Service Manua

AUTOMOTIVE CONSUMER ELECTRONICS





CQ-DFX600N CQ-DFX400N

High-Power CD Player / RDS Receiver with Changer Control

Specification*

General

Power Supply

DC 12V (11V - 16V),

Test Voltage 14.4V

Negative Ground

Tone Adjustment Range

Current Consumption

0.5W-Speaker)

Maximum Power Output

Power Output

Speaker Impedance

Pre-AMP Output Voltage

Pre-Amp Output Impedance

Sub-Woofer Output Voltage

Bass; ±12dB at 100Hz

Treble: ±12dB at 10kHz

Less than 2.5A (CD play mode,

45W×4ch (at 4Ω)

22Wx4 (DIN45 324, at 4Ω)

 $4-8\Omega$

2.0V (CD play mode)

 600Ω

2V

LW Radio

Sampling Frequency

Pick-Up Type

Wavelength

Frequency Response

Signal to Noise Ratio

Wow and Flutter

Channel Separation

Frequency Range 153 - 279kHz

Usable Sensitivity

32dB/µV (S/N 20dB)

CD Player

Light Source

8 times over sampling Astigma 3-beam

Semiconductor Laser

780nm

20Hz to 20,000Hz (±1dB)

96dB

Below measurable limits

75dB

Dimensions**

178×50×150mm

Weight**

1.6kg

MW Radio

Frequency Range

FM Stereo Radio

Frequency Range

Usable Sensitivity

Usable Sensitivity

531 - 1,602kHz

87.5 - 108.0MHz

6dB/µV (S/N 30dB)

28dB/µV (S/N 20dB)

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

** Dimensions and Weight shown are approximate.

Panasonic

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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 \triangle 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.

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DFX600N

Multi Color

DFX400N

Blue

1 FEATUERS

- · PLL (Phase Locked Loop) synthesized tuning.
- · 18-FM, 6-AM presets with preset scan
- · RDS (Radio Data System) function.
- · Digital servo for reliable CD playback.
- · CD changer control function.

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

4 NOTES

[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]

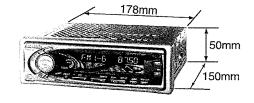
This model has no servo alignment points because microcomputer controls the servo circuit.

[OTHER]

This operating instruction manual is for 2 models CQ-DFX600N and DFX400N. All illustrations throughout this manual represent model CQ-DFX600N unless otherwise specified. The following table describes the differences between 2 models.

Remote Control Supplied Option 5 DIMENSIONS

LCD Color



OPERATING INSTRUCTIONS

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- Label Indications and Their Locations
- · Indications portées les étiquettes et emplace-
- APPAREIL À LASER DE CLASSE 1 KLASS 1 LASER APPARAT LUOKAN 1 LASERPLAITE

Indicaciones de las etiquetas y su ubicación VORSICHT!

UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET IST NICHT DEM LASERSTRAHI AUSSETZEN

 Aanduiding van de labels en hun plaats Varningsskyltarna, och deras placering
 indicazioni delle etichette e le loro posizioni





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onic welcomes you to their constantly growing family of electronic products owners.

Panasonic welcomes you to their constantly growing family of electronic products owners.

We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

Precautions

Volume Level
For your driving safety, keep the volume level low
enough to be aware of road and traffic conditions.

Car Washing
To avoid electrical shorts which may cause fire, or other damage, do not expose this product (including the speakers and CDs) to water or excessive moisture.

Car Ventilation

Car Ventilation If your car is parked for several hours in direct sun-light, the temperature inside the car may become very high. It is advisable to drive the car and give the interior a chance to cool down before switching the unit on.

Power Supply
This product is designed to be used in a car having 12-volt negative ground battery system.

Disc Mechanism

Do not insert coins or any small objects. Keep screwdrivers and other metallic objects away from the disc mechanism and disc.

Service
This product is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult your nearest authorized Panasonic Service Center.

About Preset Memory
The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.

Note: This operating instruction manual is for two models CQ-DFX600N and CQ-DFX400N. The differences between these models are mentioned below. All illustrations throughout this manual repre-sent model CQ-DFX600N unless otherwise specified.

Features Model	CQ-DFX600N	CQ-DFX400N
_CD Color	Multi Color	Blue
Remote Conotrol	Supplied	Option

Laser Products

Caution:
This product utilizes a laser.
Use of controls or adjustments or performance may result in hazardous radiation exposure

Laser products: 780 nm

Wave Length Laser Power No hazardous radiation is emitted with safety protection

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

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Precautions (ISO Connector)

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

Table 1

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

- · Make sure the ISO connector arrangement in your car side is as the same as the stan-
- dard ISO. (Table 1, Fig. 1)

 In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint (*) as shown in Fig.1.

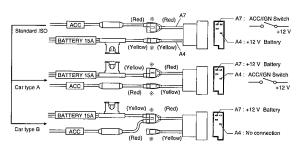


Fig.1

• After fixing the connections, the part (*) should be insulated with electrical tape to keep away from unit damage.

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 2 seconds to switch off the power. When the power is switched off, the panel removal alarm sounds. (See page 41 about the penel removal alarm.) Note: When the power is switched on for the first time, a demonstration message appears on the display. To cancel this display, press [•] (DISP/CT).



Volume

Press [∧VOL] or [√VOL] to increase or decrease the volume.



Volume Level (0 to 40)

ress and hold [\timesVOL] or [\timesVOL] for more than 0.5 seconds to

Note: In the audio mode, the display will be back to regular operation mode with no operation for more than 5 seconds (2 seconds in the VOL mode).

Anti-Volume-Blast Circuit

This unit has a safety function which slowly raises volume level when power is switched back on after it is turned off at a specific level (20) or higher.



Mute (Only for Remote Control)

Press [MUTE] to mute the sound completely.



Press [MUTE] again to cancel

S•HDB (Super High Definition Bass)

Especially for rock music, the bass-sound will be more powerful.

• Press [HDB](S•HDB) to be able to listen to high-definition bass.

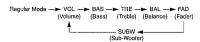


• Press [HDB](S • HDB) again to cancel.



Audio Mode

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



Note: In the audio mode (BAS/TRE/BAL/FAD/SUBW), the display will be back to regular operation mode with no operation for more than 5 seconds (2 seconds in the VOL mode).

Bass and Treble

Press [SEL] to change to the bass (or treble) mode. Press [\(\sigma VOL\)] or [\(\sigma VOL\)] to increase or decrease the bass (or treble) level by 3 dB step.







Balance

Press [SEL] to change to the balance mode. Press [/\VOL] or [/\VOL] to shift the sound volume to the right or left speakers.





Fader

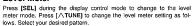
Press [SEL] to change to the fader mode. Press [\NOL] or [\NOL] to shift the sound volume to the front or rear speakers.



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Level Meter Press [SEL] durin



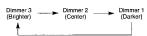


([VTUNE]: opposite direction)

Palasas Vol.

Dimmer

Press [SEL] during the display control mode to change to the dimmer change mode. Press [\/TUNE] to change the dimmer level settling as follows. (Default: Dimmer 3)



([\ TUNE] : opposite direction)

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Power and Sound Controls (continued)

Sub-Woofer



Sub-Woofer Volume

Press [SEL] to change to the Sub-Woofer volume mode. Press [\VOL] or [\VOL] to increase or decrease the Sub-Woofer volume.

SUBW

Sub-Woofer Volume Level: MUTE (0) to 8

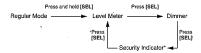
VOL CHIEF

Display Controls



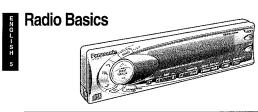
Change to the Display Control Mode

Press and hold [SEL] for more than 2 seconds to change to the display control mode.
 Press [SEL] to change the display control mode as follows.



* See page 41 about the Security Indicator.

Note: In the display control mode, the display will be back to the previous mode with no operation for more than 5 seconds.



Val. Citation

Tuner Mode

Press [SOURCE] to change the source as follows.



FM 1 8750



Band

The stereo indicator lights during reception of an FM stereo broadcast.



Manual Tuning

Press [\land TUNE] or [\lor 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. Seeking will automatically stop when a signal of the next broadcast station is received.

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Station Preset

FM1, FM2, FM3 and AM (LW/MW) can save maximum 6 stations each in their preset station memories

Caution: To ensure safety, never attempt to preset stations while you are driving.



Manual Station Preset

Press [BAND] to select a desired band.

② Use manual or seek tuning to find a station which is to be preset in

③ Press and hold one of the preset buttons [1] to [6] for more than 2 seconds until the display blinks once.



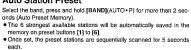
FM I- 1 88.70

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

Preset Number



Press and hold -





Tuning in a Preset Station

corresponding preset buttons [1] to [6] to tune in a preset sta-

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RDS (Radio Data System) Reception

Many FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.

AF (Alternative Frequency)
When receiving condition becomes poor, an RDS station with the same program will be automatically

EON (Enhanced Other Networks)
When EON data is received, the EON indicator lights and the TA and AF functions are expanded.
TA: Traffic information from not only the electrics.

tuned in to but also other stations of the same network can be received.

AF: The frequency list of the RDS stations preset by received EON data is updated.

PS (Program Service Name)
When an RDS station is received, the name of that station is automatically displayed instead of the frequency. When [•](DISP/CT) is pressed during PS display, the frequency appears on the display for 3 seconds, then PS display returns.

PI (Program Identification)

If a preset RDS station is poor in receiving condition when it is selected, the automatic seek (PI Seek) starts to seek the same program and tune in to it.

PTY (Program Type)

ation signal Example: News, rock, classical music, etc.

TA (Traffic Announcement)

When an FM station that periodically provides the latest traffic information is received, the TP indicator lights. If TA ON is set, FM traffic information automatically interrupts your listening to a CD or CD changer until it ends, then you will listen again to whatever you have been listening to.

Rest Station Research

best station research. If a preset RDS station is in poor condition of reception when you try to tune in to it, the best frequency is selected from the AF list of that station.

REG (Reglon)
The AF, Best Station Research, PI Seek functions will be as follows:
REG ON: The frequency changes only with the same regional program. This function is mainly used while
driving in the same area, for example, in a city.
REG OFF: The frequency changes even with a different regional program if the station is in the same network. The broadcast may be different depending on the case. This function is mainly used when driving far from one region to another.

What Provides EON Capabilities

EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently funed in to. So, even if you change preset far from home, you will be able to receive the same station at an alternative frequency, or another station serving the same program if any. EON also keeps track of locally available TP stations for quick reception.

Note: When you're in AF ON mode, auto preset memory only works for RDS station. When in TA ON mode, it only works for TP stations. To make auto preset for ordinary stations, cancel AF mode and change to TA off in advance.

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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
- At the LOCAL setting, only strong signals of stations are searched in seek tuning, white at the LOCAL OFF setting, relatively weak signals are also searched.



1) FM Broadcasts

Press and hold [PTY](MONO/LOC) to change the mode until the desired

MONO OFF -- MONO ON LOCAL OFF



2 AM Broadcasts

Press [PTY](MONO/LOC) to switch the Local mode as follows

LOCAL OFF - LOCAL ON

RDS (Radio Data System) Reception (continued)





RDS Reception

Press [AF] when receiving a station in the FM1, FM2 or FM3 band.

• The AF ON/OFF can be set in each FM band.

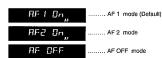
BBC R4 1

- Select AF ON if you wish to use the AF network of an RDS station. Best station research is activated at the same time.
 Select AF OFF if the AF network of an RDS station is not necessary.



Changing AF Mode

Press [AF] to change AF ON and activate best station research at the same time. (3 seconds maximum)



. Default mode is AF1.

Descutiffication and a few level of AF operating sensitivity in urban areas. Therefore, AF does not frequently operate even when sensitivity is temporarily lowered between skyscrapers, for example.

3. AF2 is for suburban areas with a higher level of sensitivity than AF1.

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For Seek Tuning, RDS Station Preset, Tuning in a RDS preset station, and Auto RDS Station Preset, please refer to Radio Basics (name 29 to 24)



RDS Seek Tuning (PI Seek)

The PI seek function may be used if an RDS station selected from the memory is poor in receiving condition. Press the preset button again for the station now tuned in to.

PI seek: If Best Station Research fails in selecting the best station, the

PI seek function operates to automatically tune in to the same program.





Region (REG) Switching

Press and hold [AFI(REG) for more than 2 seconds in AF mode to alternately select between REG ON and REG OFF.



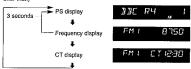
Note: If you wish to stay with the same program, keep REG ON. In REG OFF mode, there is a higher possibility of returning to an AF station in better receiving condition.

The relationship of the PI seek function with REG ON and REG OFF is



Changing Display

Press [*](DISP/CT) to change the display as follows. (Frequency display continues for only 3 seconds, returning to PS display



Clock Time (CT) System

The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" appears on the display in areas where no CT





Press [*](DISP/CT) to indicate the clock display.

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TP Seek Tuning

Press and hold [\TUNE] or [\TUNE] for more than 0.5 seconds, then release. The seeking automatically stops at the next available TP sta-

Auto TP Station Preset

Press and hold [BAND](AUTO • P) for more than 2 seconds. The six strongest available TP stations are automatically saved in the memory on the preset button [1] to [6]. Once saved, the preset stations are sequentially scanned for 5 seconds



Tuning in a TP Station Preset

Press any of the preset buttons [1] to [6] that you want to listen to. Best Station Research function is activated to automatically select the strongest available frequency for the TP station (through the built-in frequency) lists, if reception is weak.



Muting TA on

Press and hold [TA] for more than 2 seconds to light "TA on". Then Traffic Announcement (TA) function is activated to operate, allow-ing you to listen to only Traffic Program whenever it is available.

Muting TA on Canceling (Muting TA on \rightarrow TA on)

Press [TA] again.

Or press [\(\subseteq \text{VOL} \)] to increase the volume level.

TP Auto Search

If receiving conditions are poor when TA is on during muting and if there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically searched for



CD/CD Changer TA on

Press [TA] during CD or CD changer mode.
When TA on mode is selected while listening to the source in that mode, wait for Traffic Announcement to begin.









Switching to TA off Mode

- Select either one of the following steps.

 Press [TA] when TA is on.

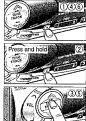
 Press [TA] when TA is on.

 Press TA] when CD/CD changer TA is on.

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RDS (Radio Data System) Reception (continued)



Initial Time Setting

- Initial IIIIP Setting
 Press [RAND] to change to AM mode.

 ① Press [4](DISP/CT), **NO CT' appears on the display.
 ② Press and hold (*)(DISP/CT) again for more than 2 seconds, *hours* blinks and the time setting mode is activated.
 ③ To set hours, press (*\TUNE) or (*\TUNE) to change numbers rapidly.
 ④ Press (*\text{!}(DISP/CT) again for minutes setting.
 ⑤ To set minutes, press (*\TUNE) or (*\TUNE).
 ⑥ Atter setting the lime, press (*\text{!}(DISP/CT).

- Notes:

 If CT display is kept on, it remains on even if [SOURCE](PWR) and accessory are turned off and back on again.

 In other modes, press [4](DISP/CT) to get RDS CT-service.

B. TP Reception



Select Traffic Announcement (TA on) Mode

Press [TA] to switch on and keep it there when you wish to listen to traffic information. Press [TA] again to switch off.



Volume Setting (Only for TA on Mode)

Adjust the volume as desired by pressing [</WOL] or [</WOL] while receiving Traffic Announcement. (TA)
After volume for Traffic Announcement (TA) is set, the difference between normal volume and TA volume is automatically stored in the memory (up to 5 levels) so that next traffic information will be received at the preceding TA volume which may be higher or lower than normal volume.

ume.

Normal volume can be changed up to 5 levels upward or downward.

