

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS



CQ-DFX700U

CQ-DF800U

CQ-DFX700U

Removable Full Front High Power CD
Player / Receiver with Changer Control

Specifications*

General

Power Supply	12V DC (11V-16V), test voltage 14.4V, negative ground
Maximum Power Output	47W×4ch, at 400Hz, Vol. MAX (CQ-DF800U) 45W×4ch, at 400Hz, Vol. MAX (CQ-DFX700U)
Maximum Power Output (Center Speaker)	5W (CQ-DF800U only)
Tone Adjustment Range	Bass; ±12 dB at 100Hz Treble; ±12 dB at 10kHz
Pre-Amp Output Voltage	5.0V (CD play mode; 1kHz 0 dB)
Sub-Woofer Output Voltage	5.0V (CD play mode; 1kHz 0 dB)
Output Impedance	60Ω
Current Consumption	Less than 2.2A (CD play mode; 0.5W×4)

AM Radio

Frequency Range	530-1,710kHz
Usable Sensitivity	28dB/μV (25μV, S/N 20 dB)

FM Stereo Radio

Frequency Range	87.9-107.9MHz
Usable Sensitivity	11.0 dBf. (1.25μV, 75Ω)
50dB Quietening Sensitivity	15.2 dBf. (1.6μV, 75Ω)
Frequency Response	30-15,000Hz ±3 dB
Alternate Channel Selectivity	75 dB

Stereo Separation	42dB at 1,000Hz
Image Response Ratio	75 dB
IF Response Ratio	100 dB
Signal/Noise Ratio	70 dB
CD Player	
Sampling Frequency	32 times over sampling
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	780nm
Frequency Response	20Hz-10,000Hz, ±1 dB
Signal/Noise Ratio	96 dB
Total Harmonic Distortion	0.01% (1,000Hz)
Wow and Flutter	Below measurable limits
Channel Separation	75 dB

Dimensions** (W×H×D)	7"×1-15/16"×5-7/8 (178×50×150 mm)
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Weight**	3 lbs. 5 oz (1.5kg)
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* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

● Above specifications comply with EIA standards.

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⚠ WARNING

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

IMPORTANT SAFETY NOTICE

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

CONTENTS

	Page		Page
1 FEATURES	2	10 TERMINALS DESCRIPTION	15
2 REPLACING THE FUSE	2	11 PACKAGE AND IC BLOCK DIAGRAM	17
3 MAINTENANCE	2	12 Replacement Parts List	21
4 RADIO AND CD DECK ALIGNMENT	2	13 EXPLODED VIEW (Unit)	26
5 DIMENSIONS	2	14 CD Player Parts	27
6 OPERATING INSTRUCTIONS	3	15 EXPLODED VIEW (CD Deck)	29
7 WIRING CONNECTION	12	16 Packing Parts List	30
8 BLOCK DIAGRAM (CQ-DF800U)	13	17 WIRING DIAGRAM	31
9 BLOCK DIAGRAM (CQ-DFX700U)	14	18 SCHEMATIC DIAGRAM	36

1 FEATURES

- 32-times oversampling MASH 1bit 4-DAC system.
- Digital servo for reliable playback.
- PLL (Phase Locked Loop) synthesized tuning.
- 18FM, 6-AM presets with preset scan.
- 47W×4ch Power Output (CQ-DF800U)
- 5W Center Speaker Power Output (CQ-DF800U)
- 45W×4ch Power Output (CQ-DFX700U)

2 REPLACING THE FUSE

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

3 MAINTENANCE

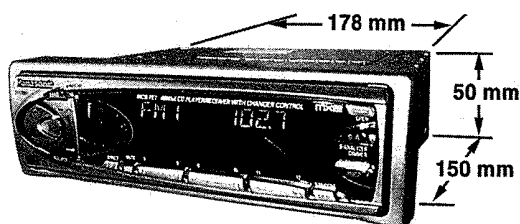
Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvent.

4 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.

5 DIMENSIONS

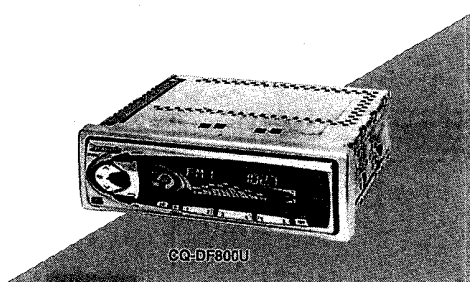
6 OPERATING INSTRUCTIONS

Panasonic

Removable Full Front High-Power CD Player/Receiver with Changer Control
Récepteur/lecteur CD à puissance élevée avec commande de changeur CD et panneau avant amovible

CQ-DF800/DFX700U

Operating Instructions
Manuel d'utilisation



Please read these instructions carefully before using this product and save this manual for future use.
Il est recommandé de lire attentivement ce manuel avant d'utiliser l'appareil et le conserver pour référence ultérieure.

Panasonic welcomes you to our ever growing family of electronic product owners. We know that this product will bring you many hours of enjoyment. Our reputation is built on precise electronic and mechanical engineering, and our products are manufactured with carefully selected components and assembled by people who take pride in their work. Once you discover the quality, reliability, and value we have built into this product, you too will be proud to be a member of our family.

Use This Product Safely

When Driving

Keep the volume level low enough to be aware of road and traffic conditions.

When Car Washing

Do not expose the product, including its speakers and CDs, to water or excessive moisture. This could cause electrical shorts, fire or other damage.

When Parked

Parking in direct sunlight can produce very high temperatures inside your car. Give the interior a chance to cool down before switching the unit on.

Use the Proper Power Supply

This product is designed to operate of a 12 volt, negative ground battery system (the regular system in a North American car).

Protect the Compact Disc Mechanism

Avoid inserting any foreign objects into the slot of the compact disc player. Failure to observe this may cause malfunction due to the precise mechanism of this unit.

Use Authorized Servicenters

Do not attempt to disassemble or adjust this precision product. Please refer to the Servicenter list included with this product for service assistance.

For Installation

The unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

Note:

This operating instruction manual is for 2 models, CQ-DF800U and DFX700U. All the illustrations throughout this manual show model CQ-DF800U unless otherwise specified. The following table describes the differences between the 2 models.

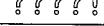
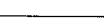
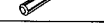
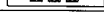
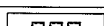
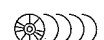
Features	Models	CQ-DF800U	CQ-DFX700U
Max. Output Power		47 Wx4ch	45 Wx4ch
Center Speaker Max. Output Power		5 W	None
3-DSB		4 Speakers+Center Speaker	4 Speakers

Find the model number and serial number on either the back or bottom of the unit. Please record them in the spaces below and retain this booklet as a permanent record of your purchase to help with identification in case of theft.

MODEL NUMBER CQ-DF800/DFX700U SERIAL NUMBER _____
DATE PURCHASED _____ FROM _____

Contents

Use This Product Safely	Page 2
Part 15 of the FCC Rules	6
Laser Products	6
Power and Sound Controls	7
How to adjust the volume, mute, 3-DSB, tone and balance	
Radio Basics	11
Manual and automatic tuning, band selection, preset stations	
Compact Disc Player Basics	13
Loading/ejecting a disc, CD play, track selection, search, repeat, random, scan and direct selection	
CD Changer Basics	15
Disc/track selection, search, repeat, random and scan	
Note: The CD changer functions work for a product equipped with the optional CD changer unit (optional).	
Auxiliary Source	17
Selecting the auxiliary source	
Disc Title Input	19
Characters and disc title input, title display	
Clock Basics	22
Setting/resetting the time, selecting the clock display	
Remote Control Unit Basics	23
Battery installation, main controls and how to operate them	
Installation Guide	26
Step-by-step procedures, anti-theft system	
Electrical Connections	33
Caution and cable wiring diagram	
Troubleshooting	34
Where to get service help, error display messages, troubleshooting tips	
Disc Notes	36
Handling and cleaning discs, preparing new discs with rough spots	
Specifications	37



CQ-DF800/DFX700U

3

Part 15 of the FCC Rules

This unit has been manufactured under the part 15 of the FCC Rules. Do not attempt to make any changes or modifications to this unit.

Laser Products (The standard described on this page is for U.S.A. only.)

Caution:

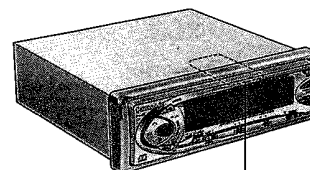
This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser products:

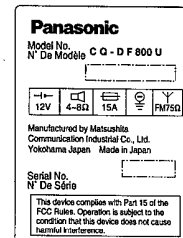
Wave length: 780 nm

Laser Power: No hazardous radiation is emitted with safety protection.

Label Indication and location



Identification Label



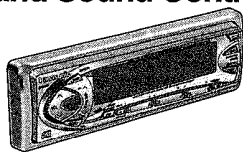
6

CQ-DF800/DFX700U

2

CQ-DF800/DFX700U

Power and Sound Controls



Power

Turn the key in the ignition until the accessory indicator lights. Press [SOURCE]([PWR]) to switch on the power. Press and hold [SOURCE]([PWR]) again for more than 1 second to switch off the power.

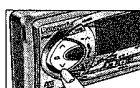


When the power is turned off while the time is displayed, the clock mode remains on. When [DISP] is pressed, the system is turned off completely.

Note:

When the power is switched on for the first time, a demonstration appears on the display. To cancel this display, press [DISP].

When a CD is inserted with all the power connections performed, the unit power will be automatically turned on, CD loading begins and the CD is played.



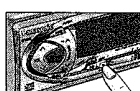
Volume

Press [^ VOL] or [v VOL] to increase or decrease the volume.

• Press [^ VOL] or [v VOL] to increase or decrease the volume.

VOL 20 Volume Level (0 to 40)

• Press [^ VOL] or [v VOL] to change the numeric level in sequence.



Mute

Press [MUTE] to mute the sound completely. When MUTE is on, "MUTE" indicator will light, and "MUTE" will blink on the display.

• Press [MUTE] to mute the sound completely. When MUTE is on, "MUTE" indicator will light, and "MUTE" will blink on the display.

• Press [MUTE] again to cancel.

Note: This unit is equipped with an anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened by sudden loud volume level. This system operates as follows. When [SOURCE]([PWR]) is first pressed to switch the unit on, the volume level is low. After that, the volume level will gradually return to the same level as the one before the power was turned off last time. The anti-volume-blast circuit will not work when the volume level is set lower than position 20 on the display.

CQ-DF800/DFX700U

7



Audio Mode

Press [SEL] to change the audio mode setting as follows.

Regular Mode → VOLUME → BASS → TREBLE → BALANCE
SUB-W: Sub Woofer SUB-W: FADER



Bass and Treble

Press [SEL] to change to the bass (or treble) mode. Press [^ VOL] or [v VOL] to increase or decrease the bass (or treble) level.

BAS+ 3dB TRE- 3dB
-12 to +12 -12 to +12



Balance

Press [SEL] to change to the balance mode.

Press [^ VOL] or [v VOL] to shift the sound volume to the left (L) or right (R) speakers.

BAL L 2 BAL CNT
or R 1 to 15 Balance Center

Fader

Press [SEL] to change to the fader mode.

Press [^ VOL] or [v VOL] to shift the sound volume to the front (F) or rear (R) speakers.

FAD F 3 FAD CNT
or R 1 to 15 Fader Center

Note: If no operation is performed in the audio mode for 5 seconds (or 2 seconds in the VOL mode), the display will return from the audio mode (BAS/TRE/BAL/FAD/SUB) to the regular operation mode.

CQ-DF800/DFX700U

9

Power and Sound Controls (continued)

3•DSB System

It is a new sound system combining 3-dimensional sound from two front speakers with rear channel super bass when receiving stereo broadcast. 3•DSB also gives you a sound with Virtual Stereo Effect from 4ch speakers when receiving AM monaural broadcast or FM broadcast in the monaural mode. The 3•DSB employs Spatializer® ICs of Desper Products, Inc.

Loudness Control

It is a sound system to enhance bass and treble tones when listening at low or medium volume.



3•DSB (3-Dimensional Surround and Super Bass)

3•DSB and Loudness Control (LOUD) Combination
Press [3•D] to change the combination of the 3•DSB and loudness as follows.

3•DSB OFF → 3•DSB ON → 3•DSB OFF
LOUD OFF LOUD OFF LOUD ON



3•DSB Effect Level

• Press and hold [3•D] for more than 3 seconds when 3•DSB is on: the 3•DSB effect level can be adjusted (except during radio mode using the Virtual Stereo Effect).

• Press [^ VOL] or [v VOL] to select one of the 10 volume levels (0 to 9).

3•DSB Center Speaker Volume
(Option for CQ-DF800U only)

• Press and hold [3•D] until "EFFECT" appears on the display when 3•DSB is on (except during radio mode using the Virtual Stereo Effect).

• Press [^ TUNE] or [v TUNE] to change to the volume adjustment mode for center speaker.

3•DSB EFFECT → CENTER SP VOL

• Press [^ VOL] or [v VOL] to select one of 8 levels (0 to 7) for the center speaker volume.

Notes:

• The spread of sound produced by the conventional 3•DSB can be further increased by using the optional center speaker.

• The center speaker sounds only when the 3•DSB is turned on (except in Virtual Stereo Effect mode).

8

CQ-DF800/DFX700U

Power and Sound Controls (continued)



Sub-Woofer Volume

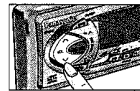
Press [SEL] to change to the sub-woofer volume mode. Press [^ VOL] or [v VOL] to increase or decrease the sub-woofer volume.

Cut-off frequency control

The maximum lower frequency level can be adjusted to match your sub-woofer and the acoustics inside your car.

When the sub-woofer is activated, press [^ TUNE] or [v TUNE] to change the cut-off frequency as follows.

120 → 80 (Hz) (default: 80 Hz)
Cut-off frequency



SUBW-4 120

Sub-woofer volume level: MUTE (0) to 8

SUBW MUTE

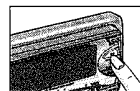
Display Controls



Dimmer

Press and hold [S-A](DIMMER) for more than 2 seconds to change the dimmer level from one level to another through the cycle of 3 levels as follows. (Default: Dimmer 1)

Dimmer 1 → Dimmer 2 → Dimmer 3
(Bright) (Medium) (Dark)



Spectrum Analyzer Display Switching

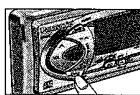
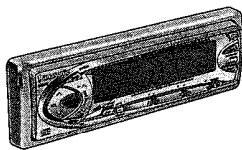
Press [S-A](S-ANALYZER) to change the spectrum analyzer setting from one spectrum analyzer to another through the cycle of 6 kinds mode.

You can select your favorite display.

10

CQ-DF800/DFX700U

Radio Basics



Tuner Mode

Press [SOURCE] to change the operation mode setting as follows.

Tuner → CD player → CD changer control
(When a disc is inserted) (When a CD changer is connected)
← AUX →



Band

Press [BAND] to change the band setting as follows.

FM1 → FM2 → FM3 → AM

*"ST" indicator lights during reception of a FM stereo broadcast.



Manual Tuning

Press [▲ TUNE] or [▼ TUNE] to tune in a higher or lower frequency.



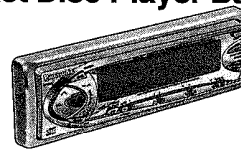
Seek Tuning

Press and hold [▲ TUNE] or [▼ TUNE] for more than 0.5 seconds, then release it. Tuning will automatically stop when the signals of the next broadcast station are received.

CQ-DF800U / CQ-DFX700U

11

Compact Disc Player Basics



Loading a Disc

- ① Press [OPEN] to open the front panel.
- ② Insert a disc with its label side facing up.

After the disc is inserted, close the front panel manually.

Notes:

- The mute is automatically turned on when a disc is inserted and the CD mode is selected.
- The mute is automatically turned off when the front panel is closed.



Ejecting a Disc

- ① Press [OPEN] to open the front panel.
- ② Press [▲] to eject the disc. After the disc is removed, close the front panel manually. The previous operation mode will resume.

Note: Always remove the disc from the unit when the CD player is not being used.



Starting CD Play

Press [SOURCE] to change to the CD play mode as follows, after a disc has been inserted. Play will start automatically.

Tuner → CD player → CD changer control
(When a disc is inserted) (When a CD changer is connected)
← AUX →



Track Selection

- Press [▶▶ TRACK] to advance to the next track.
- Press [◀◀ TRACK] to start play from the beginning of the track now playing.
- Press [▶▶ TRACK] or [◀◀ TRACK] repeatedly to skip the desired number of tracks.

CQ-DF800U / CQ-DFX700U

13

Radio Basics (continued)



MONO/LOCAL Selection

- At the MONO setting, the amount of interference heard when weak signals are received from an FM broadcast station is significantly decreased.
- At the LOCAL setting, only strong signals of stations are searched in seek tuning, while at the LOCAL OFF setting, relatively weak signals are also searched.

① FM broadcast

Press and hold [MONO/LOC] in the tuner mode for more than 2 seconds to switch between the MONO and LOCAL modes. Each time [MONO/LOC] is pressed, the display changes as follows.

MONO OFF/LOCAL OFF → MONO ON/LOCAL ON

MONO OFF/LOCAL ON ← MONO ON/LOCAL ON

② AM broadcast

Press and hold [MONO/LOC] for more than 2 seconds to change the local mode as follows.

LOCAL OFF → LOCAL ON



Station Preset

FM1, FM2, FM3 and AM can save a maximum 6 stations each in their preset station memories.

Manual Station Preset

- ① Press [BAND] to select a desired band.
- ② Use manual or seek tuning to find a station which is to be preset in the memory.
- ③ Press and hold one of the preset buttons [1] to [6] for more than 2 seconds until the display blinks.



Preset number

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



Tuning in a Preset Station

Press the corresponding preset button [1] to [6] to tune in a preset station.



Auto Station Preset

Select the band, press and hold [BAND](APM) for more than 2 seconds (Auto Preset Memory).

- The 6 strongest available stations will be automatically saved in the memory on preset buttons [1] to [6].
- Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press the corresponding preset button for the broadcast you want to listen to.

Caution: Do not touch the preset buttons while the car stereo is operating.

CQ-DF800U / CQ-DFX700U

12

Compact Disc Player Basics (continued)



Track Search

- Press and hold [▶▶ TRACK] or [◀◀ TRACK] for more than 0.5 seconds to advance or reverse through a track.
- Release [▶▶ TRACK] or [◀◀ TRACK] to resume regular CD play.

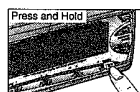


Track Repeat

Press [REP] to repeat the current track.



Press [REP] again to cancel.

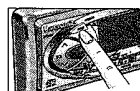


Random Selection

Press and hold [REP](RANDOM) for more than 2 seconds. All the available tracks will be played in a random sequence.



Press and hold [REP](RANDOM) for more than 2 seconds again to cancel.

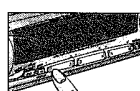


Track Scan

Press [BAND](SCAN). The display blinks, and the first 10 seconds of each track on the CD are played in sequence.



Press [BAND](SCAN) again to cancel.



Direct Selection by Track Number

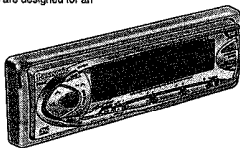
- Press a track number button from [1] to [6]. The corresponding track starts playing.
- Press and hold a track number button from [7] to [12] ([1] to [6]) for more than 1 second. The corresponding track starts playing.

CQ-DF800U / CQ-DFX700U

14

CD Changer Basics

Note:
The CD changer functions are designed for an optional CD changer unit.



ENGLISH
9



Starting the CD Changer

Once the CD changer has been connected, press [SOURCE] to change to the CD changer mode as follows. When a disc magazine is inserted, CD play starts automatically.

Tuner → CD player → CD changer control
(When a disc is inserted) (When a CD changer is connected)
AUX ←



Direct Disc Selection

- Press a disc number button from [1] to [6]. The corresponding disc starts playing.
- Press and hold a disc number button from [7] to [12] ([1] to [6]) for more than 1 second. The corresponding disc starts playing.

