ORDER NO. ACED9901184

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

CQ-FX66/FX44G/FX44LEN

High-Power Cassette Player/RDS Receiver with Changer Control

< CQ-FX66LEN>

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

Specifications*

General

Power Supply	:	DC 12V(11V - 16V), Test Voltage 14.4V Negative Ground
Tone Controls	:	Bass; ± 12dB at 100Hz Treble; ± 12dB at 10kHz
Current Consumption	:	Less than 2.5A (Tape mode, 0.5W 4-Speaker)
Maximum Power Output	:	40W × 4 (at 4Ω)
Power Output	:	20W × 4 (DIN45 324 at 4Ω)
Speaker Impedance	:	4 - 8Ω

FM Stereo Radio

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

MW Radio

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

LW Radio

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

Cassette Player

Reproduction System	:	4-track, 2-program stereo
Tape Speed	:	4.76cm/sec.
FF/Rewind Time	:	Less than 110sec. (C-60)
Frequency Response	:	30 - 17,000Hz (Nomal) 30 - 18,000Hz (Metal)
Wow and Flutter	:	0.12% (WRMS)
Signal to Noise Radio	:	52dB (Dolby B NR on; 62dB)

Dimensions**	:	178(W)× 50(H)× 150(D)mm
Weight**	:	1.5kg

* Specifications and the design are subject to possible modification without notice due to improvements.
** Dimensions and Weight showm are approximate.

⚠WARNING

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

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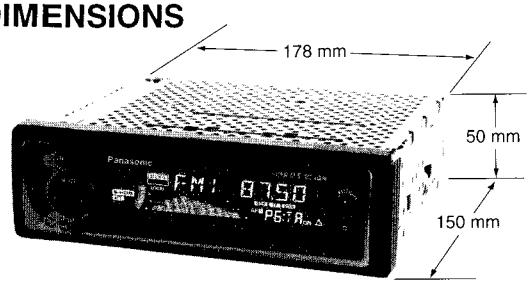
CONTENTS

Page
DIMENSIONS 1
FEATURES 1
FUSE 1
MAINTENANCE 1
ALIGNMENT JIG 1
PRECAUTIONS 1
< OPERATING INSTRUCTIONS >
Power and Sound Controls 2
Radio Basics 3
RDS Reception ..... 3 ~ 5
Cassette Tape Player Basics 5, 6
CD Chaner Basics 6, 7
Remote Control Basics 7
Anti-Theft System 7, 8
Installation 8
Electrical Connection 9
Speaker Connections 9
WIRING CONNECTION 10
BLOCK DIAGRAM 11
WIRING DIAGRAM (Display) 12
WIRING DIAGRAM (Main) 13
SCHEMATIC DIAGRAM (Main) 14
SCHEMATIC DIAGRAM (Display) 15
SCHEMATIC DIAGRAM (Tape) 15
WIRING DIAGRAM (Tape) 15
ALIGNMENT INSTRUCTIONS 16
ALIGNMENT POINTS 16
TERMINALS DESCRIPTION 17
PAKAGE AND IC BLOCK DIAGRAM ..... 18 ~ 20
RE-ASSEMBLY PROCEDURE for REEL PWB ASS'Y 20
REPLACEMENT PARTS LIST ..... 21 ~ 26, 28
EXPLODED VIEW (UNIT) 27
EXPLODED VIEW (TAPE) 29

DIMENSIONS



WARNING!
Lithium batteries. Explosion danger.
Change of batteries must only be done by qualified personnel and as described in the service manual.
Furthermore, that the batteries must only be changed with batteries of the same manufacture and type.

ADVARSEL!
Lithiumbatterier. Eksplosionsfare.
Udskiftning må kun foretages af en sagkyndig og som beskrevet i servicemanualen.
Batterierne kun må udskiftes med batterier af samme fabrikat og type.

WARNING!
Lithium-Batterien. Esplosionsgefahr.
Die Batterien dürfen ner von qualifiziertem Personal und gemäß Beschreibung in der Wartungsanleitung ausgetauscht werden. Die Batterien dürfen ner durch Batterien des gleichen Herstellers und Typs ersetzt werden.

FEATURES

- 24-Stations Preset (18-FM, 6-AM).
- Radio Data System (PS, AF, CT, PI).
- Electronic Control of Volume, Bass, Treble, Balance and Fader.
- Detachable Face Plate Security.

FUSE

Be sure to use a fuse of the specified rating (15A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit.

MAINTENANCE

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

ALIGNMENT JIG

- DOLBY NR ALIGNMENT;
  Test tape : RFKZ0038

Note:
This operating instruction manual is for three models CQ-FX66LEN,CQ-FX44GLEN and CQ-FX44LEN.
The differences among these models are mentioned below. All illustrations throughout this manual represent model CQ-FX66LEN unless otherwise specified.

Operating Controls \ MODEL	CQ-FX66LEN	CQ-FX44GLEN	CQ-FX44LEN
S•HDB	Yes	None	None
Tone Enhancement	None	Yes	Yes
LCD Color	Multi	Green	Blue
Remote Control	Yes	Option	Option

Precautions (ISO Connector)

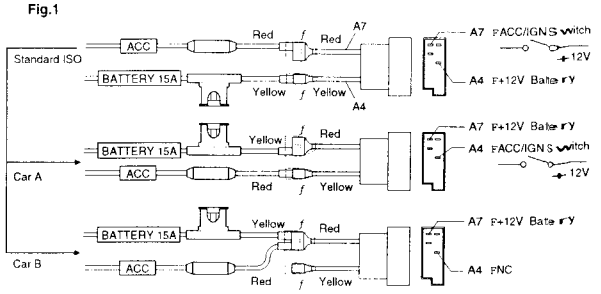
- Wiring for the power connector conforms to the arrangement of standard ISO connectors.
- In case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adopted.

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

Fig.1



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

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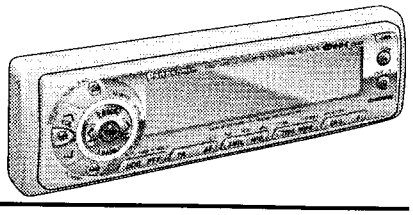
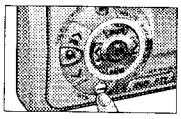
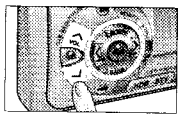
Power and Sound Controls





Power

Turn the key in the ignition until the accessory indicator lights.
Press PWR to switch on the power.
Press and hold PWR again to switch off the power.
Note: When power is switched on for the first time, demonstration is displayed. To cancel this display, press D (DISP/CT).



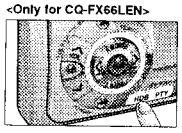
Volume

Press VOL∧ or VOL∨ to increase or decrease the volume.

VOL 20 ——Volume Level
0 to 40

Press VOL∧ or VOL∨ for more than 0.5 second to sequentially change numeric levels on the display.

<Only for CQ-FX66LEN>

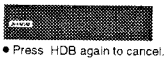


S•HDB (Super High Definition Bass)

(Only for CQ-FX66LEN)

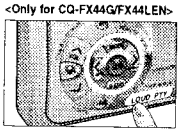
Especially for rock music, the bass-sound will be more powerful.

- Press HDB to be able to listen to high-definition bass.



- Press HDB again to cancel.

<Only for CQ-FX44G/FX44LEN>



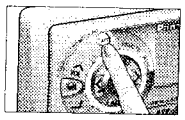
Tone Enhancement

(Only for CQ-FX44G/FX44LEN)

- Press LOUD to enhance bass and treble tones when listening at low or medium volume.

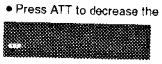
- Press LOUD again to cancel.

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

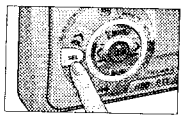


Attenuator

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



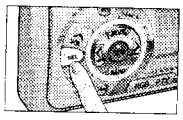
- Press ATT again to cancel.



Changing Audio Modes

Press SEL to switch the audio mode as follows.

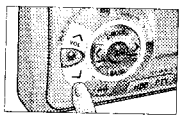
Normal Mode → VOL → BAS → TRE → BAL → FAD



Bass and Treble

Press SEL to select the BASS (TREBLE) mode. Press VOL∧ or VOL∨ to increase or decrease the bass (treble) response.

BAS+ 3dB TRE+ 3dB
−12 to +12 −12 to +12



Balance

Press SEL to select the BALANCE mode. Press VOL∧ or VOL∨ to shift the sound volume to the right or left speakers.

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

Fader

Press SEL to select the FADER mode. Press VOL∧ or VOL∨ to shift the sound volume to the front or rear speakers.

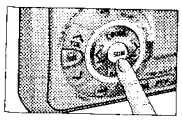
FAD F 3 FAD CNT FAD R 3
1 to 15 Fader Center 1 to 15

Note: When an audio mode (BAS/TRE/BAL/FAD) is selected but no operation is made within 5 seconds (2 seconds at VOL mode), the display will return to the normal operation mode.

Power and Sound Controls continued

Sound Design Memory

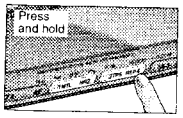
A favorite level setting of each audio mode (except for VOL and ATT) can be memorized and recalled.



Sound Design Memory Mode Selection

Press SDM to select the sound design memory mode.

SOUND

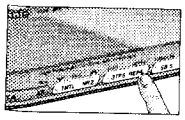


Sound Design Memory Input

To preset a favorite level setting, press and hold the corresponding preset memory button (1 to 4) in sound design memory mode until the display blinks.

SOUND 4

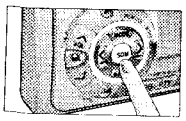
Preset button 5 and 6 are set as follows and they can not be changed.
Preset button 5: recommendable sound setting
Preset button 6: BASS, TRE·····0dB
BAL, FAD·····center



Sound Design Memory Call

When a desired preset memory button is pressed in sound design memory mode, the corresponding sound setting is recalled.

SOUND 4 ——The selected preset number is displayed.

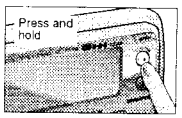


Canceling of Sound Design Memory Mode

Press SDM to changed to the normal mode.

Note: When the sound design memory mode is selected but no operation is made within 5 seconds, the mode will return to the previous mode.

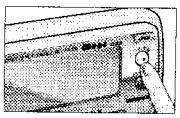
Display Controls



Dimmer Switching

Press and hold ⊙(LEVEL/DIM) for more than 1 second to change the brightness of the LCD as follows:

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



Level Meter Display Switching

Press ⊙(LEVEL/DIM) to change the level meter display as follows.

PATTERN 1 → PATTERN 2 → PATTERN 3 → PATTERN 4 → PATTERN 5 → PATTERN OFF

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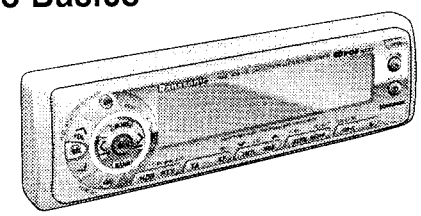
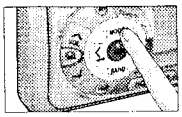
Radio Basics

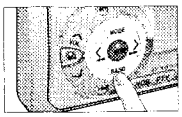




To change to Tuner Mode

Press MODE to switch the operation mode as follows.

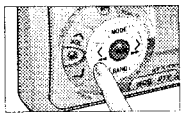
Tuner → Tape → CD Changer → Control



Selecting a Band

Press BAND to select a band as follows.
"STEREO" indicator lights if the station is broadcasting in stereo.

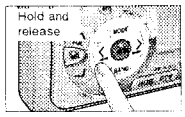
FM1 → FM2 → FM3 → AM(LW/MW)



Manual Tuning

Press < or > to move to a lower or higher frequency.

Press and hold < or > to move to a lower or higher frequency rapidly.

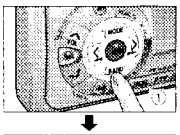


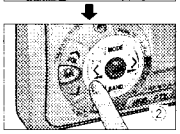
Seek Tuning

Press and hold < or > for more than 0.5 second, then release. The radio automatically stops at the next station.

Preset Station Setting

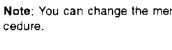
FM1, FM2, FM3 and AM (LW/MW) can save maximum 6 stations each in their preset station memories.





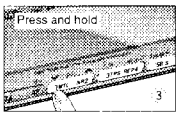
Manual Station Preset

① Press BAND to select a desired band.
② Use manual or seek tuning to find a station that you want to save into memory.
③ Press and hold one of the preset buttons 1 to 6 for more than 2 seconds until the display blinks.
Repeat the process to set other stations for the FM1 to AM bands.



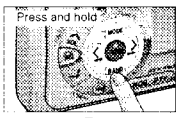
Preset Channel Indicator

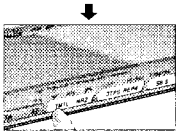
Note: You can change the memory setting by repeating the above procedure.



Tuning in a Preset Station

Press any of the buttons 1 to 6 to tune in the station preset.





Auto Station Preset

Select a band, press and hold BAND (AUTO • P) for more than 2 seconds.

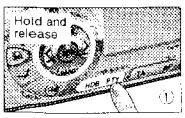
- The 6 strongest available stations will be automatically set in memory on preset buttons 1 to 6.
- Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press the appropriate preset button for the station you want to listen to.

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

Radio Basics continued

MONO/LOCAL Selection

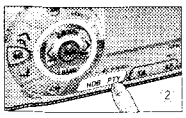
- Much interference is reduced during a weak FM stereo broadcasts when MONO is on. (Only for FM mode)
- Searching stops automatically at a strong wave station only when LOCAL is on.



① During FM broadcasts

Press and hold PTY (MONO/LOC) to switch the mode as follows. Release your finger at the desired mode.

MONO OFF LOCAL OFF → MONO ON LOCAL OFF → MONO ON LOCAL ON → MONO OFF LOCAL ON



② During AM broadcasts

Press PTY (MONO/LOC) on or off the LOC mode as follows.

LOCAL OFF → LOCAL ON

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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 selected.

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 station now 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 RDS indicator lights and automatically displays the name of that station instead of the frequency. When D (DISP/CT) is pressed during PS display, the frequency is displayed 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)
Program type identification 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 tape, CD changer source until it ends, then you will listen again to whatever you have been listening to.

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.

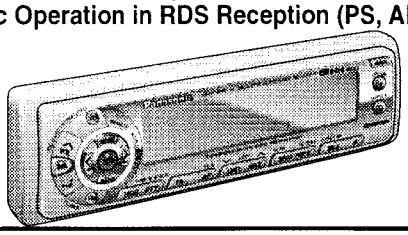
REG (Region)
The AF, Best Station Research, PI Seek functions will be as follows:
REG ON : The frequency changes only with the same regional program. This function is mainly used while driving in the same area, for example, in a city.
REG OFF: The frequency changes even with a different regional program 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.

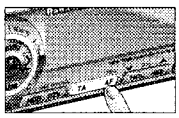
WHAT PROVIDES EON CAPABILITIES
EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently tuned in to. So, even if you change preset far from home, you will be able to receive the same station at an 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 switch to TA off in advance.

RDS (Radio Data System) Reception continued

A. Basic Operation in RDS Reception (PS, AF, CT, PI)

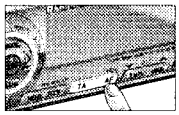




RDS Reception

Press AF when receiving a station in the FM1, FM2 or FM3 band.
- The operating mode changes to AF ON or AF OFF, respectively.

- 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.



To Change AF Mode

Press AF to change AF ON and activate Best Station Research at the same time. (3 seconds maximum)

.....AF 1 Mode

.....AF 2 Mode

.....AF OFF Mode

Note:
1. Default mode is AF1.
2. AF1 has a low level of AF operating sensitivity in urban areas. Therefore, AF dose not frequently operate even of 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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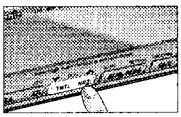
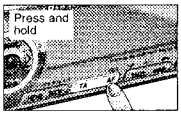
For Seek Tuning, RDS Station Preset, Tuning in a RDS preset station, and Auto RDS Station Preset, please refer to Radio Basics (page 16 to 18).



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.

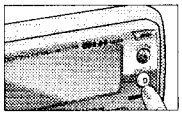
PI Seek: If Best Station Research fails in selecting the best station, the PI seek function operates to automatically tune in to the same program.



Region (REG) Switching

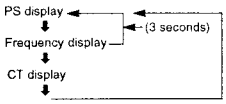
Press and hold AF(REG) for more than 2 seconds in AF mode to alternately select REG ON and REG OFF.

Note:
If you wish to stay with the same program, keep REG ON. If you keep REG OFF, there is a higher possibility of returning in to an AF station in better receiving condition.
The relationship of the PI seek function with REG ON and REG OFF is as described above.



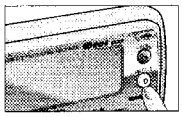
Changing Display

Press D(DISP/CT) to change the display.
(Frequency display continues for only 3 seconds, returning to PS display after that.)



Clock Time (CT) System

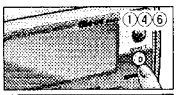
The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" is displayed in areas where no CT service is available.

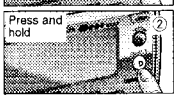


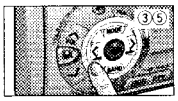
Clock Display

Press D (DISP/CT) to indicate the clock display.

RDS (Radio Data System) Reception continued





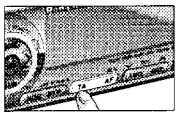


Initial Time Setting

Press BAND to change to AM mode.
① Press D(DISP/CT), " NO CT" is displayed.
② Press and hold D(DISP/CT) again for more than 2 seconds, "hours" blinks indicating the time setting mode is activated.
③ To set hours, press < or >.
④ Press D(DISP/CT) again for minutes setting.
⑤ To set minutes, press < or >.
Hold < or > change numbers rapidly.
⑥ After setting the time, press D(DISP/CT).

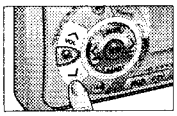
Note:
- If CT display is kept on, it remains on even if PWR and ACC are turned off and back on again.
- In other modes, press D (DISP/CT) to get RDS CT-service.