If the volume level is over 40 or less than 0, any further change will not



When receiving a station other than TP station (Including EON sta-

tions) A traffic information station is automatically searched for and the radio automatically stops the next available TP station. EON capabilities: EON lats the radio take advantage of much more RIDS information than before. It constantly updates the AF lists for all switch presets far from home, you will receive an alternative frequency for the same station, or souther station covering the same generative. another station carrying the same program, when such exists. EON also keeps track of locally available TP station.



RDS (Radio Data System) Reception (continued)

C. PTY Reception

TY service may not be available.)



Switching to PTY Mode

Press [PTY] to select PTY display mode, and the PTY of the broadcast now received appears on the display.

CLASSICS

"NO PTY" appears on the display if there is no corresponding program

NO PTY



Changing PTY Display Language

The display language can be changed to Swedish as required.

Press [•](DISP/CT) in PTY mode to alternate the language between English and Swedish

Press [•](DISP/CT)





Program Type Selection

Press [\TUNE] or [\TUNE] to select the program type as follows.

SPEECH - MUSIC - NEWS - AFFAIRS - INFO - SPORT - EDUCATE - DRAMA ROCK M - POP M - VARIED - SCIENCE - CULTURES M.O.R.M - LIGHT M - CLASSICS - OTHER M - WEATHER - FINANCE LEISURE - TRAVEL - PHONE IN - RELIGION - SOCIAL A - CHILDREN JAZZ - COUNTRY - NATIONAL - OLDIES - FOLK M - DOCUMENT

When a desired selection has been made, press [BAND]. Then automatic seek will start to tune in to the station broadcasting the selected

Note: Seek tuning does not operate as long as "NO PTY" appears on



Table of PTY Code and Program Type

Press any of the preset buttons [1] to [6] according to your preference Those buttons already have the program types as follows. (Default set

<Preset PTV>

Preset No.	1	2	3	4	5	6
Program Type	News	Speech	Sport	Pop. Music	Classics	Music
Display	NEWS 1	SPEECH 2	SPORT 3	PBP # 4	CLASSICS S	MUSIC 6
	NEWS	AFFAIRS INFO EDUCATE DRAMA CULTURES SCIENCE VARIED WEATHER FINANCE CHILDREN SOCIAL A RELIGION PHONE IN TRAVEL LEISURE DOCUMENT	SPORT	POP.M	CLASSICS	ROCK M M.O.R.M LIGHT M OTHER M JAZZ COUNTRY NATIONAL OLDIES FOLK M



Program Type Preset

Press and hold one of the buttons [1] to [6] for more than 2 seconds to preset the desired program type selection in the button.



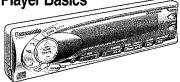
Tuning in a PTY Preset Station

Press any of the preset buttons [1] to [6] that you want to listen to.

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Compact Disc Player Basics

Caution: Only 12 cm CD is available for this unit.





Mode Selection

When a disc is in the deck, press [SOURCE] to change the source as



וַסִים וְסַנּבּ Track Number Play Time

Disc Insert

Press [OPEN] to open the front panel.
 With the label side up, insert the disc.
 Close the front panel manually. Play will start automatically.

2

Cautions:

• When the front panel is opened, do not force it down and do not put anything on it because these may result in damage to the unit.

• Do not use Irregularly-shaped (heart-shaped, octagon, etc.) CD. Fallure to observe this may cause malfunction.

Note: While a disc is inserted, no sound is heard (MUTE). And the volume is back to the previous level when the front panel is closed com-

Note: When a disc is in the deck, " @ " indicator lights.



Disc Eject

① Press [♠] to open the front panel.
② Press [♠] to stop CD play, and the disc will be quietly ejected from the CD slot.

Caution: When ejecting a CD, do not close the front panel until the disc is ejected and removed from the CD slot completely.

Note: While the disc is ejected, no sound is heard (MUTE). And the volume is back to the previous level when the front panel is closed com-

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RDS (Radio Data System) Reception (continued)



Searching for PTY

Select the desired station from preset in the preset number buttons [1] to [6]. Then, the preset PTY and that preset number appear on the display for 5 seconds.



② While the desired type from 6 presets appears on the display, take either of the following two steps.
a) Press the same preset button again.
b) Press [BAND].
If the desired PTY station is available, it is directly received. If it is not, "NO PTY" blinks and the radio returns to the station that was received before the search.



Press the same button again to cancel



Canceling of PTY Mode

Press [PTY] to cancel.

The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

Emergency Announcement Reception

(Some areas are not covered by emergency announcement service.)
If an emergency announcement is broadcast in multing TA on/CD/CD changer mode, the radio is automatically selected to receive the emergency announcement. 30. gency announcement. "ALARM" blinks

Compact Disc Player Basics (continued)



Track Selection

Press [PTRACK] once to go to the next track.
Press [4TRACK] once to play from the beginning of the track you are listening to. Press twice to play the previous track.
Press repeatedly to skip the desired number of tracks.

Track Search

Press and hold [◄◀TRACK] or [▶►TRACK] for more than 0.5 seconds to activate reverse through or fast forward a track.
Release [◄◀TRACK] or [▶►TRACK] to resume the regular CD play.



Track Repeat

Press [6](REP) to repeat the current selection.
 Press [6](REP) again to cancel.





Random Selection

Press [4](R ►). A random selection of music is played from all available tracks.

Press [4](R ►) again to cancel.



Note: When [6](REP) is pressed in the random mode, random play stops and repeat play starts.



Track Scan

Press [5](SCAN). The display will blink and the first 10 seconds of each track on the disc will play in order.

Press [5](SCAN) again to cancel.





Changing the Display

Press [*](DISP/CT) to switch the display as follows





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CQ-DFX600/DFX400N



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.

CD Player CD Changer Control
(When a disc is inserted) (When a CD changer is connected)





Disc Selection

Press [1](\DISC) or [2](\DISC) to select a disc in descending or ascending order.

3-01 12/34

Then, the selected disc will start to play from the first track.

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.
- Press [►►TRACK] or [◄◄TRACK] repeatedly to skip the desired number of tracks.



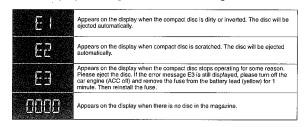
Track Search

- Press and hold [►TRACK] or [◄◄TRACK] for more than 0.5 seconds to activate fast forward or reverse.
 Relaase [►TRACK] or [◄◄TRACK] to resume regular CD changer play from the released position.

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Changing the Display Disc/Track/Play Time CT Display 3-01 12/34 ET 1421

Error Display Messages for CD/CD Changer



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CD Changer Basics (continued)



Track Repeat

Press [6](REPEAT) to repeat the current selection



• Press [6](REPEAT) again to cancel



Track Random

Press [4](RANDOM). All the available tracks on all dises in the maga-zine will be played in a random sequence.



• Press [4](RANDOM) again to cancel.

Note: When [6](REPEAT) is pressed in the random mode, random play stops and repeat play starts



Track Scan

Press [5](SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.



· Press [5](SCAN) again to cancel.



Disc Scan

Press and hold [5](SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.



• Press [5](SCAN) again to cancel.

Remote Control Basics (CO-DEXGOON: Supplied CO-DEXGOON: Option

Battery Installation

 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 in the battery holder back into its original position.

⑦ Lithium Sattery ⊕ (\pm) Position B

Battery Notes

Remove and dispose of an old battery immediately. Battery Information:

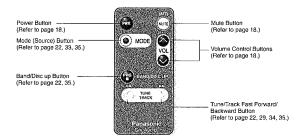
- Battery type: Panasonic lithium battery (CR2025)
 Battery Life: Approximately 6 months under normal use (at room temperature)

Caution: Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a lire. Battery leakage may damage the unit.

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

Main Controls -

For details of each function, refer to the pages in parentheses. Some of the functions may not be usable even if they are shown.



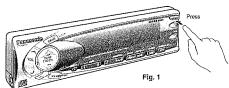
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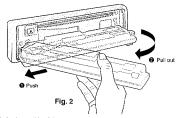
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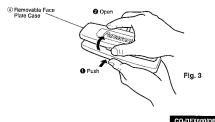
This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

To Remove the Removable Face Plate

Switch off the power.
 Press [OPEN]. The face plate will be opened.







Installation

Security Indicator

Display

LEI On

LEB OFF

Activate Security Indicator

The security indicator blinks when the removable face plate is removed from the unit. (See Fig. 4 on previous page.)

1. ① Press and hold [SEL] for more than 2 seconds to change to the display control mode when the powe So On:

Security indicator mode. (See page 20.)

Press [ATUNE] or [ATUNE] to turn the security indicator on or off. (LED on or OFF)

(Default: The security indicator is on.)

To check whether the unit is set in the LED On mode, make sure that the security indicator blinks when the removable face plate is removed.

Note: In the display control mode, the display will be back to the previous mode with no operation for more than 5 seconds.

This alarm sounds to warn you not to forget to remove the panel before leaving your car. This function is activated when the security indicator is on.

Panel Removal Alarm

ON

OFF

CQ-DFX600/DFX400N

-- 182 mm

Fig. 6

Diagram Q'ty

(±)

SID

1

1

Note: "LED On" appears on the display when the security indicator is on.

(Press [/\TUNE] or [\/TUNE].)

Security Indicator

Blinks

OFF

Panel Removal Alarm

Preparation

- Before installation, check the radio operation with antenna and speakers.
 Disconnect the cable from the negative (-) battery terminal (see caution below).
 Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more

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

In-dash Installation

Installation Opening In-dash installation can be done if the car's dashboard has an opening for this unit as shown in Fig. 6. The car's dashboard should have a thickness of $3\,$ mm - 6 mm in order to make the installation of the unit.

Installation Precautions

This product, if possible, should be installed by a professional installer

- In case of difficulty, please consult your nearest authorized Panasonic Service Center.

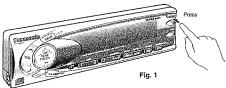
 1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.

 2. Follow the electrical connections on pages 45 to 46 carefully. Failure to do so may result in damage to the unit

- Follow the electrical connections on pages 45 to 46 carefully, Faiture to do so may result in damage to me unit.
 Connect the power lead (red) after all other connections are made.
 Be sure to connect the battery lead (yellow) to the positive terminal (+) of the battery or fuse block (BAT) terminal.
 Insulate all exposed wires to prevent short circuiting.
 Secure all loose wires after installing the unit.
 Please carefully read the operating and installation instructions of the respective product before connecting it to this unit. it to this unit.

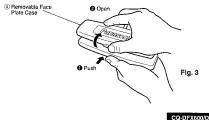
Supplied Hardware

No.	Item	Diagram	Q'ty	No.	Item
1	Mounting Collar		1	(5)	Remote Control Unit (only for CQ-DFX600N)
2	Mounting Bolt (5 mme)	₽gg .	1	6	Trim Plate
(3)	Power Connector		1	1	Lithium Battery (CR2025) (only for CQ-DFX600N)
4	Removable Face Plate Case		1	(8)	ISO Antenna Adaptor



③ Push the face plate to either the right or left, then pull it out toward you.

(4) As shown in Fig. 3, gently push the lower side of the case and open its cover. Keep the face plate in the case. Then, you can bring the plate safely.



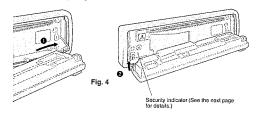
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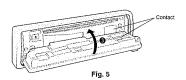
Anti-Theft System (continued)

To Install the Removable Face Plate

① Fit eilher the edge of the right or left hole in the face plate over the main unit's pins. ② Fit it over on the other side while pushing it.



③ 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. Close the front panel and press the right side of face plate until "click" is heard.



Cautions:

1. Before removing the face plate, make sure the power is off.

2. This face plate is not water-proof. Do not expose it to water or excessive moisture.

3. Do not remove the face plate while driving your car.

4. Do not place the face plate on the dischoord or nearby areas where the temperature rises to high levels.

5. Do not touch the contacts on the face plate or on the main unit, since this may result in poor electrical

contacts.

6. If dirt or other foreign substances get on the contacts, wipe them off with clean and dry cloth.

7. Do not apply a strong downward force onto the face plate and do not put anything on it while it is open or it might be damaged.

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When banding the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.

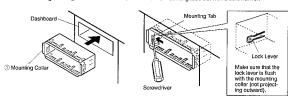
 We strongly recommand you to wear gloves for installation work to protect yourself from injuries.

Installation Procedures

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

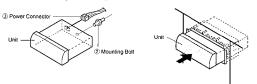
1. Secure the Mounting Collar ①.

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



2. Secure the rear of the unit.

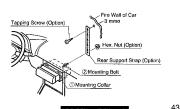
- a) Check the electrical connections by referring to this operating instructions.
 b) Connect Mounting Bott (2), using a suitable wrench.
 c) Insert Power Connector (3) to the unit.
 d) Insert the unit into Mounting Collar () and push it in until "click" is heard.



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

Using the Rear Support Strap

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



CQ-DFX600/DFX400N

Electrical Connections

- Cautions:

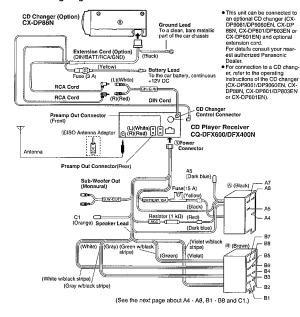
 Confirm the note on page 4, and make connections to the connectors on car side.

 This product is designed to be used in a car having 12-volt negative ground statery system.

 To prevent damage to the unit, be sure to follow the connection diagram below.

 Remove the covering of the leads about 5 mm long from their end before connecting. (the cords except for ISO connector's cords)
- Do not insent the power connector into the unit until the wiring is completed.
 De sure to insulate any exposed writes from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from louthing any metal parts.

Cable Wiring Diagram

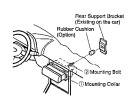


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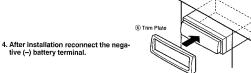
45

Installation (continued)

• Using the Rubber Cushion (Option)
(If there is an existing Rear Support Bracket on the fire wall of car.)
Cover Mounting Bolt ② on the rear of the unit with Rubber Cushion, and mount it into the existing Rear

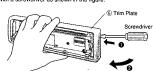


3. Insert Trim Plate (6)



To Remove the Unit

a) Remove the removable face plate. (See page 39.) b) Remove Trim Plate (a) with a screwdriver as shown in the figure



c) Pull out the unit while pushing the lock lever using screwdriver. (Fig. 7, Fig. 8)
 d) Remove the unit pulling with both hands. (Fig. 9)



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Electrical Connections (continued)

Loudspeakers (connector ® : B1 - B8)

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

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Battery Lead (Yellow)
To the car battery, continuous +12V DC

Ground Lead (Black)
To a clean, bare metallic part of the car chassis

Motor Antenna Relay Control Lead (Dark blue) (To Motor Antenna) (Max. 500 mA) This lead is not intended for use with switch actu-

This lead is not interned to the second ated power antenna.

Amp. Relay Control Power Lead (Dark blue)
This lead is for connection to Panasonic power amplifier.

Power Lead (ACC or IGN) (Red) To ACC power, +12V DC

Telephone Mute Lead (Orange)

Connect to the car telephone mute lead.

Note: This telephone mute lead is for connection only to the radio mute lead. Be sure to ascertain this because it will not work with other type of out-

Navi Mute Lead (Orange) Connect to the Navi Mute lead of the Panasonic car navigation system (for example, CN-DV2000 EN).

Notes:

Telephone Mute
The sound from the speakers cannot be heard while the telephone conversation is in progress.

Navi Mute
The sound from the speakers cannot be heard while the navigation voice guide is on.

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- Cautions:

 1. Use ungrounded speakers only.

 2. The speakers to be used with this unit should be able to handle more than 45 W of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.

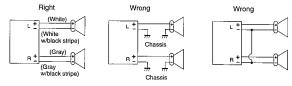
 3. The speaker impedance should be 4 8 Ω. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or this writ.