Note:
The number of discs you can load the CD changer with is specific to each model.



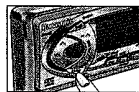
Track Selection

- Press [▶▶ TRACK] to advance to the next track.
- Press [◀◀ TRACK] to start play from the beginning of the track now playing.
- Press [▶▶ TRACK] or [◀◀ TRACK] repeatedly to skip the desired number of tracks.

CQ-DF800/DFX700U

15

Auxiliary Source



Selecting the Auxiliary Source

Press [SOURCE] to change to the AUX input mode.

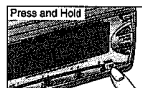
AUX IN

Canceling the AUX Input Mode

Press [SOURCE] in the AUX mode to resume the tuner mode. Alternatively, insert a CD to change to the CD mode.

ENGLISH
11

CD Changer Basics (continued)



Track Search

- Press and hold [▶▶ TRACK] or [◀◀ TRACK] for more than 0.5 seconds to advance or reverse through a track.
- Release [▶▶ TRACK] or [◀◀ TRACK] to resume regular CD changer play from the released position.

Track Repeat

Press [REP] to repeat the current track.
Press [REP] again to cancel.

Random Selection

Press and hold [REP](RANDOM) for more than 2 seconds. All the available tracks will be played in a random sequence.
Press and hold [REP](RANDOM) for more than 2 seconds to cancel.
When [REP] is pressed in the random mode, random play stops and repeat play resumes.

Track Scan

Press [BAND](SCAN). The display blinks, and the first 10 seconds of each track on the discs play in sequence.
Press [BAND](SCAN) again to cancel.

Disc Scan

Press and hold [BAND](SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.
Press and hold [BAND](SCAN) for more than 2 seconds again to cancel.

Changing the Display

Press [DISP] to change the display setting as follows.

Disc/Track Number/Track Play Time → CLOCK
← Title Mode

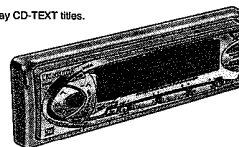
Note: You cannot change the current display while the CD player or CD changer is set to the scan play mode.

16

CQ-DF800/DFX700U

Disc Title Input

This feature can be used in both the CD player and CD changer modes.
• Using this function, you can provide a disc with your favorite title.
(Maximum 25 discs)
• This unit cannot display CD-TEXT titles.



The feature makes it possible to input titles up to 8 characters into the unit memory to indicate the CD artists, album title, etc. The title will automatically appear when the CD is next played until it is changed.



For Input Characters

- A character can be input into the blank space where the " " blinks on the display.
Disc No.
(Only for CD changer)

• The following characters can be input for titles.

→	A B C D E F G H I J K L M N
→	O P Q R S T U V W X Y Z
→	0 1 2 3 4 5 6 7 8 9
→	/ # + , - . ! : _ (blank space)

Press [^] or [v] to select each of the characters in turn in ascending or descending order.

18

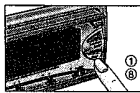
CQ-DF800/DFX700U



Disc Title Input

One title per disc for up to 25 discs can be input and stored in the unit memory.

Press [SOURCE] to change to the CD player or CD changer mode. Play the disc whose title is to be input.



Only for CD changer control

① Press [DISP] to change to the title mode for the disc now playing as follows.

Disc/Track Number/Track Play Time → CLOCK → Title Mode

② Press and hold [DISP](TITLE) for more than 2 seconds to change to the disc mode. The disc No. starts blinking.

③ Press [▲ TUNE] or [▼ TUNE] to select the disc whose title is to be input, while the disc No. is blinking.

④ Press [BAND] to set the selected disc.

⑤ Press and hold [DISP](TITLE) for more than 2 seconds and confirm that the disc No. starts blinking again.

⑥ Press and hold [DISP](TITLE) for more than 2 seconds again to change to the title input mode, while the disc No. is blinking.

⑦ "*****" appears on the display, and the 1st " " blinks.

⑧ Press [▲ TUNE] or [▼ TUNE] to select a character.

⑨ Press [DISP](TITLE) to initiate the selection of the next character. The next " " starts blinking.

⑩ Repeat steps ⑧ and ⑨ for each of the remaining characters in the title.

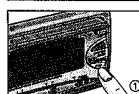
⑪ Once all of the characters have been selected, press and hold [DISP](TITLE) for more than 2 seconds until the display starts blinking to store the title in the memory. The unit returns to the title mode, and the title remains on the display.

MYDISC02 2

Caution: Do not touch the disc while the disc is spinning.

CQ-DF800U / CQ-DFX700U

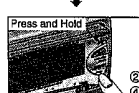
19



Clearing Disc Title

Once 25 titles have been stored, the memory is full. You must clear old titles by following the procedure below to make room for new titles.

FULL



① Press [DISP] to change to the title mode for the disc now playing. Select the disc, if necessary, by following steps ② to ④ on page 19, when the CD changer is connected.

② Press and hold [DISP](TITLE) for more than 2 seconds. The display will change as follows.

"FULL" (lights for 3 seconds)

"1st title"



③ Press [▲ TUNE] or [▼ TUNE] to select the disc whose title is to be replaced.

④ When you find the title, clear it by pressing and holding [DISP](TITLE) for more than 2 seconds.

⑤ Change the title by following steps for Disc Title Input on pages 19 and 20.

Disc Title Input (continued)

Only for CD player

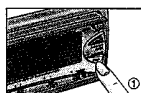
① Press [DISP] to change to the title mode for the disc now playing as follows.

Track Number/Track Play Time → CLOCK → Title Mode

② "*****" appears if no title has been input.

③ Press and hold [DISP](TITLE) for more than 2 seconds again to change to the title input mode. " " appears on the display, and the 1st " " blinks.

④ Repeat steps ③ to ⑩ for the CD changer control on page 19 to input each of the remaining characters in the title.



Disc Title Display

A CD with a title can be recalled by its title and played during regular CD play.

Only for CD changer control

① Press [DISP] to change to the title mode for the disc now playing as follows.

Disc/Track Number/Track Play Time → CLOCK → Title Mode

② Press and hold [DISP](TITLE) for more than 2 seconds to change to the disc mode. The disc No. starts blinking.

③ Press [▲ TUNE] or [▼ TUNE] to recall the title of the other disc stored in the memory, while the disc No. is blinking.

④ Press [BAND] to start playing the CD whose title is shown on the display, while the disc No. is blinking.

⑤ Press [DISP] to return the display to regular CD play.



MYDISC02 2



MYDISC02 2



MYDISC03 3



MYDISC03 3

Only for CD player

Press [DISP] to change to the title mode for the disc now playing as follows.

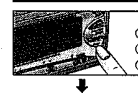
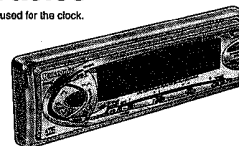
Track Number/Track Play Time → CLOCK → Title Mode

20

CQ-DF800U / CQ-DFX700U

Clock Basics

The 12-hour system is used for the clock.



Initial Time

① Press [DISP](CLOCK).

"ADJUST" appears on the display.

② Press and hold [DISP](CLOCK) again for more than 2 seconds. "12" blinks, and the time setting mode is activated.

③ Press [▼ TUNE] or [▲ TUNE] to set the hour.

④ Press [DISP](CLOCK) again to proceed with the minutes setting.

⑤ Press [▼ TUNE] or [▲ TUNE] to set the minute.

Press [▼ TUNE] or [▲ TUNE] for more than 0.5 seconds to change numbers on the display in sequence.

⑥ Once the time has been set, press [DISP](CLOCK).

Note: The [DISP](CLOCK) button will not work while the CD player or CD changer is set to the scan play mode. Cancel the scan play mode before pressing [DISP](CLOCK).

Time Reset

Press and hold [DISP](CLOCK) for more than 2 seconds to activate the time setting mode to reset the time. Then, repeat steps ③ to ⑥ above.

Time Reset

Press and hold [DISP](CLOCK) for more than 2 seconds to activate the time setting mode to reset the time. Then, repeat steps ③ to ⑥ above.

Clock Display

Press [DISP](CLOCK) to change to the clock display as follows.

In Tuner Mode Current frequency → Clock
In CD Mode (CD changer) Playing time → Clock → Title
In AUX Mode "AUX IN" → Clock

When the power is turned off while the time is displayed, the clock mode remains on. When [DISP] is pressed, the system is turned off completely.

Note: The power must be switched off before leaving the car if it does not have an accessory (ACC) off position.

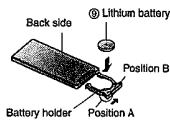
22

CQ-DF800U / CQ-DFX700U

Remote Control Unit Basics

Battery Installation

1. Remove the battery holder. Take hold of the holder at position B and pull it out to remove the battery by pushing position A in the direction shown by the arrow.
2. Install the battery. Set a new battery properly with its (+) side facing up as shown in the figure.
3. Insert the battery holder. Push the battery holder back into its original position.



Battery Notes

Remove and dispose of an old battery immediately.

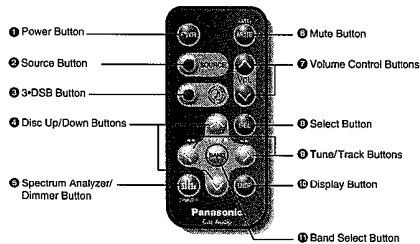
Battery Information:

- Battery type: Panasonic lithium battery (CR2025)
- Battery life: 6 months with normal use (at room temperature)

Caution:
Improper use of the battery may result in overheating, an explosion, or a fire. Do not use the battery in a fire, or near a flame. Do not touch the battery terminals with your fingers. Do not use the battery in a fire, or near a flame. Do not touch the battery terminals with your fingers. Do not use the battery in a fire, or near a flame. Do not touch the battery terminals with your fingers.

- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries out of the reach of children to avoid the risk of accidents.
- Be careful to the local disposal rules when you dispose of batteries.

Main Controls



CQ-DF800/DFX700U

23

Radio

Selecting a Band

- ① BAND (Band Select Button)
Press [BAND] to change the band setting as follows.
FM1 → FM2 → FM3 → AM

Manual Tuning

- ② <> (Manual Tuning Buttons)
Press [>] or [<] to tune in a higher or lower frequency.

Seek Tuning

- ③ <> (Seek Tuning Buttons)
Press and hold [>] or [<] for more than 0.5 seconds, then release it. Tuning will automatically stop when the signals of the next broadcast station are received.

"MONO/LOCAL Selection" and "Auto Station Preset" can be used by the remote control unit. (→ Page 12)

Compact Disc Player/CD Changer Control

(When a disc is inserted, play starts.)

Starting CD Play

- ④ SOURCE (Source Button)
• Press [SOURCE] to change to the CD play mode after a disc has been inserted. Play will start automatically.
- When the unit is connected with the CD changer, press [SOURCE] repeatedly to change the mode setting as follows.
Tuner → CD player → (CD changer control) → AUX

Disc Selection

- (Only for CD changer control)
⑤ ^ v (Disc Up/Down Buttons)
(When the CD changer is connected)
Press [^] or [v] to change the discs in ascending or descending order.

Track Selection

- ⑥ >> <<< (Track Select Buttons)
• Press [>>] to advance to the next track.
- Press [<<<] to play from the beginning of the track now playing.
- Press [>>] or [<<<] repeatedly to skip the desired number of tracks.

Track Search

- ⑦ >>> <<<< (Track Search Buttons)
• Press and hold [>>>] or [<<<<] for more than 0.5 seconds to advance or reverse through a track.
- Release [>>>] or [<<<<] to stop the rapid advance or rapid reverse.

"Disc Title Input" can be used by the remote control unit. (→ Page 18–21)

CQ-DF800/DFX700U

25

Remote Control Unit Basics (continued)

How to Operate the Controls

Point the remote control unit at the main unit's sensor (REMOTE).

General

Power

- ⑧ PWR (Power Button)
Press [PWR] to switch on the power. Press [PWR] again to switch off the power.

Mode Selection

- ⑨ SOURCE (Source Button)
Press [SOURCE] to change the operation mode setting as follows.
Tuner → CD player → (CD changer control) → AUX

3-DSB

- ⑩ 3-DSB Button
Press [3] to change the combination of the 3-DSB and Loudness as follows.
3-DSB OFF ... 3-DSB ON ... 3-DSB OFF ... 3-DSB ON ...
LOUD OFF ... LOUD OFF ... LOUD OFF ... LOUD OFF ...
(→ Page 8)

Display Controls

Dimmer

- ⑪ DIMMER (Dimmer Button)
Press and hold [DIMMER] for more than 2 seconds to change the dimmer level from one level to another through the cycle of 3 levels as follows.
Dimmer 1 → Dimmer 2 → Dimmer 3
(Bright) (Medium) (Dark)

Spectrum Analyzer Display Switching

- ⑫ SPEANA (Spectrum Analyzer Button)
Press [SPEANA] to change the spectrum analyzer setting from one spectrum analyzer to another through the cycle of 6 kinds mode.

Mute

- ⑬ MUTE (Mute Button)
• Press [MUTE] to mute the sound completely.
- Press [MUTE] again to cancel.

Volume

- ⑭ ^ v VOL (Volume Control Buttons)
Press [^ VOL] or [v VOL] to increase or decrease the volume level.

Audio Mode

- ⑮ SEL (Select Button)
Press [SEL] to change the audio mode setting as follows.
Regular mode → VOLUME → BASS → TREBLE
SUB-W → FADER → BALANCE

Changing the Display

- ⑯ DISP (Display Button)
Press [DISP] to change the display setting as follows.
In Tuner Mode: Current frequency → Clock
In CD Mode: (Disc No.) → Clock → Title
Track No. / Track Play Time
(* When a CD changer is connected)
In AUX Mode: "AUX IN" → Clock
Refer to the operating instructions for the main unit for more details.

CQ-DF800/DFX700U

24

Installation Guide

WARNING

The installation information is designed for experienced installers and is not intended for non-technical individuals. It does not contain warnings or cautions of the potential dangers involved in attempting to install this product.

Any attempt to install this product in a motor car by anyone other than a qualified installer could cause damage to the electrical system and could result in serious personal injury or death.

Overview

This product should be installed by a professional. However, if you plan to install this unit yourself, your first step is to decide where to install it. The instructions in these pages will guide you through the remaining steps: (Please refer to the "WARNING" statement above).

- Identify and label the car wires.
- Connect the car wires to the wires of the power connector.
- Install the unit in the dash.
- Check the operation of the unit.

If you encounter problems, please consult your nearest professional installer.

Caution: This unit operates with a 12 volt DC negative ground auto battery system only. Do not attempt to use it in any other system. Doing so could cause serious damage.

Before you begin installation, look for the items on the right which are packed with your unit.

- Warranty Card... Fill this out promptly.
- Panasonic Service Center for Service Directory... Keep for future reference in case the unit needs servicing.
- Installation Hardware... Needed for in-dash installation.

Installation Hardware

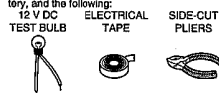
No.	Part Name	Quantity
①	Mounting Collar	1
②	Hex. Nut (5 mmφ)	1
③	Rear Support Strap	1
④	Tapping Screw (5 mmφ×16 mm)	1
⑤	Mounting Bolt (5 mmφ)	1
⑥	Power Connector	1
⑦	Removable Face Plate Case	1
⑧	Remote Control Unit	1
⑨	Lithium Battery	1
⑩	Trim Plate	1

CQ-DF800/DFX700U

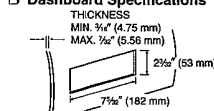
26

Required Tools

You'll need a screwdriver, a 1.5 volt AA battery, and the following:



Dashboard Specifications



Identify All Leads

The first step in installation is to identify all the car wires you'll use when hooking up your sound system.

As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

Note: Do not connect the power connector to the stereo unit until you have made all connections. If there are no plastic caps on the stereo hooking wires, insulate all exposed leads with electrical tape until you are ready to use them. Identify the leads in the following order.

Power Lead

If your car has a radio or is pre-wired for one: Cut the connector wires one at a time from the plug (leaving the leads as long as possible) so that you can work with individual leads.



Turn the ignition on to the accessory position, and ground one lead of the test bulb to the chassis. Touch the other lead of the test bulb to each of the exposed wires from the cut radio connector plug. Touch one wire at a time until you find the outlet that causes the test bulb to

light.

Now turn the ignition off and then on. If the bulb also turns off and on, that outlet is the car power lead.

If your car is not wired for an audio unit: Go to the fuse block and find the fuse port for radio (RADIO), accessory (ACC), or ignition (IGN).

Battery Lead

If your stereo unit has a yellow lead, you will need to locate the car's battery lead. Otherwise you may ignore this procedure. (The yellow battery lead provides continuous power to maintain a clock, memory storage, or other function.)

If your car has a radio or is pre-wired for one: With the ignition and headlights off, identify the car battery lead by grounding one lead of the test bulb to the chassis and checking the remaining exposed wires from the cut radio connector plug.

If your car is not wired for an audio unit: Go to the fuse block and find the fuse port for the battery which is usually marked BAT.

Speakers

Identify the car speaker leads. There are two leads for each speaker which are usually color coded.

A handy way to identify the speaker leads and the speaker they are connected with is to test the leads using a 1.5 volt AA battery as follows. Hold one lead against one pole of the battery and stroke the other lead across the other pole. You will hear a scraping sound in one of the speakers if you are holding a speaker lead.

If not, keep testing different lead combinations until you have located all the speaker leads. When you label them, include the speaker location for each.

Antenna Motor

If your car is equipped with an automatic power antenna, identify the car motor antenna lead by connecting one bulb tester lead to the car battery lead and touching the remaining exposed wires from the cut radio connector plug one at a time. You will hear the antenna motor activate when you touch the correct wire.

Antenna

The antenna lead is a thick, black wire with a metal plug at the end.

Precautions

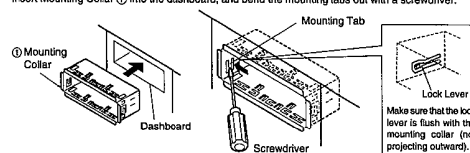
When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.
We strongly recommend you to wear gloves for installation work to protect yourself from injuries.

Installation Procedures

Note: Disconnect the cable from the negative (-) battery terminal.

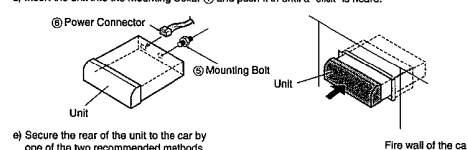
1. Secure Mounting Collar ①

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



2. Secure the rear of the unit.

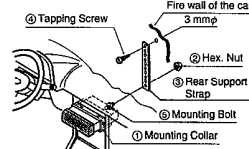
- Check the electrical connections by referring to this operating instructions. (→ Page 33)
- Connect Mounting Bolt ⑤, using a suitable wrench.
- Insert Power Connector ② to the unit.
- Insert the unit into the Mounting Collar ① and push it in until a "click" is heard.



e) Secure the rear of the unit to the car by one of the two recommended methods.

■ Using Rear Support Strap ③

Attach one end of Rear Support Strap ③ to the rear of the unit, and the other end to the fire wall of the car, or some other metallic area.



Installation Guide (continued)

Connect All Leads

Now that you have identified all the wires in the car, you're ready to begin connecting them to the stereo unit wires. The connection diagram (→ Page 33) shows the proper connections and color coding of the leads.

We strongly recommend that you test the unit before making a final installation. You can set the unit on the floor and make temporary connections to test the unit. Use electrical tape to cover all exposed wires.

Important: Connect the red power lead last, after you have made and insulated all other connections.

Ground

Connect the black ground lead of the power connector to the metal car chassis.

Speakers

Connect the speaker wires. See the wiring diagram (→ Page 33) for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speakers used must be able to handle more than 47 watts of audio power (for CQ-DFX700U; 45 watts). (Refer to page 37 for more details on the optional center speaker.) If using an optional audio amplifier, the speakers should be able to handle the maximum amplifier output power. Speakers with low input ratings can be damaged. Speaker impedance should measure 4-8 ohms, which is typically marked on most speakers. Lower or higher impedance speakers will affect output and can cause both speaker and stereo unit damage.