B. TP Reception

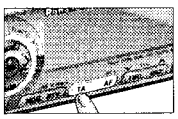


Select traffic information (TA on) mode

Press TA to switch on and keep it there when you wish to listen to traffic information. Press TA to switch off when no traffic information is needed.



Volume Setting (Only for TA on mode)
Adjust the volume as desired using VOL∧ or VOL∨ 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.
Normal volume can be changed up to 5 levels upward or downward.
If an adjusted level of volume is over 40 or less than 0, any further change will not be made.



When receiving a station other than TP station (including EON stations)
A traffic information station is automatically searched for and the radio automatically stops the next available TP station.
EON Capabilities:EON lets the radio take advantage of much more RDS 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 another station carrying the same program, when such exists. EON also keeps track of locally available TP station.

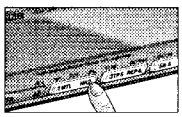
Press TA.

TP Seek Tuning

Press < or > for more than 0.5 second, then release. The radio automatically stops at the next available TP station.

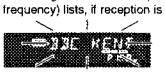
Auto TP Station Preset

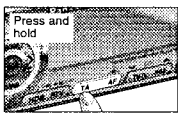
Press and hold BAND (AUTO-P) for more than 2 seconds. The six strongest available TP stations are automatically set in memory on the preset button 1 to 6.
Once set, the preset stations are sequentially scanned for 5 seconds each.



Tuning in a TP station preset

Press any of the preset buttons 1 to 6 that you want to listen to. And then 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.





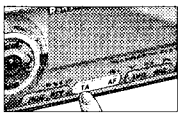
Muting TA on

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

Muting TA on canceling (Muting TA on → TA off)
Press TA again.
Press VOL∧ to increase the volume level.

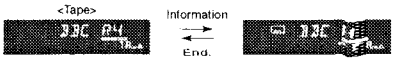
TP Auto Search

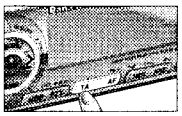
If receiving conditions are poor when TA is on during muting and there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically searched for.



Tape/CD•C TA on

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





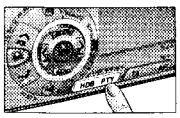
Switching to TA off Mode

Select either one of the following steps.
- Press TA when TA is on.
- Press and hold TA for more than 2 seconds when Muting TA is on.
- Press TA when TAPE/CD·C TA is on.

RDS (Radio Data System) Reception continued

C. PTY Reception

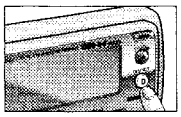
(There are some areas where PTY service may not be available.)



Switching to PTY mode

Press PTY to select PTY display mode, and the PTY of the broadcast now received is displayed.

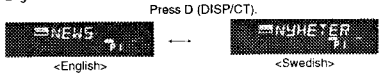
"NO PTY" is displayed if there is no corresponding program type.



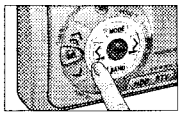
Changing PTY Display Language

Press D(DISP/CT) in PTY mode to alternate the language between English and Swedish.

Press D (DISP/CT).

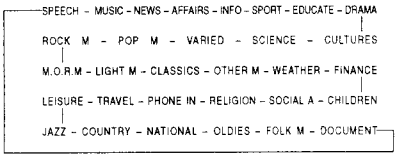


<English> <Swedish>



Program Type Selection

Press < or > to select the program type as follows.



When a desired selection has been made, press BAND. Then automatic seek will start to tune into the station broadcasting the selected program type.

Note :
Seek tuning does not operate as long as "NO PTY" is displayed.

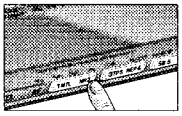
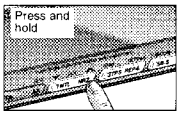


TABLE of PTY CODE and Program Type

Press any of the preset button 1 to 6 that you want to desire the program type. Those buttons are already stored program types as follows. (Default setting)

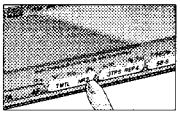
<PRESET PTY>

Preset NO.	1	2	3	4	5	6
Program Type	NEWS	SPEECH	SPORTS	POP. MUSIC	CLASSICS	MUSIC
Display	NEWS	SPEECH	SPORT	POP M	CLASSICS	MUSIC
	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 that 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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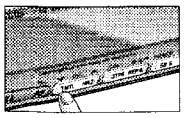
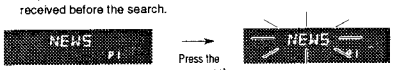
RDS (Radio Data System) Reception continued



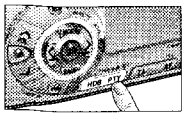
Searching for PTY

① Select a desired station from among those preset in the preset number buttons 1 to 6. Then, the preset PTY and that preset number are displayed for 5 seconds.

② While the desired type from 6 presets is displayed, 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.



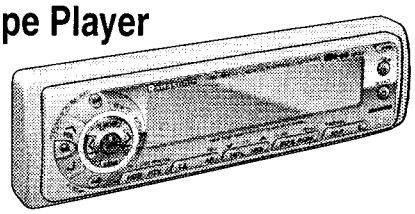
Canceling of PTY Mode

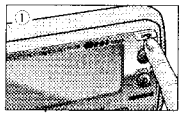
Press PTY to cancel.
The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

Emergency Announcement Reception

(Some areas are not covered by emergency announcement service.)
If an emergency announcement is broadcast during tape/CD changer mode, the radio is automatically selected to receive the emergency announcement. "ALARM" blinks.

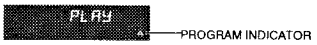
Cassette Tape Player Basics

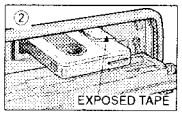




Loading a Cassette

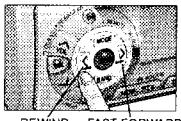
① Press OPEN to open the front panel.
② Insert a cassette with the exposed tape side facing to the right.
③ Close the front panel by hand.





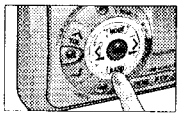
Caution:
When the front panel is opened, do not force it down and do not put anything on it because these may result in damage to the unit.

Note:
While inserting a cassette tape, the volume decreases to about 1/16 of the previous level. And the volume is back to the previous level when the front panel is closed completely.

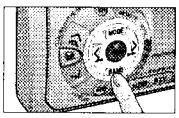


Rewind and Fast Forward

Press ◄◄ or ►► to rewind or fast forward the tape.

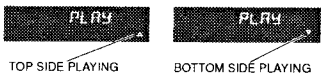


To stop rewind or fast forward, press BAND (PRG).

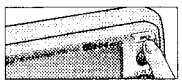
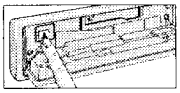


Changing Sides

Press BAND (PRG) to change to the program on the other side of the tape.



Cassette Tape Player Basics continued

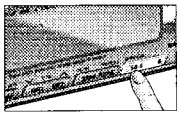
Ejecting the Tape

Press OPEN to open the front panel. Press ▲ to eject a cassette, and the previous operation mode will resume.

Note:
The cassette tape should be always removed from the cassette slot when not in use.

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

Note:
While ejecting a cassette tape, the volume decreases to about 1/10 of the previous level. And the volume is back to the previous level when the front panel is closed completely.

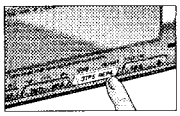


Blank Skip

- Press 5 (B•S) to skip long unrecorded portions on the tape.

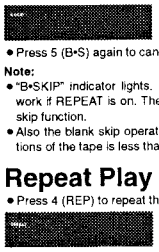
- Press 5 (B•S) again to cancel.

Note:
- "B•SKIP" indicator lights. However, the blank skip operation will not work if REPEAT is on. The repeat function has priority over the blank skip function.
- Also the blank skip operation will not work when the unrecorded portions of the tape is less than 15 seconds.

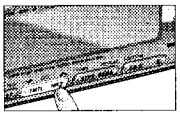


Repeat Play

- Press 4 (REP) to repeat the same music you are listening to.



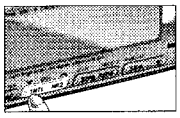
- Press 4 (REP) again to cancel.



Dolby Noise Reduction

- Press 2 (NR) to set the Dolby B NR mode.

- Press 2 (NR) again to cancel.
- Set the Dolby B NR mode when playing back a tape recorded with Dolby B Noise Reduction.

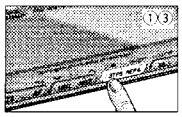
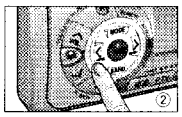
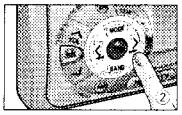


Metal Tape Mode

- Press 1 (MTL) when playing metal or chromium dioxide (CrO_2) tapes.

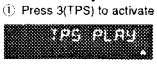
- Press 1 (MTL) again to cancel.

Note: Playing non-metal tapes in MTL mode causes high frequency imbalance, which affects tone quality.

TPS Operation (Tape Program Search)

① Press 3(TPS) to activate the Tape Pprogram Search mode.



② From the current selection, decide which program you want to select. Now, press ►► several times forward (up to 9 programs) or press ◄◄ several times backward (up to 8) to select the corresponding program number.

(Fast forward:) 1 ----------▶ 9 (Rewind:) 0 ----------▶ 8

EX1. To select the current program again press 3 (TPS), and press ◄◄ once.

EX2. To select the 1st program backward of the current selection, press 3 (TPS) once, and press ◄◄ twice-times.

EX3. To select the next program, press 3 (TPS) and press ►► once.

EX4. To select the 3rd program forward of the current selection, press 3 (TPS) once, and press ►► three times.

③ Press 3 (TPS) again to cancel.

Note:
The TPS mode may not work correctly in the following cases. This, however, does not mean that the unit is defective.
- There is an interval less than 3 seconds or having a high level of noise or hum between programs.
- There is particularly low-level passage during the program.

Note:
To maintain your cassette player in top condition, avoid using tapes that are longer than 90 minutes (C-90).

"For Inserting a Cassette Tape"

If you insert into the unit a cassette with a loose tape caused by forcing it into cassette with a finger or the like, the cassette may not be properly reproduced. In such a case, eject the cassette, make the tape tight, then insert it back into the deck.

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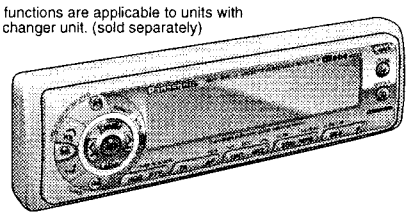
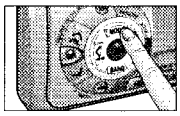
CD Changer Basics

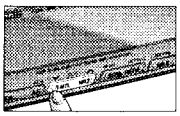
Note:
CD changer functions are applicable to units with optional CD changer unit. (sold separately)





To start the CD Changer

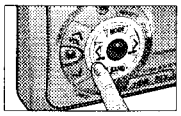
While CD changer is connected, press MODE to change into the CD changer mode and playback starts automatically.



Selecting a Disc

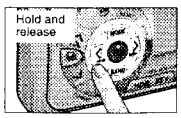
Press ∨DISC or DISC∧ to select discs in descending or ascending order.

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



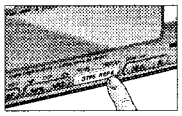
Selecting a Track

- Press ►► once to go to the next track.
- Press ◄◄ once to play from the beginning of the current track. Press twice to play the previous track.
- Press repeatedly to skip the desired number of tracks.



Searching a Track

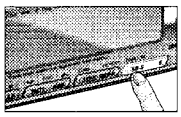
- Press and hold ◄◄ or ►► for more than 0.5 second to activate reverse through or fast forward a track.
- Release ◄◄ or ►► to resume the normal CD play.



Repeating a Track

- Press 4 (REPEAT) to repeat the current selection.

- Press 4 (REPEAT) again to cancel

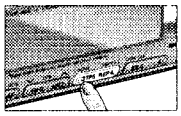


Random Selection

- Press 5 (RANDOM). A random selection of music is played from all available tracks.

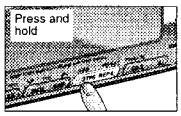
- Press 5 (RANDOM) again to cancel.

Note:
The "∨DISC" or "DISC∧" is operated, has priority over Random Play mode. The Random mode will stop and the disc select function will operate once the ∨DISC or DISC∧ is pressed.



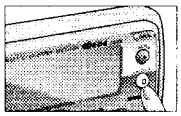
Scanning Tracks

- Press 3 (SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.
- Press 3 (SCAN) again to cancel.



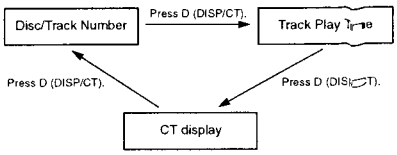
Scanning Discs

- Press and hold 3 (SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.
- Press 3 (SCAN) again to cancel.



Changing the Display

Press D(DISP/CT) to switch the display as follows.



CD Changer Basics continued

Error Display Messages

CDC E1 (Disc No.)	Displays when the compact disc is dirty or when it is inverted. Next compact disc is automatically selected.
CDC E2 (Disc No.)	Displays when the compact disc has a scratch on it. Next compact disc is automatically selected.
CDC E3	Displays when the unit stops operating for some reason. Press the eject button of the changer unit.
CDC 0000	Displays when there is no disc in the magazine.

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Remote Control Basics

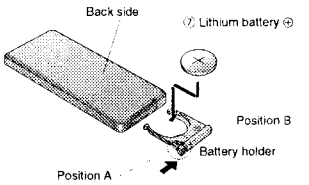
[CQ-FX66LEN (Supplied)
CQ-FX44GLEN, CQ-FX44LEN (Option)]

Battery Replacement:

1. Remove the battery holder.
Pull the holder by the Position B while pushing Position A in the direction indicated by the arrow.

2. Replace the battery.
Set a new battery properly with (+)side up as illustrated.

3. Insert the battery holder.
Push in the holder to the original position.



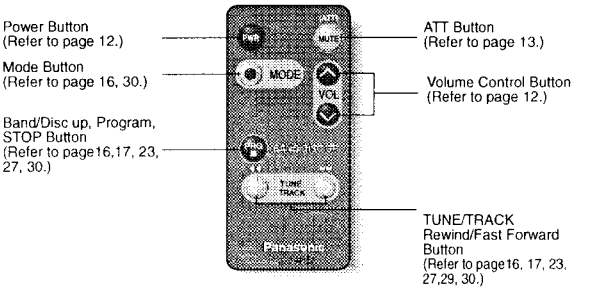
Note on Batteries:

Old batteries must immediately be removed and disposed.
Battery Information:
- Designated Battery: Panasonic Lithium Battery (CR2025)
- Battery Life: 6 months with normal use (in normal room temperature)

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

- Do not disassemble or short the batteries. Do not throw the batteries into a fire.
- To avoid the risk of accident, keep the batteries out of reach of children.

Names of Main Controls:



Anti-Theft System

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

To Remove the Removable Face Plate

① Switch off the power.
② Press the OPEN. The removable face plate will be opened.

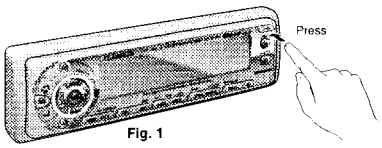


Fig. 1

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

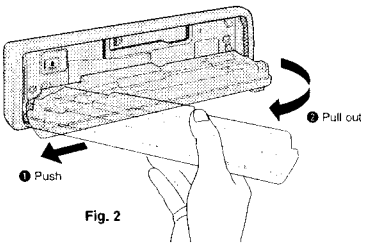


Fig. 2

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

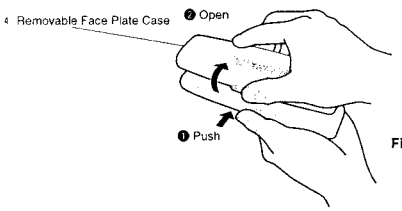


Fig.3

To Install the Removable Face Plate

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

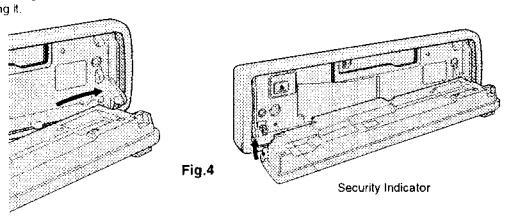


Fig.4

② After fitting the face plate holes, move the face plate up and down a few times to make sure that it has been fitted securely.

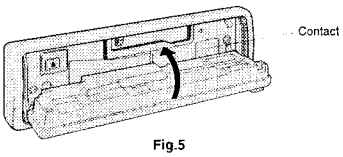


Fig.5

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

Caution:
1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate while driving your car.
4. Do not place the removable face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the removable face plate or on the main unit because this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them with clean, dry cloth.
7. 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.

Anti-Theft System continued

Warning Alarm

Caution

This car radio is equipped with an integrated Warning Alarm in order to make robbery more difficult. But it has to be secured that the installation will be properly done so that the Warning Alarm may work in a perfect way. Concerning the installation, the following points have to be observed:

1. The supplied mounting collar has to be firmly fixed with the mounting tabs to the dashboard.
2. The radio has to be put into the mounting collar in that way that it exactly ends with the collar.
3. Please make sure that the technical features (impedance and power) of the speakers are installed correspond to the specifications of this car radio (see technical specifications).

Only when these three points are observed during the installation, the correct function of the "Warning Alarm" will be secured.
If the main unit is not correctly wired and installed, the system may accidentally sound the alarm.

Warning Alarm and Security Indicator

The security indicator blinks when the removable face plate is removed from the unit. Furthermore, the alarm will set off for 1 minute then reset when an attempt is made to remove the unit from the mounting collar.

Activate Warning Alarm and Security Indicator

1. Press and hold SEL for more than 4 seconds when the power is on. "ALRM ON" is displayed, and the security indicator and Warning Alarm are turned on.
(Default : The security indicator is off.)
2. To check whether the unit is set in the ALARM ON mode, make sure that the security indicator blinks when the removable face plate is removed.