 4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTC circuit, so each speaker should be connected separately using parallel vinyl insulated cords.

 5. The speaker cords and the power amplifier unit should be kept away (about 30 cm apart) from the antenna and antenna extension cord.

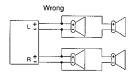
 6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

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



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





CQ-DFX600/DFX400N

Specifications

DC 12 V (11 V - 16 V), test voltage 14.4 V, negative ground Bass: ±12 dB at 100 Hz Treble; ±12 dB at 10 kHz Less than 2.5 A (CD mode, 0.5 W 4-speaker) Current Consumption

Maximum Power Output 45 W x 4 (at 4 Ω) 22 W x 4 (DIN45 324, at 4 Ω)

Power Output Speaker Impedance 4 - 8 Ω Dimensions (Main Unit) 178(W) x 50(H) x 150(D) mm

Weight (Main Unit)
Pre-Amp Output Voltage
Pre-Amp Output Impedance 1.6 kg 2 V (CD mode) Sub-Woofer Output Voltage

FM Stereo Radio 87.5 - 108 MHz 6 dB/µV (S/N 30 dB) 35 dB (at 1 kHz) Frequency Range Usable Sensitivity Stereo Separation

MW Radio Frequency Range Usable Sensitivity 531 - 1,602 kHz 28 dB/µV (S/N 20 dB)

LW Radio

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

CD Player

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

Below measurable limits 75 dB Channel Separation

Note: Specifications and the design are subject to possible modification without notice due to improve-ments.

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Disc Notes

ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT

- Dirt, dust, scratches and bending of disc will cause misoperation. Handle discs with care.
 Do not place stickers or make scratches on disc.
- Do not bend discs.

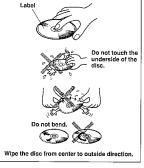
 Disc should always be kept in the case when not in use to prevent from damaging.

 Do not place discs in the following places:

- Direct sunlight;
 Dirty, dusty and damp areas;
 Near car heaters;
 Seats and dashboard.
- Do not use irregularly-shaped (heart-shaped, octagon, etc.) CD. Failure to observe this may cause malfunction.

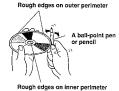
Disc Cleaning

Use dry soft cloth to wipe the surface. If the disc is quite dirty use soft cloth slightly dampened in iso-propyl (rubbing) alcohol. Never use solvents such as benzine, thinner, conventional record cleaner, or mopper as they may mar the surface of the disc.



Caution for use of a new Disc

A new disc may have rough edges on its inner and outer perimeter. If a disc with rough edges is used, proper settling will not be possible 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 right. To remove the rough edges, press the side of the pen or pencil against the inner and outer perimeter of the disc.



Fuse

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

If the replacement fuse falls, contact your nearest authorized Panasonic Service Center.

Maintenance

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

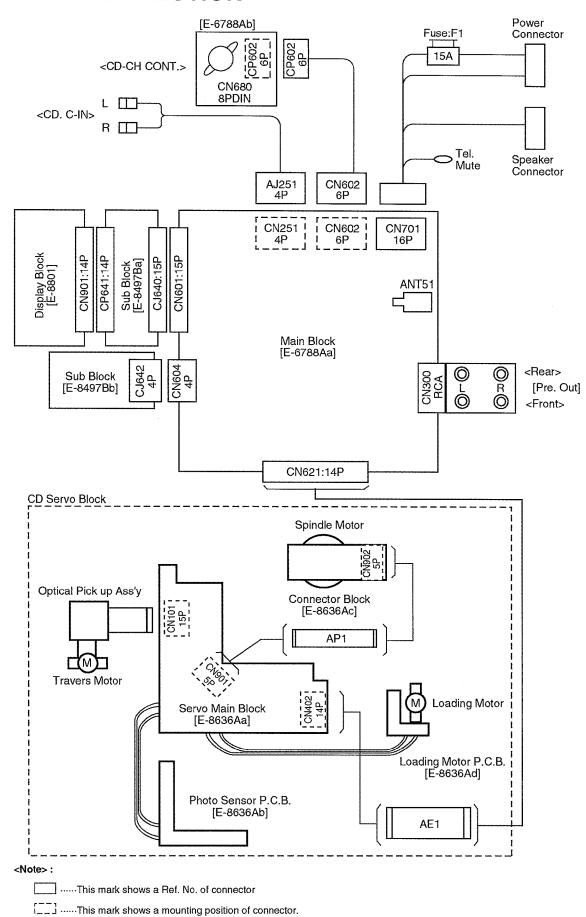
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CQ-DFX600/DFX400N

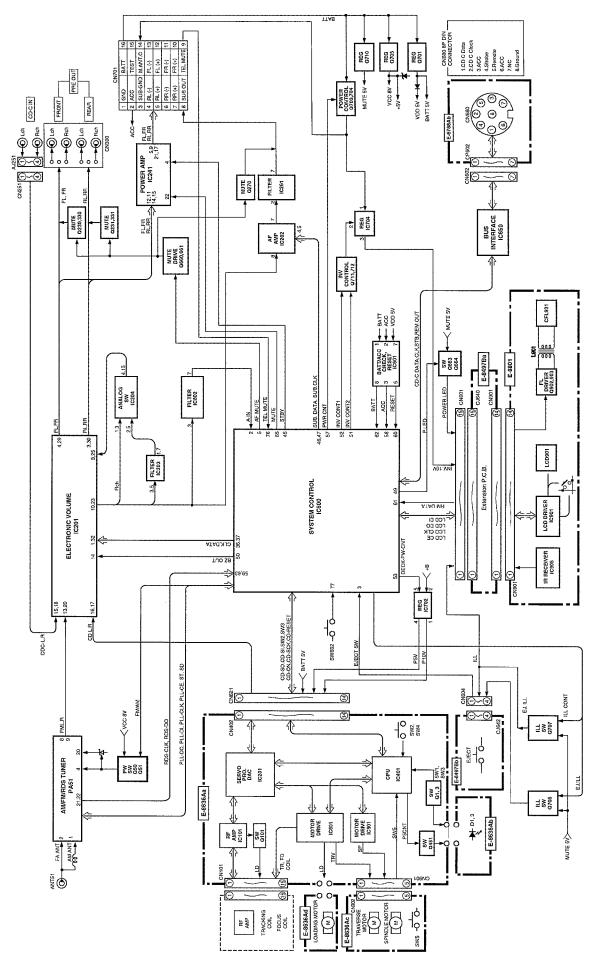
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7 WIRING CONNECTION



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8 BLOCK DIAGRAM



9 TERMINALS DESCRIPTION

9.1. Main Block

IC600: C2ABGF000109

Pin No.	Port	Description	1/0	(V)
1	INIT C	Initial C	1	0
2	A-IN	Spectrum analyzer data	 	0
3	EJECT	Eject SW input	- 	5.3
4	AVSS	Analog ground	<u>-</u> -	0
5	AF MUTE	AF mute	0	5.3
6	NC	No connection	-	
7	AVREF	Reference voltage		5.0
8	CD-SO	CD data		3.1
9	CD-SI	CD data	 	3.7
10	CD-SCK	CD clock	 	5.1
11	CD.C DATA	CD changer data	- 0	
12	N.C.	No connection		0
13	CD.C CLK			-
14		CD changer clock	1	0
	REM OUT	CD changer remote control	0	5.3
15	PLL CE	PLL controller chip enable	_ 0	0
16	(MI)	Data from PLL	_	5.2
17	PLL DATA (MO)	Data for PLL	0	0
18	PLL CLK	Clock for PLL	0	5.3
19	S.HDB	Bass-sound control	0	5.3
20	CD RESET	CD reset	o o	5.1
21	N.C.	No connection	 	
22	N.C.	No connection		_
23	N.C.	No connection		
24	N.C.	No connection	- -	-
25	N.C.	No connection		
26	CD ON	CD on/off control		-
27	SW3		0	5.1
28		CD mute	_	5.0
29	N.C. SW2	No connection		
30		CD sw2 input		0
	N.C.	No connection		-
31	N.C.	No connection		-
32	N.C.	No connection		
33	VSS	Ground		0
34	FM/AM	FM/AM selection	0	5.1
35	IF-SEL	Not used	_ ~	-
36	IC2-CLK	Electronic volume clock	0	5.2
37	IC2-DATA	Electronic volume data	1/0	5.2
38	LED	Warming alarm LED control	0	4.1
39	EJ.ILL	Eject illumi. control	0	5.6
40	/ST	FM stereo signal		5.1
41	LCD-DI	LCD data input	0	0
42	LCD-DO	LCD data output	ı	4.5
43	LCD-CLK	LCD clock	0	0
44	LCD-CE	LCD chip enable output	0	0
45	STBY	Amp stand-by	0	5.3
46	SUB.W.DAT A	Sub. woofer data	0	0
47	SUB.W.CLK	Clock for sub. woofer data	0	0
48	NC	No connection	-	_
49	POWER.LE D	Power LED control	0	5.0
50	BZOUT	BEEP output	0	0
51		Invertor control	0	0
52		Invertor control	0	0
53	DECK.CNT	Deck power control	0	5.0
54		No connection	-+	5.0
55		Front panel open/close	-	0
		Illumi. control		
56	ILL CONT			5.3

_ 58	ACC	ACC detection	1	5.0
59	RDS DATA	RDS data input	1	2.9
60	/RESET	Reset input	Ī	5.0
61	REM	Remocon data input	I	4.2
62	BATT	Battery detection	- 1	5.0
63	RDS CLK	RDS clock input	1	2.6
64	CD.C.STB	CD changer strobe input	1	0
65	MUTE	Mute control	0	5.3
66	N.C.	No connection		-
67	VSS	(Connecting to ground)		0
68	VDD	+5V power supply	-	5.0
69	X2	Crystal oscillator	-	3.0
70	X1	Crystal oscillator	-	2.6
71	VSS	Ground	-	0
72	SUB.X2	No connection	-	-
73	SUB.X1	(Connecting to ground)	-	0
74	AVDD	+5V power supply	-	5.0
75	AVREF	(Connecting to VDD)	-	5.0
76	TEL MUTE	Telephone mute	0	5.0
77	PANEL	Panel detection	I	5.0
78	SD	B/S detection	ī	0
_79	INIT A	Initial value A		5.0
80	INIT B	Initial value B	1	0

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

9.2. Display Block

IC901: YEAMLC75884W

Pin No.	Port	Description	I/O	(V)
1-51	S3-53	LCD segment data	0	2.4
52-55	COM1-4	LCD common	0	2.4
56,57	S54, 55	LCD segment data	0	2.4
58-61	KS3-6	Key strobe	0	4.8
62-66	KI1-5	Key data	1	0
67	VDD	+5V power supply	-	5.0
68	VLCD	+5V power supply	-	5.0
69	VLCD1	LCD angle	-	3.2
70	VLCD2	LCD angle	-	1.6
71	VSS	Ground	-	0
72	TEST	(Connecting to ground)	-	0
73	osc	Oscillator terminal	-	3.4
74	/RESET	(Connecting to VCC)	-	5.0
75	DO	Key data output	0	4.5
76	CE	LCD driver chip enable	T	0
77	CLK	LCD clock	Ī	0
78	DI	LCD data	I	0
79, 80	S1,2	LCD segment data	0	2.4

9.3. CD Servo Block

IC201: MN662748RPMF

2 3 4 4 5 6 6 7 8 9 10 11 1 12 1 13 1 14 15 15 16 1 17 18 1 19 19 10 11 12 12 12 12 12 12 12 12 12 12 12 12	BCLK LRCK SRDATA DVDD DVSS1 TX MCLK MDATA MLD SENSE /FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL FE	Not used Not used Not used +5V digital power supply Digital ground Not used MPU command clock MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		
2 3 4 4 5 6 6 7 8 9 10 11 1 12 1 13 1 14 15 15 16 1 17 18 1 19 19 10 11 12 12 12 12 12 12 12 12 12 12 12 12	LRCK SRDATA DVDD DVSS1 TX MCLK MDATA MLD SENSE /FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Not used Not used +5V digital power supply Digital ground Not used MPU command clock MPU command data MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive Focus motor drive Focus balance adjust Tracking balance adjust		5.0 0 0 0 0 0 0 0 0 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
3 4 5 6 7 8 9 10 11 7 13 14 15 15 16 17 18 18	SRDATA DVDD DVSS1 TX MCLK MDATA MLD SENSE /FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Not used +5V digital power supply Digital ground Not used MPU command clock MPU command data MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		5.0 0 0 0 0 0 0 0 0 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 7 17 18 18	DVDD DVSS1 TX MCLK MDATA MLD SENSE /FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	+5V digital power supply Digital ground Not used MPU command clock MPU command data MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		5.0 0 0 0 0 0 0 0 0 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
5 6 7 8 9 10 3 11 7 12 7 13 14 15 16 17 18 7 17 18 7 17 18 18	DVSS1 TX MCLK MDATA MLD SENSE /FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Digital ground Not used MPU command clock MPU command data MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		0 0 0 0 0 0 4.9 - 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 0 2.5 5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2
6 7 8 9 10 11 / 12 / 13 1 14 15 15 16 17 18 / 15 16 17 18 / 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	TX MCLK MDATA MLD SENSE /FLOCK /FLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Not used MPU command clock MPU command data MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		- 0 0 0 0 0 4.9 - 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
7 8 9 10 11 / 12 / 13 11 14 15 16 1 17 18 / 19 12 22 23 1 12 24 1 12 25 1 12 26 1 1 27 1 28 1 1 2 3 3 1 3 3 1 3 3 4 1 1 3 5 1 1 3 6 6 6 7 3 7 7 3 8 8 / 3 9 E	MCLK MDATA MLD SENSE /FLOCK /FLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	MPU command clock MPU command data MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		0 0 0 0 0 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
8 9 10 11 12 13 14 15 16 17 18 17 18 19 19 10 10 10 10 10 10	MDATA MLD SENSE /FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	MPU command data MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		0 0 0 0 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
9 10 11 12 13 14 15 16 17 18 17 18 19 10 10 10 10 10 10 10	MLD SENSE /FLOCK /FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	MPU command load Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust		0 0 0 4.9 - 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
10 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19	SENSE /FLOCK /FLOCK /FLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Sense signal Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 1 0 1 0 0 0 0 0 0	0 0 4.9 - 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
11 / 12 / 13 14 15 16 17 18 / 18 / 19 20 21 22 23 1 25 1 26 1 25 1 26 1 27 28 1 29 1 30 1 33 34 1 35 1 36 (37 7 38 7 7 38 / 39 E	/FLOCK /TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Focus servo lock Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 - 1 0 1 0 0 0 0 0 0	0 4.9 - 4.9 2.5 0 3.1 4.9 - 2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
12 / 13 14 15 16 17 18 / 17 18 / 19 20 21 22 23 1 24 1 25 26 1 27 28 1 29 1 30 F 31 32 F 35 1 35 1 36 1 37 7 38 / 39 F 30 F 31 32 F 33 34 F 35 7 36 7 37 38 / 39 F 30 F	/TLOCK BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Tracking servo lock Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 - 1 0 1 0 1 - 0 0 0 0 0	4.9 4.9 2.5 0 3.1 4.9 - 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
13 14 3 14 15 16 17 18 18	BLKCK SQCK SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Not used Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	- I O O O O O O O O O O O O O O O O O O	2.5 0 3.1 4.9 2.5 0 2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
14 15 16 17 18 18	SQCK SUBQ DMUTE STAT //RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Q code external clock Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 1 0 1 - 0 0 0 0 0 0	2.5 0 3.1 4.9 - 2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
15 16 17 18 7 18 7 19 19 19 19 19 19 19 19 19 19 19 19 19	SUBQ DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Q code output DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 1 0 1 - 0 0 0 0 0 0	2.5 0 3.1 4.9 - 2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
16 17 18 18	DMUTE STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	DSP mute DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0 0 0	0 3.1 4.9 - 2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
17	STAT /RST TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0 0	3.1 4.9 - 2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
18 / 19, 20 21 22 23 14 25 15 26 17 28 17 28 17 30 17 31 32 17 36 37 38 7 39 18 7 18 18 18 18 18 18	TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	DSP Status output Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0 0 0	2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
18 / 19, 20 21 22 23 14 25 15 26 17 28 17 29 17 28 17 33 17 33 17 35 17 36 (37 7 7 38 / 39 E	TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Reset input Not used Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0 0 0	2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
19, 20 21 22 23 14 25 16 27 28 17 28	TRV TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0 0 0	2.5 2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
20 21 7 22 7 23 II 24 II 25 II 26 II 27 28 II 29 IV 29 IV 29 II 27 33 7 34 II 35 IV 36 II 37 7 38 II 39 II 29 II 20 II 2	TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Forced traverse output Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0 0	2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
22	TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0	2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
22	TVD PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Traverse drive output Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0	2.5 0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
23 24 25	PC ECM ECS KICK TRD FOD VREF FBAL TBAL	Spindle motor control Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0 0	0 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
24 I	ECM ECS KICK TRD FOD VREF FBAL TBAL	Spindle motor drive Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5
25	ECS KICK TRD FOD VREF FBAL TBAL	Spindle motor drive Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 0 0	2.5 2.5 2.5 2.5 2.5 2.5 2.5
26	KICK TRD FOD VREF FBAL TBAL	Kick pulse output Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 0 1	2.5 2.5 2.5 2.5 2.5
27 - 28	TRD FOD VREF FBAL TBAL	Tracking motor drive Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 0 1 0	2.5 2.5 2.5 2.5
28 F 29 N 30 F 31 32 F 33 34 F 35 N 36 0 37 38 / 39 E 39 E	FOD VREF FBAL TBAL	Focus motor drive D/A reference voltage Focus balance adjust Tracking balance adjust	0 1 0	2.5 2.5 2.5
29 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VREF FBAL TBAL	D/A reference voltage Focus balance adjust Tracking balance adjust	0	2.5 2.5
30 F 31 7 32 F 33 7 34 F 35 V 36 C 37 7 38 /	FBAL TBAL	Focus balance adjust Tracking balance adjust	0	2.5
31 32 F 33 7 34 F 35 N 36 G 37 7 38 / 39 E	TBAL	Tracking balance adjust		
32 F 33 7 34 F 35 N 36 G 37 7 38 / 39 E			0	2.5
33 7 34 F 35 V 36 G 37 7 38 / 39 E	FE			
34 F 35 N 36 G 37 7 38 / 39 E		Focus error signal	1	2.5
35 \\ 36 \(0 \) 37 \\ 38 \/ 39 \(E \)	TE	Tracking error signal		2.5
36 (37] 38 / 39 E	RFENV	RF envelope signal	i	2.5
37 T 38 / 39 E	VDET	Vibration detection	Ï	0
38 / 39 E	OFTR	Off track signal	I	0
39 E	TRCRS	Track closs signal		2.1
	/RFDET	RF detection signal	ı	0
40 1	BDO	Drop out signal		0
-U IL	LDON	Laser on/off control	0	4.5
	PLLF2	Not used		-
	TOFS	TE offset	0	2.5
	WVEL	Not used		2.0
	ARE	RF signal	- -	1.7
	IREF	Reference current input		
	DRF	DSL bias		1.6
	DSLF		1 1/0	0
	PLLF	DSL loop filter	1/0	2.4
		PLL loop filter	1/0	1.8
	VCOF	Not used	-	
	AVDD2	+5V analog power supply		5.0
	AFSS2	Analog ground	-	0
	EFM	Not used	-	-
	PCK/DSLB	DSL bias	I	2.4
	VCOF2	Tracking offset	0	2.5
55 S	SUBC	Not used	-	-
56 S	SBCK	(Connecting to ground)	-	-
	/SS	Ground		0
	X1	Crystal oscillator		1.7
		Crystal oscillator	0	2.3
	X2		- <u>-</u> 	5.0
61,62	X2 VDD	t+by power supply	1 - 1	
63 F	X2 VDD -	+5V power supply Not used		-

