A

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C6	ECUV1H272KBN		Ceramic, 0.0027MFD 50WV	1	A
C7	ECUV1E273MBN		Ceramic, 0.027MFD 25WV	1	A
C8	ECUV1H472MBN		Ceramic, 0.0047MFD 50WV	1	A
C9	ECUV1C473KBN		Ceramic, 0.047MFD 16WV	1	A
C10	ECUV1H222KBN		Ceramic, 0.0022MFD 50WV	1	A
C11, 12	ECUV1E104MBN		Ceramic, 0.1MFD 25WV	2	A
C13	ECUV1E104ZFN		Ceramic, 0.1MFD 25WV	1	A
C14	ECEA0JKA101I		Electrolytic, 100MFD 6.3WV	1	
C15	ECUV1H331KBN		Ceramic, 330PF 50WV	1	
C16	ECUV1H561KBN		Ceramic, 560PF 50WV	1	A
C17	ECUV1E104MBN		Ceramic, 0.1MFD 25WV	1	A
C18	ECUV1C474KBM		Ceramic, 0.47MFD 16WV	1	A
C19	ECEA0JKA101I		Electrolytic, 100MFD 6.3WV	1	
C20	ECUV1E104MBM		Ceramic, 0.1MFD 25WV	1	A
C21	ECUV1H070DCN		Ceramic, 7PF 50WV	1	A
C22	ECUV1H220JCN		Ceramic, 22PF 50WV	1	
C23	ECA0JM221I		Electrolytic, 220MFD 6.3WV	1	A
C24	ECUV1E104ZFN		Ceramic, 0.1MFD 25WV	1	A
C25, 26	ECUV1H102KBN		Ceramic, 0.001MFD 50WV	2	A
C27	ECUV1E104MBM		Ceramic, 0.1MFD 25WV	1	A
C30	ECUV1E223ZFN		Ceramic, 0.022MFD 25WV	1	A
C31	ECA0JM221I		Electrolytic, 220MFD 6.3WV	1	A
C34	ECEA1AKA221I		Electrolytic, 220MFD 10WV	1	
C35	ECUV1E104ZFN		Ceramic, 0.1MFD 25WV	1	A
C36	ECUV1E104MBM		Ceramic, 0.1MFD 25WV	1	A
C37	ECUV1E473KBN		Ceramic, 0.047MFD 25WV	1	A
C38	ECUV1E154MBM		Ceramic, 0.15MFD 25WV	1	A
C39	ECUV1H561KBN		Ceramic, 560PF 50WV	1	A
C42	ECUV1E273MBN		Ceramic, 0.027MFD 25WV	1	A
C43	ECUV1E104ZFN		Ceramic, 0.1MFD 25WV	1	A
C44	ECUV1E223KBN		Ceramic, 0.022MFD 25WV	1	A
C45, 46	ECUV1E104MBN		Ceramic, 0.1MFD 25WV	2	A
C47	ECUV1H222KBN		Ceramic, 0.0022MFD 50WV	1	A
C48	ECUV1H471KBN		Ceramic, 470PF 50WV	1	A

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks	Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C49 to 52	ECUV1E103MBN		Ceramic, 0.01MFD 25WV	4	A	R37	ERJ6GEYJ100		Chip, 10 ohms 0.1W	1	
C61	ECEA0JKA1011		Electrolytic, 100MFD 6.3WV	1		R38	ERJ6GEYJ150		Chip, 15 ohms 0.1W	1	
C62	ECUV1E223ZFN		Ceramic, 0.022MFD 25WV	1	A	R39, 40	ERJ6GEYJ473		Chip, 47k ohms 0.1W	2	
RESISTORS						R44	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R1	ERJ6GEYJ4R7		Chip, 4.7 ohms 0.1W	1		R45	ERJ6GEYJ155V		Chip, 1.5M ohms 0.1W	1	
R2	ERJ6GEYJ221		Chip, 220 ohms 0.1W	1		R48	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R3	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1		R49	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R4	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1		R50	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R5	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1		R51	ERJ6GEYJ4R7		Chip, 4.7 ohms 0.1W	1	
R6	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1		R53	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R7	ERJ6GEYJ184		Chip, 180k ohms 0.1W	1		R54, 55	ERJ6GEYJ103		Chip, 10k ohms 0.1W	2	
R8	ERJ6GEYJ224		Chip, 220k ohms 0.1W	1		R58	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R9	ERJ6GEYJ683		Chip, 68k ohms 0.1W	1		R59 to 63	ERJ6GEYJ473		Chip, 47k ohms 0.1W	5	
R10	ERJ6GEYJ330		Chip, 33 ohms 0.1W	1		R64 to 67	ERJ6GEYJ102		Chip, 1k ohms 0.1W	4	
R11	ERJ6GEYJ154		Chip, 150k ohms 0.1W	1		R68 to 72	ERJ6GEYJ473		Chip, 47k ohms 0.1W	5	
R12	ERJ6GEYJ471		Chip, 470 ohms 0.1W	1		R73	ERJ6GEYJ473		Chip, 47k ohms 0.13W	1	
R13	ERJ6GEYJ100		Chip, 10 ohms 0.1W	1		R74	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R14	ERJ6GEYJ121		Chip, 120 ohms 0.1W	1		R76	ERJ6GEYJ4R7		Chip, 4.7 ohms 0.1W	1	
R17, 18	ERJ6GEYJ220		Chip, 22 ohms 0.1W	2		OSCILLATORS					
R23	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1		X1	RSXC16M9S01T		Oscillator	1	A
R24	ERJ6GEYJ333		Chip, 33k ohms 0.1W	1		X2	RVCST4R00MT		Oscillator	1	A
R25	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	1		CONNECTORS					
R26	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1		CN1	RJS2A1816T		Connector, 16P	1	A
R27, 28	ERJ6GEYJ223		Chip, 22k ohms 0.1W	2		CN2	RJS1A7114T		Connector, 14P	1	A
R29	ERJ6GEYJ101		Chip, 100 ohms 0.1W	1		CN3	RJP2G28ZA		Connector, 2P	1	A
R30	ERJ8GEYJ103		Chip, 10k ohms 0.13W	1		CN4	RJS1A7105T		Connector, 5P	1	A
R31	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1							
R32	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1							
R34	ERJ6GEYJ393		Chip, 39k ohms 0.1W	1							
R35	ERJ6GEYJ4R7		Chip, 4.7 ohms 0.1W	1							
R36	ERJ6GEYJ101		Chip, 100 ohms 0.1W	1							