Display	Security Indicator	Warning Alarm	Panel Removal Alarm
ALRM ON	Blinks	ON	ON
↑↓	(Press and hold SEL for more than 4 seconds.)		
ALRM OFF	OFF	OFF	OFF

Caution:
1. Warning Alarm system may not operate if the exclusive supplied mounting collar is not used. This mounting collar will set off the alarm when the unit is being removed.
If the main unit is not correctly wired and installed, the system may accidentally sound the alarm.
2. When removing or installing the unit, make sure that it is in the ALARM OFF mode.
3. When the Warning Alarm is activated by mistake, or when you want to remove the unit, the Warning Alarm and the security indicator functions can be canceled by the following procedure.
   - Install the removable face plate.
   - Disconnect the power connector.

Panel Removal Alarm

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

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Installation

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 than 30°.

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

In-dash Installation

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

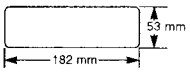


Fig. 1

Installation Precautions

This equipment, 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 connection on page 40 carefully. Failure to do so may result in damage to the unit.
3. Connect the power lead after other connections are made.
4. Be sure to connect the YELLOW lead to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuitting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardwares

No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Mounting Bolt (5 mmø)		1
③	Power Connector		1
④	Removable Face Plate Case		1

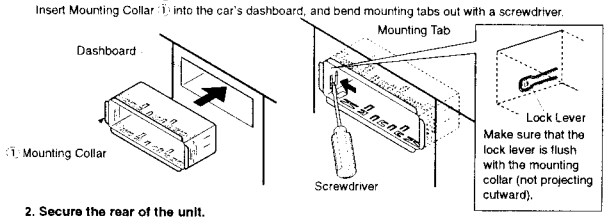
No.	Item	Diagram	Q'ty
⑤	Remote Control Unit (Only for CQ-FX66LEN)		1
⑥	Trim Plate		1
⑦	Lithium Battery (Only for CQ-FX66LEN)		1
⑧	ISO Antenna Adaptor		1

Installation continued

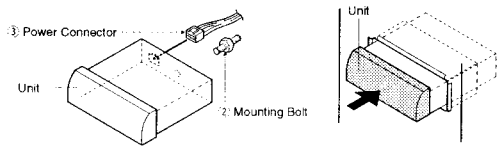
Installation Procedures

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

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



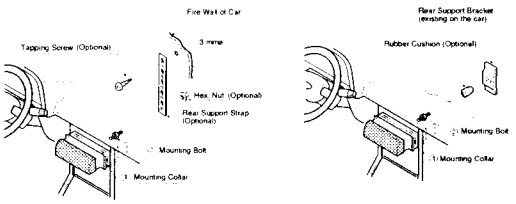
2. Secure the rear of the unit.
a) Check the electrical connection by referring to this operating instructions.
b) Connect the Mounting Bolt ② using a suitable wrench.
c) Incert the Power Connector ③ to the unit.



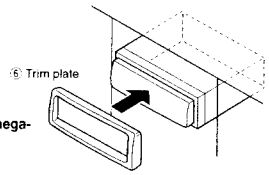
d) Insert the unit into Mounting Collar ① and push it in until "click" is heard.
e) Secure the rear of the unit to the car by either of the two recommended methods.

■ Using the Rear Support Strap (Optional)
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.

■ Using the Rubber Cushion (Optional)
(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 Support Bracket.



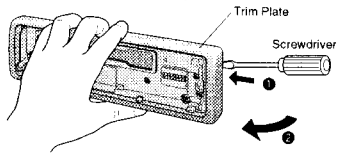
3. Insert the Trim plate ⑥.



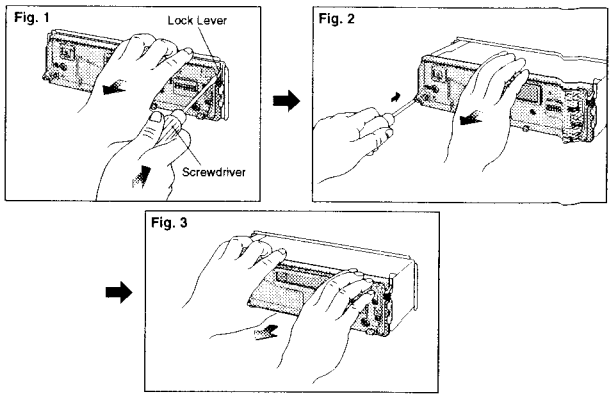
4. After installation reconnect the negative (–) battery terminal.

To Remove the Unit

a) Remove the removable face plate. (See page 34.)
b) Remove the trim plate with a screwdriver as shown in the figure.

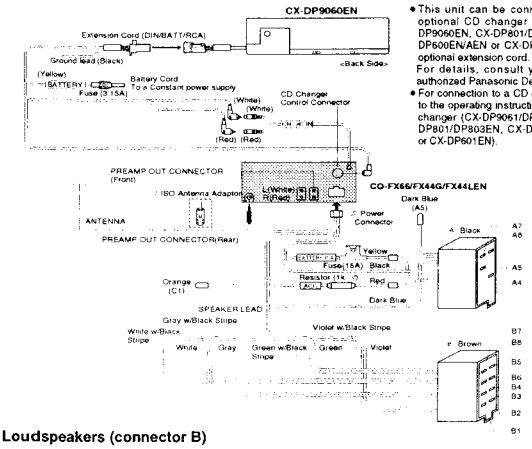


c) Pull out the unit while pushing the lock lever using screwdriver. (Fig. 1, Fig. 2)
d) Remove the unit pulling with both hands. (Fig. 3)



Electrical Connection

Caution:
- Confirm the note on page 4, and make connections to the connectors on car side.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting. (the cords except for ISO connector's cords)
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



- This unit can be connected to an optional CD changer (CX-DP9061/DP9060EN, CX-DP801/DP803EN, CX-DP600EN/AEN or CX-DP601EN) and optional extension cord.
  For details, consult your nearest authorized Panasonic Dealer.
- For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP9061/DP9060EN, CX-DP801/DP803EN, CX-DP600EN/AEN or CX-DP601EN).

Loudspeakers (connector B)

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

A4
BATTERY LEAD (To Battery of Car) (Yellow)
Connect to the "BAT" terminal on the fuse block of the car. The power should be supplied continuously to the yellow leads regardless of the on/off position of the ignition key.

A5
MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue)
(To Motor Antenna) (Max. 500mA)
This lead is not intended for use with switch actuated power antenna.
AMP RELAY CONTROL POWER LEAD
This lead is for connection to Panasonic power amplifier.

A7
POWER LEAD (Red)
Connect to the "radio" power line of the car or to the "IGN" or "ACC" terminal of the fuse block.

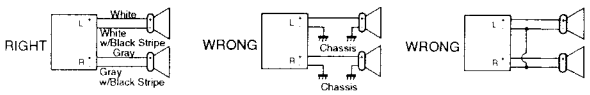
A8
GROUND LEAD (Black)
Connect to a well grounded metallic part of your car.

C1
TELEPHONE MUTE LEAD (Orange)
(To car telephone mute line)
TELEPHONE MUTE
The telephone mute lead, if connected to the car telephone mute line, will activate the muting circuit and the sound from the speakers cannot be heard while the telephone conversation is in progress.
Note: This telephone mute lead is for connection only to the radio mute line. Be sure to ascertain this because it will not work with other type of output system.

Speaker Connections

Caution:
1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 40W of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.
3. The speaker impedance should be 4 - 8 ohms. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or this unit.
4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 30cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

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



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

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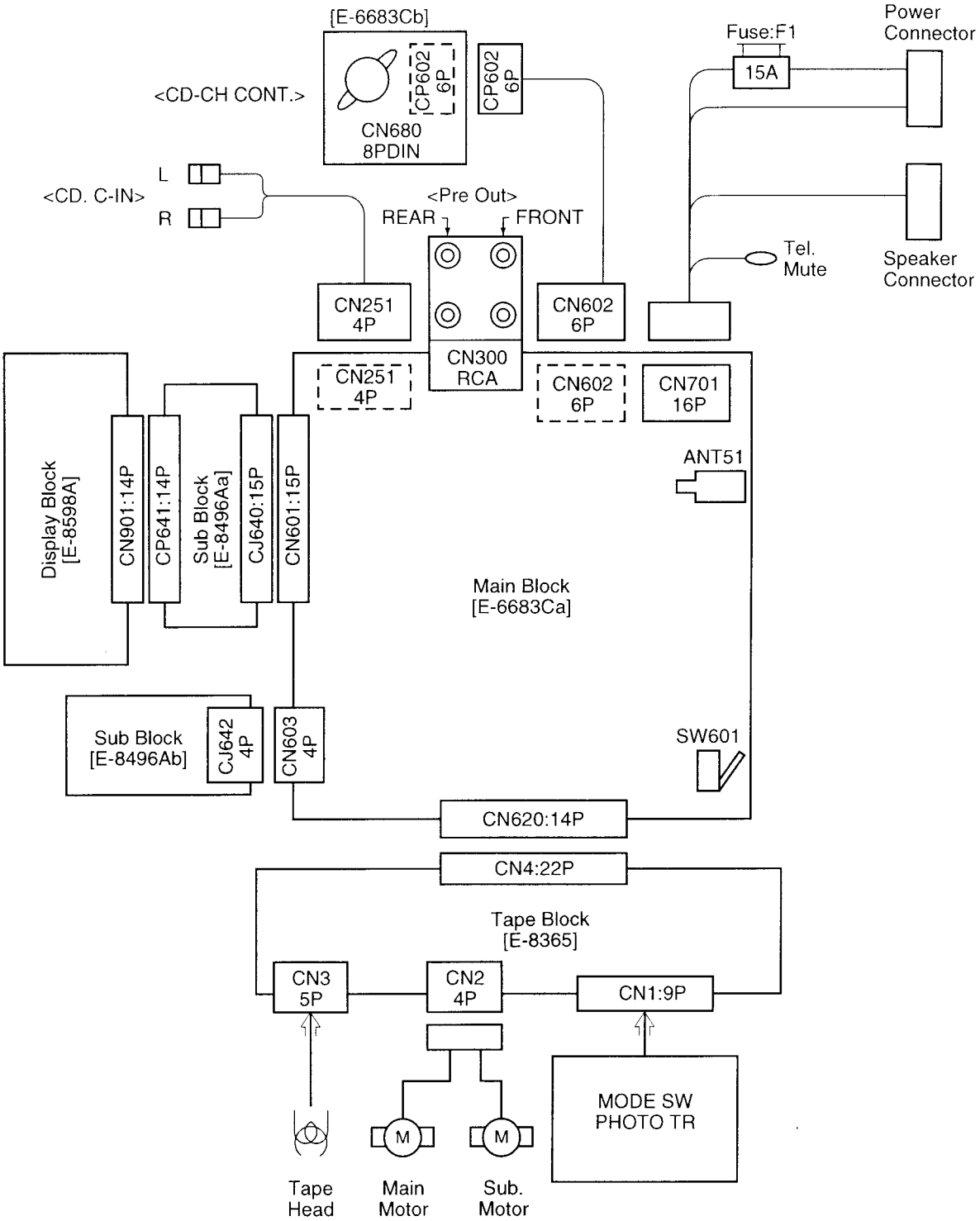
WIRING CONNECTION



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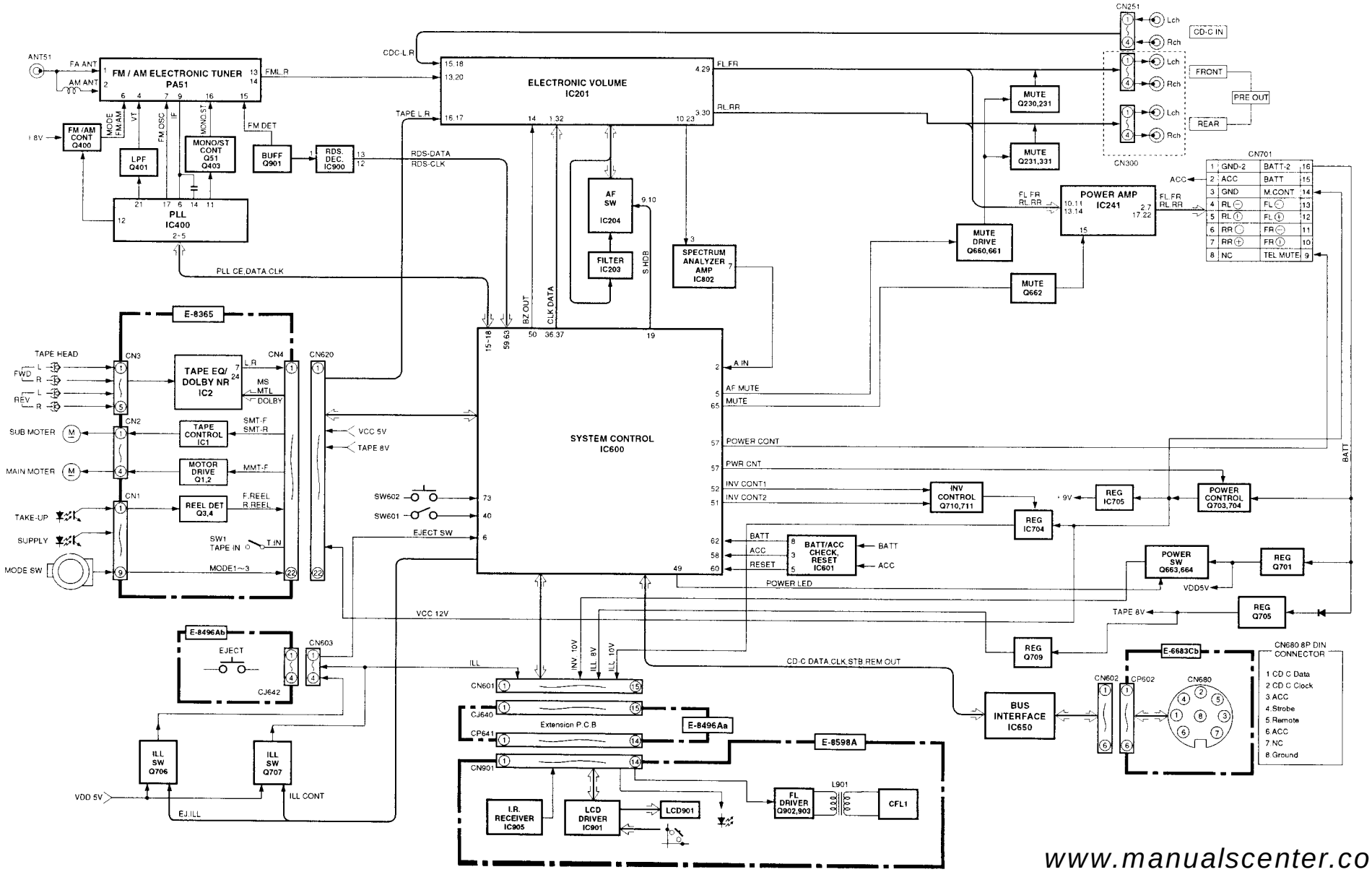
[ ] ·····This mark shows a Ref. No. of connector

[- - -] ·····This mark shows a mounting position of connector.

BLOCK DIAGRAM MODELS CQ-FX66/FX44G/FX44LEN



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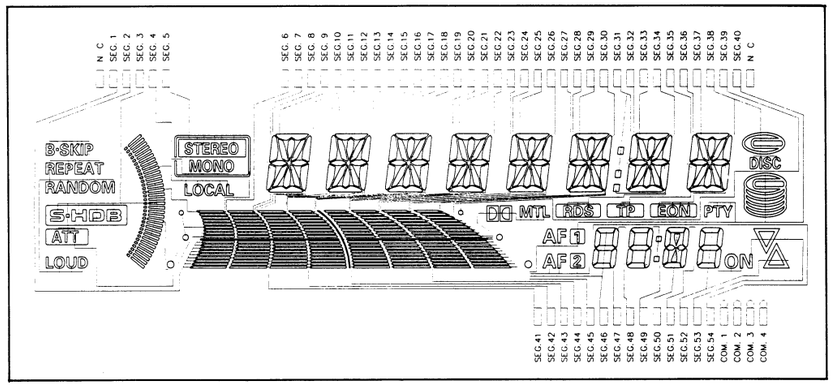
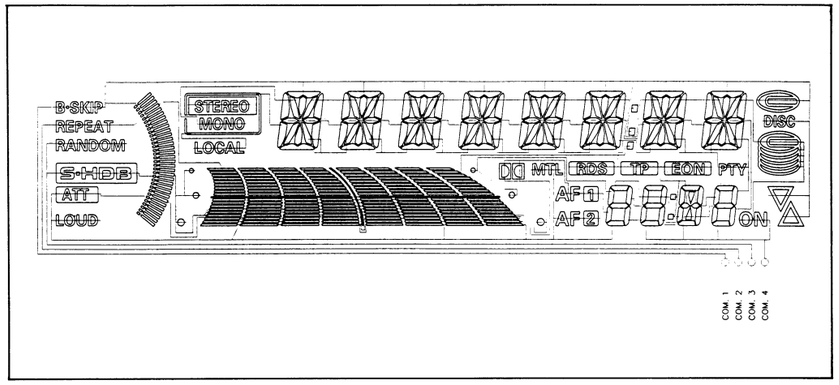
WIRING DIAGRAM (Display Block) MODELS CQ-FX66/FX44G/FX44LEN