Caution: Never ground the speaker cords. For example, do not use a chassis ground system or a three-wire speaker common system. Each speaker must be connected separately using parallel insulated wires. If you are in doubt about how your car's speakers are wired, please consult your nearest professional installer.

Motor Antenna

Connect the car motor antenna lead to the blue motor antenna relay control lead.

Battery

Connect the yellow battery lead to the correct radio wire or to the battery fuse port on the fuse block.

Antenna

Connect the antenna by plugging the antenna lead into the antenna receptacle.

Product

Connect any optional product such as an amplifier, according to the instructions furnished with the product. Leave about 12 inches (30 cm) of distance between the speaker cords/amplifier unit and the antenna/antenna extension cord. Read the operating and installation instructions of any product you will connect to this unit.

Power

Connect the red power lead to the correct car radio wire or to the appropriate fuse port on the fuse block.

If the stereo unit functions properly with all these connections made, disconnect the wires and proceed to the final installation.

Final Installation

Lead Connections

Connect all wires, making sure that each connection is insulated and secure. Bundle all loose wires and fasten them with tape so they won't fall down later. Now insert the stereo unit into the mounting collar.

Congratulations! After making a few final checks, you're ready to enjoy your new auto stereo system.

Final Checks

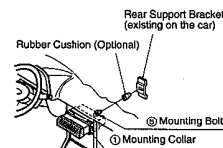
- Make sure that all wires are properly connected and insulated.
- Make sure that the stereo unit is securely held in the mounting collar.
- Turn on the ignition to check the unit for proper operation.

If you have difficulties, consult your nearest authorized professional installer for assistance.

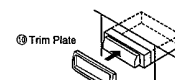
Installation Guide (continued)

■ Using the Rubber Cushion (Optional)

(If there is an existing Rear Support Bracket on the fire wall of the car.) Cover the Mounting Bolt ⑤ on the rear of the unit with the Rubber Cushion (Optional), and mount it into the existing Rear Support Bracket.



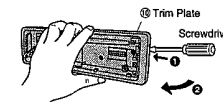
3. Install Trim Plate ⑥.



4. After Installation, reconnect the negative (-) battery terminal.

To Remove the Unit

- Remove the removable face plate. (→ Page 31)
- Remove Trim Plate ⑥ with a screwdriver as shown in the figure.



- Pull out the unit while pushing the two lock levers using the screwdriver. (→ Fig. 1, 2)
- Remove the unit by pulling it with both hands. (→ Fig. 3)

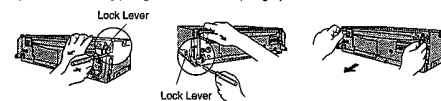


Fig. 1

Fig. 2

Fig. 3

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

- Switch off the power.
- Press [OPEN]. The removable face plate will be opened. (→ Fig. 4)
- Push the face plate to either the right or left, then pull it out toward you. (→ Fig. 5)

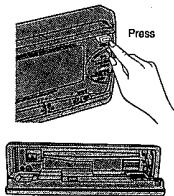


Fig. 4

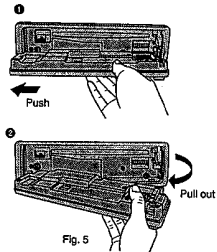


Fig. 5

Security Indicator

The security indicator (→ Fig. 7) blinks when the removable face plate is removed from the unit.

To Deactivate the Security Indicator

Press and hold [SEL] for more than 2 seconds when the power is on. "LED OFF" is displayed, and the security indicator turns off. (default: LED ON)

Display LED ON	Security Indicator Blinks
LED OFF	OFF

(Press and hold [SEL] for more than 2 seconds.)

Caution:
When you want to remove the unit, the security indicator can be cancelled by the following procedure:
1. Press the removable face plate.
2. Disconnect the power connector.

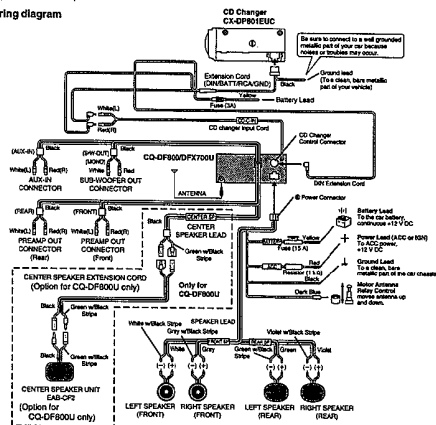
CQ-DF800/DFX700U

31

Electrical Connections

- This unit can be connected to an optional CD changer (CX-DP801EUC). For details consult your nearest Panasonic dealer.
- For connection to the CD changer, refer to the operating instructions of the CD changer (CX-DP801EUC).

Wiring diagram



NOTE: RECOMMENDED EXTERNAL AMP COMBINATION (EXAMPLE)
Preamp out (rear/front) → CY-M8054 (4 ch system)
Sub-Woofers → CY-M8054 (2 ch system) or CY-M7052 (1 ch system)

CQ-DF800/DFX700U

33

Installation Guide (continued)

- As shown in Fig. 6, gently push the lower side of the case and open its cover. Keep the removable face plate in the case. Then you can safely take the plate with you.

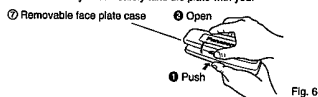


Fig. 6

To Install the Removable Face Plate

- Fit either the edge of the right or left hole in the face plate over the main unit's pins, and fit it over on the other side while pushing it.

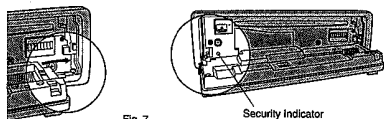


Fig. 7

Security Indicator

- After fitting the face plate holes, try moving the face plate up and down a few times to make sure that it has been fitted securely.



Fig. 8

- Close the front panel and press the right side of the face plate until a "click" is heard.

Caution:
1. Before removing the removable face plate, make sure the power is off.
2. The removable face plate is not waterproof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate while driving your car.
4. Do not use the removable face plate on the car's dashboard or other areas where the temperature is too high.
5. Do not touch the contacts on the removable face plate on the main unit, as this may result in poor electrical contacts.
6. If the front panel is pushed or pulled on the contacts, the front panel may be damaged.
7. Do not apply strong downward force on the face plate and do not pull it away from the unit. If the face plate is damaged, it may not be used.

CQ-DF800/DFX700U

32

Troubleshooting

Maintenance

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

When Something Doesn't Work

Check the chart (→ page 35) for possible causes and solutions to the problem you might be experiencing. Some simple checks or minor adjustments may eliminate the problem.

Product Servicing

If the suggestions in the charts don't solve the problem, we recommend that you take it to your nearest authorized Panasonic Servicer. The unit should be serviced only by a qualified technician.

Replacing the Fuse

Use fuses of the same specified rating (15 amps). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit. If the replacement fuse fails, contact your nearest Panasonic Servicer for service.

Error Display Messages

CD

Appears on the display when the compact disc is dirty or upside down. Press [OPEN] to open the front panel, then press [▲] to eject the disc.
Appears on the display when compact disc is scratched. Press [OPEN] to open the front panel, then press [▲] to eject the disc.
Appears on the display when the compact disc stops operating for some reason. Turn off the car engine (accessory off) and remove the fuse from the yellow lead for 1 minute. Then reinstall the fuse.

CD Changer

Appears on the display when the compact disc is dirty or upside down. Selects the next available compact disc.
Appears on the display when compact disc is scratched. Selects the next available compact disc.
Appears on the display when the unit stops operating for some reason. Press [RESET] on the CD changer (optional).
Appears on the display when there is no disc in the magazine.

CQ-DF800/DFX700U

34

Troubleshooting Tips

PROBLEM	POSSIBLE CAUSE	Possible Solution
Unit won't turn on.	Dead car battery. Ignition not on. Bad power line connection. Fuse blown.	Charge car battery. Turn ignition to ON (ACC). Check connections. Replace fuse.
Radio has static.	Antenna is not hooked up. Close to high power lines.	Hook up antenna. Move away from high power lines.
Radio memory buttons don't work.	Not holding buttons down long enough.	Press and hold buttons for more than 2 seconds.
No sound can be heard even if disc is properly loaded.	Compact disc is upside down. Compact disc is very dirty. Temperature inside the car is more than 140°F (60°C). Excessive moisture. Wiring is not properly connected. Volume control is at "minimum" position. Fuse of unit is blown.	Insert disc with label side facing up. Try cleaning the compact disc by following disc cleaning instructions. Give the interior a chance to cool down before using unit. Wait for a while before using unit. Check all wiring connections including power cord, speaker cords, etc. Adjust volume control to proper level. Replace fuse with one having correct rating.
Sound distorted due to vibration.	Installation method is bad. (angle, inclination, etc.)	Fix unit securely.
Inverted sound (left/right channel connections).	Speaker cords are inverted.	Check speaker cords.
No sound from front or rear speakers.	Fader control is set at the wrong position.	Adjust fader control of unit correctly.
Sound distorted at times.	Compact disc may not be suited. Compact disc is dirty.	Try replacing disc with another one. Try cleaning compact disc by following disc cleaning instructions.
Compact disc is sometimes ejected. (Display shows error message "E1")	Pickup lens is dirty.	Clean lens. (Use CD lens cleaning disc.)

CQ-DF800/DFX700U

35

Specifications

General

Power Supply	: 12 V DC (11 V-16 V), test voltage 14.4 V, negative ground
Maximum Power Output	: 47 Wx4 channels at 400 Hz, volume control maximum (CQ-DF800U) 45 Wx4 channels at 400 Hz, volume control maximum (CQ-DFX700U)
Maximum Power Output (Center Speaker)	: 5 W (Option for CQ-DF800U only)
Tone Adjustment Range	: Bass: ± 12 dB at 100 Hz, Treble: ± 12 dB at 10 kHz
Pre-Amp Output Voltage	: 5.0 V (CD play mode; 1 kHz 0 dB)
Sub-Woofer Output Voltage	: 5.0 V (CD play mode; 1 kHz 0 dB)
Output Impedance	: 80 Ω
Suitable Speaker Impedance	: 4-8 Ω
Suitable Speaker Impedance (Center Speaker)	: 4 Ω (Option for CQ-DF800U only)
Current Consumption	: Less than 2.2 A (CD play mode; 0.5 Wx4)
Dimensions (WxHxD)	: 7" x 1 1/4" x 5 1/4" (178 x 50 x 150 mm)
Weight	: 3 lbs. 5 oz. (1.5 kg)

FM Radio

Frequency Range	: 530-1,710 kHz
Usable Sensitivity	: 28 dB μ V (25 μ V, S/N 20 dB)

FM Stereo Radio

Frequency Range	: 87.9-107.9 MHz
Usable Sensitivity	: 11.0 dBf. (1.25 μ V, 75 Ω)
50 dB Quieting Sensitivity	: 15.2 dBf. (1.6 μ V, 75 Ω)
Frequency Response	: 30-15,000 Hz ± 3 dB
Alternate Channel Selectivity	: 75 dB
Stereo Separation	: 42 dB at 1,000 Hz
Image Response Ratio	: 75 dB
IF Response Ratio	: 100 dB
Signal/Noise Ratio	: 70 dB

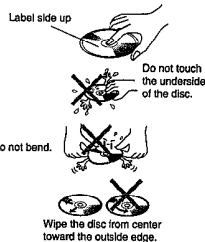
Disc Notes

Handling and Cleaning

ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT

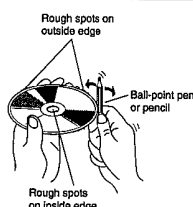
- Dirt, dust, scratches and warping discs will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damaging.
- Do not place discs in the following places:
 1. Direct sunlight.
 2. Dirty, dusty and damp areas.
 3. Near car heaters.
 4. On the seats or dashboard.

Disc Cleaning
Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzene, thinner or conventional record cleaners as they may mar the surface of the disc.



Preparing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the CD player will not play the disc. Therefore, remove the rough edges in advance by using a ball-point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



36

CQ-DF800/DFX700U

Specifications (continued)

CD Player

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

*Above specifications comply with EIA standards.

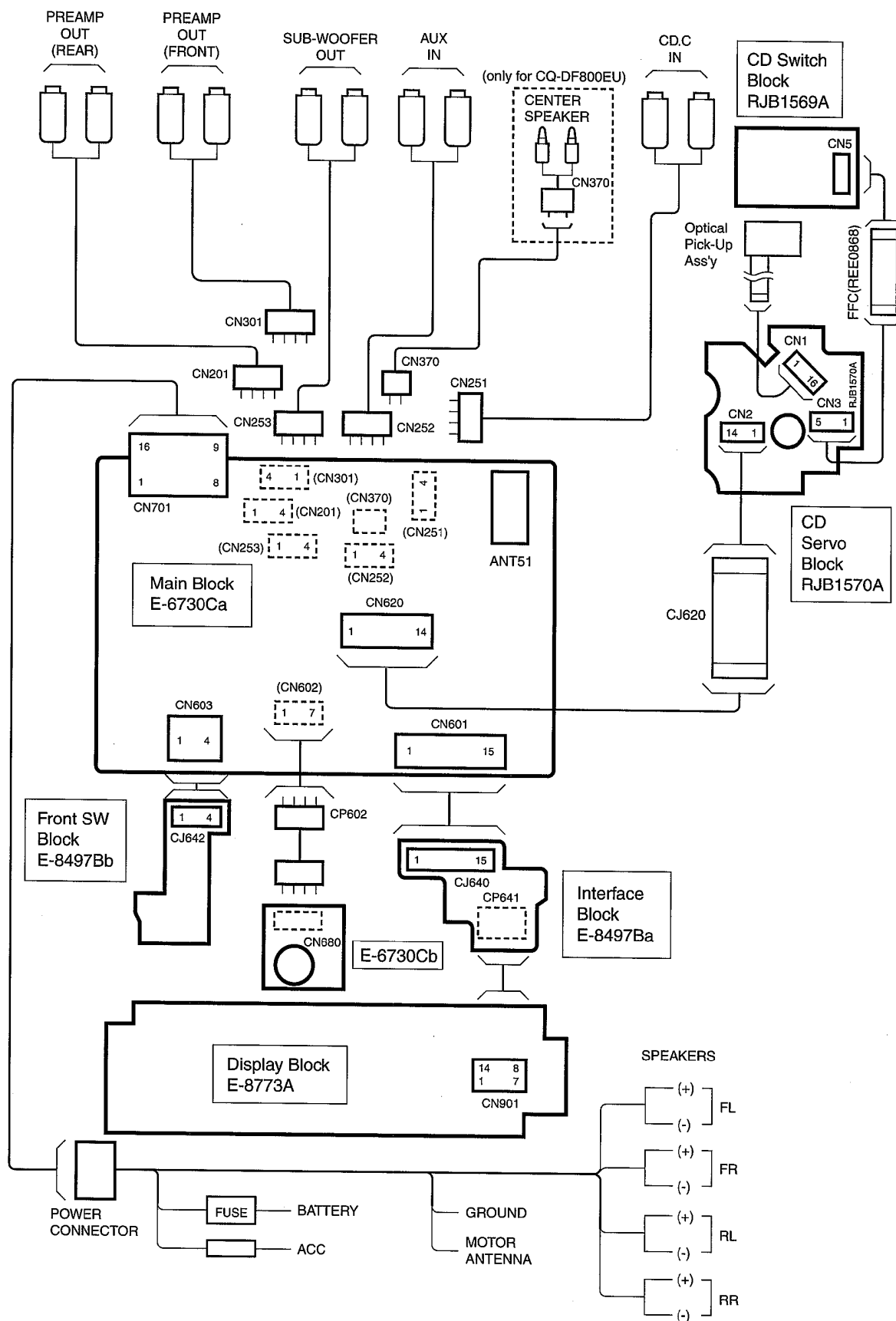
Note:
Specifications and design are subject to modification, without notice, due to improvements in technology.

Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer® and the circle-in-square device are trademarks owned by Desper Products, Inc.