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
SWITCHE					
SW5	RSP1A018-A		Switch	1	A
MISCELLANEOUS					
101	(1-B) RDG0262		Gear	1	A
102	(1-B) RDG0266		Gear	1	A
103	(1-B) RDG0273		Gear	1	A
104	RHW27003		Washer	4	A
105	RHW27004		Washer	4	A
106	(2-A) RMA0755		Slide Plate (A)	1	A
107	(2-A) RMA0756		Lock Arm	1	A
108	(2-B) RMA0790-1		Cover	1	A
109	(2-A) (1-C) RMB0341-1		Spring	2	A
110	(1-C) RMB0343-1		Spring	1	A
111	(2-A) (2-C) RMB0368		Spring	2	A
112	(1-B) RML0324		Arm	1	A
113	(2-C) RMM0114		Rod	1	A
114	(1-C) RMR0724-W		Slide Plate	1	A
115	(1-B) RMR0754-W		Arm	1	A
116	(1-B) RXK0166		Main Chassis Ass' y	1	A
117	(1-C) RDG0261		Gear	1	A
118	(1-C) REM0048		Loading Motor Ass' y	1	A
118-1	(1-C) REE0559		Wire Ass' y	1	A
119	(2-C) RML0332		Lever	1	A
120	(2-C) RXA0142		Slide Plate (B)	1	A
121	(2-C) RXK0168		Loading Chassis Ass' y	1	A
122	(1-B) XYN2+C3		Screw	2	A
123	(1-A) RXL0109-2		Roller Ass' y	1	A
124	RMQ0467		Screw	3	A
125	(4-B) RMQ0349		Insulator (A)	1	A
126	(3-A) RMQ0348		Insulator (B)	1	A

Ref.No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
127	(4-A) RMQ0350		Insulator (C)	1	A
128	(4-C) RMB0342-2		Spring	2	A
129	(4-C) RMB0344		Spring	1	A
130	(4-C) RMG0348-K		Rubber	1	A
131	(3-C) RML0326-1		Lever	1	A
132	(3-C) RMM0115-1		Arm (A)	1	A
133	(3-C) RMM0116		Arm (B)	1	A
134	(2-C) RMR0726-W2		Disc Guide	1	A
135	(4-C) RXK0171-1		Chassis Ass' y	1	A
136	(3-B) RXL0113		Detector Lever (A)	1	A
136-1	(3-B) RDP0074		Roller	1	A
136-2	(3-B) RHW12016		Washer	1	A
137	(3-C) RXL0114		Detector Lever (B)	1	A
137-1	(3-C) RDP0074		Roller	1	A
137-2	(3-C) RHW12016		Washer	1	A
138	(4-C) RXL0115		Control Arm Ass' y	1	A
139	(3-B) RXL0116		Trigger Lever (A)	1	A
140	(3-C) RXL0117		Trigger Lever (B)	1	A
141	(2-C) RMQ0558		Screw	1	A
142	(4-B) RMB0338		Spring	2	A
143	(3-B) RMB0340-2		Spring	1	A
144	(4-A) RMB0348		Spring	1	A
145	(3-B) RXA0154		Motor Angle Ass' y	1	A
145-1	(3-B) RMA0934		Terminal	2	A
146	(2-B) RDP0086-1		Pulley	1	A
147	(2-B) RDV0045		Belt	1	A
148	(3-B) REM0059		Motor Ass' y	1	A
149	(3-B) RMC0295		Spring	1	A
150	(3-A) RMQ0494		Sheet	1	A
151	(3-A) RXK0193		Chassis Ass' y	1	A
152	(4-A) RMA0757		Fixer	1	A
153	(4-A) RMR0725-W		Disc Holder	1	A
154	(4-A) RXL0112-1		Clamper Arm Ass' y	1	A
155	(2-A) RMC0294		Spring Plate	1	A