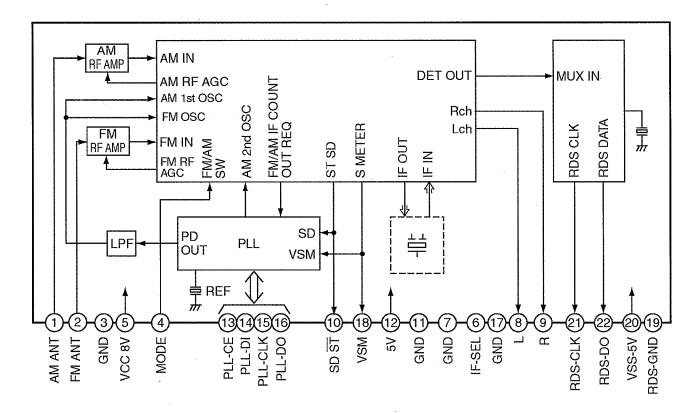
			CQ-I	JFX60U	N / CQ-L
64	IPFLAG	Not used		-	-
65	FLAG	Not used	-	-	-
66-69	-	Not used		-	-
70	IOSEL	(Connecting to ground)		I	0
71	/TEST	(Connecting to ground)		ı	0
72	AVDD1	+5V analog power supply		-	4.9
73	OUTL	Audio Lch output		0	4.9
74	AVSS1	Analog ground		-	0
75	OUTR	Audio Rch output		0	4.9
76	RSEL	(Connecting to ground)		-	0
77	CSEL	(Connecting to ground)		-	0
78	PSEL	(Connecting to ground)		-	0
79	MSEL	(Connecting to ground)		-	0
80	SSEL	mode select		1	5.0

IC401: MN101C117AD

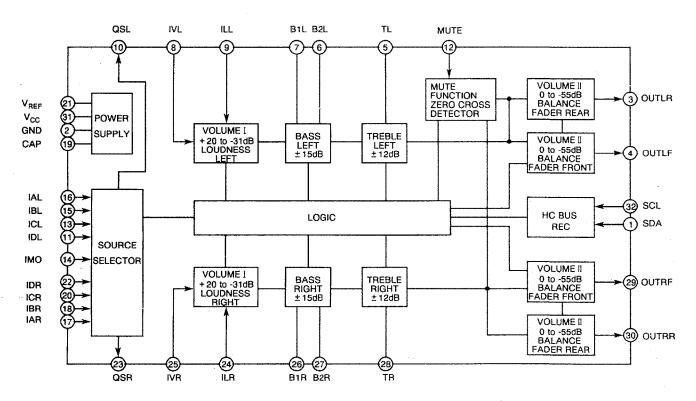
Pin No.	Port	Description	1/0	(V)
1	MASHON	Servo IC OSC control	0	5.0
2	P82	No connection	 -	-
3	P81	No connection	 -	- -
4	P5CNT	LED power control	0	0
5	Q1	Photo sensor signal (DISC IN)	1 1	4.5
6	Q3	Photo sensor signal (DISC OUT)	╁ ╌	4.2
7	Q6	Photo sensor signal (Option)	┧ <u>;</u>	5.0
8	SW4	Clamp SW signal	ΤĖ	0
9	SW5	Inner SW signal	† i	5.0
10	SW2	Feeder arm SW	Τi	5.0
11	PA6	(Connection to ground)	+:	0.0
12	PA7/IFR	(Connecting to ground)	1	0
13	VDD	+5V power supply	† <u> </u>	5.0
14	OSC2	Crystal oscillator	+	5.0
15	OSC1	Crystal oscillator	+-	3.3
16	VSS	Ground	+	0.0
17	NC	No connection	 	_
18	SOMI	CD control data	0	3.2
19	SIMO	CD control data	+ -	3.8
20	SCLM	Data shift clock	 	5.0
21	AMUTE	Audio signal mute	10	0
22	BD0	Drop out signal	1 -	0
23	PC1	Loading motor driver control	10	5.0
24	PS2	Focus/Tracking driver control	0	0
25	VDET	Vibration detecting signal	1	0
26	P14	No connection	<u>-</u>	-
27	CDON	CD on signal	+-	5.0
28	IRQ1.SENS	(Connecting to groung)	-	0
29	IRQ2	(Connecting to ground)	T -	0
30	LOD	Loading motor control	 -	2.6
31	TRV	Traverse motor control	-	2.5
32	/PRST	Servo IC reset	0	5.0
33	STAT	Status signal	1	4.0
34	DMUTE	DSP mute	0	0
35	SUBQ	Sub code Q data	1	2.6
36	SQCK	Sub code Q clock	 	5.0
37	/TLOCK	Tracking servo lock	1	0.0
38	/FLOCK	Focus servo lock	+i	0
39	NRST	reset input	1	5.0
40	MMOD	(Connecting to ground)	 	0
41	SENSE	Sense signal	1 -	0
42	MLD	Command load	0	5.0
43	MDATA	Command data	0	0.9
		Oommand data		0.5

10 PACKAGE AND IC BLOCK DIAGRAM

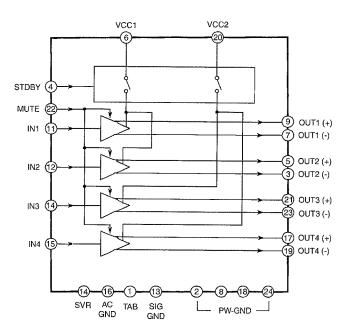
10.1. Main block



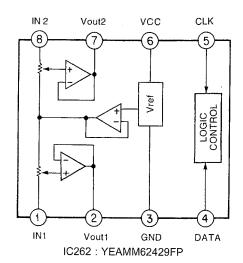
PA51: C5BA00000053

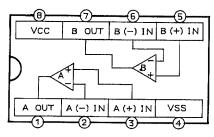


IC201: YEAMEA6320TT

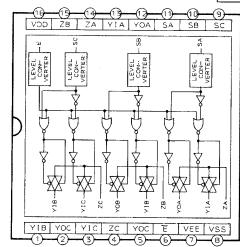


IC241: C1EA00000021

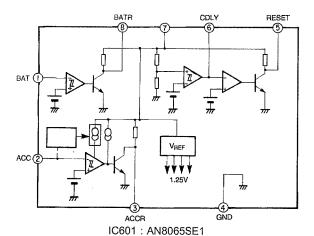




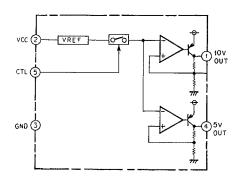
IC203, 261, 802 : YEAMM5218AFE



IC204: YEAMPD4053E2

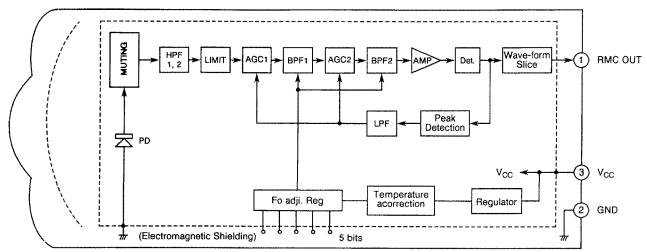


IC650: YEAMC14584BE



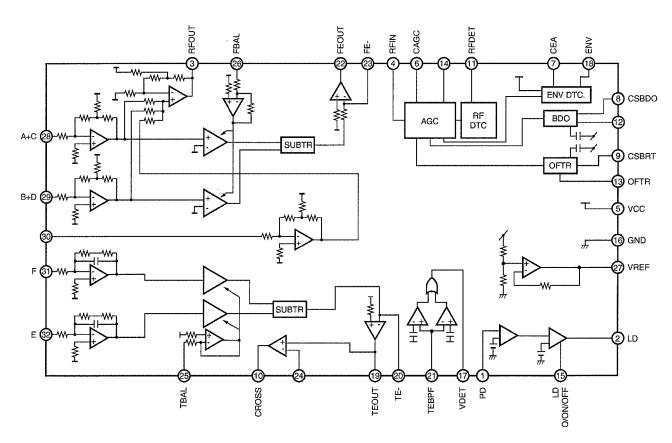
IC702 : YEAMA61W12ST

10.2. Display Block

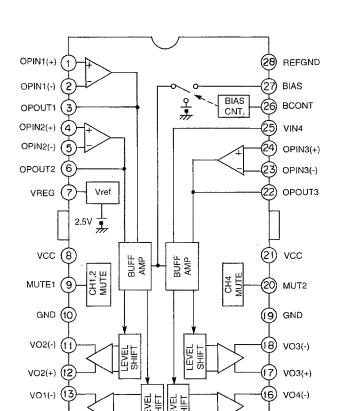


IC905: YEAMSBX8035F

10.3. CD Servo Block



IC101: C1BB00000173



IC601: C0GBY0000004

VO1(+) (14

VO4(+)

CQ-DFX600N / CQ-DFX400N OPOUT 25 OPINO NC 2 24 OPIN⊕ NC 3 23 NC MUTE BIAS 4 22 MUTE 5 DRIN 21 GND DRIN 6 20 GND NC 7 8 NC 19 GND NC 9 18 NC NC 10 17 VCC NC 11 16 NC DROUT⊖ 12 15 NC DROUT⊕ 13 14 NC

IC901: C0GBY0000003

11 REPLACEMENT PARTS LIST

Notes:

- 1. Be sure to make your orders of replacement parts according to this list.
- 2. Important safety notice: Components, identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts
- 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" or "B" marks in remarks column are indicated as follows

A: CQ-DFX600NB: CQ-DFX400N

11.1. IC's and Transistors

MAIN BLOCK [E6788A]

Ref.	Part No.	Part Name & Description	Remarks
IC201	YEAMEA6320TT	IC	
IC203	YEAMM5218AFE	IC	
IC204	YEAMPD4053E2	IC	
IC241	C1EA00000021	IC	
IC261	YEAMM5218AFE	IC	
IC262	YEAMM62429FP	IC	
IC600	C2BBGF000109	IC	
IC601	AN8065SE1	IC	
IC650	YEAMC14584BE	IC	
IC702	YEAMA61W12ST	IC	
IC704	COCBAEG00003	IC	
IC802	YEAMM5218AFE	ic	
PA51	C5BA00000053	Electronic Tuner	
Q50	YEANFP1F3PT1	Transistor	
Q51	B1GBCFNN0005	Transistor	
Q230	YEANC323TUTX	Transistor	
Q231	YEANC323TUTX	Transistor	
Q270	YEANC323TUTX	Transistor	
Q330	YEANC323TUTX	Transistor	
Q331	YEANC323TUTX	Transistor	
Q660	YEANA114EKTX	Transistor	
Q661	YEANA114EKTX	Transistor	
Q663	YEANA114EKTX	Transistor	
Q664	B1GBCFNN0005	Transistor	
Q701	YEAND1859T	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	B1GBCFJN0005	Transistor	
Q705	2SD2139TA	Transistor	
Q706	YEANA114EKTX	Transistor	
Q707	YEANA114EKTX	Transistor	
Q710	YEAND1859T	Transistor	
Q711	B1GBCFNN0005	Transistor	
Q712	B1GBCFNN0005	Transistor	

		LATE BEGGIN JEGGGIN	
Ref. No.	Part No.	Part Name & Description	Remarks
IC901	YEAMLC75884W	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC905	YEAMSBX8035F	IC	
Q902	YEANSSTA06T	Transistor	
Q903	YEANSSTA06T	Transistor	

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
IC101	C1BB00000173	IC	
IC201	MN662748RPMF	IC	
IC401	MN101C117AF	IC	
IC601	C0GBY0000004	IC	
IC901	C0GBY0000003	IC	
Q1	YEADPS1101W	Transistor	
Q3	YEADPS1101W	Transistor	
Q6	YEADPS1101W	Transistor	
Q101	2SB766ATX	Transistor	
Q451	YEANC113ZKTX	Transistor	