38

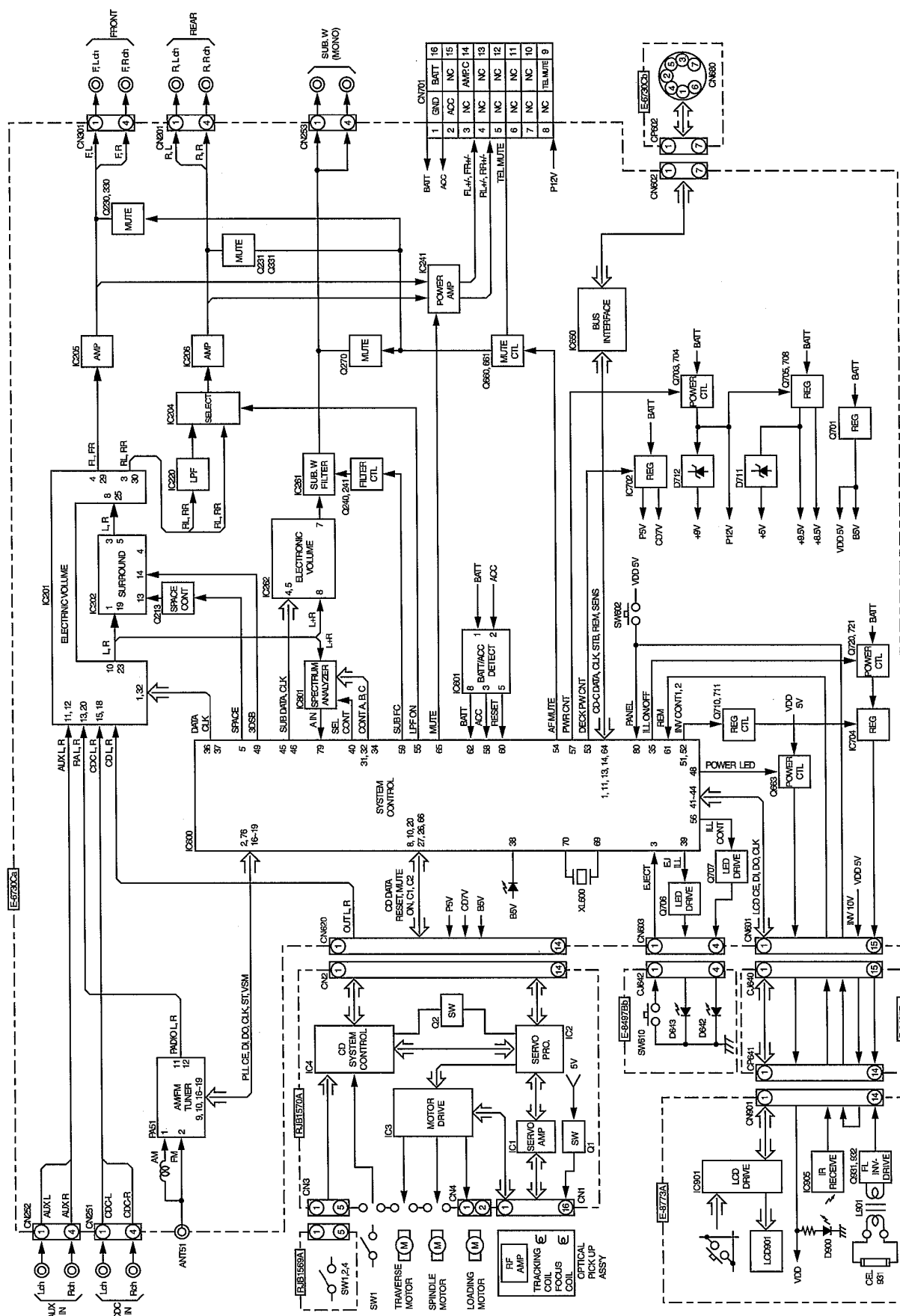
CQ-DF800/DFX700U

7 WIRING CONNECTION





9 BLOCK DIAGRAM (CQ-DFX700U)



10 TERMINALS DESCRIPTION

<Main Block>

■ IC600 C2BBGF000017

Pin No.	Port	Description	I/O	FM (V)	AM (V)	CD (V)
1	NC	-	-	-	-	-
2	ST	FM Stereo signal	I	5.1	5.1	5.1
3	EJECT	"EJECT" switch	I	5.3	5.3	5.3
4	AVSS	(Connecting to ground)	-	0	0	0
5	SPACE	Specialize effect adjust	O	4.1	4.1	4.1
6	NC	-	-	-	-	-
7	AVREF	Reference voltage (Connecting to VDD)	-	5.3	5.3	5.3
8	CD DATA	CD serial data	I	5.3	5.3	5.3
9	NC	(No connection)	-	-	-	-
10	CD.C1	CD Data clock	O	5.3	5.3	5.3
11	CD.C DATA	CD.C data	I	0	0	0
12	NC	(No connection)	-	-	-	-
13	CD.C CLK	CD.C clock	I	0	0	0
14	REM OUT	Remote control data	O	5.3	5.3	5.3
15	V_ST	Monaural mode 3DSB	O	0	0	0
16	PLL DATA/M1	Serial data (from PLL)	I	5.2	5.2	5.2
17	PLLA DATA/MO	Serial data (to PLL)	O	0	0	0
18	PLL CLK	Serial Data Clock (to PLL)	O	5.3	5.3	5.3
19	PLL CE	Chip enable (to PLL)	O	0	0	0
20	CD RESET	CD reset	O	5.3	5.3	5.3
21	NC	(No connection)	-	-	-	-
22	NC	(No connection)	-	-	-	-
23	NC	(No connection)	-	-	-	-
24	NC	(No connection)	-	-	-	-
25	NC	(No connection)	-	-	-	-
26	CD ON	CD ON signal	O	5.3	5.3	0
27	CD MUTE	CD IN detection	I	0	0	0
28	NC	(No connection)	-	-	-	-
29	NC	(No connection)	-	-	-	-
30	NC	(No connection)	-	-	-	-
31	CONT A	Spectrum analyzer output select A	O	5.3	5.3	5.3
32	CONT B	Spectrum analyzer output select B	O	5.3	5.3	5.3
33	VSS	(Connecting to ground)	-	0	0	0
34	CONT C	Spectrum analyzer output select C	O	5.3	5.3	5.3
35	ILL ON/OFF	Button illumination ON/OFF	O	5.3	5.3	5.3
36	I2C CLK	Electronic Volume clock	O	5.2	5.3	5.3
37	I2C DATA	Electronic Volume clock	I/O	5.2	5.3	5.3
38	LED	Security LED	O	4.1	4.1	4.1
39	EJ. ILL	"EJECT" Button Illumination control	O	5.6	5.6	5.6
40	SEL_CNT	Spectrum analyzer IC control	O	0	1.0	0
41	LCD DI(MO)	Serial data (to LCD Driver)	O	0	0	0
42	LCD DO(MI)	Serial data (from LCD Driver)	I	4.5	4.5	4.5
43	LCD CLK	LCD Driver clock	O	0	0	0
44	LCD CE	LCD Driver Chip Enable	O	0	0	0
45	SUBW CLK	Volume (Sub Woofer/Center SD) control clock	O	0	0	0
46	SUBW DATA	Volume (Sub Woofer/Center SD) control data	O	0	0	0

47	NC	-	-	-	-	-
48	PWR LED	Power LED control	O	0	0	0
49	3DSB	3DSB/V ST control	O	0	0	0
50	NC	-	-	-	-	-
51	INV CONT 2	Inverter Voltage select output 2	O	0	0	0
52	INV CONT 1	Inverter Voltage select output 1	O	0	0	0
53	CD_P CNT	CD Power control	O	5.3	5.3	5.3
54	AF MUTE	Audio mute	O	5.3	5.3	5.3
55	LPF ON	3DSB rear LPF control	O	0	0	0
56	ILL CNT	Illumination control	O	5.3	5.3	5.3
57	PWR CNT	Power control	O	5.3	5.3	5.3
58	ACC	ACC detection	I	5.3	5.3	5.3
59	SUB FC	Sub-Woofer frequency	I	5.3	5.3	5.3
60	RESET	Reset	I	5.3	5.3	5.3
61	REM	Remote control data	I	4.2	4.2	4.2
62	BATT	BATT detection	I	5.3	5.3	5.3
63	NC	(No connection)	-	-	-	-
64	CD.C STB	CD.C strobe	I	0	0	0
65	MUTE	Mute control	O	5.3	5.3	5.3
66	CD.C2	Serial data clock (for CD Deck)	I	5.3	5.3	5.3
67	VSS	(Connecting to ground)	-	0	0	0
68	VDD	Connecting to +5V	-	5.3	5.3	5.3
69	X2	Crystal	O	3.0	3.0	3.0
70	X1	Crystal	I	2.6	2.7	2.7
71	VSS	(Connecting to ground)	-	0	0	0
72	NC	(No connection)	-	-	-	-
73	NC	(No connection)	-	-	-	-
74	AVDD	A/D converter +5V	-	5.3	5.3	5.3
75	AVREF	A/D converter reference voltage	-	5.3	5.3	5.3
76	SD	FM/AM SD	I	0	0	0
77	INT_A	Initialize A	I	0	0	0
78	INT_B	Initialize B	I	0	0	0
79	A_IN	Spectrum analyzer /Level meter signal detection	I	0	0	0
80	PANEL	Panel IN/OUT detection	I	5.4	5.4	5.4

<Display Block>

■ IC901 YEAMLC75884W

Pin No.	Port	Description	I/O	(V)
1-51	S3-53	LCD segment data	O	2.5
52-55	COM1-4	LCD common	O	2.5
56,57	S54,55	LCD segment data	O	2.5
58-61	KS3-6	Key strobe	O	0.9
62-66	KI1-5	Key data	I	0
67	VDD	+5V power supply	-	5.1
68	VLCD	+5V power supply	-	5.1
69	VLCD1	LCD angle	-	3.3
70	VLCD2	LCD angle	-	1.7
71	VSS	Ground	-	0
72	TEST	(Connecting to ground)	-	0
73	OSC	Oscillator terminal	-	3.9
74	/RESET	(Connecting to VCC)	-	5.1
75	DO	Key data output	O	4.1
76	CE	LCD driver chip enable	I	0
77	CLK	LCD clock	I	0
78	DI	LCD data	I	0
79, 80	S1,2	LCD segment data	O	2.5

<CD Servo Block>

■ IC2 MN662741RPA

Pin No.	Port	Description	I/O	(V)
1	BCLK	Bit clock output	O	2.5
2	LRCK	L/R select output	O	2.5
3	SRDATA	Serial data output	O	2.5
4	VDD	+5V digital power supply	-	5.1
5	DVSS1	Digital ground	-	0
6	TX	Not used	-	-
7	MCLK	MPU command clock	I	4.6
8	MDATA	MPU command data	I	0.2
9	MLD	MPU command load	I	4.8
10	SENSE	Not used	-	-
11	/FLOCK	Not used	-	-
12	/TLOCK	Not used	-	-
13	BLKCK	Sub-code block clock	O	0
14	SQCK	Q code external clock	I	0
15	SUBQ	Q code output	O	5.1
16	DMUTE	Mute input	I	2.9
17	STAT	Status output	O	0
18	/RST	Reset input	I	5.0
19, 20		Not used	-	-
21	TRV	Forced traverse output	-	2.5
22	TVD	Traverse drive output	O	2.5
23	PC	Not used	-	-
24	ECM	Spindle motor drive	O	2.4
25	ECS	Spindle motor drive	O	2.5
26	KICK	Kick pulse output	O	2.4
27	TRD	Tracking drive	O	2.5
28	FOD	Focus drive	O	2.6
29	VREF	D/A reference voltage	I	2.5
30	FBAL	Focus balance adjust	O	2.5
31	TBAL	Tracking balance adjust	O	2.5
32	FE	Focus error signal	I	2.5
33	TE	Tracking error signal	I	2.5
34	RFENV	RF envelope signal	I	2.5
35	VDET	Vibration detection	I	0
36	OFTR	Off track signal	I	0
37	TRCRS	Track cross signal	I	2.7
38	/RFDET	RF detection signal	I	0
39	BDO	Drop out signal	I	0
40	LDON	Laser on/off control	O	5.0
41	TES	Tracking error shunt	O	0
42	PLAY	Not used	-	-
43	WVEL	Not used	-	-
44	ARE	RF signal	I	2.5
45	IREF	Reference current input	I	1.2
46	DRF	Connecting to ground	-	0
47	DSLIF	DSL loop filter	I/O	2.5
48	PLLIF	PLL loop filter	I/O	2.3
49	VCOF	Connecting to VDD	-	5.1
50	AVDD2	+5V analog power supply	-	5.1
51	AFSS2	Analog ground	-	0
52-55		Not used	-	-
56	SBCK	(Connecting to ground)	-	0
57	VSS	Ground	-	0
58	X1	Crystal oscillator	-	2.5
59	X2	Crystal oscillator	-	2.9
60	VDD	+5V power supply	-	5.1
61-69		Not used	-	-
70	/RST2	Connecting to ground	-	0
71	/TEST	Connecting to VDD	-	5.1
72	AVDD1	+5V analog power supply	-	4.8
73	OUTL	Audio Lch output	O	2.4
74	AVSS1	Analog ground	-	0

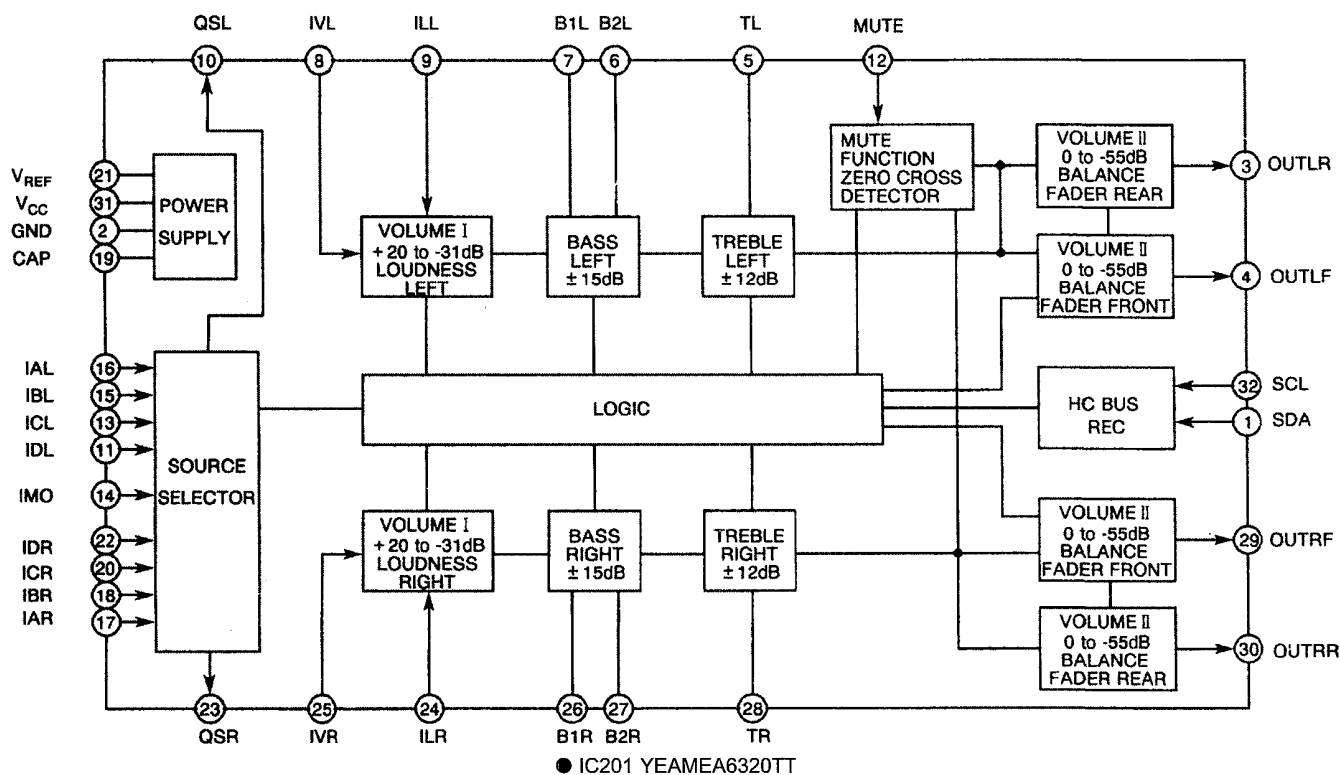
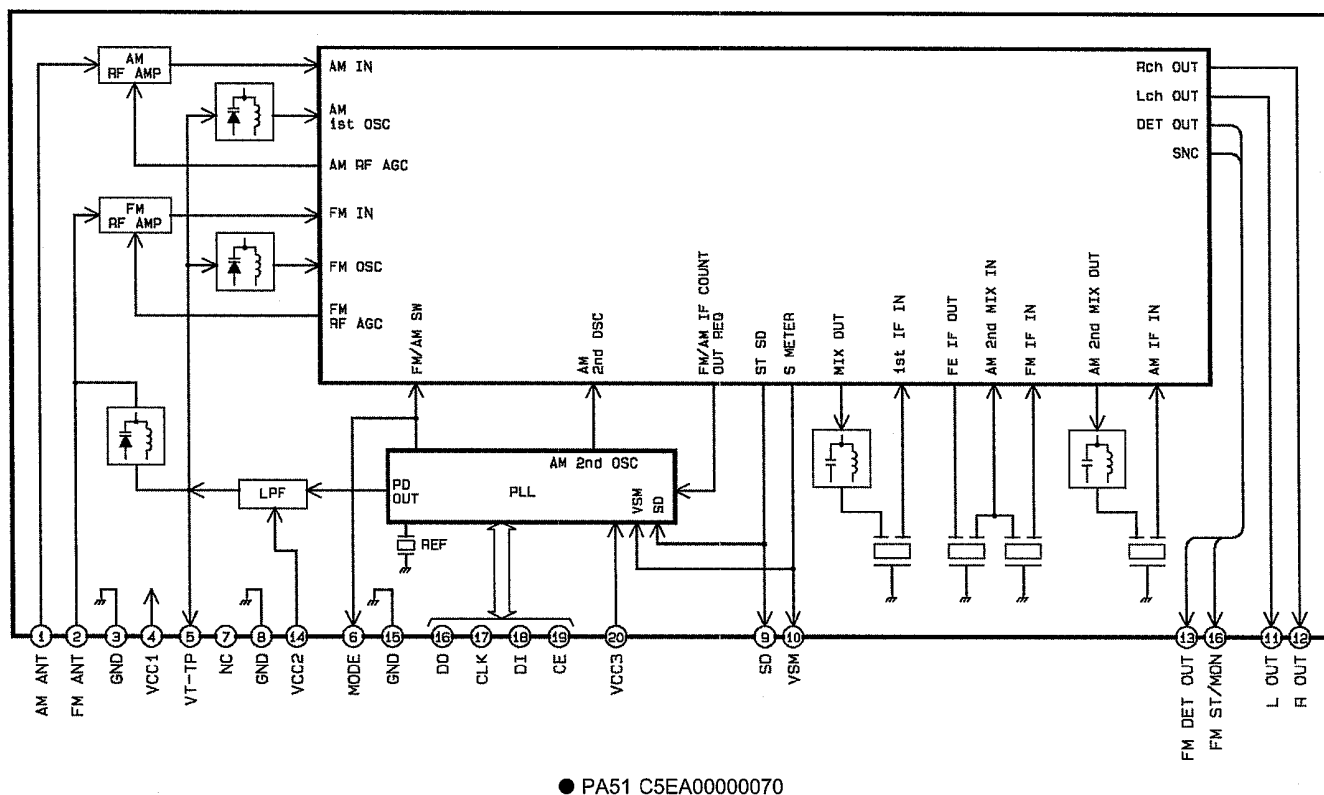
75	OUTR	Audio Rch output	O	2.4
76	RSEL	connecting to VDD	I	5.1
77	CSEL	Connecting to ground	-	0
78	ISRDATA	Serial data input	I	2.5
79	ILRCK	L/R select input	I	2.5
80	IBCLK	Bit clock input	I	2.5

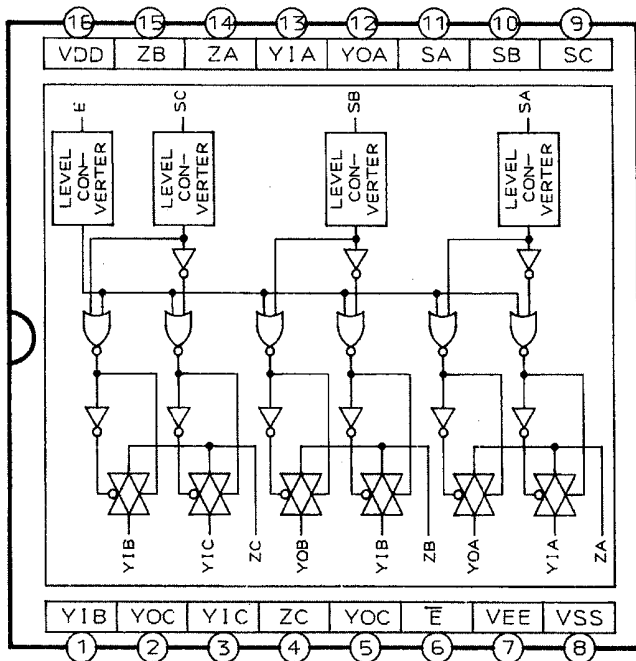
■ IC4 MB89193-233E

Pin No.	Port	Description	I/O	(V)
1	LMTR_FWD	Forward Limiter	O	5.2
2	LMTR_REV	Reverse Limiter	O	5.2
3	LO/SP	Motor control	O	0
4	REST	Reset	I	4.8
5	TEST	(Connecting to ground)	-	0
6	/RST	Reset	I	4.9
7	X0	Crystal oscillator	-	2.1
8	X1	Crystal oscillator	-	2.6
9	VSS	Ground	-	0
10	SW4	Switch input	I	0
11	BLKCK	Sub-code block clock	I	0
12	SW1	Switch input	I	4.9
13	SW2	Switch input	I	5.0
14	SW3	Switch input	I	0
15	SUBQ	Q code input	I	2.5
16	STAT	Status input	I	5.0
17	SQCK	Q code external clock	O	5.1
18	SRST	Reset output	O	4.9
19	DMUTE	Mute output	O	0
20	MLD	MPU command load	O	4.8
21	MDATA	MPU command data	O	0.2
22	MCLK	MPU command clock	O	4.6
23	POSC	Oscillator control	O	0
24	ACC	ACC input	I	0.2
25	C1	CD clock	I	4.9
26	DATA	CD data	I/O	0
27	C2	CD clock	I	5.2
28	VCC	+5V power supply	-	5.2