<LCD901>





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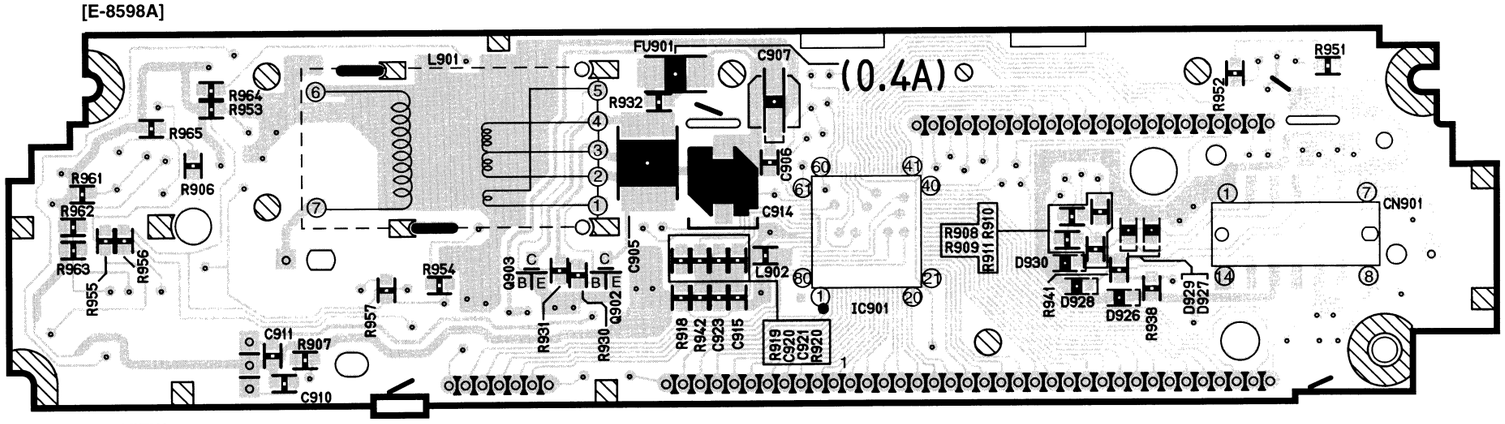

<BOTTOM VIEW>

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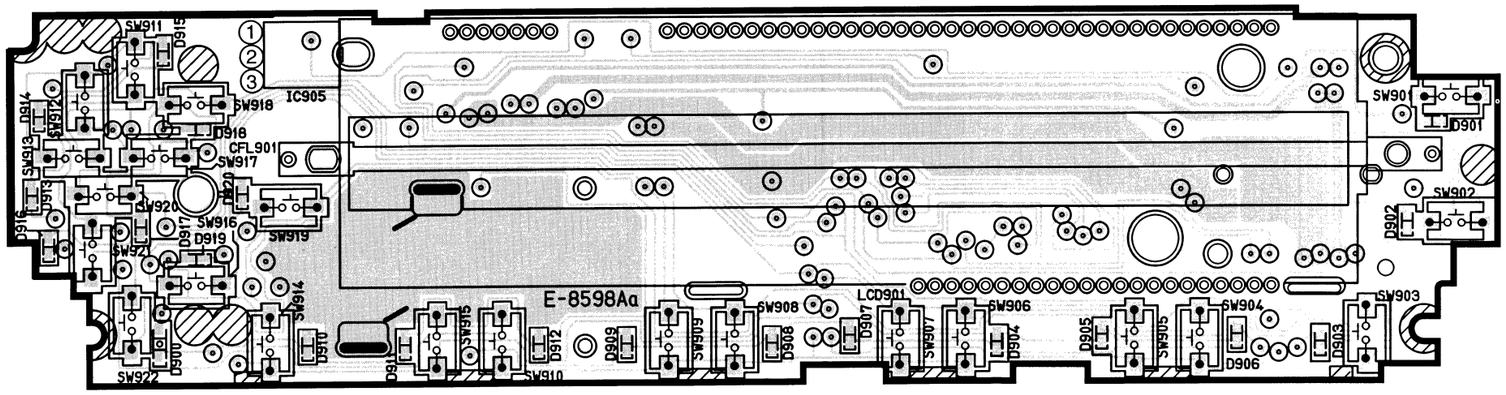

<TOP VIEW>

WIRING DIAGRAM (Main Block) MODELS CQ-FX66/FX44G/FX44LEN

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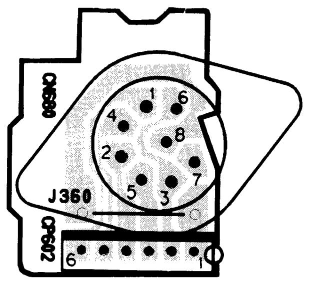

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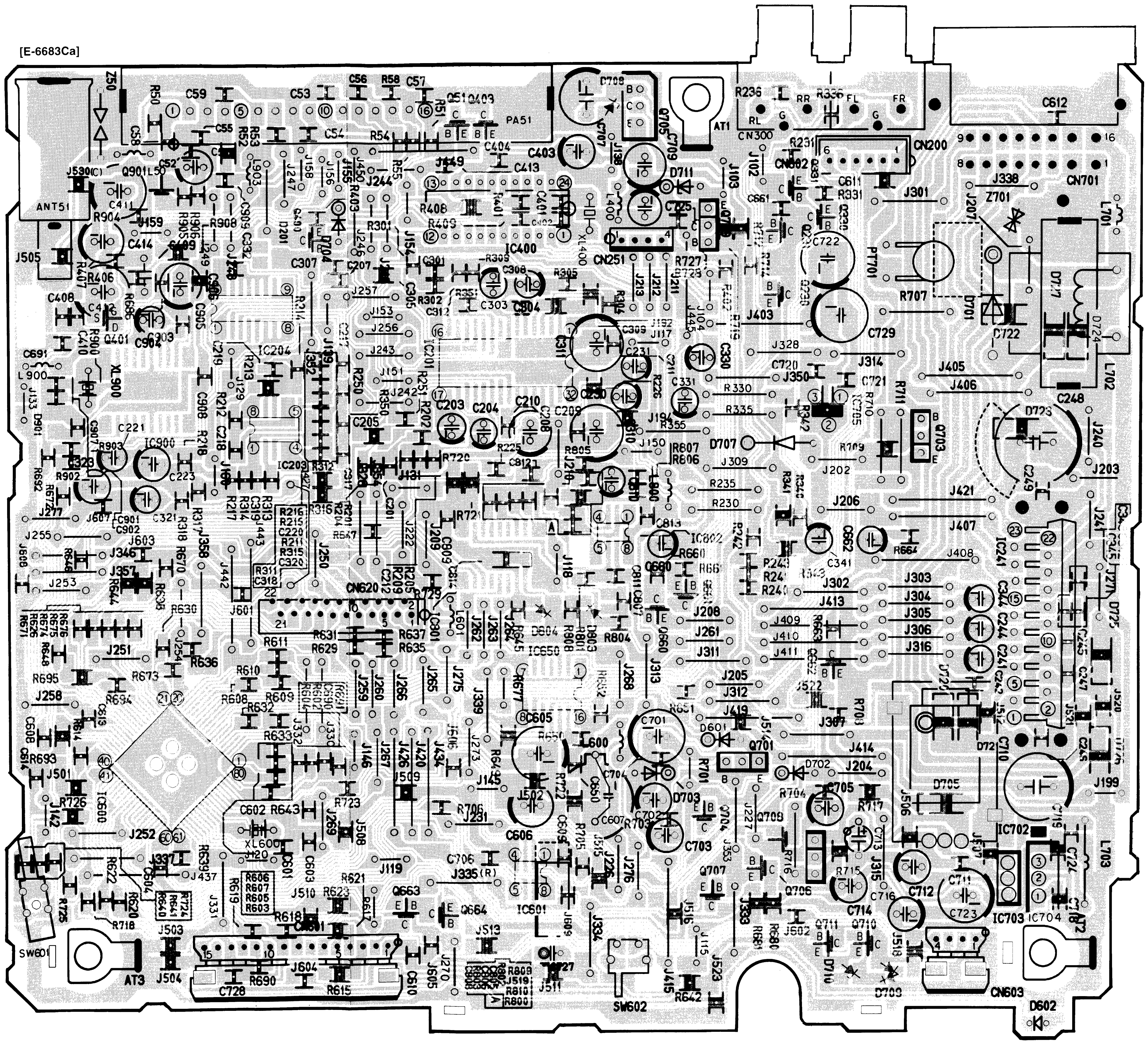

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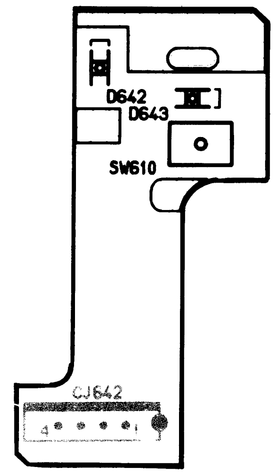

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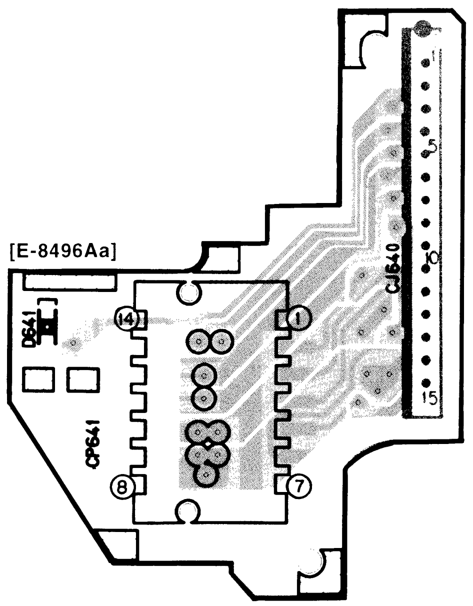

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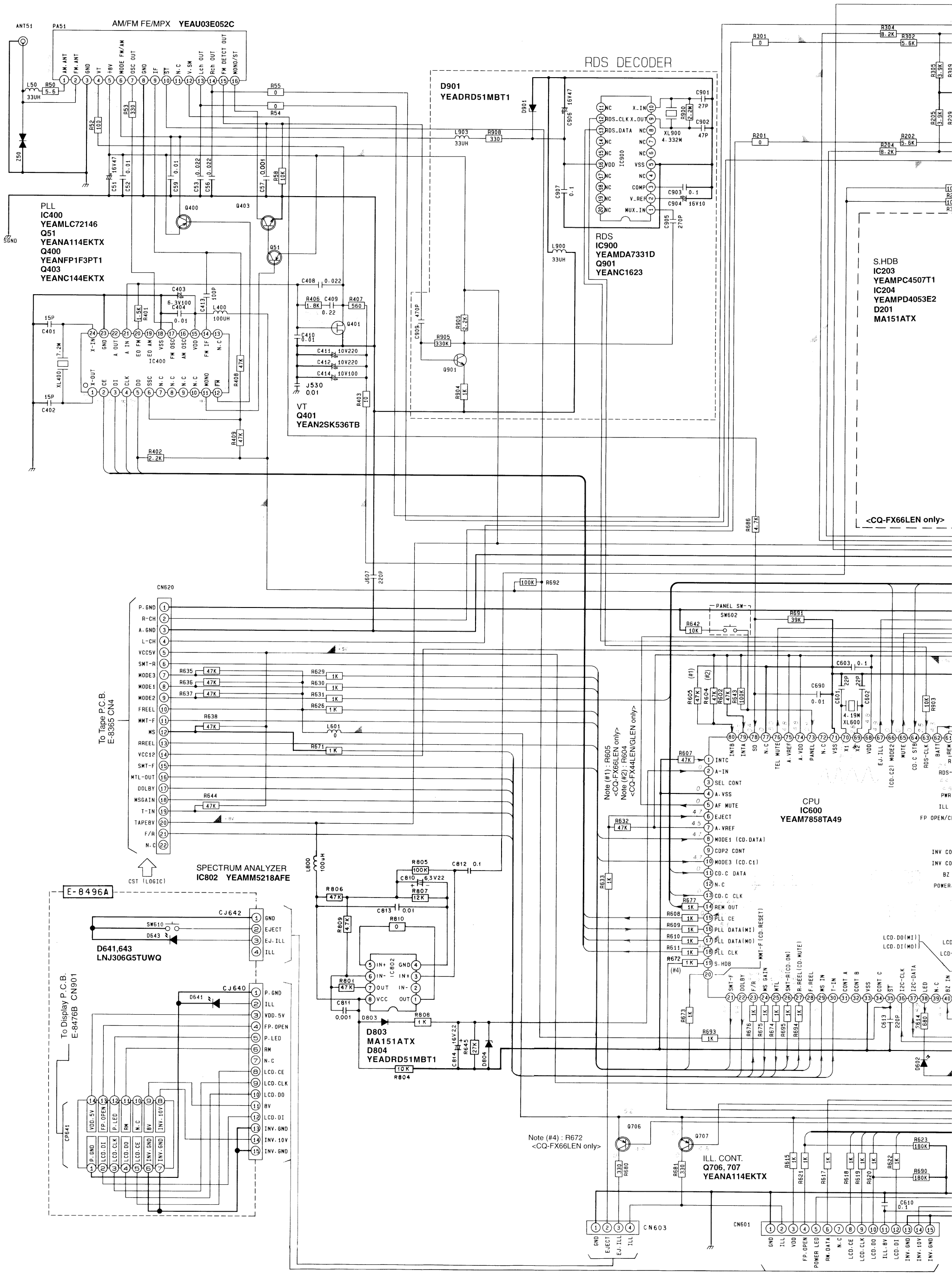
SCHEMATIC DIAGRAM (Main Block) MODELS CQ-FX66/FX44G/FX44LEN



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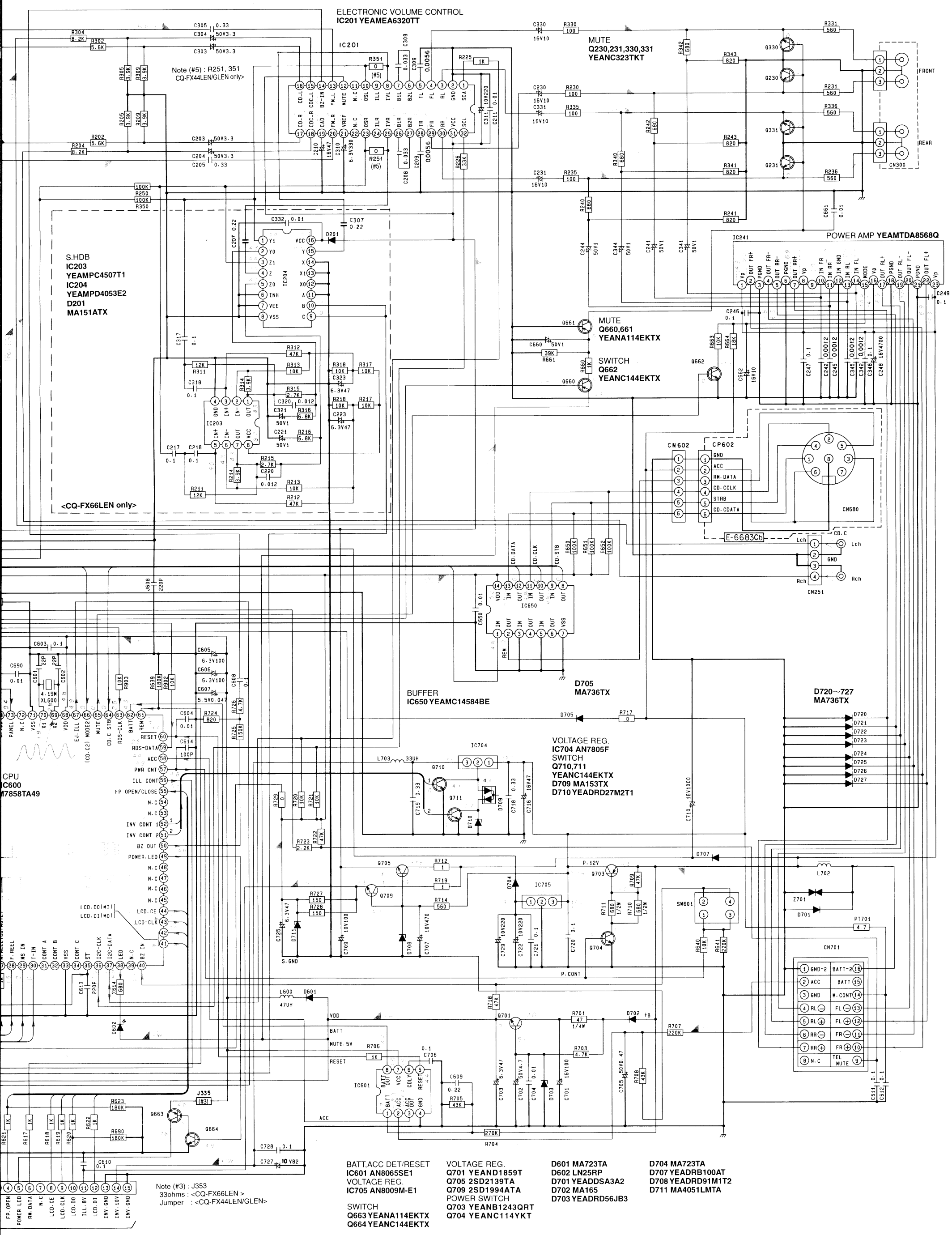