11.2. Diodes

MAIN BLOCK [E6788A]

Ref. No.	Part No.	Part Name & Description	Remarks
D50	YEADRD51MBT1	Diode	
D201	MA165TA	Diode	
D602	LN25RP	LED	
D701	YEADSR1544TL	Diode	
D702	MA165TA	Diode	
D703	B0BA5R700006	Diode	
D707	YEADRB100AT	Diode	
D708	YEADRD91M1T2	Diode	
D709	MA153TX	Diode	
D710	YEADRD27M2T1	Diode	
D715	YEADDAM3MA47	Diode	
D717	MA151ATX	Diode	
D720	YEADRD51MBT1	Diode	
D803	MA165TA	Diode	
D804	YEADRD51MBT1	Diode	

DISPLAY BLOCK (E8801)

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	

SUB BLOCK [E8497B]

Ref. No.	Part No.	Part Name & Description Re	marks
D642	LNJ306G5TUWQ	LED	
D643	LNJ306G5TUWQ	LED	

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
D1	YEADAN1102W	Diode	
D3	YEADAN1102W	Diode	
D6	YEADAN1102W	Diode	
D201	YEAD1SS355T1	Diode	
D401	MA151WKTX	Diode	
D601	YEAD1SS355T1	Diode	

11.3. Capacitors

MAIN BLOCK [E6788A]

Ref. No.	Part No.	Part Name & Description	Remarks
C50	F1J1H8R0A007	Ceramic, 8PF 50WV	
C51	ECEA1AKS221I	Electrolytic, 220µF 10WV	
C53	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C54	ECEA1AKS221I	Electrolytic, 220µF 10WV	
C55	ECEA1AKA221I	Electrolytic, 220µF 10WV	

Ref. No.	Part No.	Part Name & Description	Remark
C56	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C57	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C58	ECEA1AKS220I	Electrolytic, 22µF 10WV	
C59	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C62	YECUS1H183KX	Ceramic, 0.018µF 50WV	
C63	YECUS1H183KX	Ceramic, 0.018µF 50WV	
C66	ECEA1AKA221I	Electrolytic, 220µF 10WV	
	-		
C68	YECUS1H221JM	Ceramic, 220PF 50WV	-
C201	YECUS1H560JM	Ceramic, 56PF 50WV	
C203	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C204	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C205	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C207	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C208	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C209	YECUS1H562KX	Ceramic, 0.0056µF 50WV	
C210	ECEA1CKS470I	Electrolytic, 47µF 16WV	
C211	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C212	YECUS1H560JM	Ceramic, 56PF 50WV	
	YECUS1C104KX		
C217		Ceramic, 0.1µF 16WV	
C218	YECUS1C104KX	Ceramic, 0.1µF 16WV	-
C220	YECUS1H123KX	Ceramic, 0.012µF 50WV	
C221	ECEA1HKS010I	Electrolytic, 1µF 50WV	1
C223	ECEA0JKS470I	Electrolytic, 47µF 6.3WV	
C230	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C231	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C241	ECEA1HKSR47I	Electrolytic, 0.47µF 50WV	
C242	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C244	ECEA1HKSR47I	Electrolytic, 0.47µF 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
	+		
C246	YECUS1C104KX	Ceramic, 0.1µF 16WV	+
C248	ECA1CDT472Y	Electrolytic, 4700µF 16WV	
C249	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C250	ECEA1CKS470I	Electrolytic, 47µF 16WV	
C251	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C252	ECEA1AKS101	Electrolytic, 100µF 10WV	
C260	ECEA1CKS100I	Electrolytic, 10µF 16WV	
C261	ECEA0JKS470I	Electrolytic, 47µF 6.3WV	
C262	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C263	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C264			-
	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	+
C265	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C266	ECEA0JKS470I	Electrolytic, 47µF 6.3WV	
C301	YECUS1H560JM	Ceramic, 56PF 50WV	
C303	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C304	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C305	YECUV1C224KX	Ceramic, 0.22µF 16WV	
C307	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C308	YECUS1E333KX	Ceramic, 0.033µF 25WV	1
C309	YECUS1H562KX	Ceramic, 0.0056µF 50WV	
C310	ECEA0JKS101I	Electrolytic, 100µF 6.3WV	
			+
C311	ECEA1CKS470I	Electrolytic, 47µF 16WV	-
C312	YECUS1H560JM	Ceramic, 56PF 50WV	+
C317	YECUS1C104KX	Ceramic, 0.1µF 16WV	1
C318	YECUS1C104KX	Ceramic, 0.1µF 16WV	1
C320	YECUS1H123KX	Ceramic, 0.012µF 50WV	
C321	ECA1HSA010I	Electrolytic, 1µF 50WV	
C323	ECEA0JKS470I	Electrolytic, 47µF 6.3WV	
C330	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C331	ECEA1HKS3R3I	Electrolytic, 3.3µF 50WV	
C332	YECUS1H103KX	Ceramic, 0.01µF 50WV	1
C341	ECEA1HKSR47I	Electrolytic, 0.47µF 50WV	1
C342			+
	YECUS1H122KX	Ceramic, 0.0012µF 50WV	1
C344	ECEA1HKSR47I	Electrolytic, 0.47µF 50WV	1
C345	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C348	YECUV1H104ZF	Ceramic, 0.1µF 50WV	
C366	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C601	YECUS1H220JM	Ceramic, 22PF 50WV	
C602	YECUS1H220JM	Ceramic, 22PF 50WV	
C603	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C604	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C605	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C607	EECS5R5T473	Electrolytic, 0.047FD 5.5WV	
C608	YECUS1C104KX	Ceramic, 0.1µF 16WV	1

	1		FX600N / CQ-
Ref.	Part No.	Part Name & Description	Remarks
No.			
C611	YECUV1H104ZF	Ceramic, 0.1µF 50WV	
C612	YECUV1H104ZF	Ceramic, 0.1µF 50WV	
C617	YECUS1H221JM	Ceramic, 220PF 50WV	
C618	YECUS1H221JM	Ceramic, 220PF 50WV	
C637	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C650	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C660	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	
C661	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C662	ECEA1HKS010I	Electrolytic, 1µF 50WV	
C664	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C666	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C667	YECUS1H221JM	Ceramic, 220PF 50WV	
C668	YECUS1H221JM	Ceramic, 220PF 50WV	
C690	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C702	ECEA1HKS4R7I	Electrolytic, 4.7µF 50WV	
C703	ECEAOJKS470I	Electrolytic, 47µF 6.3WV	
C705	ECEA1HKSR47I	Electrolytic, 0.47µF 50WV	
C706	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C707	ECA1AM471B	Electrolytic, 470µF 10WV	
C710	ECA1CHG102B	Electrolytic, 1000µF 16WV	
C711	F1K1E334A022	Ceramic, 0.33µF 25WV	
C712	EEAFC1A820H	Electrolytic, 82µF 10WV	
C714	ECEAOJKS101I	Electrolytic, 100µF 6.3WV	
C715	ECSH1CC106CR	Tantalum, 10µF 16WV	
C716	ECEA1CKS470I	Electrolytic, 47µF 16WV	
C718	F1K1E334A022	Ceramic, 0.33µF 25WV	
C719	F1K1E334A022	Ceramic, 0.33µF 25WV	
C720	ECEAOJKS470I	Electrolytic, 47µF 6.3WV	
C723	ECEA1AKS221I	Electrolytic, 220µF 10WV	
C724	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C727	EEVFC1C470P	Electrolyic, 47µF 16WV	
C728	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C810	ECEA0JKS220I	Electrolytic, 22µF 6.3WV	
C811	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C812	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C813	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C814	ECEA1HKS2R2I	Electrolytic, 2.2µF 50WV	

Ref. Remarks Part No. Part Name & Description No. F0F2A2230001 Plastic Film, 0.022µF 100WV C905 C906 YECUS1C104KX Ceramic, 0.1µF 16WV C907 ECEV1CA101WP Electrolytic, 100µF 16WV C910 YECUS1H102KX Ceramic, 0.001µF 50WV YECUS1C104KX | Ceramic, 0.1µF 16WV C911 C914 YECUS1C104KX | Ceramic, 0.1µF 16WV YECUS1C104KX Ceramic, 0.1µF 16WV C915 C920

DISPLAY BLOCK [E8801]

YECUS1C104KX Ceramic, 0.1µF 16WV
YECUS1C104KX Ceramic, 0.1µF 16WV
YECUS1C104KX Ceramic, 0.1µF 16WV
YECUS1H681JM Ceramic, 680PF 50WV
F1L3F1200001 Ceramic, 12PF 3160WV

CD SERVO BLOCK [E8636A] Ref. Part No. Part Name & Description Remarks No. YECUZ1C104KX Ceramic, 0.1µF 16WV C101 C102 YECUZ1C104KX | Ceramic, 0.1µF 16WV C103 F3H0J1070005 Tantalum, 100µF 6.3WV C104 YECUZ1C104KX | Ceramic, 0.1µF 16WV C105 ECSH0JY475CR Tantalum, 4.7µF 6.3WV C106 F1H1E273A011 Ceramic, 0.027µF 25WV F1H1H152A201 Ceramic, 0.0015µF 50WV C107 YECUZ1H472KX Ceramic, 0.0047µF 50WV C108 C109 YECUZ1H102KX | Ceramic, 0.001µF 50WV C110 YECUZ1H102KX | Ceramic, 0.001µF 50WV C111 YECSW1A106MA Tantalum, 10µF 10WV C112 YECUZ1C104KX Ceramic, 0.1µF 16WV C113 YECUZ1C104KX | Ceramic, 0.1µF 16WV YECUZ1H102KX Ceramic, 0.001µF 50WV C115 Ceramic, 0.001µF 50WV C116 YECUZ1H102KX C117 YECUS1A105KX Ceramic, 1µF 10WV C118 YECUZ1H471KX | Ceramic, 470PF 50WV C119 YECUZ1C104KX | Ceramic, 0.1µF 16WV

C921

C923

C934

Ref. No.	Part No.	Part Name & Description	Remarks
C120	YECUZ1H561KX	Ceramic, 560PF 50WV	
C121	YECUZ1E123KX	Ceramic, 0.012µF 25WV	
C122	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C133	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C145	YECUZ1A124KX	Ceramic, 0.12µF 10WV	
C201	YECUZ1E123KX	Ceramic, 0.012µF 25WV	
C203	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C204	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C205	YECSW1A106MA	Tantalum, 10µF 10WV	
C206	F1H1A4740004	Ceramic, 0.47µF 10WV	
C208	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C209	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C210	YECSW1A106MA	Tantalum, 10µF 10WV	
C214	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C451	F1H1A4740004	Ceramic, 0.47µF 10WV	
C453	YECUZ1H103KX	Ceramic, 0.01µF 50WV	
C601	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C602	ECEV1CA470SP	Electrolytic, 47µF 16WV	
C603	YECUZ1C104KX	Ceramic, 0.1µF 16WV	
C605	YECUS1A105KX	Ceramic, 1µF 10WV	
C901	YECUS1C334KX	Ceramic, 0.33µF 16WV	
C903	YECUZ1C333KX	Ceramic, 0.033µF 16WV	

11.4. Resistors

MAIN BLOCK [E6788A]