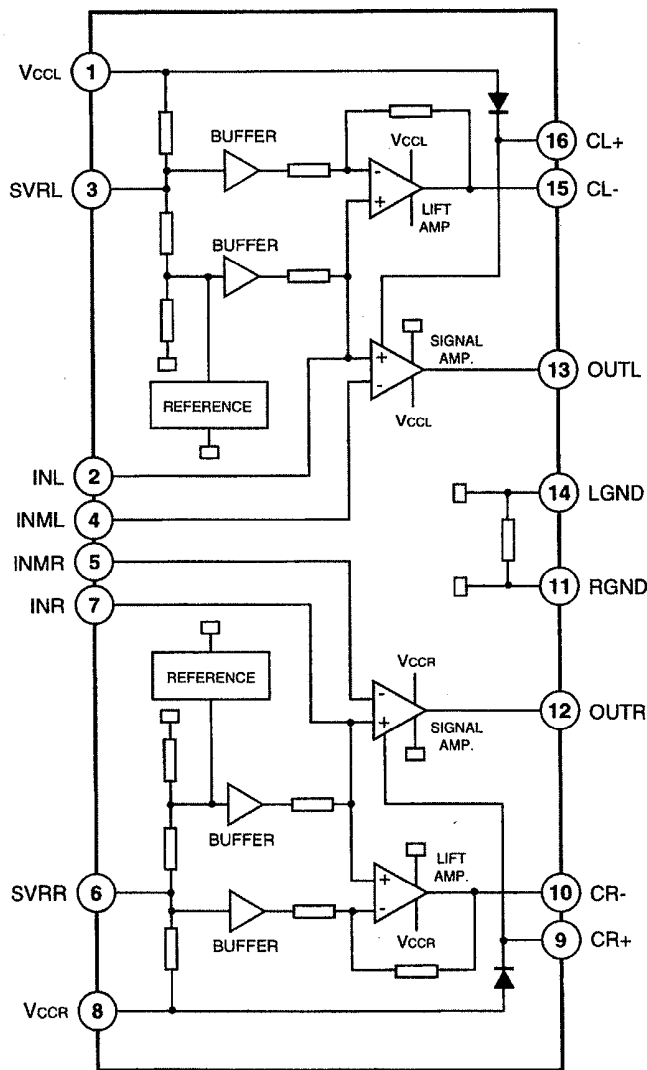
11 PACKAGE AND IC BLOCK DIAGRAM

11.1. Main Block

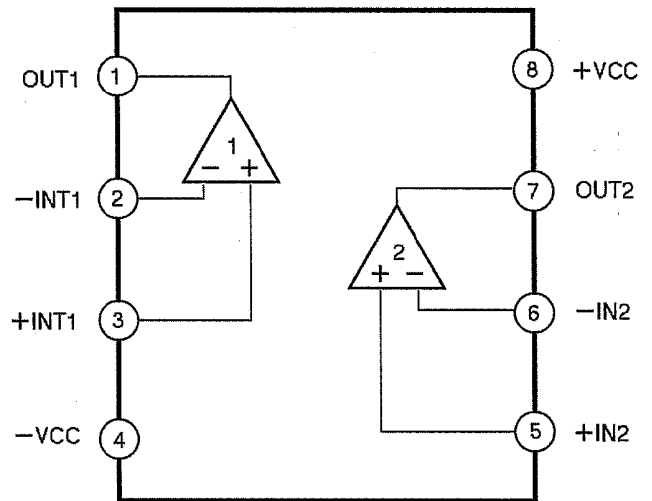




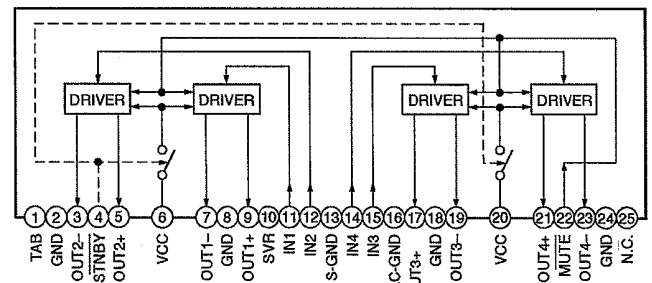
● IC204 YEAMPD4053BG



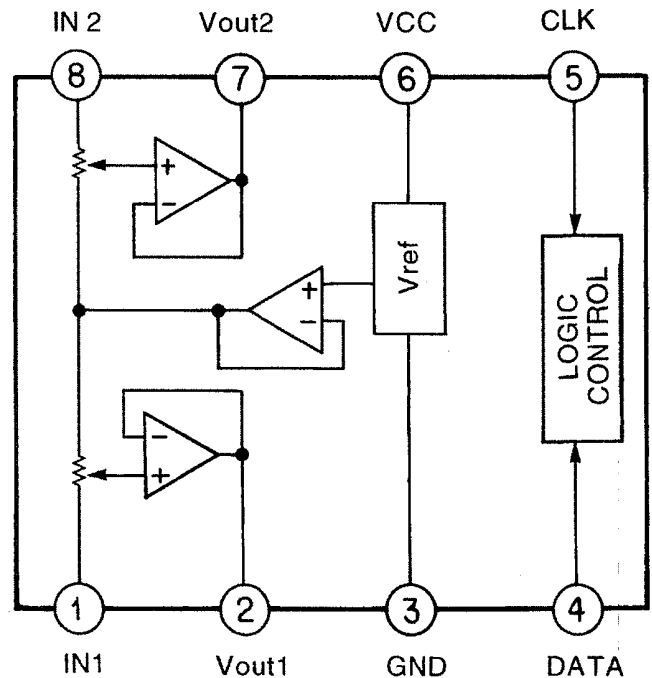
● IC203, 205, 206 YEAMDA8574TT



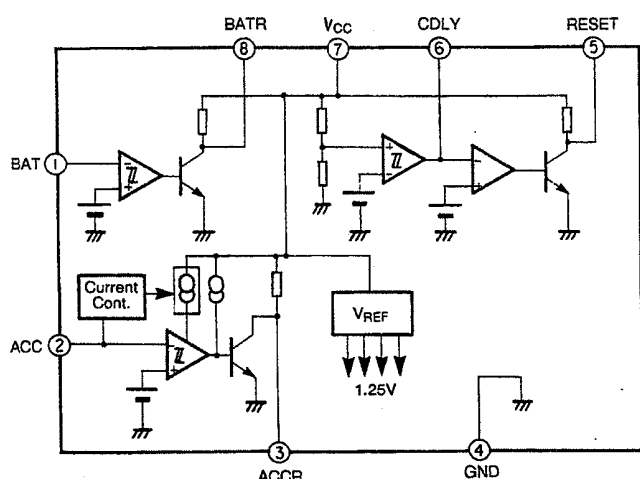
● IC220, 261 YEAMM5218AFE



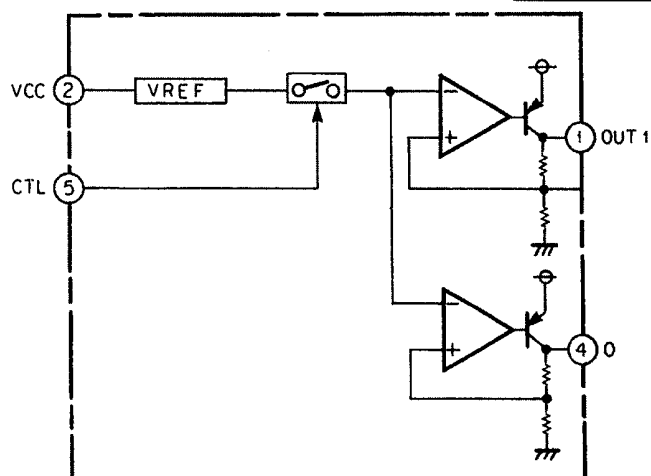
● IC241 YEAMTDA7384



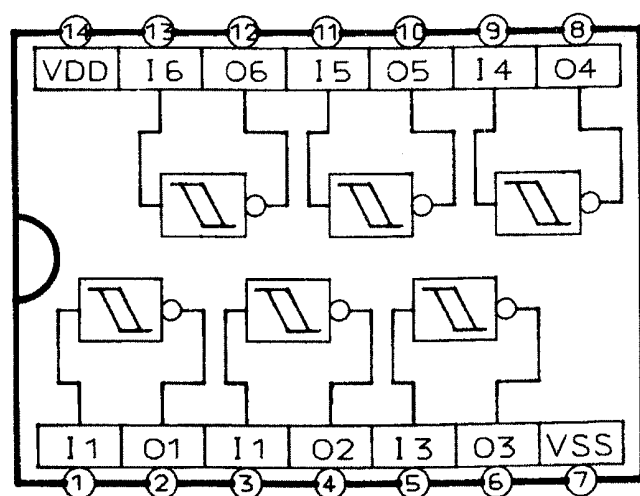
● IC262 YEAMM62429FP



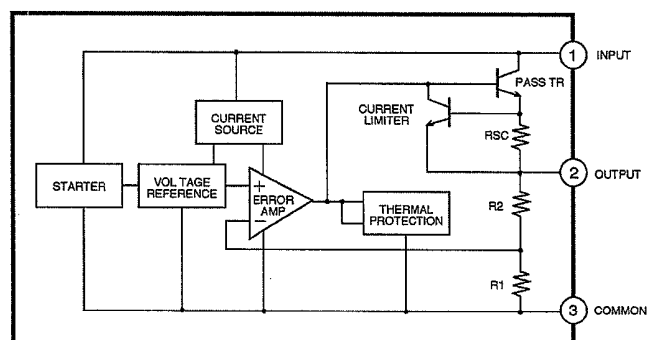
● IC601 AN8065SE1



● IC702 YEAMA41W12ST

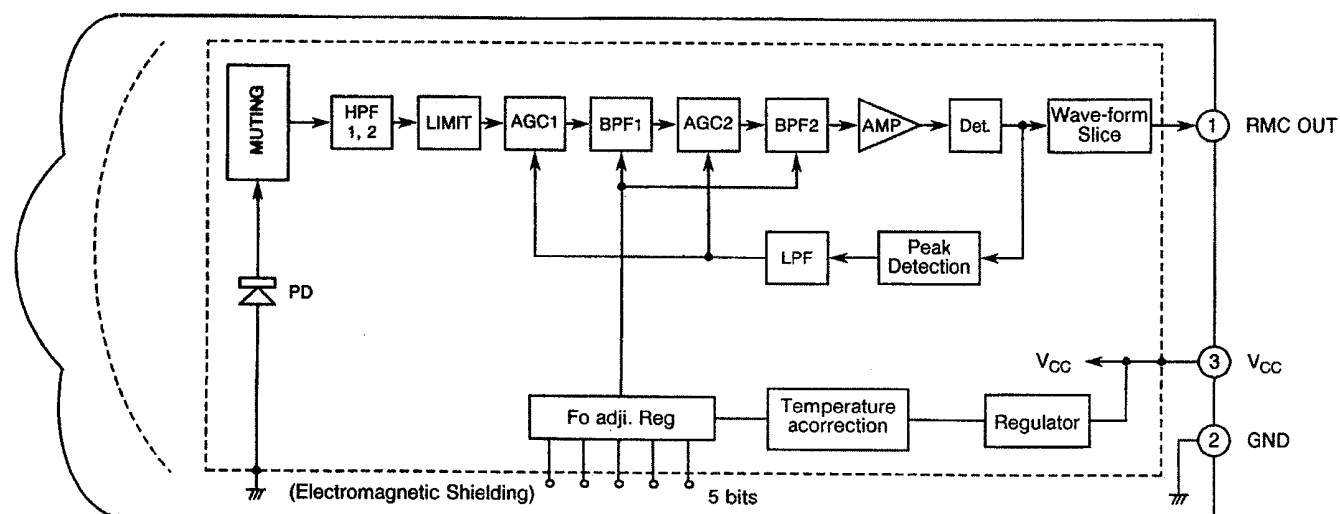


● IC650 YEAMC14584BE



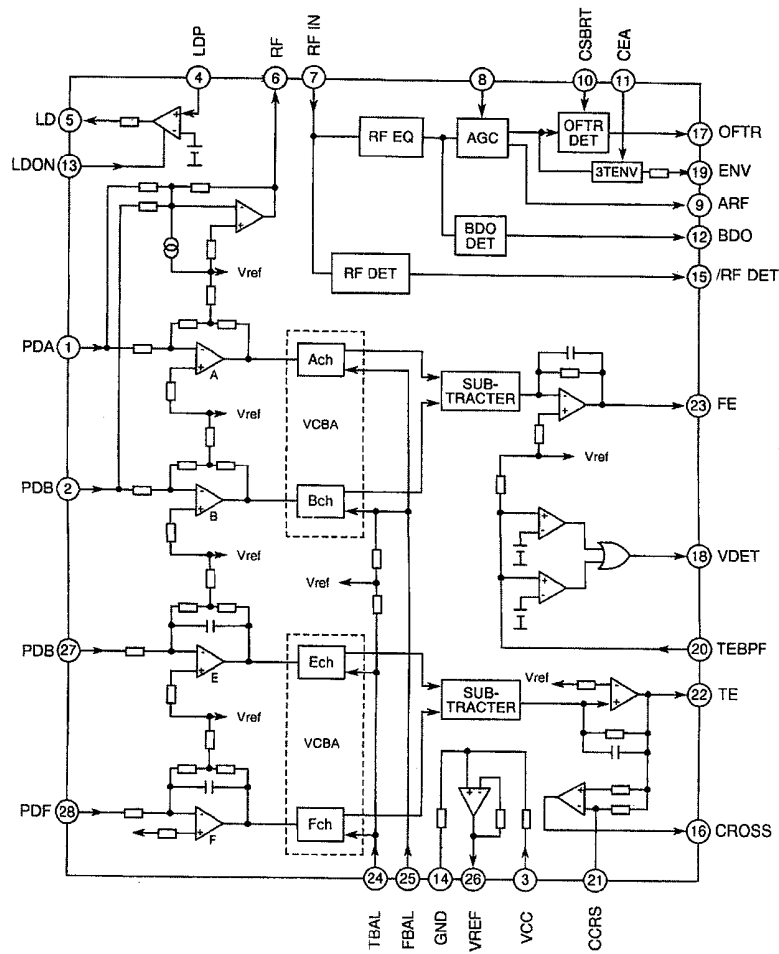
● IC704 AN7806F

11.2. Display Block

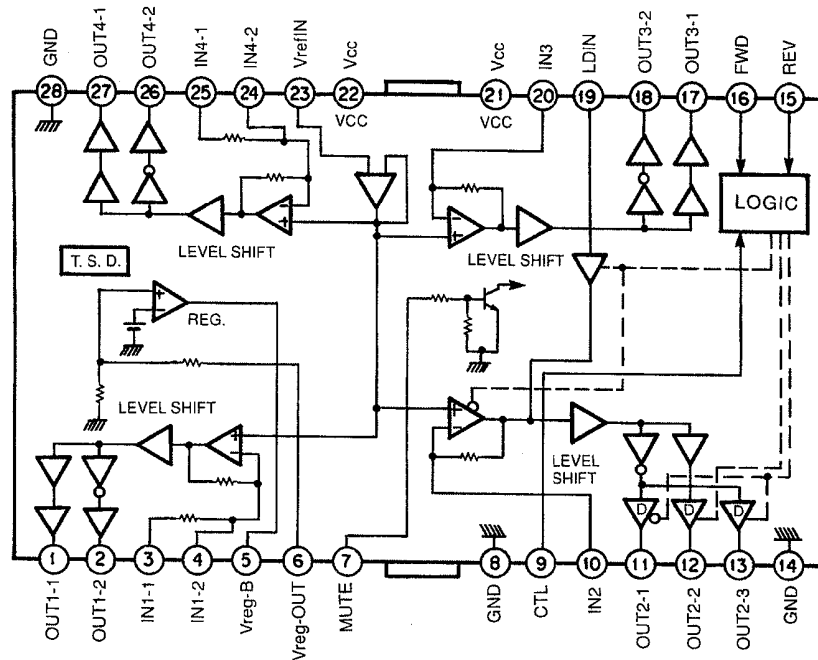


● IC905 YEAMSBX8035F

11.3. CD Servo Block



● IC1 AN8835SBE1



● IC3 BA6795FPE2

12 Replacement Parts List

Note:

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a load 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 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.

12.1. IC's and Transistors

MAIN BLOCK [E-6730C]

Ref. No.	Part No.	Part Name & Description	Remarks
IC201	YEAMEA6320TT	IC	
IC202	AN7395SE1	IC	
IC203	YEAMDA8574TT	IC	
IC204	YEAMPD4053BG	IC	
IC205	YEAMDA8574TT	IC	
IC206	YEAMDA8574TT	IC	
IC220	YEAMM5218AFE	IC	
IC241	C1EA00000021	IC	
IC261	YEAMM5218AFE	IC	
IC262	YEAMM62429FP	IC	
IC301	C1BA00000192	IC (CQ-DF800U)	
IC600	C2BBGF000017	IC	
IC601	AN8065SE1	IC	
IC650	YEAMC14584BE	IC	
IC702	YEAMA41W12ST	IC	
IC704	AN7806F	IC	
IC801	YEAMBA3835FE	IC	
PA51	C5EA00000070	IC	
Q213	BIABCF000044	Transistor	
Q230	YEANC323TUTX	Transistor	
Q231	YEANC323TUTX	Transistor	
Q240	YEANC323TKT	Transistor	
Q241	YEANA114EKT	Transistor	
Q270	YEANC323TKT	Transistor	
Q301	YEANC323TKT	Transistor (CQ-DF800U)	
Q302	YEANB1243QRT	Transistor (CQ-DF800U)	
Q303	B1GBCFJN0005	Transistor (CQ-DF800U)	
Q330	YEANC323TUTX	Transistor	
Q331	YEANC323TUTX	Transistor	
Q660	YEANA114EKT	Transistor	
Q661	YEANA114EKT	Transistor	
Q663	YEANA114EKT	Transistor	
Q701	YEANC4480AN	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	B1GBCFJN0005	Transistor	
Q705	2SD2139TA	Transistor	
Q706	YEANA114EKT	Transistor	
Q707	YEANA114EKT	Transistor	
Q708	2SD1994ATA	Transistor	
Q710	YEANC144EUTX	Transistor	
Q711	YEANC144EUTX	Transistor	
Q720	YEANHQ1F3PT1	Transistor	
Q721	YEANC144WKTX	Transistor	

DISPLAY BLOCK [E-8773A]

Ref. No.	Part No.	Part Name & Description	Remarks
IC901	YEAMLC75884W	IC	
IC905	YEAMSBX8035F	IC	
Q931	YEANSSTA06T	Transistor	
Q932	YEANSSTA06T	Transistor	

12.2. Diodes

MAIN BLOCK [E-6730C]

Ref. No.	Part No.	Part Name & Description	Remarks
D201	MA151ATX	Diode	
D601	MA723TA	Diode	
D602	LN25RP	LED	
D702	MA165TA	Diode	
D703	YEARD62M1T1	Diode	
D705	YEADRB100AT	Diode	
D706	YEADDAM3MA47	Diode	
D707	YEADRB100AT	Diode	
D708	YEARD91M1T2	Diode	
D709	MA153TX	Diode	
D710	YEARD27M2T1	Diode	
D711	MA4051LMTA	Diode	
D712	YEARD91JS1T	Diode	
D713	MA151KTX	Diode	
D729	BOBC9R600001	Diode	

DISPLAY BLOCK [E-8773A]

Ref. No.	Part No.	Part Name & Description	Remarks
D900	LN1271RAL	LED	
D926	MA8056LMHTX	Diode	
D927	MA8056LMHTX	Diode	
D928	MA8056LMHTX	Diode	
D929	MA8056LMHTX	Diode	
D930	MA8047MTX	Diode	

INTERFACE/FRONT SW BLOCK [E-8497B]

Ref. No.	Part No.	Part Name & Description	Remarks
D642	LNJ306G5TUVQ	LED	
D643	LNJ306G5TUVQ	LED	

12.3. Capacitors

MAIN BLOCK [E-6730C]