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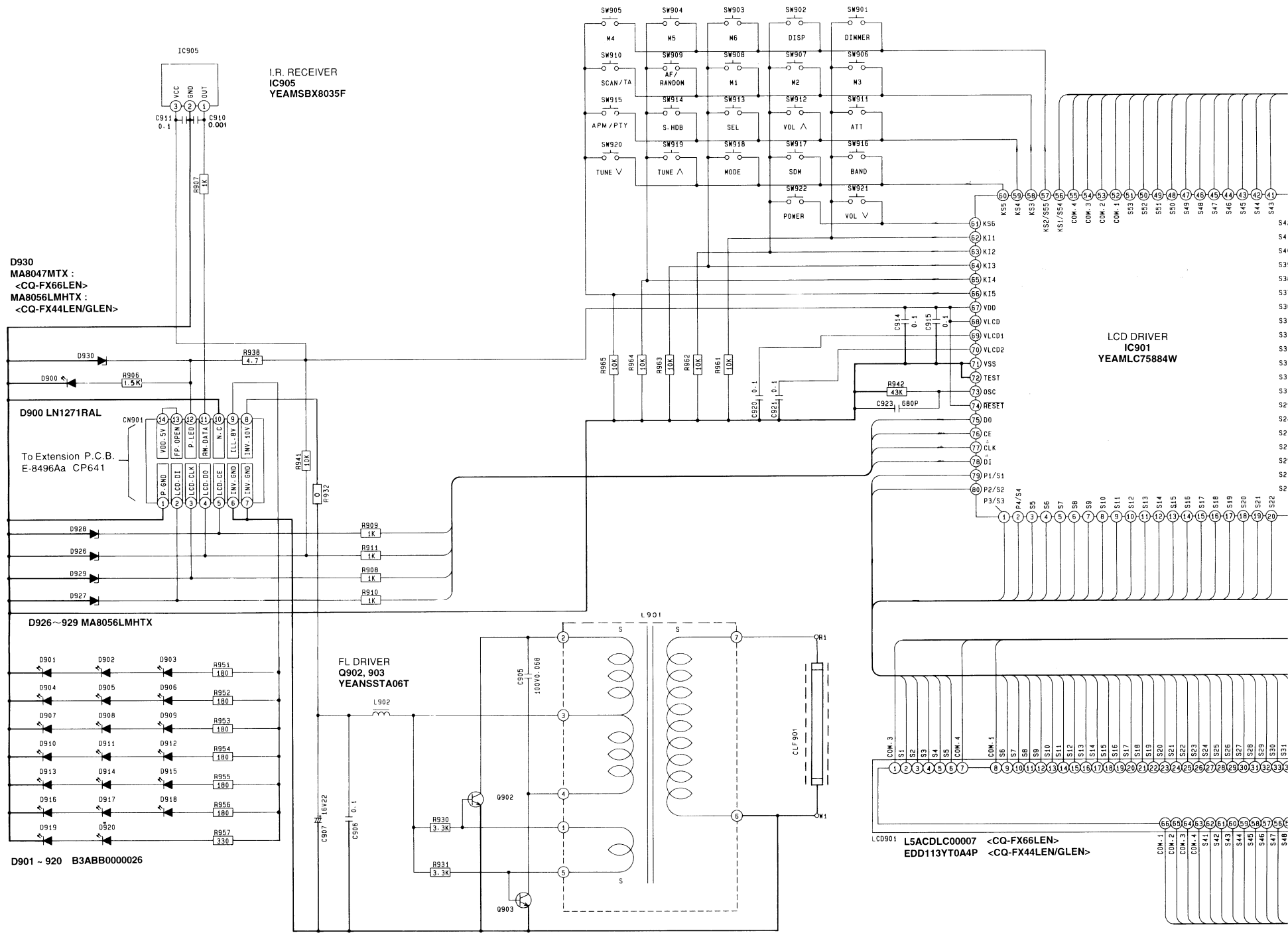
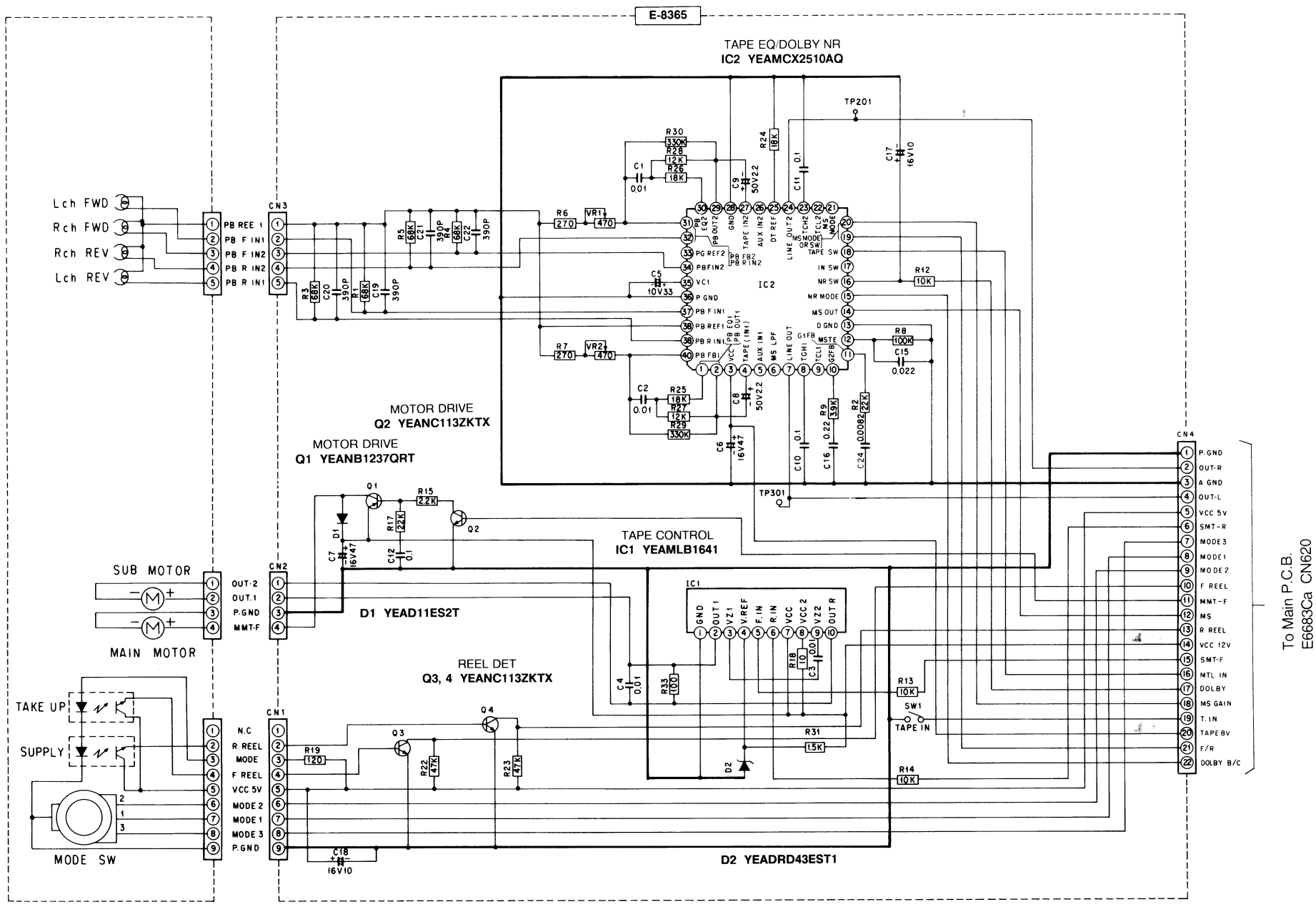
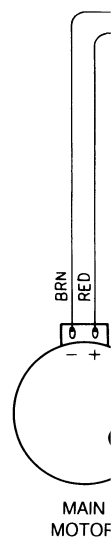
SCHEMATIC DIAGRAM (Display Block) MODELS CQ-FX66/FX44G/FX44LEN



SCHEMATIC DIAGRAM (Tape Block) MODELS CQ-FX66/FX44G/FX44LEN



WIR



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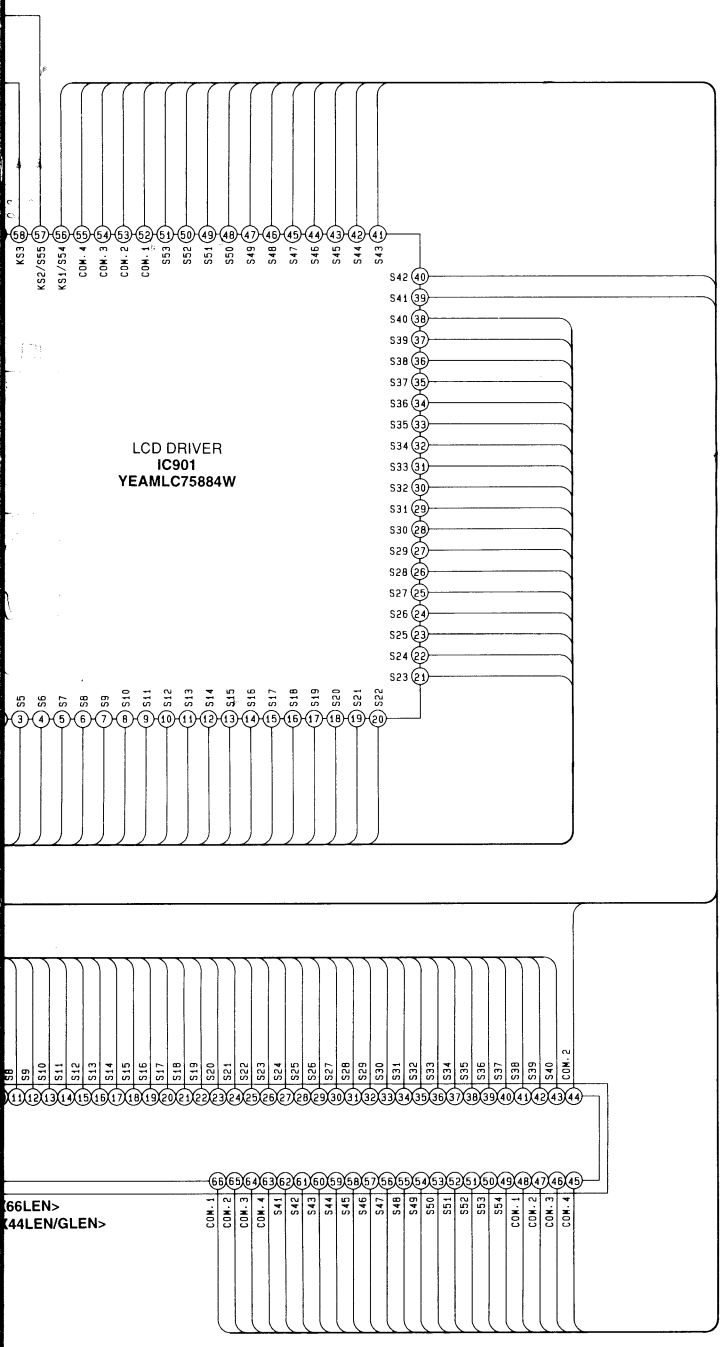
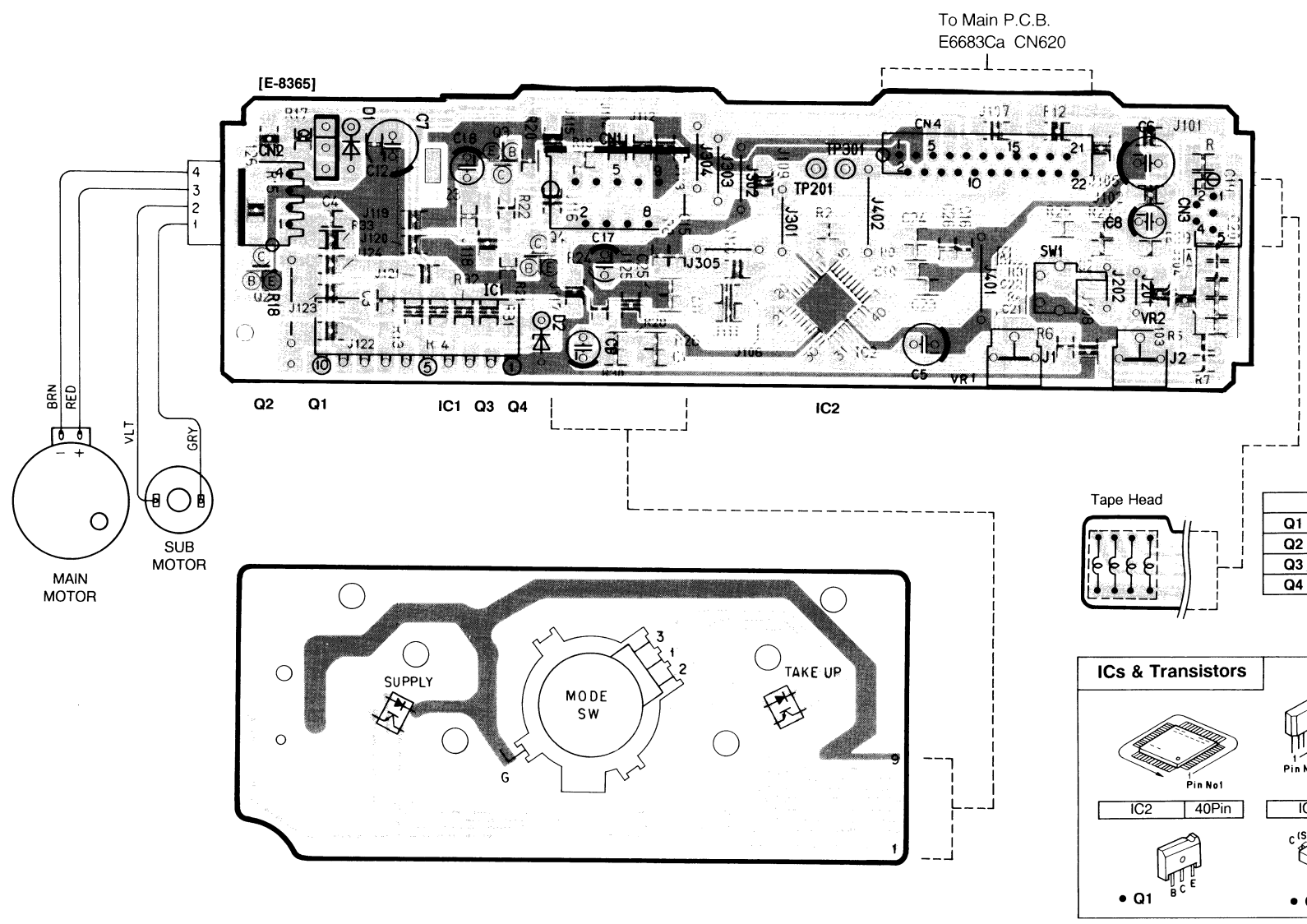


WIRING DIAGRAM (Tape Block) MODELS CQ-FX66/FX44G/FX44LEN

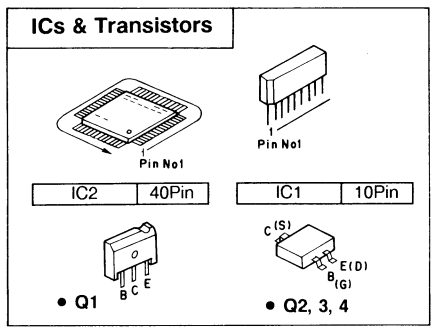


IC2			
1	4.25 V	21	—
2	4.5 V	22	0.7 V
3	8.9 V	23	0.6 V
4	4.6 V	24	4.5 V
5	—	25	1.4 V
6	—	26	—
7	4.5 V	27	4.4 V
8	0.6 V	28	0 V
9	0 V	29	4.6 V
10	4.7 V	30	4.5 V
11	4.6 V	31	4.6 V
12	0.8 V	32	4.6 V
13	0 V	33	—
14	5.1 V	34	4.5 V
15	0.8 V	35	4.5 V
16	0 V	36	0 V
17	—	37	4.5 V
18	0 V	38	4.5 V
19	5.1 V	39	4.6 V
20	5.1 V	40	4.6 V

	B	C	E
Q1	13.4	14.1	14.2
Q2	4.9	0	0
Q3	1.1	0	0
Q4	0.9	0	0

Pin	IC1
1	0
2	0.8
3	1.0
4	4.5
5	2.0
6	2.0
7	14.2
8	14.2
9	1.0
10	0.8

ICs & Transistors



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ALIGNMENT INSTRUCTIONS

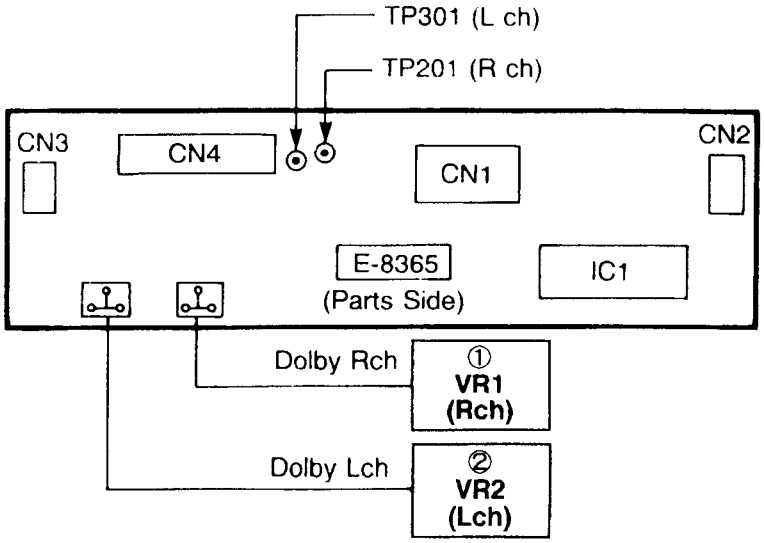
- Power Supply Voltage : DC14.4V
- Output Impedance : 4Ω
- Output Power : 0.5W
- Balance, Fader Control : Center
- Tone Control (Bass/Tre) : Center

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

1. DOLBY NR ALIGNMENT

Step	Alignment Item	Test Tape	VTVM Connection	Adjust	Remarks
①	DOLBY NR Rch	RFKZ0038	TP201-GND	VR1	● Adjust for 388mV
②	DOLBY NR Lch	RFKZ0038	TP301-GND	VR2	● Adjust for 388mV

ALIGNMENT POINTS



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TERMINALS DESCRIPTION

< Main Block >

■ IC600 : YEAM7858TA49

Pin No.	Port	Description	I/O	Vol.(V)
1	INIT C	Initial C	I	0
2	A-IN	Spectrum analyzer data	I	0
3	SEL CONT	Not used	—	—
4	AV_{SS}	Analog ground	—	0
5	AF MUTE	AF mute	O	0
6	EJECT	Eject SW input	I	4.7
7	AVREF	Reference voltage	—	4.8
8	MODE1	Tape mode SW	I	4.7
9	CDP2 CONT	Not used	—	—
10	MODE3	Tape mode SW	I	4.7
11	CD.C DATA	CD changer data	I	0
12	N.C.	No connection	—	—
13	CD.C CLK	CD changer clock	I	0
14	REM OUT	CD changer remote control	O	4.6
15	PLL CE	PLL controller chip enable	O	0
16	PLL DATA (MI)	Data from PLL	I	5.1
17	PLL DATA (MO)	Data for PLL	O	0
18	PLL CLK	Clock for PLL	O	4.8
19	S.HDB	Bass-sound control	O	4.8
20	MMT-F	Main motor control	O	0
21	SMT-F	Sub motor control	O	4.8
22	DOLBY	Dolby control	O	4.8
23	F/R	Tape FF/REW detection	I	4.8
24	MS GAIN	MS gain control	O	4.8
25	MTL	Motor tape select	O	0
26	SMT-R	Sub motor control	O	4.8
27	R.REEL	Tape REW detection	I	1.5
28	F.REEL	Tape FF detection	I	1.5
29	MS IN	TPS input	I	0
30	T-IN	Tape in detection	I	0
31	CONT A	Not used	—	—
32	CONT B	Not used	—	—
33	VSS	Ground	—	0
34	CONT C	Not used	—	—
35	ST	FM stereo detection	I	4.7
36	IC2-CLK	Electronic volume clock	O	4.6
37	IC2-DATA	Electronic volume data	I/O	5.2
38	LED	Warming alarm LED control	O	5.2
39	NC	No connection	—	—
40	BZIN	Power ON/OFF detection	I	4.9