Ref. No.	Part No.	Part Name & Description	Remarks
C615	ERJ6GEY0R00V	Chin 00 1/10W	
		Chip, 0Ω 1/10W	
J59	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
J401	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J402	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J601	ERJ8GX0R00V	Chip, 0Ω 1/8W	
R50	ERJ6GEYJ5R6	Chip, 5.6Ω 1/10W	
R51	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R52	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R53	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R56	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R58	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R60	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R64	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R201	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R202	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R204	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R205	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R211	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R212	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R213	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R214	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	-
R215	ERJ6GEYJ272	Chip, 2.7kΩ 1/10W	
R216	ERJ6GEYJ682	Chip, 6.8kΩ 1/10W	+
R217	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R218	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R225	ERJ6GEYJ102	Chip, 1kΩ 1/10W	-
R226	ERJ6GEYJ333	Chip, 33kΩ 1/10W	
R230	ERJ6GEYJ101	Chip, 100Ω 1/10W	
R231	ERJ6GEYJ561	Chip, 560Ω 1/10W	_
R235	ERJ6GEYJ101		+
R236		Chip, 100Ω 1/10W	
R240	ERJ6GEYJ561	Chip, 560Ω 1/10W	-
	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R241	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R242	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R243	ERJ6GEYJ103	Chip, 10kΩ 1/10W	-
R250	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R257	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R261	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R265	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R267	ERJ6GEYJ153	Chip, 15kΩ 1/10W	
R268	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R270	ERJ6GEYJ104	Chip, 100kΩ 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	
R274 ERJ6GEYJ473 Chip, 47kΩ 1/10W R275 ERJ6GEYJ393 Chip, 39kΩ 1/10W R276 ERJ6GEYJ101 Chip, 100Ω 1/10W R277 ERJ6GEYJ103 Chip, 10kΩ 1/10W R301 ERJ6GEYJ273 Chip, 27kΩ 1/10W R302 ERJ6GEYJ223 Chip, 22kΩ 1/10W R304 ERJ6GEYJ822 Chip, 8.2kΩ 1/10W R305 ERJ6GEYJ332 Chip, 3.3kΩ 1/10W R311 ERJ6GEYJ123 Chip, 12kΩ 1/10W R312 ERJ6GEYJ123 Chip, 12kΩ 1/10W R313 ERJ6GEYJ103 Chip, 10kΩ 1/10W R314 ERJ6GEYJ392 Chip, 3.9kΩ 1/10W R315 ERJ6GEYJ103 Chip, 10kΩ 1/10W R316 ERJ6GEYJ103 Chip, 10kΩ 1/10W R317 ERJ6GEYJ103 Chip, 10kΩ 1/10W R318 ERJ6GEYJ103 Chip, 10kΩ 1/10W R319 ERJ6GEYJ103 Chip, 10kΩ 1/10W R310 ERJ6GEYJ103 Chip, 10kΩ 1/10W R311 ERJ6GEYJ103 Chip, 10kΩ 1/10W R311 ERJ6GEYJ103 Chip, 10kΩ 1/10W R320 ERJ6GEYJ101 Chip, 100Ω 1/10W R331 ERJ6GEYJ101 Chip, 560Ω 1/10W R331 ERJ6GEYJ561 Chip, 560Ω 1/10W R334 ERJ6GEYJ561 Chip, 560Ω 1/10W R340 ERJ6GEYJ681 Chip, 680Ω 1/10W R341 ERJ6GEYJ103 Chip, 10kΩ 1/10W R342 ERJ6GEYJ103 Chip, 10kΩ 1/10W R343 ERJ6GEYJ103 Chip, 10kΩ 1/10W R343 ERJ6GEYJ103 Chip, 10kΩ 1/10W R344 ERJ6GEYJ103 Chip, 10kΩ 1/10W R345 ERJ6GEYJ103 Chip, 10kΩ 1/10W R340 ERJ6GEYJ103 Chip, 10kΩ 1/10W R341 ERJ6GEYJ103 Chip, 10kΩ 1/10W R342 ERJ6GEYJ103 Chip, 10kΩ 1/10W R343 ERJ6GEYJ104 Chip, 100kΩ 1/10W R340 ERJ6GEYJ105 Chip, 10kΩ 1/10W R370 ERJ6GEYJ104 Chip, 10kΩ 1/10W R600 ERJ6GEYJ104 Chip, 10kΩ 1/10W R600 ERJ6GEYJ107 Chip, 10kΩ 1/10W R601 ERJ6GEYJ102 Chip, 1kΩ 1/10W R602 ERJ6GEYJ102 Chip, 1kΩ 1/10W R603 ERJ6GEYJ102 Chip, 1kΩ 1/10W R604 ERJ6GEYJ102 Chip, 1kΩ 1/10W R615 ERJ6GEYJ102 Chip, 1kΩ 1/10W R616 ERJ6GEYJ102 Chip, 1kΩ 1/10W R617 ERJ6GEYJ102 Chip, 1kΩ 1/10W R618 ERJ6GEYJ102 Chip, 1kΩ 1/10W R618 ERJ6GEYJ102 Chip, 1kΩ 1/10W R619 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R275 ERJ6GEYJ393 Chip, 39kΩ 1/10W R276 ERJ6GEYJ101 Chip, 100Ω 1/10W R277 ERJ6GEYJ103 Chip, 10kΩ 1/10W R301 ERJ6GEYJ273 Chip, 27kΩ 1/10W R302 ERJ6GEYJ223 Chip, 22kΩ 1/10W R304 ERJ6GEYJ322 Chip, 8.2kΩ 1/10W R305 ERJ6GEYJ123 Chip, 12kΩ 1/10W R311 ERJ6GEYJ123 Chip, 12kΩ 1/10W R312 ERJ6GEYJ103 Chip, 10kΩ 1/10W R313 ERJ6GEYJ103 Chip, 10kΩ 1/10W R314 ERJ6GEYJ272 Chip, 2.7kΩ 1/10W R315 ERJ6GEYJ103 Chip, 6.8kΩ 1/10W R316 ERJ6GEYJ103 Chip, 10kΩ 1/10W R317 ERJ6GEYJ103 Chip, 10kΩ 1/10W R318 ERJ6GEYJ103 Chip, 10kΩ 1/10W R331 ERJ6GEYJ103 Chip, 560Ω 1/10W R331 ERJ6GEYJ101 Chip, 560Ω 1/10W R332 ERJ6GEYJ103 Chip, 100Ω 1/10W R334 ERJ6GEYJ103 Chip, 680Ω 1/10W R341 ERJ6GEYJ103	
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R611 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R614 ERJ6GEYJ681 Chip, 680Ω 1/10W R615 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R617 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R618 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R619 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R620 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W	1
R614 ERJ6GEYJ681 Chip, 680Ω 1/10W R615 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R617 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R618 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R619 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R620 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W	
R615 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R617 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R618 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R619 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R620 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W	
R617 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R618 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R619 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W R620 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W	
R619 ERJ6GEYJ102 Chip, 1kΩ 1/10W R620 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R620 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R621 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R622 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R623 ERJ6GEYJ184 Chip, 180kΩ 1/10W	
R625 ERJ6GEYJ102 Chip, $1k\Omega$ 1/10W	
R629 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R631 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R632 ERJ6GEYJ473 Chip, 47kΩ 1/10W	
R633 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R634 ERJ6GEYJ104 Chip, 100kΩ 1/10W	
R639 ERJ6GEYJ184 Chip, 180kΩ 1/10W	
R642 ERJ6GEYJ103 Chip, 10kΩ 1/10W	
R643 ERJ6GEYJ104 Chip, 100kΩ 1/10W	
R645 ERJ6GEYJ273 Chip, 27kΩ 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	
R656 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R658 ERJ6GEYJ562 Chip, 5.6kΩ 1/10W	
R659 ERJ6GEYJ223 Chip, 22kΩ 1/10W	
R660 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R661 ERJ6GEYJ393 Chip, 39kΩ 1/10W	
R663 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R667 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R668 ERJ6GEY0R00V Chip, 0Ω 1/10W	
R671 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R672 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R673 ERJ6GEYJ102 Chip, 1kΩ 1/10W	
R676 ERJ6GEY0R00V Chip, 0Ω 1/10W	
R677 ERJ6GEYJ102 Chip, 1kΩ 1/10W	<u> </u>
R680 ERJ6GEYJ331 Chip, 330Ω 1/10W	
R681 ERJ6GEYJ331 Chip, 330Ω 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R684	ERJ6GEY0R00V	Chip, 0Ω 1/10W	-
R685	ERJ6GEY0R00V	Chip, 0Ω 1/10W	1
R690	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R692	ERJ6GEYJ102	Chip, 1kΩ 1/10W	1
R694	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R695	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R701	ERDS2FJ470	Carbon, 47Ω 1/4W	
R702	ERDS2FJ470	Carbon, 47Ω 1/4W	
R703	ERJ6GEYJ682	Chip, 6.8kΩ 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	ERDS2TJ1R0	Carbon, 1.0Ω 1/4W	
R714	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R715	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	1
R716	ERJ8GEYJ151V	Chip, 150 ohms 1/8W	
R720	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R721	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R722	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R723	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R724	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R725	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R726	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R729	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R801	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R804	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R805	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R806	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R807	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R808	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R809	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
3902	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R903	ERJ6GEYJ103	Chip, 10kΩ 1/10W	

DISPLAY BLOCK [E8801]	DISPL	.AY	BL(OCK	[E8801]
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Ref.	Part No.	SPLAY BLOCK [E8801]	- ·
No.	Parc No.	Part Name & Description	Remarks
R906	ERJ6GEYJ102	Chip, 1kΩ 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	
R930	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R931	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	
R970	ERJ6GEY0R00V	Chip, 0Ω 1/10W	

CD SERVO BLOCK [E8636A]

Ref. No.	Part No.	Part Name & Description	Remarks
J401	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
J429	ERJ3GEY0R00V	Chip, 0Ω 1/16W	
L451	ERJ6GEY0R00V	Chip, 0Ω 1/10W	
R101	ERJ3GEYJ101V	Chip, 100Ω 1/16W	
R102	ERJ14YJ330H	Chip, 33Ω 1/4W	
R103	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R104	ERJ3GEYJ683V	Chip, 68kΩ 1/16W	
R105	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R106	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R107	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R108	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	

Ref.	Part No.	Part Name & Description	FX600N / CQ- Remarks
No.	Part No.	Fait Name & Description	Remarks
R109	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R110	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R111	ERJ3GEYJ102V	Chip, 1kΩ 1/16W	
R112	ERJ3GEYJ393V	Chip, 39kΩ 1/16W	
R113	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R114	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R119	ERJ3GEYJ184V	Chip, 180kΩ 1/16W	
R120	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
R147	ERJ3GEYJ153V	Chip, 15kΩ 1/16W	
R207	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R208	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R209	ERJ3GEYJ391V	Chip, 390Ω 1/16W	
R210	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R211	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R213	ERJ3GEYJ470V	Chip, 47Ω 1/16W	
R214	ERJ3GEYJ272V	Chip, 2.7kΩ 1/16W	
R215	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R401	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R402	ERJ3GEYJ563V	Chip, 56kΩ 1/16W	
R404	ERJ3GEYJ473V	Chip, 47kΩ 1/16W	
R411	ERJ3GEYJ334V	Chip, 330kΩ 1/16W	
R454	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R456	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R461	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R463	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R466	ERJ3GEYJ823V	Chip, 82kΩ 1/16W	
R471	ERJ8GEYJ121V	Chip, 120Ω 1/8W	
R473	ERJ8GEYJ121V	Chip, 120Ω 1/8W	
R476	ERJ8GEYJ121V	Chip, 120Ω 1/8W	
R481	ERJ3GEYJ104V	Chip, 100kΩ 1/16W	
R601	ERJ3GEYJ123V	Chip, 12kΩ 1/16W	
R602	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R603	ERJ3GEYJ273V	Chip, 27kΩ 1/16W	
R604	ERJ3GEYJ124V	Chip, 120kΩ 1/16W	
R605	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R606	ERJ3GEYJ822V	Chip, 8.2kΩ 1/16W	
R607	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R608	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
R609	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
R610	ERJ3GEYJ472V	Chip, 4.7kΩ 1/16W	
3613	ERJ3GEYJ122V	Chip, 1.2kΩ 1/16W	
R901	ERJ3GEYJ103V	Chip, 10kΩ 1/16W	
3902	ERJ3GEYJ333V	Chip, 33kΩ 1/16W	
1903	ERJ3GEYJ122V	Chip, 1.2kΩ 1/16W	

11.5. Connectors

MAIN BLOCK [E6788A]

Ref. No.	Part No.	Part Name & Description	Remarks
AJ251	K2KF49Z00005	Connector, 4P	
CN251	YEAES04BPHT1	Connector, 4P	
CJ620	K9ZZ00000176	Flexible Connector, 14P	
CN300	YEAE02166	Connector, 4P RCA	
CN601	YEAE0115MX	Connector, 15P	
CN602	YEAETSBP0607	Connector, 6P	
CN604	YEAE0104MX	Connector, 4P	
CN621	K1MN14B00028	Connector, 14P	
CN680	YEAE012307	Connector, 8P DIN	
CN701	YEAE012748	Connector, 16P	

DISPLAY BLOCK [E8801]

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

SUB BLOCK [E8497B]

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

	CD SERVO BLOCK [E8636A]				
Ref. No.	Part No.	Part Name & Description	Remarks		
CN101	YEAESFW15R2E	Connector, 15P			
CN402	K1MN14B00028	Connector, 14P			
CN901	K1MN05B00010	Connector, 5P			
CM302	K1MN05B00009	Connector 5P			

11.6. Electric Parts

SWITCHES

Ref.	Part No.	Part Name & Description	Remarks
No.			
SW2	ESE102MH2	Switch	
SW4	YEAS09275	Switch	
SW602	YEAS09248R	Switch	
SW901	YEAS09312	Switch	
SW902	YEAS09312	Switch	
SW903	K0H1BA000285	Switch	A
SW903	YEAS09312	Switch	В
SW904	K0H1BA000285	Switch	A
SW904	YEAS09312	Switch	В
SW905	YEAS09312	Switch	
SW906	YEAS09312	Switch	
SW907	YEAS09312	Switch	
SW908	K0H1BA000285	Switch	A
SW908	YEAS09312	Switch	В
SW909	K0H1BA000285	Switch	A
SW909	YEAS09312	Switch	В
SW910	YEAS09312	Switch	
SW911	YEAS09312	Switch	
SW912	K0H1BA000285	Switch	A
SW912	YEAS09312	Switch	В
SW913	K0H1BA000285	Switch	A
SW913	YEAS09312	Switch	В
SW914	K0H1BA000285	Switch	A
SW914	YEAS09312	Switch	В
SW915	YEAS09312	Switch	
SW916	YEAS09312	Switch	
SW917	K0H1BA000285	Switch	A
SW917	YEAS09312	Switch	В
SW918	K0H1BA000285	Switch	A
SW918	YEAS09312	Switch	В

CRYSTALS

	OKTOTALES.				
Ref.	Part No.	Part Name & Description	Remarks		
No.					
XL451	YEXLSTCC419T	Crystal OSC			
XL600	YEXL49U0419T	Crystal OSC			
XL201	H2D169500005	Ceramic Filter			

COILS

Ref.	Part No.	Part Name & Description	Remarks
No.			
L50	YELT03A330KT	Coil	
L51	YELT02C330KT	Coil	
L52	YELT02C330KT	Coil	
L600	YELT02C101KT	Coil	
L601	YELT02C101KT	Coil	
L702	YETQ026F143	Coil	
L703	ELEAR330KA	Coil	
L901	ETJ11K92AM	Transformer	
L902	YELTD75F101T	Coil	

LCD

Ref.	Part No.	Part Name & Description	Remarks
LCD901	L5ACCLC00016	LCD Display	A
LCD901	L5ACALC00004	LCD Display	В

LAMPS

Ref.	Part No.	Part Name & Description	Remarks
CFL931	A2CA0000018	Display Tube	A
CFL931	A2CA0000019	Display Tube	В
Z50	J0LE00000002	Neon Tube	

THERMISTORS

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

11.7. Accessories

PRINTING

	Ref. No.	Part No.	Part Name & Description	Remarks
ĺ		YEFM283497	Operating Instructions	

INSTALLATION PARTS

Ref.	Part No.	Part Name & Description	Remarks
	YEAJ02827	Power Cord	
	YEAA33144	Antenna Accessory	
	CR2025/1F	Battery	A
	YEP9BS1111	Screws	
	YEFA131302	Detachable Unit Cover	
	YEFX0214198	Mounting Collar	
	YEFX9992013	Remote Controller	A

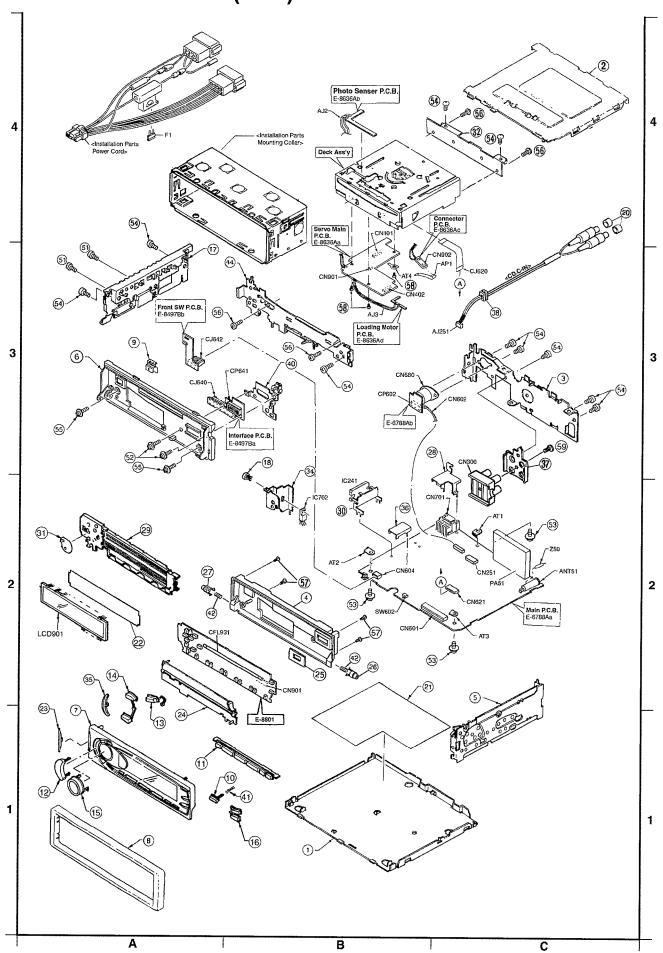
11.8. Mechanical Parts

MISCELL ANEOUS

MISCELLANEOUS				
Ref. No.	Part No.	Part Name & Description	Remarks	
F1	YEAF02015	Fuse, 15A	\triangle	
ANT51	YGAA10082	Antenna Receptacle		
AJ2	YEAJ071287	Cord w/Plug		
АЈЗ	YEAJ071285	Cord w/Plug		
AP1	YEAP2711	Flexible P.C.B.		
AT1-3	K4ZZ01000048	Terminal		
AT4	YEATSD00405	Terminal		
1	YEFA05594B	Bottom Cover	(1-B)	
2	YEFA031359E	Upper Cover	(4-C)	
3	YEFA08462AK	Rear Plate	(3-C)	
4	YEFA131413	Case, Detachable	(2-B)	
5	YEFA09505	Side Plate	(1-C)	
6	YEFC026243	Escutcheon Ass'y, Unit	(3-A)	
7	YEFC026671	Escutcheon Ass'y, Detachable	A (1-A)	
7	YEFC026673	Escutcheon Ass'y, Detachable	B (1-A)	
8	YEFC05570	Trim Plate	(1-A)	
9	YEFE135147	Button, EJECT	(3-A)	
10	YEFE135442	Button, OPEN	(1-A)	
11	YEFE135532	Button, PRESET	A (1-A)	
11	YEFE135533	Button, PRESET	B (1-A)	
12	YEFE135435	Button, VOL	(1-A)	
13	YEFE135436	Button, SEL	(1-A)	
14	YEFE135713	Button, BAND/SOURCE	(1-A)	
15	YEFE135439	Button, TUNE/TRACK	(1-A)	
16	YEFE135534	Button, TA/AF	(1-A)	
17	YEFF01922	Heat Sink	(3-A)	
18	YEFJ05030	Color Rivet	A (2-B)	
18	YEFJ05046	Color Rivet	B (2-B)	
20	YEFR04187	Lead Cap	(4-C)	
21	YEFV011813	Insulator	(1-B)	
22	YEFV021596	Optical Shade	(2-A)	
23	YEFX0011904	Transparent Plate	(1-A)	
24	YEFK06835	Holder, LCD	(1-A)	
25	YEFV011928	Insulator	(2-B)	
26	YEFW04156	Shaft Collar	(2-B)	
27	YEFW04157	Shaft Collar	(2-A)	
28	YEFX0214422	Bracket, CN701	(2-C)	
29	YEFX0011903	Transparent Plate	(2-A)	
30	YEFX0213945B	Bracket, IC241	(2-B)	
31	YEFX025137	Color Screen	(2-A)	
32	YEFX0214700	Bracket, Deck	(4-C)	
34	YEFX0214423	Bracket, IC702	(2-B)	
35	YEFX0011905	Transparent Plate	(1-A)	
36	YEFX0214168	Bracket, IC704	(2-B)	
37	YEFX0213650	Bracket, RCA	(3-C)	
38	YEFX007380	Cord Clamper, AJ251	(3-C)	
40	YEP9FX069	Hook Bracket Ass'y	(3-B)	
41	YEFX0052396	Spring, OPEN	(1-A)	