Ref. No.	Part No.	Part Name & Description	Remarks
C57	YECUS1H102KX	Ceramic, 0.001pF 50WV	
C61	ECA1CSA470I	Electrolytic, 47pF 16WV	
C62	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C63	YECUS1E333KX	Ceramic, 0.033pF 25WV	
C66	YECUS1E333KX	Ceramic, 0.033pF 25WV	
C67	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C72	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C201	YECUS1H101JM	Ceramic, 100pF 50WV	
C203	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C204	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C205	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C206	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C207	YECUS1C224KX	Ceramic, 0.22pF 16WV	
C208	YECUS1E333KX	Ceramic, 0.033pF 25WV	
C209	YECUS1H562KX	Ceramic, 0.0056pF 50WV	
C210	ECA1CSA470I	Electrolytic, 47pF 16WV	
C211	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C212	ECA0JSA220I	Electrolytic, 22pF 6.3WV	
C213	ECA1HSA010I	Electrolytic, 1pF 50WV	
C214	YECUS1C563KX	Ceramic, 0.056pF 16WV	
C215	YECUS1E273KX	Ceramic, 0.027pF 25WV	
C216	ECA0JSA470I	Electrolytic, 47pF 6.3WV	
C217	ECA1CSA100I	Electrolytic, 10pF 16WV	
C218	YECUS1E273KX	Ceramic, 0.027pF 25WV	
C219	YECUS1H392KX	Ceramic, 0.0039pF 50WV	
C220	ECA1HSA4R7I	Electrolytic, 4.7pF 50WV	
C224	YECUS1C224KX	Ceramic, 0.22pF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C227	YECUS1C683KX	Ceramic, 0.068pF 16WV	
C228	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C229	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C230	ECSH1CX335CR	Tantalum, 3.3pF 16WV	
C231	ECSH1CX335CR	Tantalum, 3.3pF 16WV	
C232	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C241	ECA1HSAR47I	Electrolytic, 0.47pF 50WV	
C242	YECUS1H122KX	Ceramic, 0.0012pF 50WV	
C244	ECA1HSAR47I	Electrolytic, 0.47pF 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012pF 50WV	
C248	ECA1CDT472Y	Electrolytic, 4700pF 16WV	
C250	YECUS1H152KX	Ceramic, 0.0015pF 50WV	
C251	YECUS1H152KX	Ceramic, 0.0015pF 50WV	
C252	ECEA1CKS101I	Electrolytic, 100pF 16WV	
C253	ECA1CSA470I	Electrolytic, 47pF 16WV	
C254	ECEA1AKS221I	Electrolytic, 220pF 10WV	
C255	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C256	ECEA1CKS101I	Electrolytic, 100pF 16WV	
C260	ECA1CSA100I	Electrolytic, 10pF 16WV	
C261	ECA0JSA470I	Electrolytic, 47pF 6.3WV	
C262	YECUS1C224KX	Ceramic, 0.22pF 16WV	
C263	YECUS1E223KX	Ceramic, 0.022pF 25WV	
C264	ECEA1HKS2R2I	Electrolytic, 2.2pF 50WV	
C265	YECUS1C224KX	Ceramic, 0.22pF 16WV	
C266	ECA0JSA470I	Electrolytic, 47pF 6.3WV	
C270	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C273	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C274	YECUV2A152KX	Ceramic, 0.0015pF 100WV	
C275	ECEA1CKS101I	Electrolytic, 100pF 16WV	
C276	ECA1CSA470I	Electrolytic, 47pF 16WV	
C277	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C278	ECA1CSA470I	Electrolytic, 47pF 16WV	
C285	YECUS1H221JM	Ceramic, 220pF 50WV	
C286	YECUS1H221JM	Ceramic, 220pF 50WV	
C287	YECUS1H221JM	Ceramic, 220pF 50WV	
C288	YECUS1H221JM	Ceramic, 220pF 50WV	
C289	YECUS1H221JM	Ceramic, 220pF 50WV	
C301	YECUS1H101JM	Ceramic, 100pF 50WV	
C303	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C304	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C305	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C306	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C307	YECUS1C224KX	Ceramic, 0.22pF 16WV	
C308	YECUS1E333KX	Ceramic, 0.033pF 25WV	
C309	YECUS1H562KX	Ceramic, 0.0056pF 50WV	
C310	ECEA0JKS331I	Electrolytic, 330pF 6.3WV	
C311	ECEA1AKS221I	Electrolytic, 220pF 10WV	
C313	ECA1CSA100I	Electrolytic, 10pF 16WV	
C314	YECUS1E393KX	Ceramic, 0.039pF 25WV	
C315	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C316	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C317	ECA1CSA470I	Electrolytic, 47pF 16WV	
C318	YECUS1E273KX	Ceramic, 0.027pF 25WV	
C319	YECUS1H392KX	Ceramic, 0.0039pF 50WV	
C320	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C321	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C322	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C324	YECUS1C224KX	Ceramic, 0.22pF 16WV	
C327	YECUS1C683KX	Ceramic, 0.068pF 16WV	
C328	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C329	ECA1HSA3R3I	Electrolytic, 3.3pF 50WV	
C330	ECSH1CX335CR	Tantalum, 3.3pF 16WV	
C331	ECSH1CX335CR	Tantalum, 3.3pF 16WV	
C341	ECA1HSAR47I	Electrolytic, 0.47pF 50WV	
C342	YECUS1H122KX	Ceramic, 0.0012pF 50WV	
C344	ECA1HSAR47I	Electrolytic, 0.47pF 50WV	
C345	YECUV2A122KX	Ceramic, 0.0012pF 100WV	
C346	YECUV1C105KX	Ceramic, 1pF 16WV	
C347	ECEA1AKS101	Electrolytic, 100pF 10WV	
C348	ECA1HSA2R2I	Electrolytic, 2.2pF 50WV	
C350	YECUS1H152KX	Ceramic, 0.0015pF 50WV	
C351	YECUS1H152KX	Ceramic, 0.0015pF 50WV	
C352	ECEA1CKS101I	Electrolytic, 100pF 16WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C353	ECEA1AKS221I	Electrolytic, 220pF 10WV	
C354	ECA1CSA470I	Electrolytic, 47pF 16WV	
C355	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C357	ECEA1CKS101I	Electrolytic, 100pF 16WV	
C366	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C370	ECA1HSAR47I	Electrolytic, 0.47pF 50WV (CQ-DF800U)	
C371	YECUS1AM335R	Tantalum, 3.3pF 10WV (CQ-DF800U)	
C372	ECEA1AKS221I	Electrolytic, 220pF 10WV (CQ-DF800U)	
C373	YECUS1C104KX	Ceramic, 0.1pF 16WV (CQ-DF800U)	
C374	ECEA1CKS101I	Electrolytic, 100pF 16WV (CQ-DF800U)	
C375	YECUS1H393KX	Ceramic, 0.039pF 50WV (CQ-DF800U)	
C376	ECEA1CN101U	Electrolytic, 100pF 16WV (CQ-DF800U)	
C377	YECUS1C104KX	Ceramic, 0.1pF 16WV (CQ-DF800U)	
C378	ECSH1CY105CR	Tantalum, 1pF 16WV (CQ-DF800U)	
C385	YECUS1H221JM	Ceramic, 220pF 50WV	
C386	YECUS1H221JM	Ceramic, 220pF 50WV	
C387	YECUS1H221JM	Ceramic, 220pF 50WV	
C388	YECUS1H221JM	Ceramic, 220pF 50WV	
C389	YECUS1H221JM	Ceramic, 220pF 50WV	
C411	ECEA1AKS221I	Electrolytic, 220pF 10WV	
C413	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C601	YECUS1H220JM	Ceramic, 22pF 50WV	
C602	YECUS1H220JM	Ceramic, 22pF 50WV	
C603	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C605	ECEA0JKS331I	Electrolytic, 330pF 6.3WV	
C607	EECS5R5H473	Electrolytic, 0.047pF 5.5WV	
C609	YECUS1C124KX	Ceramic, 0.12pF 16WV	
C612	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C650	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C660	ECA0JSA220I	Electrolytic, 22pF 6.3WV	
C662	ECA1CSA100I	Electrolytic, 10pF 16WV	
C685	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C686	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C687	ECA1CSA470I	Electrolytic, 47pF 16WV	
C690	YECUS1H103KX	Ceramic, 0.01pF 50WV	
C701	ECEA1CKS101I	Electrolytic, 100pF 16WV	
C702	ECA1HSA4R7I	Electrolytic, 4.7pF 50WV	
C703	ECA0JSA470I	Electrolytic, 47pF 6.3WV	
C704	ECEA1CKS101I	Electrolytic, 100pF 16WV	
C705	ECA1HSAR47I	Electrolytic, 0.47pF 50WV	
C706	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C707	ECEA1AKS221I	Electrolytic, 220pF 10WV	
C709	ECEA1AKS101	Electrolytic, 100pF 10WV	
C710	ECA1CDT102BQ	Electrolytic, 1000pF 16WV	
C711	F1K1E334A022	Ceramic, 0.33pF 25WV	
C712	EEAF1A820H	Electrolytic, 82pF 10WV	
C714	ECA0JSA101I	Electrolytic, 100pF 6.3WV	
C715	ECSH1CC106CR	Tantalum, 10pF 16WV	
C716	ECA1CSA470I	Electrolytic, 47pF 16WV	
C717	YECUV1H104ZF	Ceramic, 0.1pF 50WV	
C718	F1K1E334A022	Ceramic, 0.33pF 25WV	
C719	F1K1E334A022	Ceramic, 0.33pF 25WV	
C721	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C723	ECEA1AKS221I	Electrolytic, 220pF 10WV	
C724	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C725	ECA0JSA470I	Electrolytic, 47pF 6.3WV	
C727	ECEA1CKS101I	Electrolytic, 100pF 16WV	
C728	YECUS1E104ZF	Ceramic, 0.1pF 25WV	
C741	ECEA1AKS101	Electrolytic, 100pF 10WV	
C805	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C806	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C807	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C808	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C809	YECUS1H103KX	Ceramic, 0.01pF 50WV	
R209	YECUS1H101JM	Ceramic, 100pF 50WV	
R309	YECUS1H101JM	Ceramic, 100pF 50WV	

DISPLAY BLOCK [E-8773A]

Ref. No.	Part No.	Part Name & Description	Remarks
C910	YECUS1H102KX	Ceramic, 0.001pF 50WV	
C911	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C914	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C915	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C920	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C921	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C923	YECUS1H681JM	Ceramic, 680pF 50WV	
C931	ECEV1CA101WP	Electrolytic, 100pF 16WV	
C932	YECUS1C104KX	Ceramic, 0.1pF 16WV	
C933	F0F2A2230001	Plastic Film, 0.022pF 100WV	
C934	F1L3F1200001	Ceramic, 12pF 3160WV	

12.4. Resistors

MAIN BLOCK [E-6730C]

Ref. No.	Part No.	Part Name & Description	Remarks
D704	ERDS2TJ471	Carbon, 470Ω 1/4W	
R50	ERJ6GEYJ5R6	Chip, 5.6Ω 1/10W	
R54	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R55	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R58	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R62	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R63	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R68	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R201	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R202	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R204	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R205	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R206	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R207	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R210	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R212	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R213	ERJ6GEYJ221	Chip, 220Ω 1/10W	
R215	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R216	ERJ6GEYJ105	Chip, 1kΩ 1/10W	
R219	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R220	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R221	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R222	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R225	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R226	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R230	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R235	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R240	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R241	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R242	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R243	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R250	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R251	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R252	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R253	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R254	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R257	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R258	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R259	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R260	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R262	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R263	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R264	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R265	ERJ6GEYJ912	Chip, 9.1kΩ 1/10W	
R266	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R267	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R268	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R270	ERJ6GEYJ330	Chip, 33Ω 1/10W	
R271	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R272	ERJ6GEYJ220	Chip, 22Ω 1/10W	
R273	ERJ6GEYJ220	Chip, 22Ω 1/10W	
R274	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R275	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R301	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R302	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R304	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R305	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R306	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R307	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R319	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R320	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R321	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R322	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R330	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R335	ERJ6GEYJ560	Chip, 56Ω 1/10W	
R340	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R341	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R342	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R343	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R344	ERJ8GEYJ223V	Chip, 22kΩ 1/8W	
R350	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R351	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R352	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R353	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R354	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R360	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R370	ERJ6GEYJ101	Chip, 100Ω 1/10W (CQ-DF800U)	
R371	ERJ6GEYJ2R2	Chip, 2.2Ω 1/10W (CQ-DF800U)	
R372	ERJ6GEYJ390	Chip, 39Ω 1/10W (CQ-DF800U)	
R373	ERG1SJ101	Metal Oxide, 100Ω 1W (CQ-DF800U)	
R374	ERJ6GEYJ1R0	Chip, 1Ω 1/10W (CQ-DF800U)	
R375	ERJ8GEYJ473V	Chip, 47kΩ 1/8W (CQ-DF800U)	
R376	ERDS1FJ681	Carbon, 680Ω 1/2W (CQ-DF800U)	
R377	ERJ6GEYJ103	Chip, 10kΩ 1/10W (CQ-DF800U)	
R600	ERJ6GEYJ330	Chip, 33Ω 1/10W	
R603	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R604	ERJ6GEYJ683	Chip, 68kΩ 1/10W (CQ-DF800U)	
R605	ERJ6GEYJ153	Chip, 15kΩ 1/10W (CQ-DF800U)	
	ERJ6GEYJ473	Chip, 47kΩ 1/10W (CQ-DFX700U)	
R606	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R608	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R609	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R610	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R611	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R614	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R615	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R617	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R618	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R619	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R620	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R621	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R622	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R624	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R629	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R630	ERJ8GEYJ222V	Chip, 2.2kΩ 1/8W	
R631	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R632	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R633	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R639	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R641	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R642	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R643	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R645	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R646	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R647	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R648	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R649	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R652	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R660	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R661	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R662	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R663	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R673	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R677	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R680	ERJ6GEYJ331	Chip, 330Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R681	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R682	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R685	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R686	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R687	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R688	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R690	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R692	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R694	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R701	ERDS2FJ270	Carbon, 27Ω 1/4W	
R703	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R704	ERJ6GEYJ274	Chip, 270kΩ 1/10W	
R705	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R706	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R707	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R708	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R709	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R710	ERDS1FJ681	Carbon, 680Ω 1/2W	
R711	ERDS1FJ681	Carbon, 680Ω 1/2W	
R712	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R713	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R714	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R715	ERJ6GEYJ151	Chip, 150Ω 1/10W	
R720	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R721	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R727	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	
R728	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	
R731	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R732	ERJ8GEYJ561V	Chip, 560Ω 1/8W	
R803	ERJ6GEYJ104	Chip, 100kΩ 1/10W	

DISPLAY BLOCK [E-8773A]

Ref. No.	Part No.	Part Name & Description	Remarks
R906	ERJ6GEYJ152	Chip, 1.5kΩ 1/10W	
R907	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R909	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R910	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R931	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R932	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R941	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R942	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R961	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R962	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R963	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R964	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R965	ERJ6GEYJ103	Chip, 10kΩ 1/10W	

12.5. Connectors

MAIN BLOCK [E-6730C]

Ref. No.	Part No.	Part Name & Description	Remarks
CN601	YEAE0115MX	Connector, 15P	
CN602	K1HA149A0001	Connector, 7P	
CN603	YEAE0104MX	Connector, 4P	
CN620	YEAE012763	Connector, 14P	
CN680	YEAE012307	Connector, 8P DIN	
CN701	YEAE012748	Connector, 16P	

DISPLAY BLOCK [E-8773A]

Ref. No.	Part No.	Part Name & Description	Remarks
CN901	YEAE012760	Connector, 14P	

INTERFACE/FRONT SW BLOCK [E-8497B]

Ref. No.	Part No.	Part Name & Description	Remarks
CJ640	YEAE0115MPA	Connector, 15P	
CJ642	YEAE0104MPA	Connector, 4P	
CP641	YEAE012761	Connector, 14P	

12.6. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW602	YEAS08042	Switch	
SW901	KOH1BA000083	Switch	
SW902	KOH1BA000083	Switch	
SW903	KOH1BA000285	Switch	
SW904	KOH1BA000083	Switch	
SW905	KOH1BA000083	Switch	
SW906	KOH1BA000083	Switch	
SW907	KOH1BA000083	Switch	
SW908	KOH1BA000285	Switch	
SW909	KOH1BA000285	Switch	
SW910	KOH1BA000285	Switch	
SW911	KOH1BA000083	Switch	
SW912	KOH1BA000285	Switch	
SW913	KOH1BA000285	Switch	
SW914	KOH1BA000285	Switch	
SW915	KOH1BA000083	Switch	
SW916	KOH1BA000083	Switch	
SW917	KOH1BA000285	Switch	
SW918	KOH1BA000285	Switch	
SW610	YEAS09267	Switch	

CRYSTAL

Ref. No.	Part No.	Part Name & Description	Remarks
XL600	YEXL49U0419T	Crystal OSC	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
CF50	YEXC07T009	Coil	
L50	YELT03A330KT	Coil	
L600	YELT02C470KT	Coil	
L601	YELT02C101KT	Coil	
L602	YELT02C101KT	Coil	
L701	YELTBL01R1AT	Coil	
L702	YETQ026T001	Coil	
L703	ELEH330KA	Coil	
L931	YELTD75F101T	Coil	
L901	ETJ11K92AM	Transformer	

LCD

Ref. No.	Part No.	Part Name & Description	Remarks
LCD901	L5ACDLC00006	LCD Display	

LAMPS

Ref. No.	Part No.	Part Name & Description	Remarks
CFL931	A2CA00000018	Display Tube	
Z50	J0LE00000002	Neon Tube	

THERMISTOR

Ref. No.	Part No.	Part Name & Description	Remarks
PT701	YERT7AR4R7MT	Thermistor	

12.7. Accessories

PRINTING

Ref. No.	Part No.	Part Name & Description	Remarks
	YEFM283521	Operating Instructions	

INSTALLATION PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
AJ1	YEAJ02792	Power Cord	
BAT1	CR2025/1F	Battery	
	YEF131302	Detachable Unit Cover	
	YEF04019	Rear Support Strap	
	YEFX0214198	Mounting Collar	
	YEFX9992012	Remote Controller	

Ref. No.	Part No.	Part Name & Description	Remarks
	YEP9FZ2714	Screws	

12.8. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
F1 △	YEAFO2015	Fuse, 15A	
FU931 △	YEAFFSFCOR4A	Fuse, 0.4A	
AJ252	YEAJ8VW3503	Tube, AUX-IN	
ANT51	YEA10090	Antenna Receptacle	
AT1	K4ZZ01000048	Terminal	
AT2	K4ZZ01000048	Terminal	
AT3	K4ZZ01000048	Terminal	
CJ620	YEAET14B140C	Connector, 14P FFC	
CN201	YEAEO12656	Connector, RCA REAR	
CN251	YEAEO12503	Connector, RCA CD.C-IN	
CN252	K2KF29Z00013	Connector, RCA AUX-IN	
CN253	YEAJ011604	Cord, RCA SUB-WOOFER	
CN301	YEAEO12655	Connector, RCA FRONT	
CN370	K1PQ02Z000002	Connector, Center SP (CQ-DF800U)	
HP1	YEAT03324	Terminal	
1	YEFA05594B	Bottom Cover	(1-B)
2	YEFA031359E	Upper Cover	(4-B)
3	YEFA08494AK	Rear Plate	(3-C)
4	YEFA131413	Cover, Detachable	(2-A)
5	YEFA09508	Side Plate	(2-C)
6	YEF025658A	Escutcheon Ass'y, Unit	(3-A)
7	YEF026709	Escutcheon Ass'y, Detachable (CQ-DF800U)	(1-A)
	YEF026710	Escutcheon Ass'y, Detachable (CQ-DFX700U)	(1-A)
8	YEF05570	Trim Plate	(1-A)
9	YEF135147	Button, EJECT	(3-A)
10	YEF135951	Button, VOL (CQ-DF800U)	(1-A)
	YEF135952	Button, VOL (CQ-DFX700U)	(1-A)
11	YEF135953	Button, SEL	(2-A)
12	YEF135956	Button, BAND	(2-A)
13	YEF135954	Button, TUNE/TRACK (CQ-DF800U)	(1-A)
	YEF135955	Button, TUNE/TRACK (CQ-DFX700U)	(1-A)
14	YEF135961	Button, S.A/DISP	(1-B)
15	YEF135958	Button, PRESET	(1-A)
16	YEF135963A	Button, OPEN	(1-B)
17	YEFF01921	Heat Sink	(4-A)
18	YEFJ05030	Color Rivet	(3-B)
19	YEF135957	Button, SOURCE	(1-A)
20	YEFR04187	Lead Cap	(4-C)
21	YEFV011813	Insulator	(2-B)
22	YEFV021596	Optical Shade	(2-A)
23	YEFV011890	Insulator	(3-C)
24	YEFK06898	Holder, IC905	(2-A)
25	YEFV011928	Insulator	(2-A)
26	YEFW04156	Shaft Collar	(2-B)
27	YEFW04157	Shaft Collar	(2-A)
28	YEFX0214422	Bracket, CN701	(3-B)
29	YEFX0012014	Transparent Plate	(2-B)
30	YEFX0213945B	Bracket, IC241	(2-B)
32	YEFX0214481	Bracket, Deck	(3-C)
34	YEFX0214423	Bracket, IC702	(3-B)
35	YEFX0012013	Transparent Plate	(2-A)
36	YEFX0214168	Bracket, IC704	(2-B)
38	YEFX007380	Cord Clamper	(3-C)
39	YEFX007142	Cord Clamper (CQ-DF800U)	(4-C)
	YEFX007154	Cord Clamper (CQ-DFX700U)	(4-C)
40	YEP9FX069	Hook Bracket Ass'y	(3-B)
41	YEFX0052396	Spring, Open	(1-B)
42	YEFX0052253	Spring	(2-A)
43	YEFJ05041	Color Rivet (CQ-DF800U)	(3-C)
44	YEP9FX068A	Front Chassis Ass'y	(3-A)
51	YEJS06092	Screw, 3mm *10mm	(4-A)