Pin No.	Port	Description	I/O	Vol.(V)
41	LCD-DI	LCD data input	O	0
42	LCD-DO	LCD data output	I	4.5
43	LCD-CLK	LCD clock	O	0
44	LCD-CE	LCD chip enable output	O	0
45	NC	No connection	—	—
46	NC	No connection	—	—
47	NC	No connection	—	—
48	NC	No connection	—	—
49	POWER.LED	Power LED control	O	4.8
50	BZOUT	Not used	—	—
51	INV CONT2	Invertor control	O	0
52	INV CONT1	Invertor control	O	0
53	NC	No connection	—	—
54	NC	No connection	—	—
55	FP OPN/CLS	Front panel open/close	I	5.1
56	ILL CONT	Illumi. control	O	4.8
57	PWR CNT	Power control	O	4.8
58	ACC	ACC detection	I	4.4
59	RDS DATA	Not used	—	—
60	/RESET	Reset input	I	4.4
61	REM	Remocon data input	I	4.1
62	BATT	Battery detection	I	4.3
63	RDS CLK	Not used	—	—
64	CD.C.STB	CD changer strobe input	I	0
65	MUTE	Mute control	O	0
66	MODE2	Tape mode SW	I	0
67	EJ. ILL	Eject illumi. control	O	4.8
68	VDD	+5V power supply	—	4.8
69	X2	Crystal oscillator	—	2.8
70	X1	Crystal oscillator	—	1.9
71	VSS	Ground	—	0
72	NC	No connection	—	—
73	PANEL	Panel detection	I	0.4
74	AVDD	+5V power supply	—	4.8
75	AVREF	(Connecting to VDD)	—	4.8
76	TEL MUTE	Telephone mute	O	5.0
77	NC	No connection	—	0
78	SD	B/S detection	I	0.4
79	INIT A	Initial value A	I	4.8
80	INIT B	Initial value B **(Note 2)**	I	**(#1)**

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

Note 2 (#1) :
0V : CQ-FX66LEN
4.8V : CQ-FX44LEN/FX44GLEN

< Display Block >

■ IC901 : YEAMLC75884W

Pin No.	Port	Description	I/O	Vol.(V)
1~51	S3~53	LCD segment data	O	2.5
52~55	COM1~4	LCD common	O	2.5
56	S54	LCD segment data	O	2.5
57~61	KS2~6	Key strobe	O	0.9
62~66	KI1~5	Key data	I	0
67	VDD	+5V power supply	—	5.1
68	VLCD	+5V power supply	—	5.1
69	VLCD1	LCD angle	—	3.3
70	VLCD2	LCD angle	—	1.7

Pin No.	Port	Description	I/O	Vol.(V)
71	Vss	Ground	—	0
72	TEST	(Connecting to ground)	—	0
73	OSC	Oscillator terminal	—	3.9
74	/RESET	(Connecting to Vcc)	—	5.1
75	DO	Key data output	O	4.1
76	CE	LCD driver chip enable	I	0
77	CLK	LCD clock	I	0
78	DI	LCD data	I	0
79, 80	S1, 2	LCD segment data	O	2.5

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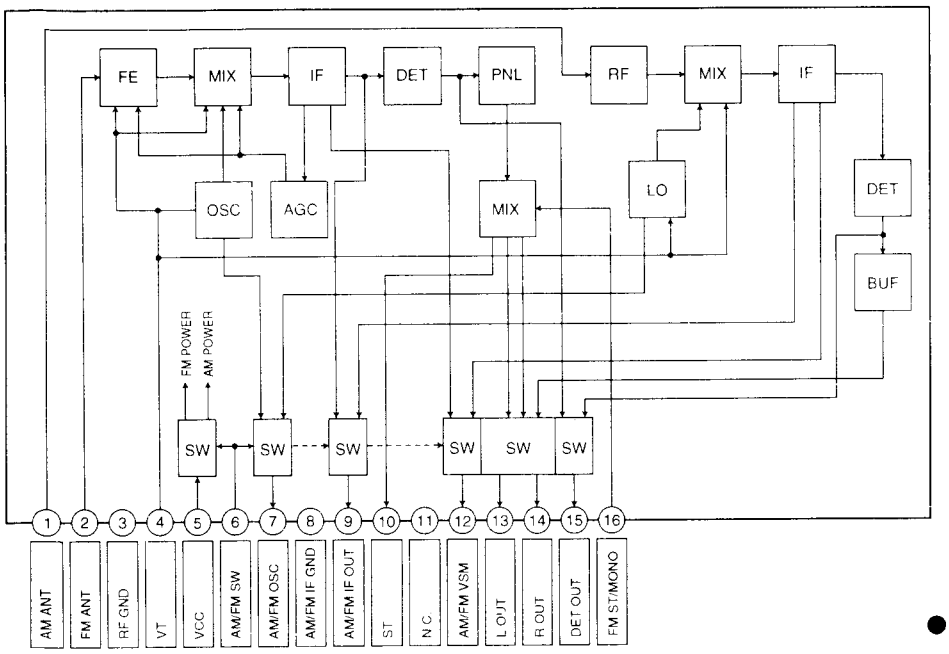
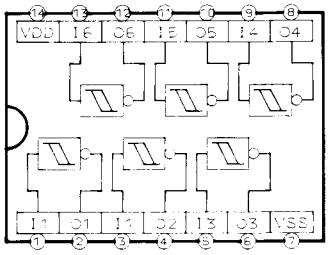
PACKAGE AND IC BLOCK DIAGRAM

<Main Block>

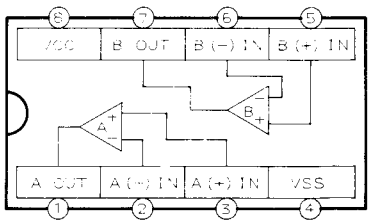
● PA51 YEAU03E052C



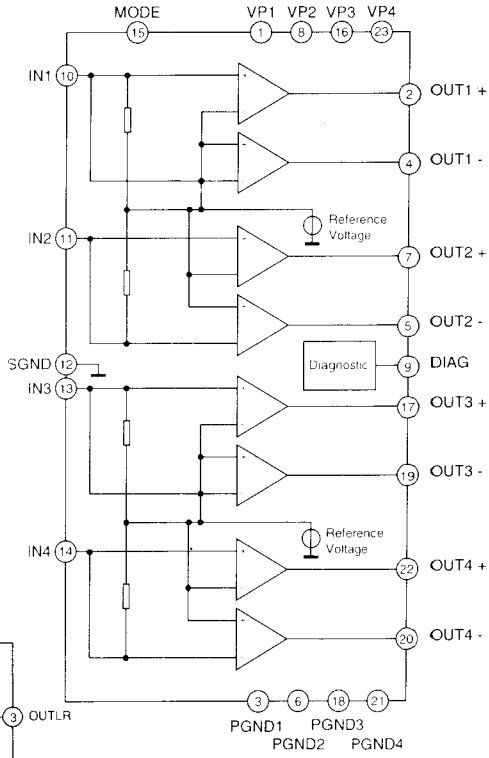
● IC650 YEAMC14584BE



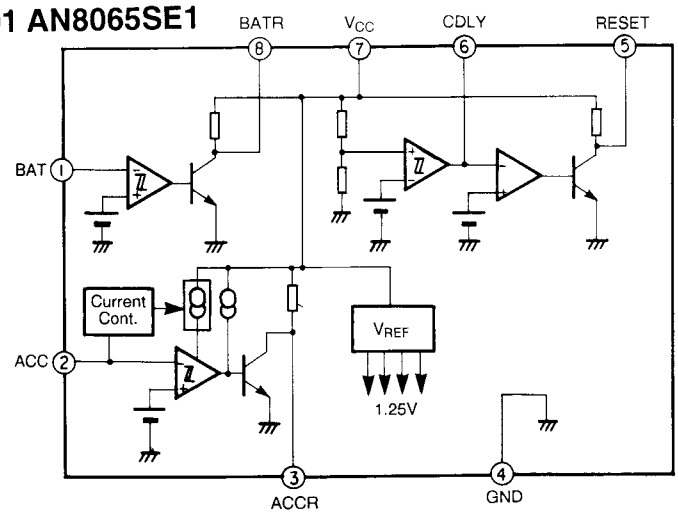
● IC203 YEAMPC4570T1



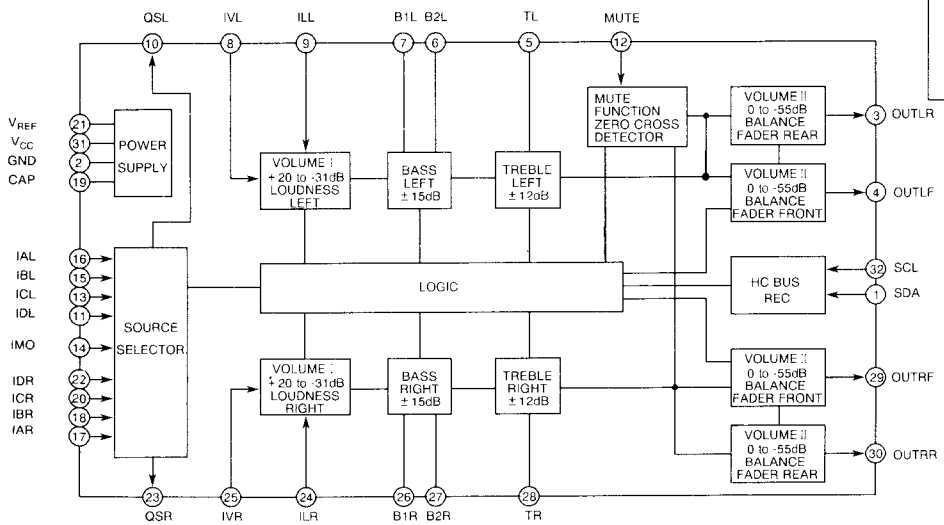
● IC241 YEAMTDA8568Q



● IC601 AN8065SE1



● IC201 YEAMEA6320TT



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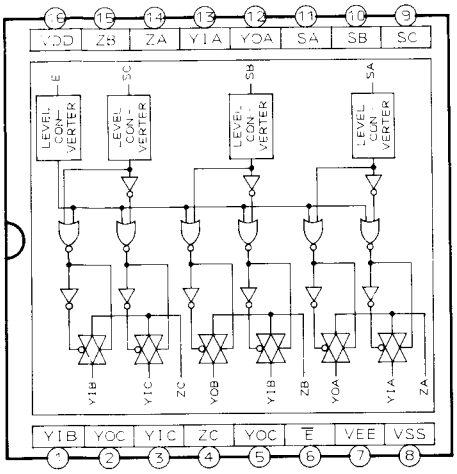
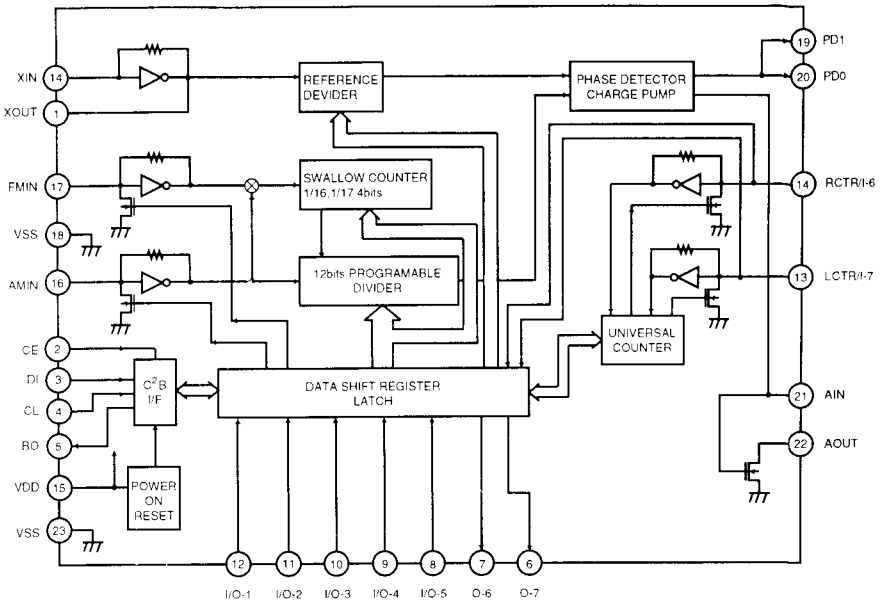
● IC204 YEAMPD4053E2



● IC400 YEAMLC72146



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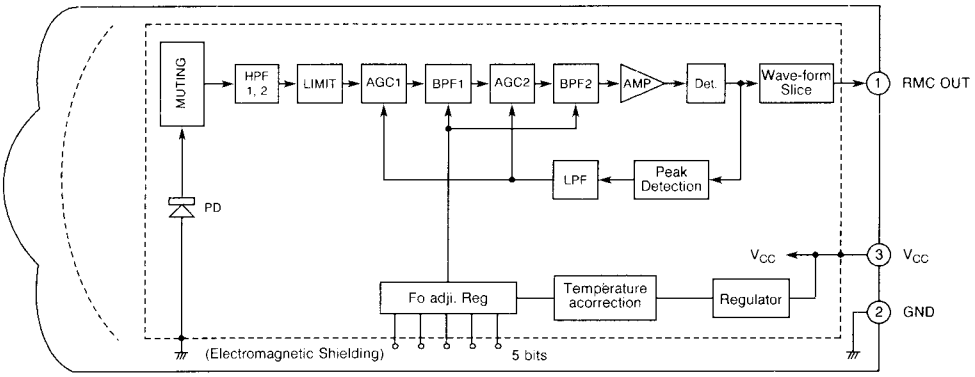
● IC905 YEAMSBX8035F



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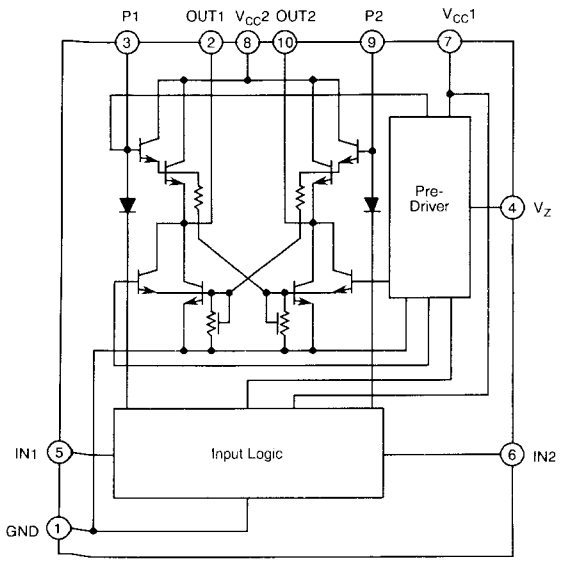
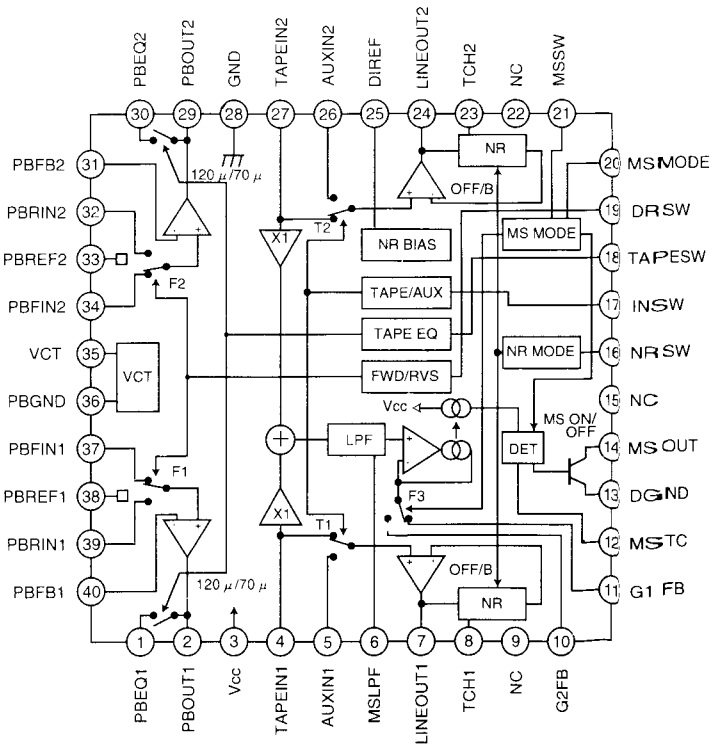
● IC1 YEAMLB1641