Ref. No.	Part No.	Part Name & Description	Remarks
42	YEFX0052253	Spring	(2-A) (2-B)
44	YEP9FX088	Front Chassis Ass'y	(3-B)
51	YEJS06092	Screw, 3mm * 10mm	
52	YEJS03020	Screw, 2mm * 4mm	
53	YEJT03009	Tapping Screw, 3mm * 8mm	
54	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
55	YEJT03156	Tapping Screw, 2.6mm * 4mm	
56	YEJT03267	Tapping Screw,	
57	XTN2+8GFZ	Tapping Screw, 2mm * 8mm	
58	XYN2+J4FX	Screw, 2mm * 4mm	
59	XTB3+8GFX	Tapping Screw, 3mm * 8mm	

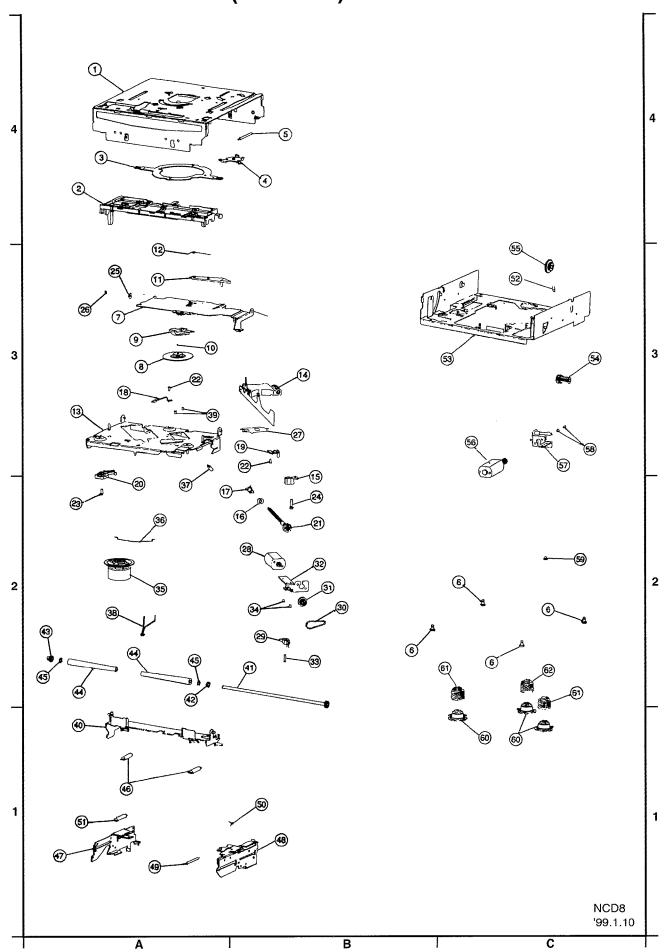
12 EXPLODED VIEW (Unit)



13 CD PLAYER PARTS

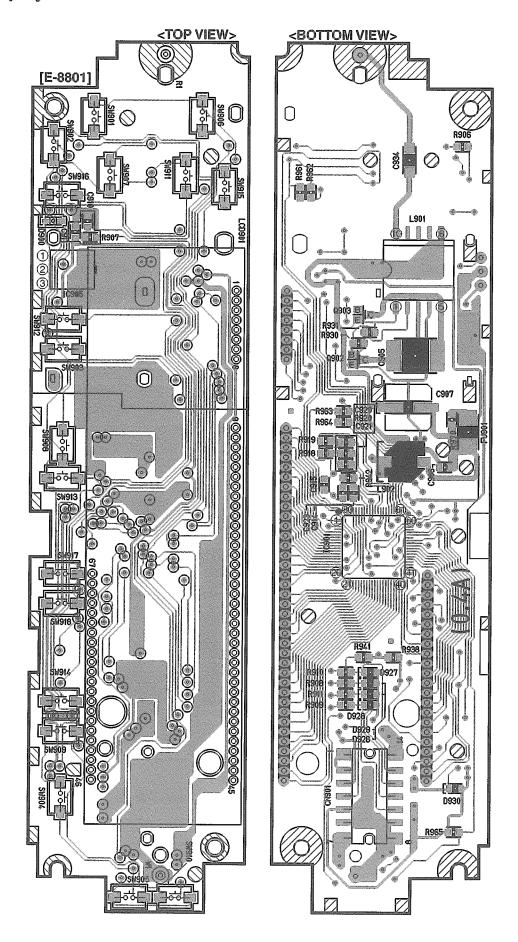
Ref.	Part No.	MISCELLANEOUS	Bom = -1
No.	Part No.	Part Name & Description	Remarks
1	YGFA011781	Upper Chassis	(4-A)
2	YGFX236153	Disk Guide	(4-A)
3	YGFX0462017	Link Lever	(4-A)
4	YGFX0462018	Detection Lever (2)	(4-B)
5	YGFX0052357	Detection Lever (2) Spring	(4-B)
6	YEJT03131	Tapping Screw, 2.6 mm* 5mm	(2-C)
			(2-B)
7	YGFX249461	Clamp Arm	(3-A)
8	YGFX007640	Clamper	(3-A)
9	YGFX0052363	Clamper Spring Plate	(3-A)
10	YEFX999957	Ball Bearing	(3-A)
11	YGFX0462013	Detection Lever (1)	(3-A)
12	YGFX0052352	Detection Lever (1) Spring	(3-A)
13	YGFA011795	Suspension Chassis Ass'y	(3-A)
14	YEPOFX3100	Optical Pick-up Ass'y	(3-B)
15	YEFW04150	Feed Screw Housing A	(2-B)
16	YEFW04137A	Feed Screw Housing B	(2-B)
17	YGFX0052386	Thrust Adjusting Spring	(2-B)
18	YEFX236144B	Traverse Guide	(3-A)
19	YGFX9992027	Feed Screw Carrier	(3-B)
20	YEFX9991458A	FPC Holder	(2-A)
21	YGJT03240	Traverse Gear Ass'y	(2-B)
22	YEJS02037	Screw, (Pick-up)	(3-A)
			(3-B)
23	XYN2+C5FX	Screw, (FPC) 2mm * 5mm	(2-A)
24	XYN2+J10FX	Screw, (Housing) 2mm * 10m	(2-B)
25	YEFX0051590	Spring Washer	(3-A)
26	XUC15V	Retaining Ring, 1.5mm	(3-A)
27	YEFX9991806A	Sealed Plate	(3-B)
28	YGP0FX3503	Traverse Motor Ass'y	(2-B)
29	YEAS23151A	Inner Switch	(2-B)
30	YEFR03080	Rubber Belt	(2-B)
31	YEFX026124A	Idler Pulley	(2-B)
32	YGFX018611	Motor Bracket Ass'y	(2-B)
33	YEJS02018FZ	Screw, (SW)	(2-B)
34	XQN2+A25FX	Screw, 2mm * 25mm	(2-B)
35	YGP0FX3529	Spindle Motor Ass'y	(2-A)
36	YEFX0051991C	Spring (Motor)	(2-A)
37	YGFX0052353	Clamper Spring	(2-A)
38	YGAJ071286	Motor Cable	(2-A)
39	XQN17+A25FX	Screw, 1.7mm * 25mm	(3-A)
40	YGFX0462019	Feeder Arm Ass'y	(1-A)
41	YGP0FX3507	Roller Gear Ass'y	(2-B)
42	YEFW04144	Roller Shaft Collar (1)	(2-A)
43	YEFW04138	Roller Shaft Collar (2)	(2-A)
44	YEFX218282	Rubber Roller	(2-A)
45	YEJW04128	Washer	(2-A)
46	YGFX0052362	Spring (Feeder Arm)	(1-A)
47	YGFX0462015	Suspension Lock Plate (L)	(1-A)
48	YGP0FX3504	Suspension Lock Plate (R)	(1-B)
		Ass'y	,
49	YGFX0052355	Spring (Rack Gear)	(1-A)
50	YGFX0052356	Spring (Rack Lock Lever)	(1-B)
51	YGFX0052360	Spring (Suspension Lock Plate L)	(1-A)
52	YGFX0052361	Spring (Lock Plate)	(3-C)
53	YGFA011779	Bottom Chassis Ass'y	(3-C)
54	YGFX003940	Driving Gear (1)	(3-C)
55	YGFX003941	Driving Gear (2)	(3-C)
56	YGP0FX3506	Loding Motor Ass'y	(3-C)
57	YGFX018605	Loding Motor Bracket Ass'y	(3-C)
58	XQN2+A25FX	Screw, (Motor) 2mm * 25mm	(3-C)
59	YEJS06188	Screw	(2-C)
50	YEFS04693	Oil Dumper	(1-C)
51	YGFX0052358	Suspension Spring (A)	(2-C)
52	YGFX0052359	Suspension Spring (B)	(2-C)
			\~ \/