Ref. No.	Part No.	Part Name & Description	Remarks
52	YEJS03020	Screw, 2mm * 4mm	(3-A)
53	YEJT03009	Tapping Screw, 3mm * 8mm	(2-B) (2-C)
54	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
55	YEJT03156	Tapping Screw, 2.6mm * 4mm	(3-A)
56	XTB26+6GFX	Tapping Screw, 2.6mm * 6mm	
57	XTN2+8GFZ	Tapping Screw, 2mm * 8mm	(2-B) (3-A)
58	XTB2+5FFX	Tapping Screw, 2mm * 5mm	(4-C)

14 CD Player Parts

Note :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
5. "A" marks in remarks column are indicated supply parts of Audio Division(AD) in Matsushita Electric Industrial Co., Ltd.(MEI)
6. "V" marks in remarks column are indicated supply parts of Video System Division(VSD) in Matsushita Electric Industrial Co., Ltd.(MEI)

IC's and Transistors

Ref. No.	Part No.	Part Name & Description	Remarks
IC1	AN8835SBE1	IC	V
IC2	MN662741RPA	IC	A
IC3	BA6795FPE2	IC	A
IC4	MB89193-233E	IC	A
Q1	2SA1037AKTXR	Transistor	V
Q2	DTC114TKT96	Transistor	V

Diodes

Ref. No.	Part No.	Part Name & Description	Remarks
D1	MA141WKTX	Diode	A

Capacitors

Ref. No.	Part No.	Part Name & Description	Remarks
C1	RCSX0JX226LE	Tantalum, 22MFD 6.3WV	V
C3	ECEA0JKA101I	Electrolytic, 100MFD 6.3WV	
C4	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C5	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C6	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C7	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C8	ECUV1H272KBN	Chip, 0.0027MFD 50WV	V
C9	ECUV1E273KBN	Chip, 0.027MFD 25WV	V
C10	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C11	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C12	ECUV1H222MBN	Chip, 0.0022MFD 50WV	V
C13	ECUV1H182KBN	Chip, 0.0018MFD 50WV	V
C14	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C15	ECUV1C473KBN	Chip, 0.047MFD 16WV	V
C16	ECUV1E223KBN	Chip, 0.022MFD 25WV	V
C17	ECUV1E273KBN	Chip, 0.027MFD 25WV	V
C18	ECUV1H471KBN	Chip, 470PF 50WV	V
C19	ECUV1E104MBN	Chip, 0.1MFD 25WV	V
C20	ECUV1E223KBN	Chip, 0.022MFD 25WV	V
C21	ECUV1C224KBM	Chip, 0.22MFD 16WV	V
C22	ECUV1C224KBM	Chip, 0.22MFD 16WV	V
C23	ECUV1H070DCN	Chip, 7PF 50WV	V
C24	ECUV1H220JCN	Chip, 22PF 50WV	V
C25	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C26	ECUV1H102KBN	Chip, 0.001MFD 50WV	V
C27	ECUV1H102KBN	Chip, 0.001MFD 50WV	V

Ref. No.	Part No.	Part Name & Description	Remarks
C28	ECUV1E223ZFN	Chip, 0.022MFD 25WV	V
C29	RCE0JPK221IG	Electrolytic, 220MFD 6.3WV	V
C30	ECUV1E154MBM	Chip, 0.15MFD 25WV	V
C33	RCE0JPK221IG	Electrolytic, 220MFD 6.3WV	V
C34	ECUV1H561KBN	Chip, 560PF 50WV	V
C35	ECEA0JKA101I	Electrolytic, 100MFD 6.3WV	
C36	ECEA1AKA221I	Electrolytic, 220MFD 10WV	
C37	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C38	ECEA0JKA221I	Electrolytic, 220MFD 6.3WV	
C39	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C40	ECUV1H472MBN	Chip, 0.0047MFD 50WV	V
C42	ECUV1E104ZFN	Chip, 0.1MFD 25WV	V
C44	ECUV1H331KBN	Chip, 330PF 50WV	V
C45	ECUV1E224ZFM	Chip, 0.22MFD 25WV	V
C56	ECUV1H221KBN	Chip, 220PF 50WV	A

Resistors [RJB1570A]

Ref. No.	Part No.	Part Name & Description	Remarks
R1	ERJ6GEYJ150	Chip, 15 OHMS 1/10W	
R2	ERJ6GEYJ221	Chip, 220 OHMS 1/10W	
R3	ERJ6GEYJ150	Chip, 15 OHMS 1/10W	
R5	ERJ6GEYJ330	Chip, 33 OHMS 1/10W	
R6	ERJ6GEYJ224	Chip, 220k OHMS 1/10W	
R7	ERJ6GEYJ184	Chip, 180k OHMS 1/10W	
R8	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R9	ERJ6GEYJ103	Chip, 10k OHMS 1/10W	
R10	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R11	ERJ6GEYJ103	Chip, 10k OHMS 1/10W	
R12	ERJ6GEYJ393	Chip, 39k OHMS 1/10W	
R13	ERJ6GEYJ183	Chip, 18k OHMS 1/10W	
R14	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R15	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R16	ERJ6GEYJ154	Chip, 150k OHMS 1/10W	
R17	ERJ6GEYJ683	Chip, 68k OHMS 1/10W	
R18	ERJ6GEYJ471	Chip, 470 OHMS 1/10W	
R20	ERJ6GEYJ101	Chip, 100OHMS 1/10W	
R21	ERJ6GEYJ220	Chip, 22 OHMS 1/10W	
R22	ERJ6GEYJ220	Chip, 22 OHMS 1/10W	
R23	ERJ6GEYJ822	Chip, 8.2k OHMS 1/10W	
R24	ERJ6GEYJ682	Chip, 6.8k OHMS 1/10W	
R25	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R26	ERJ6GEYJ333	Chip, 33k OHMS 1/10W	
R27	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R28	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R29	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R30	ERJ6GEYJ103	Chip, 10k OHMS 1/10W	
R31	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R32	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R33	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R34	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R35	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R36	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R37	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R39	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R40	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R41	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R42	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R43	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R44	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R45	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R46	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
R47	ERJ6GEYJ121	Chip, 120 OHMS 1/10W	
R49	ERJ6GEYJ155V	Chip, 1.5M OHMS 1/10W	V
R50	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R51	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R52	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R53	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R54	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R55	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R56	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R57	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R58	ERJ6GEYJ473	Chip, 47k OHMS 1/10W	
R62	ERJ6GEYJ272	Chip, 2.7k OHMS 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R63	ERJ6GEYJ102	Chip, 1k OHMS 1/10W	
RJ1	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ2	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ3	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ4	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	
RJ5	ERJ6GEYJ1R8V	Chip, 1.8 OHMS 1/10W	V
RJ6	ERJ6GEY0R00V	Chip, 0 OHM 1/10W	
RJ7	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	

Resistors [RJB1569A]

Ref. No.	Part No.	Part Name & Description	Remarks
SW3	ERJ8GEY0R00V	Chip, 0 OHM 1/8W	

Oscillators

Ref. No.	Part No.	Part Name & Description	Remarks
X1	RVBCST4R00MT	Ceramic Oscillator	V
X2	RSXC16M9S01T	Crystal Oscillator	V

Connectors

Ref. No.	Part No.	Part Name & Description	Remarks
CN1	RJS2A1816T	Connector, 16P	V
CN2	RJS1A7114T	Connector, 14P	V
CN3	RJS1A7105T	Connector, 5P	V
CN4	RJP2G17ZA	Connector, 2P	V
CN5	RJS2A1405T	Connector, 5P	V

Switches

Ref. No.	Part No.	Part Name & Description	Remarks
SW1	ESE11SH2	Switch	V
SW2	RSP1A015-A	Switch	V
SW4	RSP1A015-A	Switch	V
SW5	RSP1A015-A	Switch	V

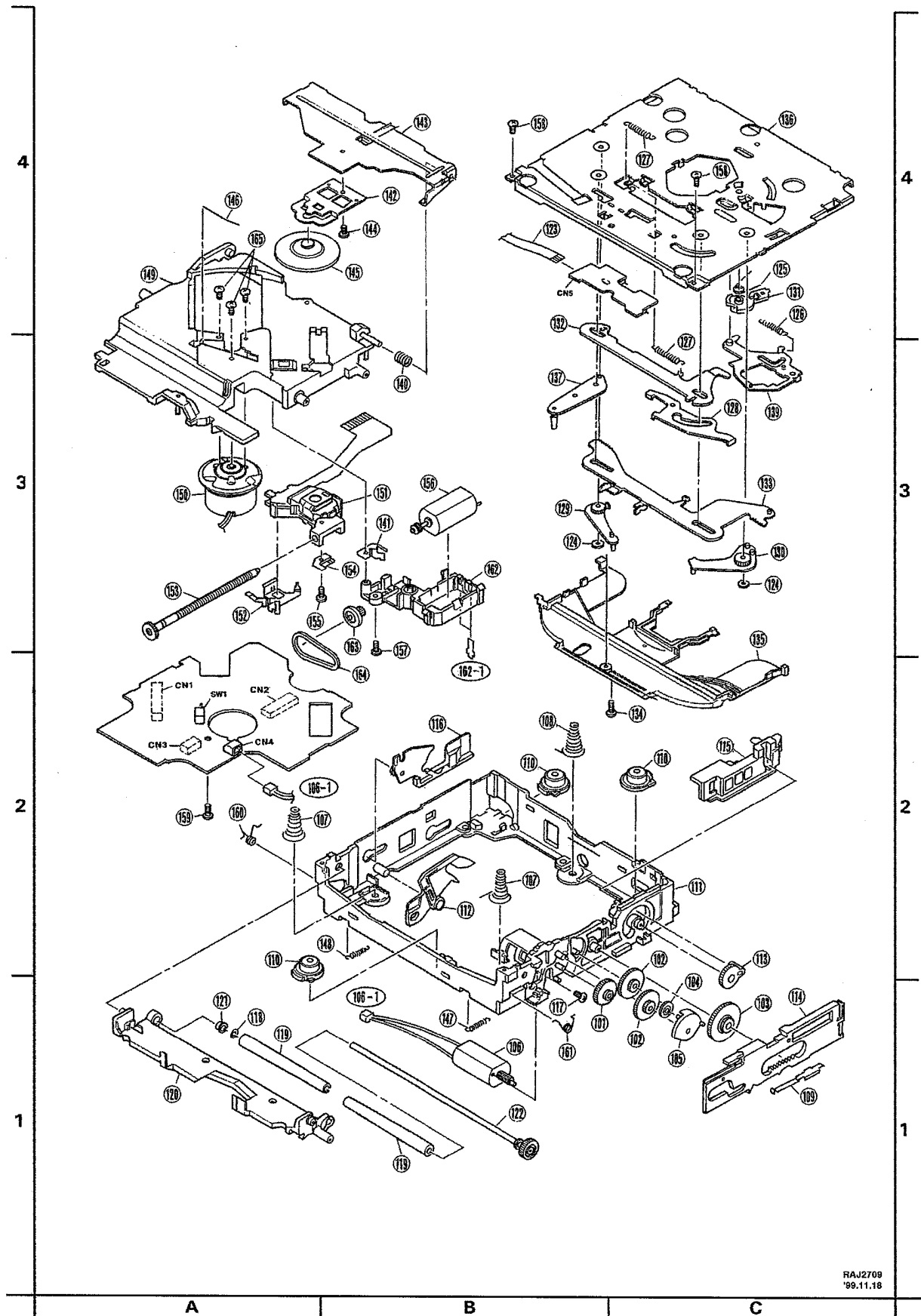
Miscellaneous

Ref. No.	Part No.	Part Name & Description	Remarks
101	RDG0350	Gear	V(1-B)
102	RDG0351	Gear N2	V(1-C)
103	RDG0352-1	Loading Gear	V(1-C)
104	RDG0353	Roller Drive Gear	V(1-C)
105	RDG0354	Roller Drive Arm	V(1-C)
106	REM0060	Loading Motor	V(1-B)
106-1	REE0669	Lead Wire	V(2-A) (1-B)
107	RMB0465	Spring	V(2-A) (2-B)
108	RMB0466	Spring	V(2-A)
109	RMC0292	Main Slider Spring	V(1-C)
110	RMG0408-K	Insulator	V(2-A) (2-B)
111	RMK0309-2	Mechanism Frame	V(2-B)
112	RML0432	Lock Arm	V(2-B)
113	RML0433-1	Drive Arm	V(2-C)
114	RMR0952-W	Main Slider	V(1-C)
115	RMR0953-W	Lift Slider	V(2-C)
116	RMR0954-W	Lock Slider	V(2-B)
117	XYN2+C5	Screw, 2mm * 5mm	V(1-B)
119	RMG0382-H	Rubber Roller	V(1-A)
120	RML0434	Roller Arm	V(1-A)
121	RMR0769-W	Roller Bering	V(1-A)
122	RXJ0017	Roller Shaft	V(1-B)
123	REE0668	Flexible PCB	V(4-B)
124	RHW27004	Washer	V(3-C)
125	RMB0461	Spring	V(4-C)
126	RMB0468	Spring	V(4-C)
127	RMB0489	Spring	V(4-C) (3-C)
128	RML0428	Switch Lever	V(3-C)
129	RML0430	Trigger Lever L	V(3-C)
130	RML0431	Trigger Lever R	V(3-C)
131	RML0435	Lock Lever	V(4-C)
132	RMM0155	Slider A	V(3-C)

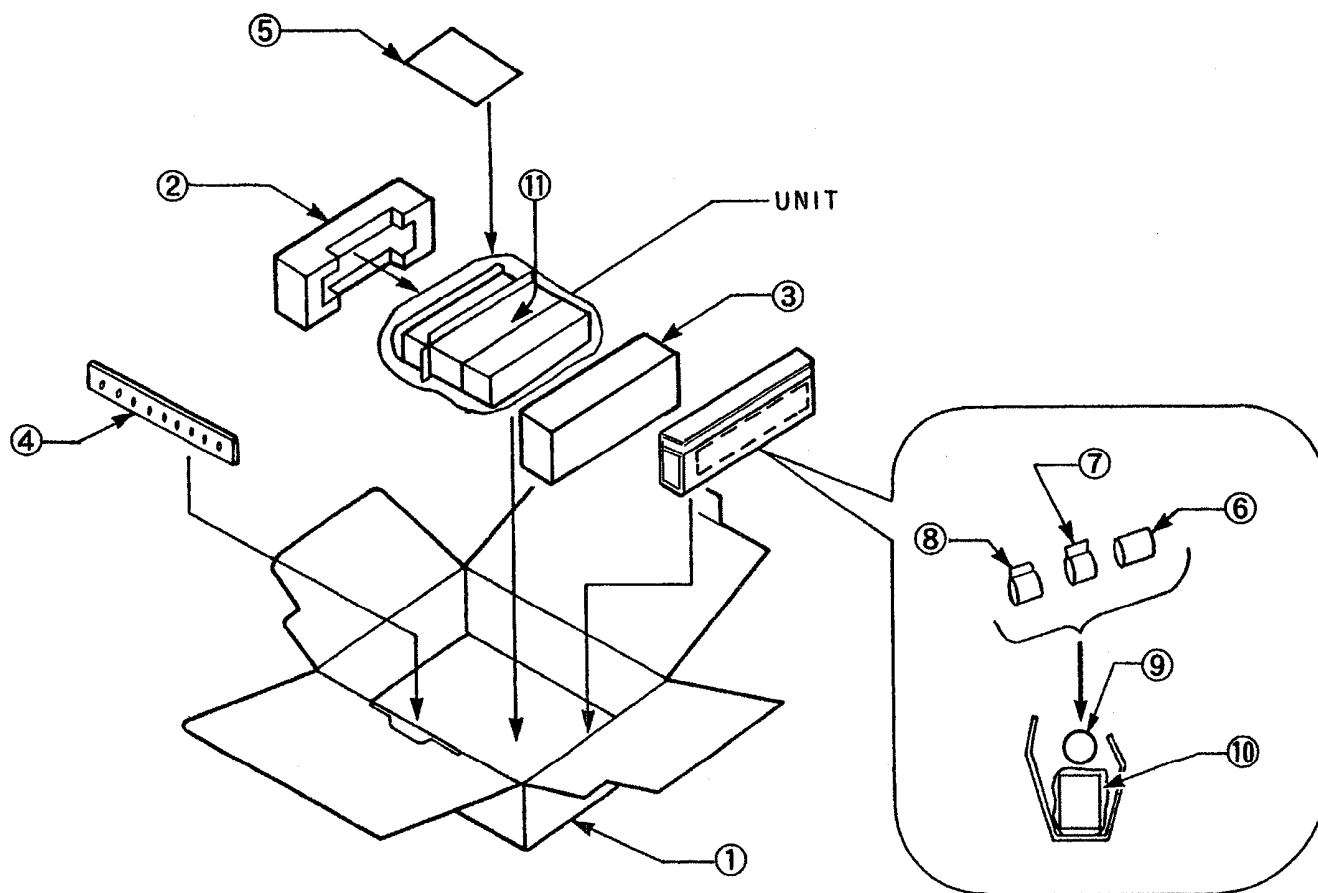
Ref. No.	Part No.	Part Name & Description	Remarks
133	RMM0156	Slider B	V(3-C)
134	RMQ0597	Screw	V(2-C)
135	RMR0951-W	Disc Guide	V(2-C)
136	RXK0201	Upper Chassis	V(4-C)
137	RXL0134	CD Detect Lever L	V(3-B)
139	RXL0136	Control Arm	V(3-C)
140	RMB0462	Spring	V(3-B)
141	RMC0295	Drive Shaft Retainer	V(3-B)
142	RMC0293	Clamper Retainer	V(4-B)
143	RML0429	Clamp Arm	V(4-B)
144	RMQ0467	Screw	V(4-B)
145	RMR0956-W	Clamper	V(4-B)
146	RMB0345-2	Spring	V(4-A)
147	RMB0445	Spring	V(1-B)
148	RMB0467	Spring	V(2-B)
149	RXK0199	Traverse Chassis	V(4-A)
150	RFXPAJ2751K	Spindle Motor	V(3-A)
151	RAF0140A	Optical Pickup	V(3-B)
152	RMC0294	Optical Pickup Retainer	V(3-A)
153	RXJ0018	Drive Shaft	V(3-A)
154	RXQ0474	Board Nut	V(3-B)
155	XQN17+BG45	Screw	V(3-B)
156	REM0061	Traverse Motor	V(3-B)
157	XTW2+6S	Screw, 2mm * 6mm	V(3-B)
158	XQN2+CJ8	Screw, 2mm * 8mm	V(4-C)
159	XTW2+6S	Screw, 2mm * 6mm	V(2-A)
160	RMB0463	Spring	V(2-A)
161	RMB0464	Spring	V(1-B)
162	RXQ0476	Holder	V(3-B)
162-1	RMA0921	Terminal Board	V(3-B)
163	RDP0084	Pulley	V(3-B)
164	RDV0030	Belt	V(2-B)
165	RMQ0461	Screw	V(4-A)