● IC2 YEAMCX2510AQ



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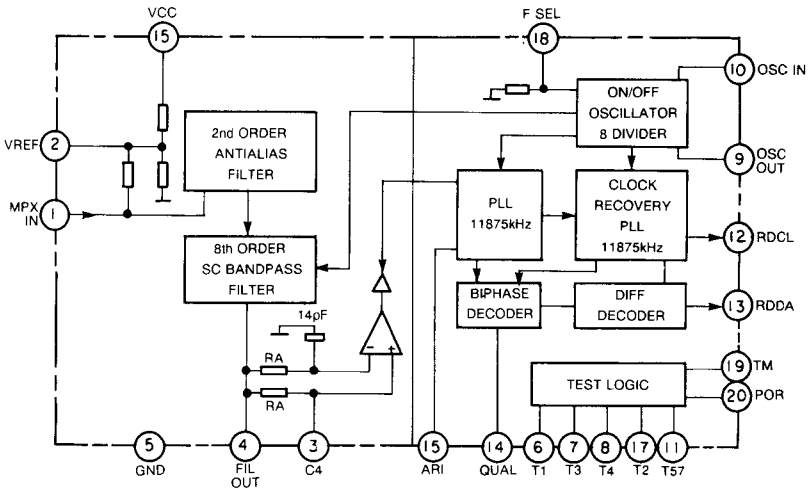
● **IC900 YEAMTDA7331D**

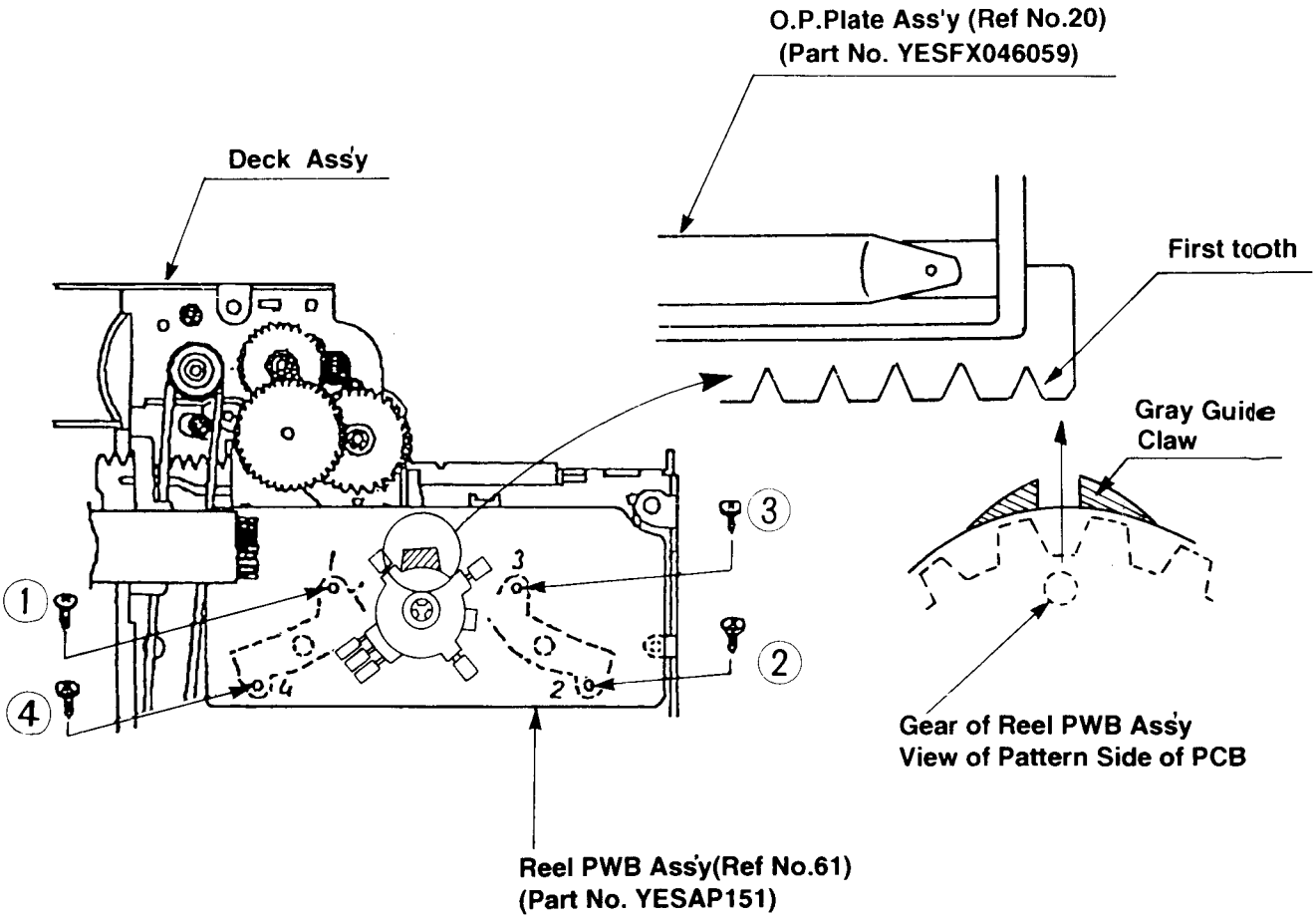


RE-ASSEMBLY PROCEDURE for REEL PWB ASS'Y

When you re-assembly the REEL PWB Ass'y please refer to the following procedure.

1. Set the gear of Reel PWB Ass'y (Ref. No.61) into the first tooth of O.P. Plate Ass'y (Ref. No.20) as shown below.

2. Tighten the (1-4) screws of reel PWB Ass'y as shown in the figure.



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1 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.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

1.1. IC's and Transistors

MAIN BLOCK [E6683C]

Ref. No.	Part No.	Part Name & Description	Remarks
IC201	YEAMEA6320TT	IC	
IC203	YEAMPC4570T1	IC (CQ-FX66LEN)	
IC204	YEAMPD4053E2	IC (CQ-FX66LEN)	
IC241	YEAMTDA8568Q	IC	
IC400	YEAMLC72146	IC	
IC600	YEAM7858TA49	IC	
IC601	AN8065SE1	IC	
IC650	YEAMC14584BE	IC	
IC704	AN7805F	IC	
IC705	AN8009M-E1	IC	
IC802	YEAMM5218AFE	IC	
IC900	YEAMDA7331D	IC	
PA51	YEAU03E052C	Tuner	
Q51	YEANA114EKTX	Transistor	
Q230	YEANC323TKT	Transistor	
Q231	YEANC323TKT	Transistor	
Q330	YEANC323TKT	Transistor	
Q331	YEANC323TKT	Transistor	
Q400	YEANFP1F3PT1	Transistor	
Q401	YEAN2SK536TB	Transistor	
Q403	YEANC144EKT	Transistor	
Q660	YEANA114EKTX	Transistor	
Q661	YEANA114EKTX	Transistor	
Q662	YEANC144EKT	Transistor	
Q663	YEANA114EKTX	Transistor	
Q664	YEANC144EKT	Transistor	
Q701	YEAND1859T	Transistor	
Q703	YEANB1243QRT	Transistor	
Q704	YEANC114YKT	Transistor	
Q705	2SD2139TA	Transistor	
Q706	YEANA114EKTX	Transistor	
Q707	YEANA114EKTX	Transistor	
Q709	2SD1994ATA	Transistor	
Q710	YEANC144EKT	Transistor	
Q711	YEANC144EKT	Transistor	
Q901	YEANC1623	Transistor	

DISPLAY BLOCK [E8598A]

Ref. No.	Part No.	Part Name & Description	Remarks
IC901	YEAMLC75884W	IC	
IC905	YEAMSBX8035F	IC	
Q902	YEANSSTA06T	Transistor	
Q903	YEANSSTA06T	Transistor	

YAPE BLOCK [E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
IC1	YEAMLB1641	IC	
IC2	YEAMCX2510AQ	IC	
Q1	YEANB1237QRT	Transistor	
Q2	YEANC113ZKTX	Transistor	
Q3	YEANC113ZKTX	Transistor	
Q4	YEANC113ZKTX	Transistor	

1.2. Diodes

MAIN BLOCK [E6683C]

Ref. No.	Part No.	Part Name & Description	Remarks
D201	MA151ATX	Diode (CQ-FX66LEN)	
D601	MA723TA	Diode	
D602	LN25RP	Diode	
D701	YEADDSA3A2	Diode	
D702	MA165	Diode	
D703	YEADRD56JB3	Diode	
D704	MA723TA	Diode	
D705	MA736TX	Diode	
D707	YEADRB100AT	Diode	
D708	YEADRD91M1T2	Diode	
D709	MA153TX	Diode	
D710	YEADRD27M2T1	Diode	
D711	MA4051LMTA	Diode	
D720	MA736TX	Diode	
D721	MA736TX	Diode	
D722	MA736TX	Diode	
D723	MA736TX	Diode	
D724	MA736TX	Diode	
D725	MA736TX	Diode	
D726	MA736TX	Diode	
D727	MA736TX	Diode	
D803	MA151ATX	Diode	
D804	YEADRD51MBT1	Diode	
D901	YEADRD51MBT1	Diode	
Z701	ERZC07DK470	ZNR	

DISPLAY BLOCK [E8598A]

Ref. No.	Part No.	Part Name & Description	Remarks
D900	LN1271RAL	Diode	
D901	B3ABB0000026	Diode	
D902	B3ABB0000026	Diode	
D903	B3ABB0000026	Diode	
D904	B3ABB0000026	Diode	
D905	B3ABB0000026	Diode	
D906	B3ABB0000026	Diode	
D907	B3ABB0000026	Diode	
D908	B3ABB0000026	Diode	
D909	B3ABB0000026	Diode	
D910	B3ABB0000026	Diode	
D911	B3ABB0000026	Diode	
D912	B3ABB0000026	Diode	
D913	B3ABB0000026	Diode	
D914	B3ABB0000026	Diode	
D915	B3ABB0000026	Diode	
D916	B3ABB0000026	Diode	
D917	B3ABB0000026	Diode	
D918	B3ABB0000026	Diode	
D919	B3ABB0000026	Diode	
D920	B3ABB0000026	Diode	
D926	MA8056LMHTX	Diode	
D927	MA8056LMHTX	Diode	
D928	MA8056LMHTX	Diode	
D929	MA8056LMHTX	Diode	
D930		Diode	
	MA8047MTX	(CQ-FX66LEN)	
	MA8056LMHTX	(CQ-FX44LEN/GLEN)	

TAPE BLOCK [E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
D1	YEAD11ES2	Diode	

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Ref. No.	Part No.	Part Name & Description	Remarks
D2	YEADRD43EST1	Diode	

SUB BLOCK [E8496A]

Ref. No.	Part No.	Part Name & Description	Remarks
D641	LNJ306G5TUWQ	Diode	
D643	LNJ306G5TUWQ	Diode	

1.3. Capacitors

MAIN BLOCK [E6683C]

Ref. No.	Part No.	Part Name & Description	Remarks
C51	ECA1CM470I	Electrolytic, 47µF 16WV	
C52	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C53	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C56	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C57	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C59	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C203	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C204	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C205	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C207	YECUS1C224KX	(CQ-FX66LEN) 0.22µF 16WV	
C208	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C209	YECUS1H562KX	Ceramic, 0.0056µF 50WV	
C210	ECA1CSA470I	Electrolytic, 47µF 16WV	
C211	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C217	YECUS1C104KX	(CQ-FX66LEN) 0.1µF 16WV	
C218	YECUS1C104KX	(CQ-FX66LEN) 0.1µF 16WV	
C220	YECUS1H123KX	(CQ-FX66LEN) 0.012µF 50WV	
C221	ECA1HSA010I	(CQ-FX66LEN) 1µF 50WV	
C223	ECA0JSA470I	(CQ-FX66LEN) 47µF 6.3WV	
C230	ECA1CSA100I	Electrolytic, 10µF 16WV	
C231	ECA1CSA100I	Electrolytic, 10µF 16WV	
C241	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C242	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C244	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C245	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C246	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C247	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C248	ECA1CDT472Y	Electrolytic, 4700µF 16WV	
C249	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C303	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C304	ECA1HSA3R3I	Electrolytic, 3.3µF 50WV	
C305	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C307	YECUS1C224KX	(CQ-FX66LEN) 0.22µF 16WV	
C308	YECUS1E333KX	Ceramic, 0.033µF 25WV	
C309	YECUV2A562KX	Ceramic, 0.0056µF 100WV	
C310	ECEA0JKS331I	Electrolytic, 330µF 6.3WV	
C311	ECEA1AKS221	Electrolytic, 220µF 10WV	
C317	YECUS1C104KX	(CQ-FX66LEN) 0.1µF 16WV	
C318	YECUS1C104KX	(CQ-FX66LEN) 0.1µF 16WV	
C320	YECUS1H123KX	(CQ-FX66LEN) 0.012µF 50WV	
C321	ECA1HSA010I	(CQ-FX66LEN) 1µF 50WV	
C323	ECA0JSA470I	(CQ-FX66LEN) 47µF 6.3WV	
C330	ECA1CSA100I	Electrolytic, 10µF 16WV	
C331	ECA1CSA100I	Electrolytic, 10µF 16WV	
C332	YECUS1H103KX	(CQ-FX66LEN) 0.01µF 50WV	
C341	ECA1HSA010I	Electrolytic, 1µF 50WV	
C342	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C344	ECEA1HKA010I	Electrolytic, 1µF 50WV	
C345	YECUS1H122KX	Ceramic, 0.0012µF 50WV	
C348	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C401	YECUS1H150JM	Ceramic, 15PF 50WV	
C402	YECUS1H150JM	Ceramic, 15PF 50WV	
C403	ECA0JM101I	Electrolytic, 100µF 6.3WV	
C404	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C408	YECUS1E223KX	Ceramic, 0.022µF 25WV	
C409	ECQV1H224JL2	Plastic Film, 0.22µF 50WV	
C410	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C411	ECEA1AKS221	Electrolytic, 220µF 10WV	
C412	ECEA1AKS221	Electrolytic, 220µF 10WV	
C413	YECUS1H101JM	Ceramic, 100PF 50WV	
C414	ECEA1AKS101	Electrolytic, 100µF 10WV	
C601	YECUS1H220JM	Ceramic, 22PF 50WV	
C602	YECUS1H220JM	Ceramic, 22PF 50WV	
C603	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C604	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C605	ECA0JSA101I	Electrolytic, 100µF 6.3WV	
C606	ECA0JSA101I	Electrolytic, 100µF 6.3WV	
C607	EECS5R5H473	Electrolytic, 0.047F 5.5WV	
C608	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C609	YECUS1C224KX	Ceramic, 0.22µF 16WV	
C610	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C611	YECUV1H104ZF	Ceramic, 0.1µF 50WV	
C612	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C613	YECUS1H221JM	Ceramic, 220PF 50WV	
C614	YECUS1H101JM	Ceramic, 100PF 50WV	
C650	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C660	ECA1HSA010I	Electrolytic, 1µF 50WV	
C661	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C662	ECA1CSA100I	Electrolytic, 10µF 16WV	
C690	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C701	ECEA1CKS101	Electrolytic, 100µF 16WV	
C702	ECA1HSA4R7I	Electrolytic, 4.7µF 50WV	
C703	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C704	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C705	ECA1HMR47I	Electrolytic, 0.47µF 50WV	
C706	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C707	ECA1AM471B	Electrolytic, 470µF 10WV	
C709	ECEA1AKS101	Electrolytic, 100µF 10WV	
C710	ECA1CM102B	Electrolytic, 1000µF 16WV	
C716	ECA1CM470I	Electrolytic, 47µF 16WV	
C718	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C719	YECUX1C334KX	Ceramic, 0.33µF 16WV	
C720	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C721	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C722	ECEA1AKS221	Electrolytic, 220µF 10WV	
C725	ECA0JSA470I	Electrolytic, 47µF 6.3WV	
C727	EEUFC1A820H	Electrolytic, 82µF 10WV	
C728	YECUS1E104ZF	Ceramic, 0.1µF 25WV	
C729	ECEA1AKS221	Electrolytic, 220µF 10WV	
C810	ECA0JSA220I	Electrolytic, 22µF 6.3WV	
C811	YECUS1H102JM	Ceramic, 0.001µF 50WV	
C812	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C813	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C814	ECSH1CY225CR	Tantalum, 2.2µF 16WV	
C901	YECUS1H270JM	Ceramic, 27PF 50WV	
C902	YECUS1H470JM	Ceramic, 47PF 50WV	
C903	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C904	ECA1CSA100I	Electrolytic, 10µF 16WV	
C905	YECUV1H271JM	Ceramic, 270PF 50WV	
C906	ECA1CSA470I	Electrolytic, 47µF 16WV	
C907	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C909	YECUS1H471JM	Ceramic, 470PF 50WV	
J530	YECUV2A103KX	Ceramic, 0.01µF 100WV	
J607	YECUS1H221JM	Ceramic, 220PF 50WV	
J608	YECUS1H221JM	Ceramic, 220PF 50WV	

DISPLAY BLOCK [E8598A]

Ref. No.	Part No.	Part Name & Description	Remarks
C905	YECUM2A683JN	Plastic Film, 0.068µF 100WV	
C906	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C907	ECEV1CA220SR	Electrolytic, 22µF 16WV	
C910	YECUS1H102KX	Ceramic, 0.001µF 50WV	
C911	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C914	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C915	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C920	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C921	YECUS1C104KX	Ceramic, 0.1µF 16WV	
C923	YECUS1H681JM	Ceramic, 680PF 50WV	

TAPE BLOCK [E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
C1	YECUS1H103KX	Ceramic, 0.01µF 50WV	
C2	YECUS1H103KX	Ceramic, 0.01µF 50WV	

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Ref. No.	Part No.	Part Name & Description	Remarks
C3	YECUS1H103KX	Ceramic, 0.01μF 50WV	
C4	YECUS1H103KX	Ceramic, 0.01μF 50WV	
C5	ECEA1AKS330I	Electrolytic, 33μF 10WV	
C6	ECEA1CKS470I	Electrolytic, 47μF 16WV	
C7	ECEA1CKS470I	Electrolytic, 47μF 16WV	
C8	ECEA1HKS2R2I	Electrolytic, 2.2μF 50WV	
C9	ECEA1HKS2R2I	Electrolytic, 2.2μF 50WV	
C10	YECUS1C104KX	Ceramic, 0.1μF 16WV	
C11	YECUS1C104KX	Ceramic, 0.1μF 16WV	
C12	YECUS1C104KX	Ceramic, 0.1μF 16WV	
C15	YECUS1E223KX	Ceramic, 0.022μF 25WV	
C16	YECUS1C224KX	Ceramic, 0.22μF 16WV	
C17	ECEA1CKS100I	Electrolytic, 10μF 16WV	
C18	ECEA1CKS100I	Electrolytic, 10μF 16WV	
C19	YECUS1H391JM	Ceramic, 390PF 50WV	
C20	YECUS1H391JM	Ceramic, 390PF 50WV	
C21	YECUS1H391JM	Ceramic, 390PF 50WV	
C22	YECUS1H391JM	Ceramic, 390PF 50WV	
C24	YECUS1H822KX	Ceramic, 0.0082μF 50WV	