14 EXPLODED VIEW (CD Deck)

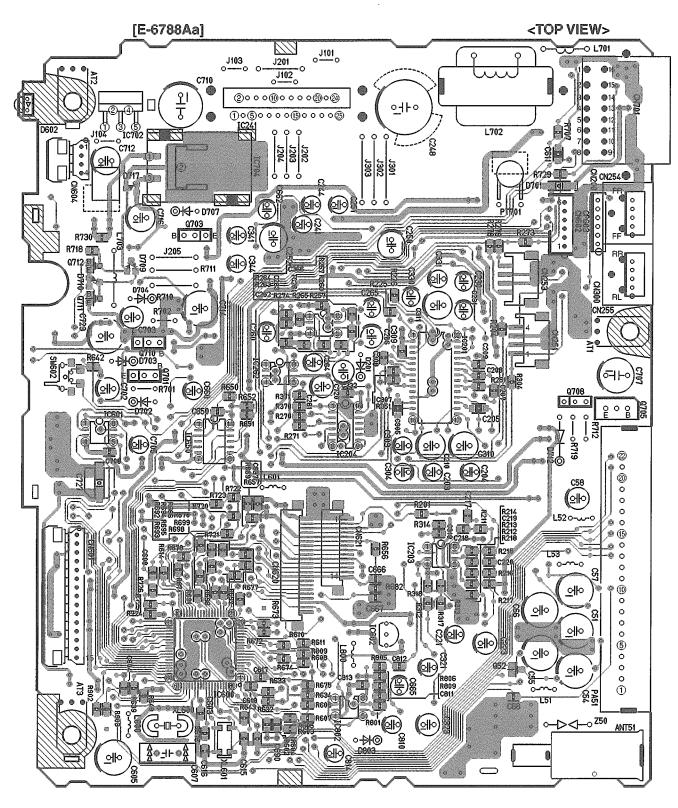


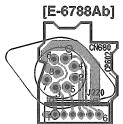
15 WIRING DIAGRAM

15.1. Display Block

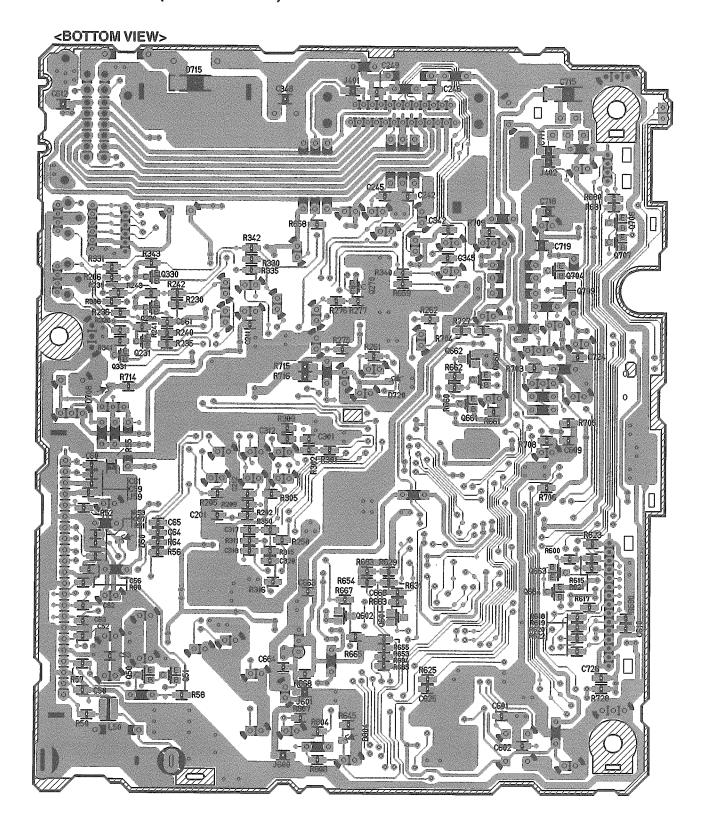


15.2. Main Block (Top View)

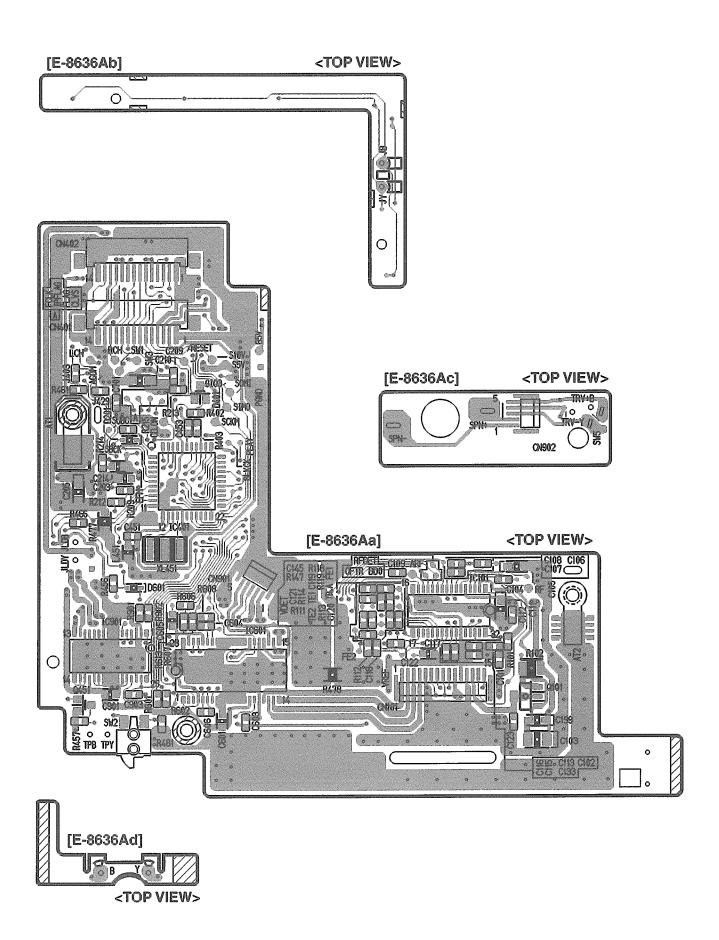




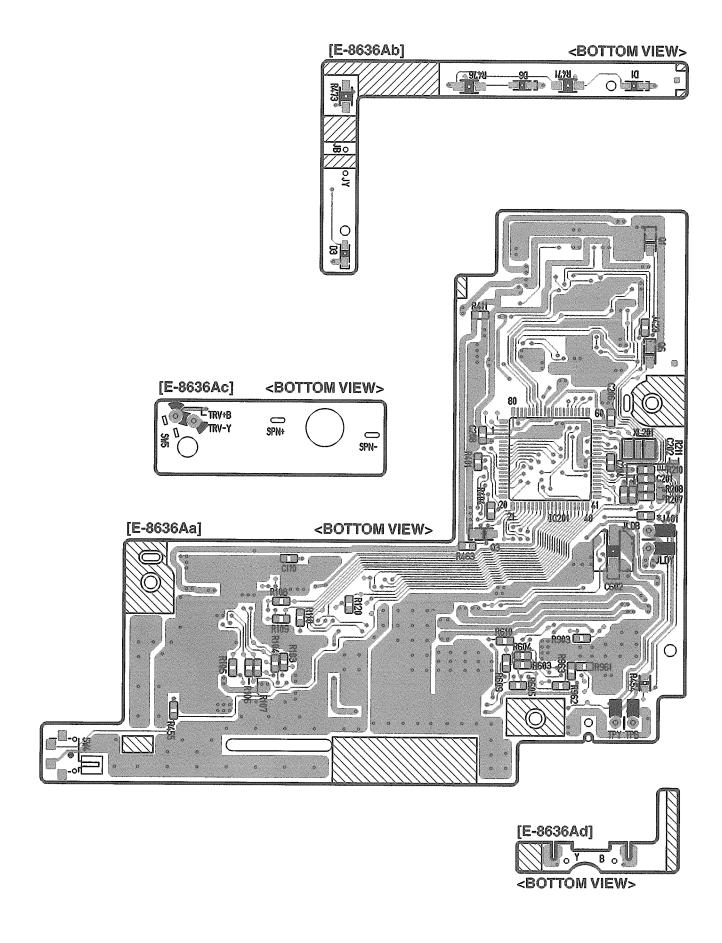
15.3. Main Block (Bottom View)



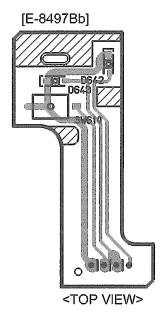
15.4. CD Servo Block (Top View)

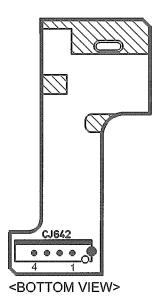


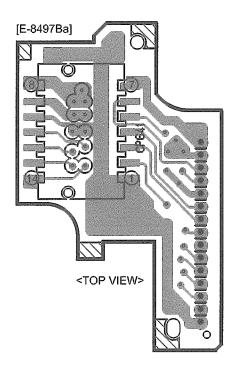
15.5. CD Servo Block (Bottom View)

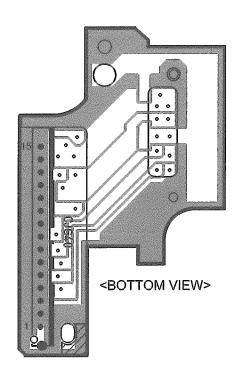


15.6. Sub. Block



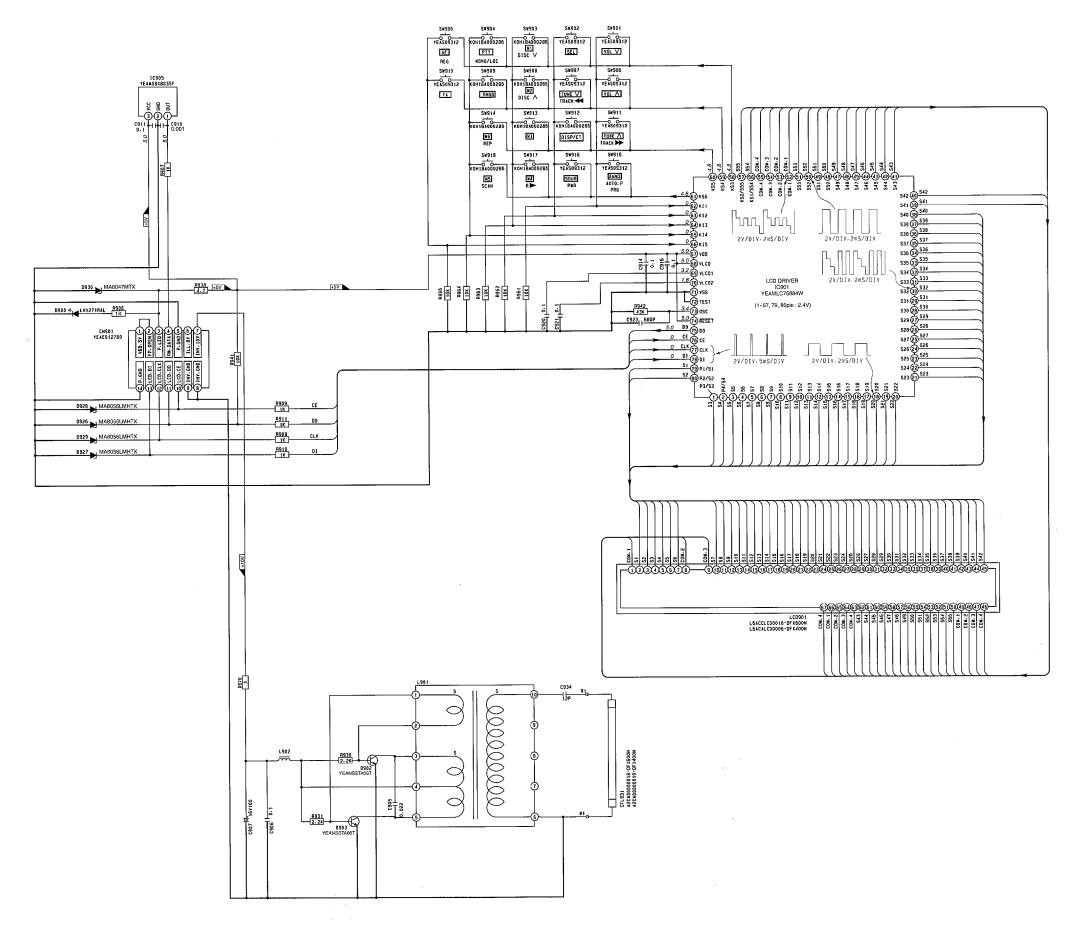




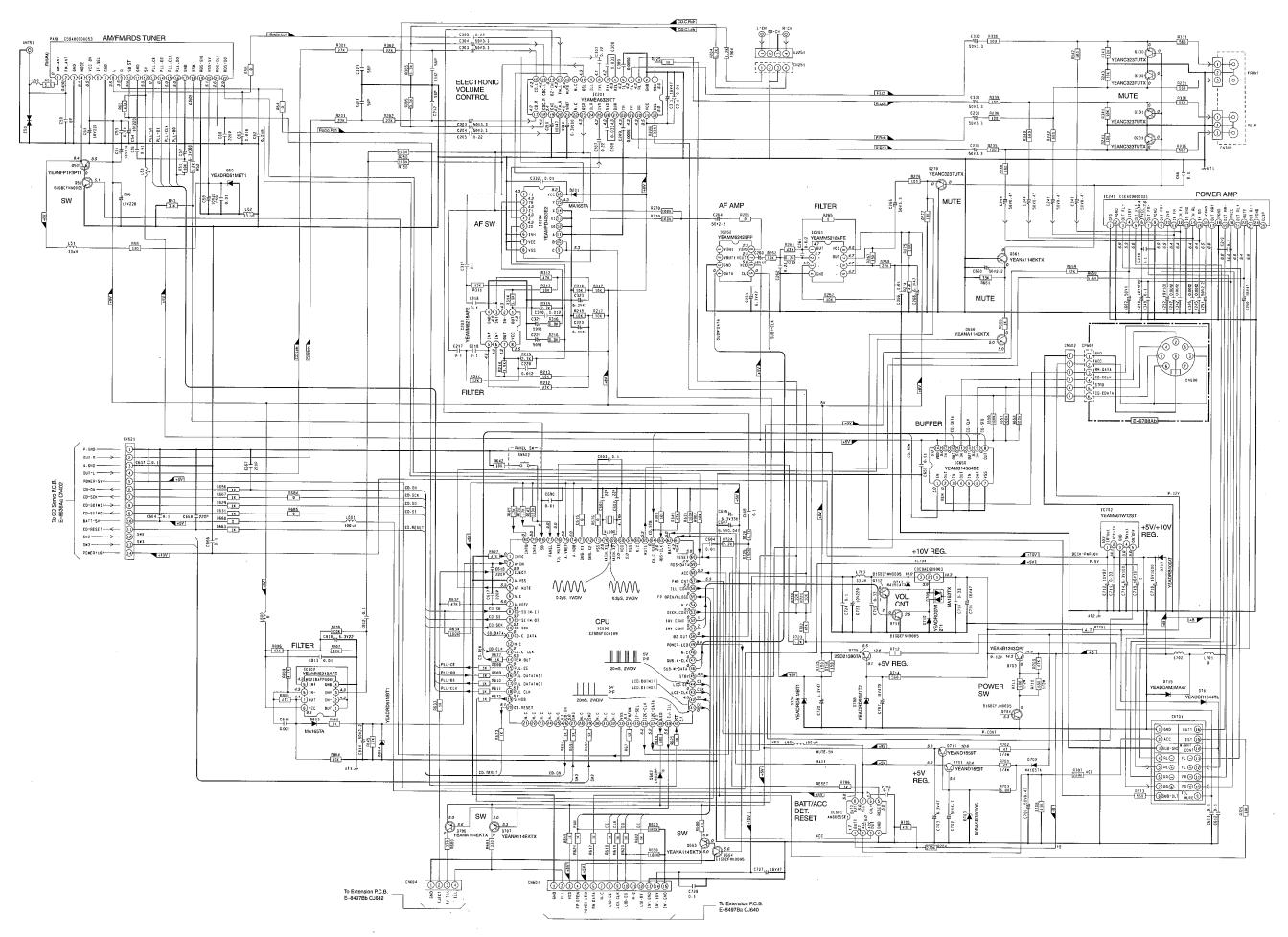


16 SCHEMATIC DIAGRAM

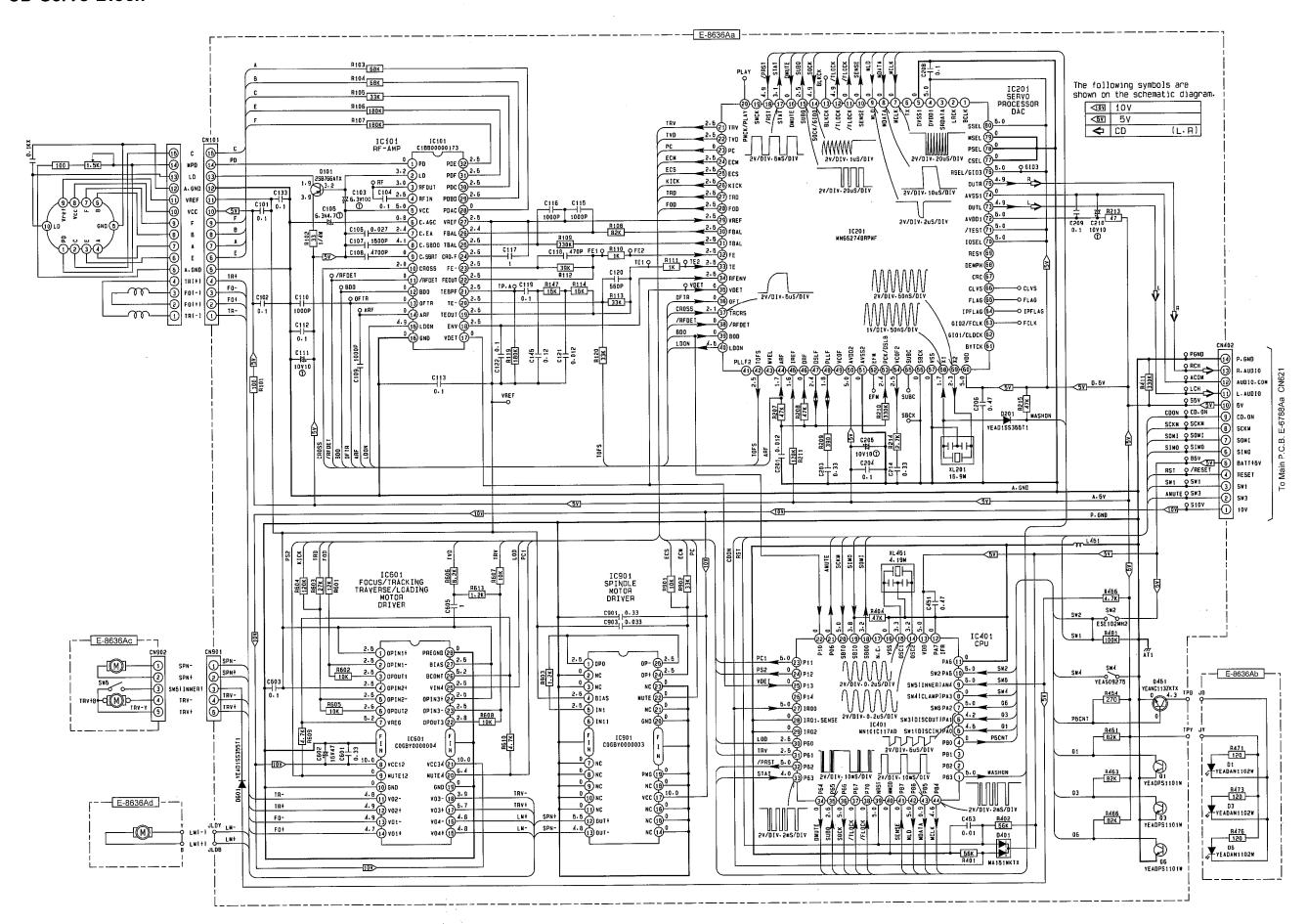
16.1. Display Block



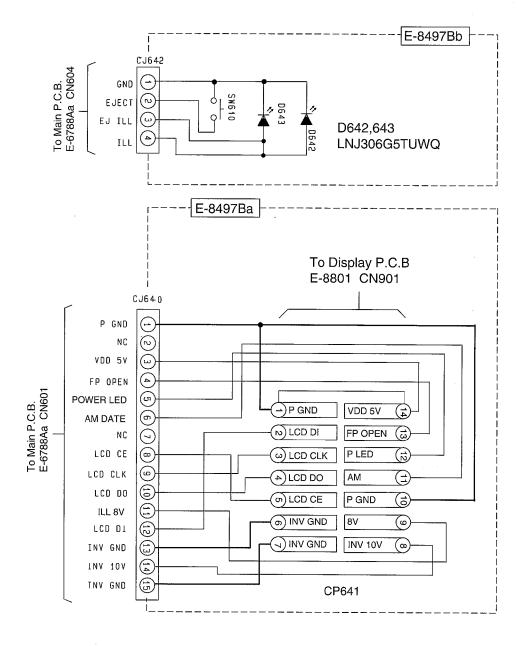
16.2. Main Block



16.3. CD Servo Block



16.4. Sub. Block



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