15 EXPLODED VIEW (CD Deck)

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



16 Packing Parts List

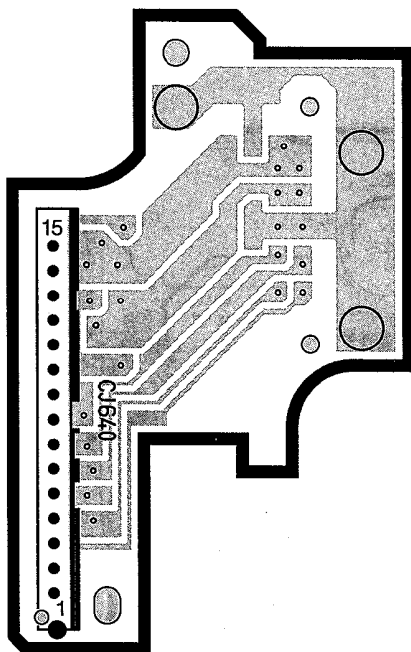


● Item numbers listed below should not order regular spare parts. **(not available)**

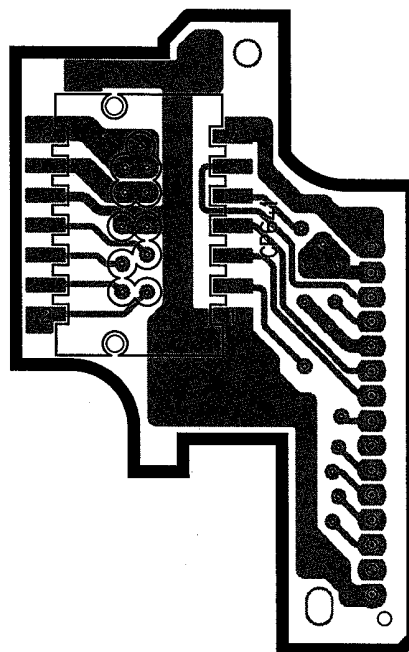
Item No.	Part No.	Part Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Packing Pad Front	1	Not available
3	-	Packing Pad Rear	1	Not available
4	YEFG04019	Rear Support Strap	1	
5	-	Instruction Book Kit	1	Not available
	YEFM283521	Instruction Book <CQ-DF800U/CQ-DFX700U>	(1)	
	-	Warranty Card	(1)	Not available
	-	Servicenter List	(1)	Not available
6	YEP9FZ2714	Screw Kit	1	
7	CR2025/1F	Battery	1	
8	YEFX9992012	Remote Control Unit	1	
9	YEAJ02792	Power Connector	1	
10	YEFA131302	Removal Face Plate Case	1	
11	YEFX0214198	Mounting Collar	1	

17 WIRING DIAGRAM

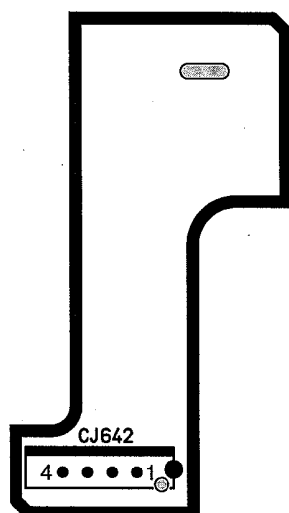
17.1. Interface/Front SW Block



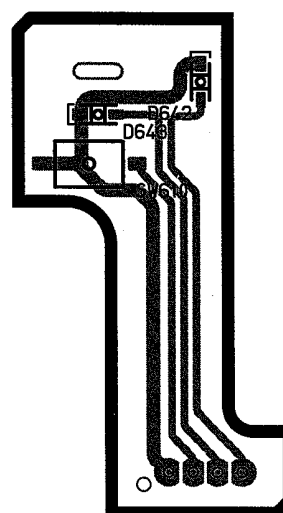
[E-8497Ba]
[Bottom View]



[E-8497Ba]
[Top View]

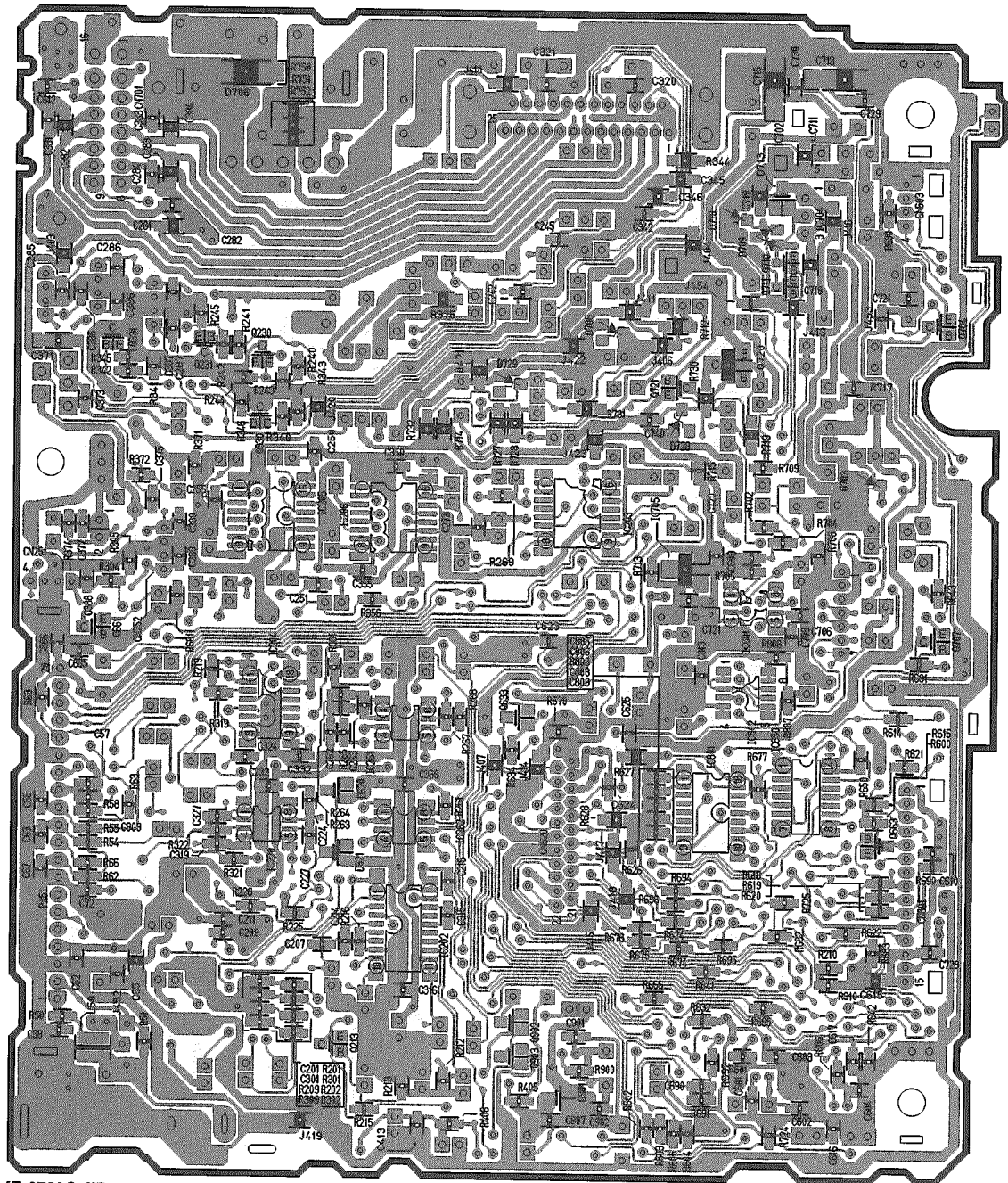


[E-8497Bb]
[Bottom View]



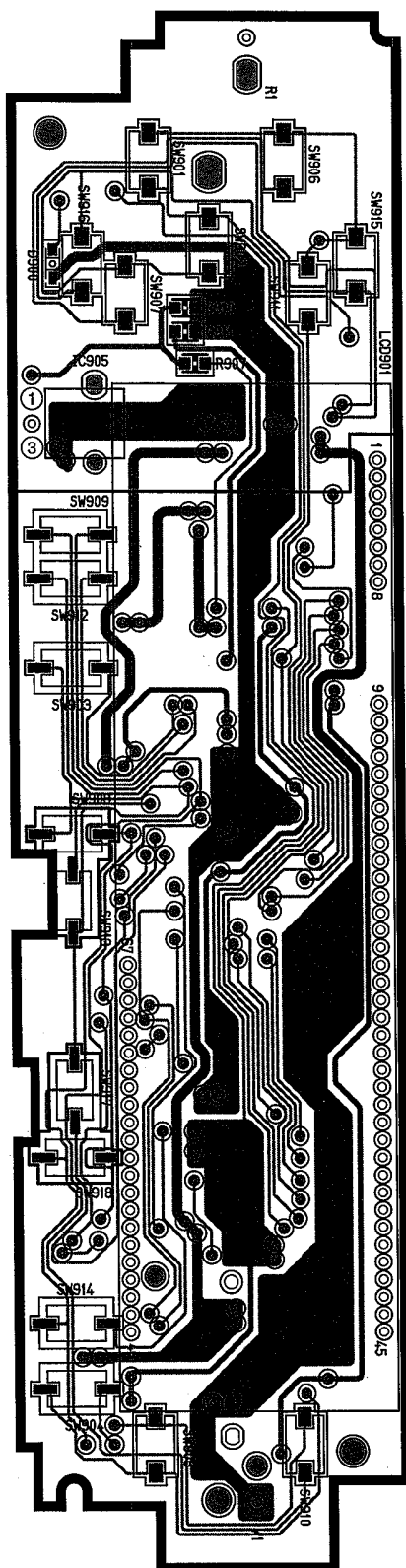
[E-8497Bb]
[Top View]

17.3. Main Block (2)

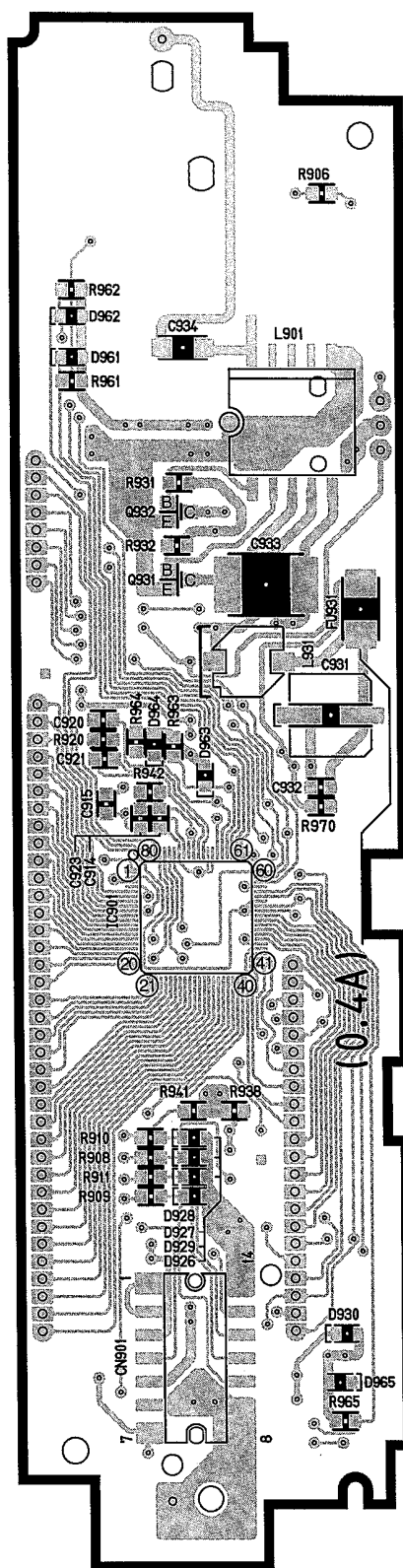


[E-6730Ca][Bottom View]

17.4. Display Block

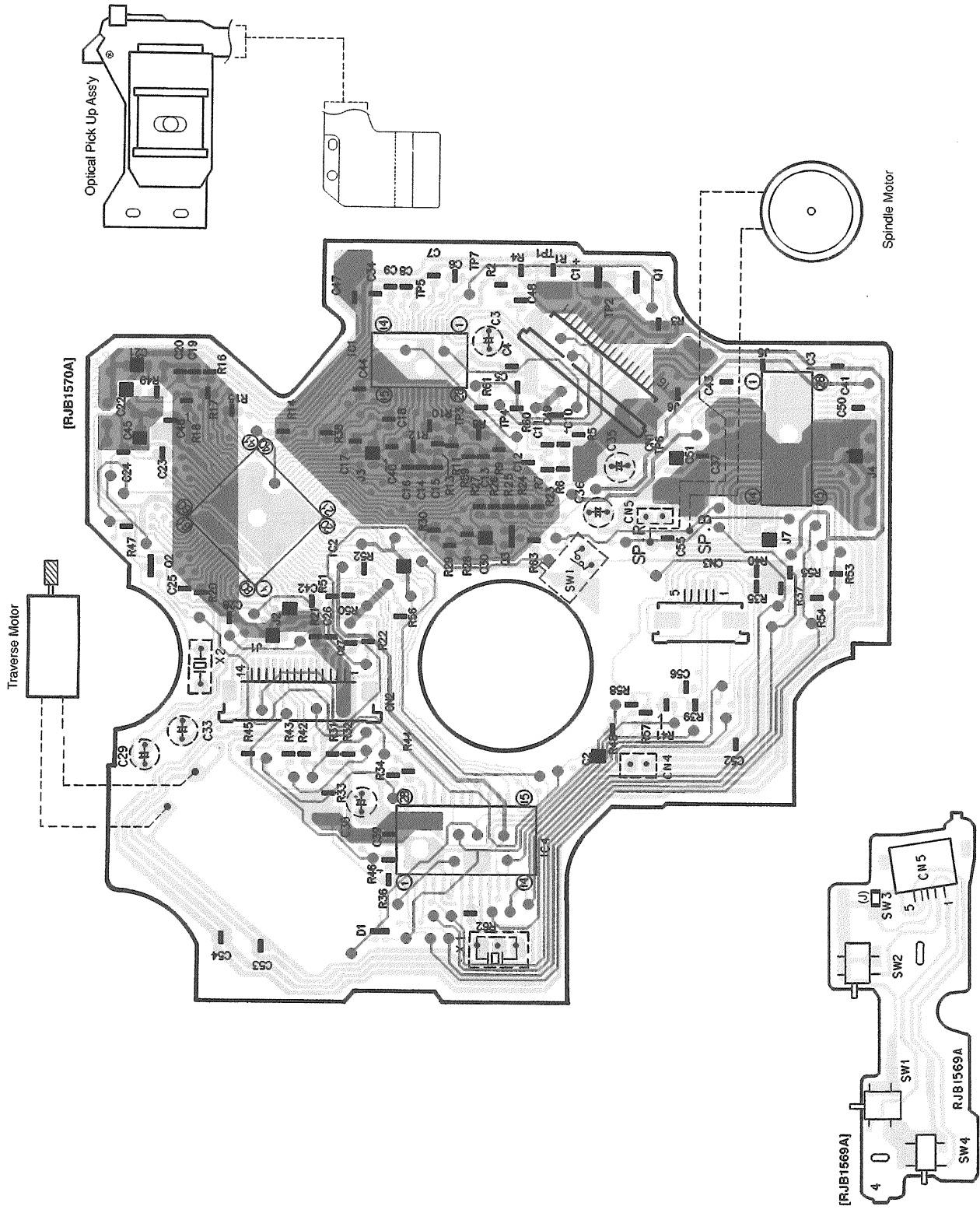


[E-8773A]
[Top View]



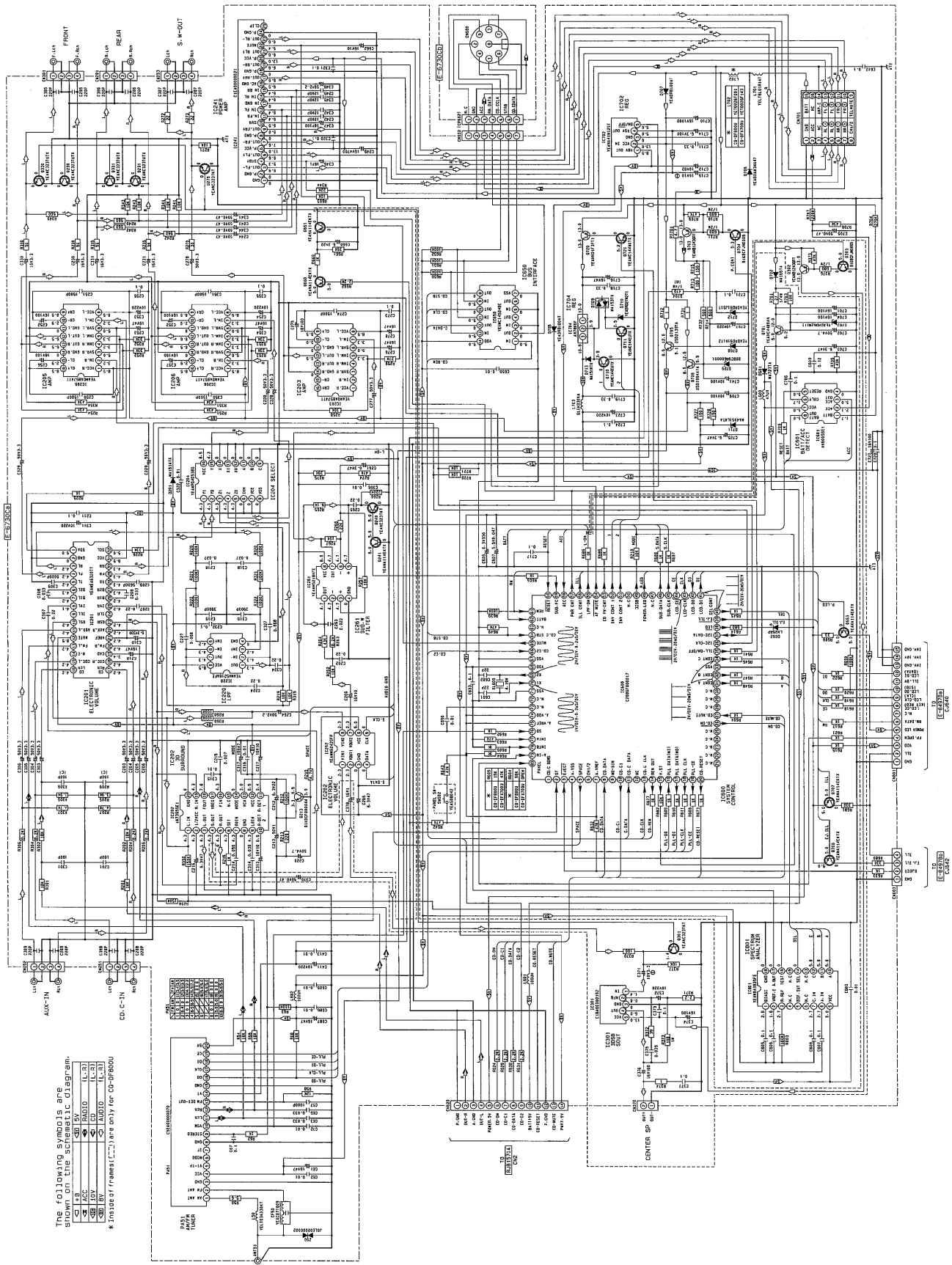
[E-8773A]
[Bottom View]

17.5. CD Servo Block



[illegible]

18.2. Main Block



18.3. CD Servo Block