1.4. Resistors

MAIN BLOCK [E6683C]

Ref. No.	Part No.	Part Name & Description	Remarks
J192	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J194	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J335	ERD25TJ330	(CQ-FX66LEN) Carbon, 33Ω 1/4W	
J501	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J502	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J503	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J504	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J507	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J508	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J509	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J510	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J511	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J512	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J513	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J514	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J515	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J518	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J519	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J520	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J521	ERJ8GX0R00V	Chip, 0Ω 1/8W	
J522	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J523	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J601	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J602	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J603	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J604	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J605	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J606	ERJ6GEY0R00	Chip, 0Ω 1/10W	
J609	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R50	ERJ6GEYJ5R6	Chip, 5.6Ω 1/10W	
R52	ERJ8GEYJ101V	Chip, 100Ω 1/8W	
R53	ERJ6GEYJ331	Chip, 330Ω 1/10W	
R54	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R55	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R58	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R201	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R202	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R204	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R205	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R209	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R211	ERJ6GEYJ123	(CQ-FX66LEN) 12kΩ 1/10W	
R212	ERJ6GEYJ473	(CQ-FX66LEN) 47kΩ 1/10W	
R213	ERJ8GEYJ103V	(CQ-FX66LEN) 10kΩ 1/8W	
R214	ERJ6GEYJ392	(CQ-FX66LEN) 3.9kΩ 1/10W	
R215	ERJ6GEYJ272	(CQ-FX66LEN) 2.7kΩ 1/10W	
R216	ERJ6GEYJ682	(CQ-FX66LEN) 6.8kΩ 1/10W	
R217	ERJ6GEYJ103	(CQ-FX66LEN) 10kΩ 1/10W	
R218	ERJ6GEYJ103	(CQ-FX66LEN) 10kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R225	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R226	ERJ8GEYJ333V	Chip, 33kΩ 1/8W	
R230	ERD25TJ101	Carbon, 100Ω 1/4W	
R231	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R235	ERD25TJ101	Carbon, 100Ω 1/4W	
R236	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R240	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R241	ERJ6GEYJ821	Chip, 820Ω 1/10W	
R242	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R243	ERJ6GEYJ821	Chip, 820Ω 1/10W	
R250	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R251	ERJ6GEY0R00	(CQ-FX44LEN/GLEN) 0Ω 1/10W	
R301	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R302	ERJ6GEYJ562	Chip, 5.6kΩ 1/10W	
R304	ERJ6GEYJ822	Chip, 8.2kΩ 1/10W	
R305	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R309	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R311	ERJ6GEYJ123	(CQ-FX66LEN) 12kΩ 1/10W	
R312	ERJ8GEYJ473V	(CQ-FX66LEN) 47kΩ 1/8W	
R313	ERJ6GEYJ103	(CQ-FX66LEN) 10kΩ 1/10W	
R314	ERJ6GEYJ392	(CQ-FX66LEN) 3.9kΩ 1/10W	
R315	ERJ6GEYJ272	(CQ-FX66LEN) 2.7kΩ 1/10W	
R316	ERJ8GEYJ682V	(CQ-FX66LEN) 6.8kΩ 1/8W	
R317	ERJ6GEYJ103	(CQ-FX66LEN) 10kΩ 1/10W	
R318	ERJ6GEYJ103	(CQ-FX66LEN) 10kΩ 1/10W	
R330	ERD25TJ101	Carbon, 100Ω 1/4W	
R331	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R335	ERD25TJ101	Carbon, 100Ω 1/4W	
R336	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R340	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R341	ERJ8GEYJ821V	Chip, 820Ω 1/8W	
R342	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R343	ERJ8GEYJ821V	Chip, 820Ω 1/8W	
R350	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R351	ERJ6GEY0R00	(CQ-FX44LEN/GLEN) 0Ω 1/10W	
R401	ERJ6GEYJ152	Chip, 1.5kΩ 1/10W	
R402	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R403	ERJ6GEYJ100	Chip, 10Ω 1/10W	
R406	ERJ6GEYJ182	Chip, 1.8kΩ 1/10W	
R407	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R408	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R409	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R602	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R604	ERJ6GEYJ473	(CQ-FX44LEN/GLEN) 47kΩ 1/10W	
R605	ERJ6GEYJ473	(CQ-FX66LEN) 47kΩ 1/10W	
R607	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R608	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R609	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R610	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R611	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R614	ERJ6GEYJ681	Chip, 680Ω 1/10W	
R615	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R617	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R618	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R619	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R620	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R621	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R622	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R623	ERJ8GEYJ184V	Chip, 180kΩ 1/8W	
R626	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R629	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R630	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R631	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R632	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R633	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R635	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R636	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R637	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R638	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R639	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R640	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R641	ERJ6GEYJ224	Chip, 220kΩ 1/10W	
R642	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	

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Ref. No.	Part No.	Part Name & Description	Remarks
R643	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R644	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R645	ERJ6GEYJ273	Chip, 27kΩ 1/10W	
R650	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R651	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R652	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R660	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R661	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R663	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R664	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R671	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R672	ERJ6GEYJ102	(CQ-FX66LEN) 1kΩ 1/10W	
R673	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R674	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R675	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R676	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R677	ERDS2TJ102	Carbon, 1kΩ 1/4W	
R680	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R681	ERJ8GEYJ331V	Chip, 330Ω 1/8W	
R686	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R690	ERJ6GEYJ184	Chip, 180kΩ 1/10W	
R691	ERJ6GEYJ393	Chip, 39kΩ 1/10W	
R692	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R693	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R694	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R695	ERJ8GEYJ102V	Chip, 1kΩ 1/8W	
R701	ERDS2FJ470	Carbon, 47Ω 1/4W	
R703	ERJ6GEYJ472	Chip, 4.7kΩ 1/10W	
R704	ERJ6GEYJ274	Chip, 270kΩ 1/10W	
R705	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R706	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R707	ERD25TJ224	Carbon, 220kΩ 1/4W	
R708	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R709	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R710	ERDS1FJ681	Carbon, 680Ω 1/2W	
R711	ERDS1FJ681	Carbon, 680Ω 1/2W	
R712	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R714	ERJ6GEYJ561	Chip, 560Ω 1/10W	
R717	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R718	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R719	ERJ8GEYJ1R0V	Chip, 1.0Ω 1/8W	
R720	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R721	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R722	ERJ8GEYJ473V	Chip, 47kΩ 1/8W	
R723	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R724	ERJ6GEYJ821	Chip, 820Ω 1/10W	
R725	ERJ6GEYJ154	Chip, 150kΩ 1/10W	
R726	ERJ8GEYJ472V	Chip, 4.7kΩ 1/8W	
R727	ERJ6GEYJ151	Chip, 150Ω 1/10W	
R728	ERJ6GEYJ151	Chip, 150Ω 1/10W	
R729	ERJ6GEY0R00	Chip, 0Ω 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	
R810	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R900	ERJ6GEYJ225V	Chip, 2.2MΩ 1/10W	
R902	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R903	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R904	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R905	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R906	ERJ6GEYJ222	Chip, 2.2kΩ 1/10W	
R908	ERJ8GEYJ331V	Chip, 330Ω 1/8W	

DISPLAY BLOCK [E8598A]

Ref. No.	Part No.	Part Name & Description	Remarks
R906	ERJ6GEYJ152	Chip, 1.5kΩ 1/10W	
R907	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R908	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R909	ERJ6GEYJ102	Chip, 1kΩ 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R910	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R911	ERJ6GEYJ102	Chip, 1kΩ 1/10W	
R930	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R931	ERJ6GEYJ332	Chip, 3.3kΩ 1/10W	
R932	ERJ6GEY0R00	Chip, 0Ω 1/10W	
R938	ERJ6GEYJ4R7	Chip, 4.7Ω 1/10W	
R941	ERJ6GEYJ103	Chip, 10kΩ 1/10W	
R942	ERJ6GEYJ433	Chip, 43kΩ 1/10W	
R951	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R952	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R953	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R954	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R955	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R956	ERJ6GEYJ181	Chip, 180Ω 1/10W	
R957	ERJ6GEYJ331	Chip, 330Ω 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	

TAPE BLOCK [E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
J101	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J102	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J103	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J104	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J105	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J106	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J107	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J108	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J109	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J110	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J111	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J112	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J113	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J114	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J115	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J116	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J117	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J118	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J119	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J120	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J121	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J122	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J123	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J124	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J125	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
J126	ERJ8GEY0R00V	Chip, 0Ω 1/8W	
R1	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R2	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R3	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R4	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R5	ERJ6GEYJ683	Chip, 68kΩ 1/10W	
R6	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R7	ERJ6GEYJ271	Chip, 270Ω 1/10W	
R8	ERJ6GEYJ104	Chip, 100kΩ 1/10W	
R9	ERJ6GEYJ392	Chip, 3.9kΩ 1/10W	
R12	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R13	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R14	ERJ8GEYJ103V	Chip, 10kΩ 1/8W	
R15	ERJ8GEYJ222V	Chip, 2.2kΩ 1/8W	
R17	ERJ6GEYJ223	Chip, 22kΩ 1/10W	
R18	ERG1SJ100	Metal Oxid, 10Ω 1W	
R19	ERJ6GEYJ121	Chip, 120Ω 1/10W	
R22	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R23	ERJ6GEYJ473	Chip, 47kΩ 1/10W	
R24	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R25	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R26	ERJ6GEYJ183	Chip, 18kΩ 1/10W	
R27	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R28	ERJ6GEYJ123	Chip, 12kΩ 1/10W	
R29	ERJ6GEYJ334	Chip, 330kΩ 1/10W	

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Ref. No.	Part No.	Part Name & Description	Remarks
R30	ERJ6GEYJ334	Chip, 330kΩ 1/10W	
R31	ERJ8GEYJ152V	Chip, 1.5kΩ 1/8W	
R33	ERJ8GEYJ101V	Chip, 100Ω 1/8W	

1.5. Connectors

MAIN BLOCK [E6683C]

Ref. No.	Part No.	Part Name & Description	Remarks
CJ620	YEAES22B100B	Connector, 22P Flexible	
CN251	YEAE012709	Connector, RCA 1P	
CN300	YEAE02166	Connector, RCA 2P	
CN601	YEAE0115MX	Connector, 15P	
CN602	YEAETSBP0607	Connector, 6P	
CN603	YEAE0104MX	Connector, 4P	
CN620	YEAE012659	Connector, 22P	
CN680	YEAE012307	Connector, 8P DIN	
CN701	YEAE012748	Connector, 16P	

DISPLAY BLOCK [E8598A]

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

TAPE BLOCK [E8365]

Ref. No.	Part No.	Part Name & Description	Remarks
CN1	YEAE5597A09	Connector, 9P	
CN2	YEAE5325404	Connector, 4P	
CN3	YEAE012684	Connector, 5P	
CN4	YEAE012659	Connector, 22P	

SUB BLOCK [E8496A]

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

1.6. Electric Parts

SWITCHES

Ref. No.	Part No.	Part Name & Description	Remarks
SW1	YEAS08031B62	Switch	
SW601	YEAS07174	Switch	
SW602	YEAS08042	Switch	
SW610	YEAS09267	Switch	
SW901	YEAS09312	Switch	
SW902	YEAS09312	Switch	
SW903	YEAS09312	Switch	
SW904	YEAS09312	Switch	
SW905	YEAS09312	Switch	
SW906	YEAS09312	Switch	
SW907	YEAS09312	Switch	
SW908	YEAS09312	Switch	
SW909	YEAS09312	Switch	
SW910	YEAS09312	Switch	
SW911	YEAS09312	Switch	
SW912	YEAS09312	Switch	
SW913	YEAS09312	Switch	
SW914	YEAS09312	Switch	
SW915	YEAS09312	Switch	
SW916	YEAS09312	Switch	
SW917	YEAS09312	Switch	
SW918	YEAS09312	Switch	
SW919	YEAS09312	Switch	
SW920	YEAS09312	Switch	
SW921	YEAS09312	Switch	
SW922	YEAS09312	Switch	

CRYSTALS

Ref. No.	Part No.	Part Name & Description	Remarks
XL400	YEXL49U07200	Crystal	
XL600	YEXL49U0419	Crystal	
XL900	YEXL49U0433T	Crystal	

COILS

Ref. No.	Part No.	Part Name & Description	Remarks
L50	YELT02C330KT	Coil	
L400	YELT02C101KT	Coil	
L600	YELT02C470KT	Coil	
L702	YETQ026F143	Coil	
L703	ELEH330KA	Coil	
L800	YELT02C101KT	Coil	
L900	YELT02C330KT	Coil	
L901	YELT216825TG	Coil	
L902	YELTD75F101T	Coil	
L903	YELT02C330KT	Coil	

LCD

Ref. No.	Part No.	Part Name & Description	Remarks
LCD901		LCD Display	
	L5ACDLC00007	(CQ-FX66LEN)	
	EDD113YT0A4P	(CQ-FX44LEN/GLEN)	

LAMPS

Ref. No.	Part No.	Part Name & Description	Remarks
CFL901	A2CA00000007	Display Tube	
Z50	YEAL02007	Neon Lamp	

THERMISTOR

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

VARIABLE RESISTORS

Ref. No.	Part No.	Part Name & Description	Remarks
VR1	EVNDCAA03BQ2	Variablr resistor	
VR2	EVNDCAA03BQ2	Variablr resistor	

1.7. Accessories

PRINTING

Ref. No.	Part No.	Part Name & Description	Remarks
	YEFM283321	Instruction Book	

INNSTALLATION PARTS

Ref. No.	Part No.	Part Name & Description	Remarks
	YEAJ02793	Power Connector	
	YEAA33144	Antenna Accessory	
	CR2025/1F	Battery (CQ-FX66LEN)	
	YEP9BS1111	Screw Kit	
	YEFX9992013	Remote Controller (CQ-FX66LEN)	
	YEFX0214198	Mounting Collar	

1.8. Mechanical Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
F1 ⚠	YEAF02015	Fuse, 15A	
ANT51	YEAA10090	ANT Receptacle	
AT1-3	YEAT03420	Terminal	
TP201	YEAT03240	Terminal	
TP301	YEAT03240	Terminal	
1	YEFA031354D	Upper Cover	(4-)
2	YEFA05594B	Bottom Cover	(1-)
3	YEP9FX066A	Front Chassis Ass'y	(2-)
4	YEFA08462AK	Rear Plate	(4-)
5	YEFA09485A	Side Plate	(3-)

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Ref. No.	Part No.	Part Name & Description	Remarks
6	YEFC025659A	Escucheon Ass'y	(2-B)
7		Escutcheon Ass'y, Detachable	(1-A)
	YEFC026161	(CQ-FX66LEN)	
	YEFC026163	(CQ-FX44LEN)	
	YEFC026240	(CQ-FX44GLEN)	
8	YEFA131357	Cover, Detachable	(2-B)
9	YEFF01922	Heat Shink	(3-B)
10	YEFV011813	Insulator	(1-B)
11	YEFX0214197B	Bracket, Deck	(2-A)
12	YEFE135147	Button, EJECT	(2-B)
13	YEFX0011816	Transparent Plate	(2-B)
14	YEP9FX069	Hook Bracket Ass'y	(2-C)
15	YEFX0011815	Transparent Plate	(1-A)
16	YEFE135139	Button, SDM	(1-A)
17	YEFE135140A	Button, MODE/BAND	(1-A)
18	YEFE135137	Button, VOL UP	(1-A)
19	YEFE135143	Button, SEL	(1-A)
20	YEFE135138A	Button, VOL DOWN	(1-A)
21	YEFE135144	Button, PWR	(1-A)
22		Button, PRESET	(1-A)
	YEFE135193	(CQ-FX66LEN)	
	YEFE135194	(CQ-FX44LEN/GLEN)	
23	YEFE135141	Button, OPEN	(1-A)
24	YEFE135146	Button, ./D	(1-A)
25	YEFE135142	Button, ATT	(1-A)
26	YEFV011891	Insutator	(1-B)
27	YEFX0052253	Spring	(2-A) (1-B)
28	YEFW04156	Shaft Collar	(2-A)
29	YEFW04157	Shaft Collar	(1-B)
30	YEFX0214422	Bracket, IC701	(2-C)
31	YEFX0213945B	Bracket, IC241	(1-B)
32	YEFX0213650	Bracket, RCA	(3-B)
33	YEFX0214423	Bracket, IC704	(2-C)
34	YEFJ05030	Color Rivet	(3-C)
35	YEFX007380	Cord Clamper	(4-B)
36	YEFX0214418	Bracket	(2-A)
37	YEFX0214417	Bracket, LCD	(2-A)
38	YEFK06791A	Hollder, Rubber	(2-A)
40	YEFR04187	Lead Cap	(4-C)
42	YEFX0052153	Spring	(1-A)
43		Optical Shade	(2-A)
	YEFV021552	(CQ-FX66LEN)	
	YEFV021551	(CQ-FX44LEN)	
	YEFV021581	(CQ-FX44GLEN)	
44	YEFV021582	Optical Shade (CQ-FX44GLEN)	(2-A)
45	YEFV03457	Magnetic Shield	(2-A)
50	YEJT03163	Tapping Screw, 2mm * 6mm	
51	YEJS03022	Screw, 3mm * 3mm	
52	YEJT03156	Tapping Screw, 2.6mm * 4mm	
53	XTB3+6FFX	Tapping Screw, 3mm * 6mm	
54	YEJS03020	Screw, 2mm * 4mm	
55	XTN2+8GFZ	Tapping Screw, 2mm * 8mm	
56	XTB3+8GFX	Screw, 3mm * 8mm	
57	YEJS06092	Screw, 3mm * 10mm	
58	YEJT03009	Tapping Screw, 3mm * 8mm	

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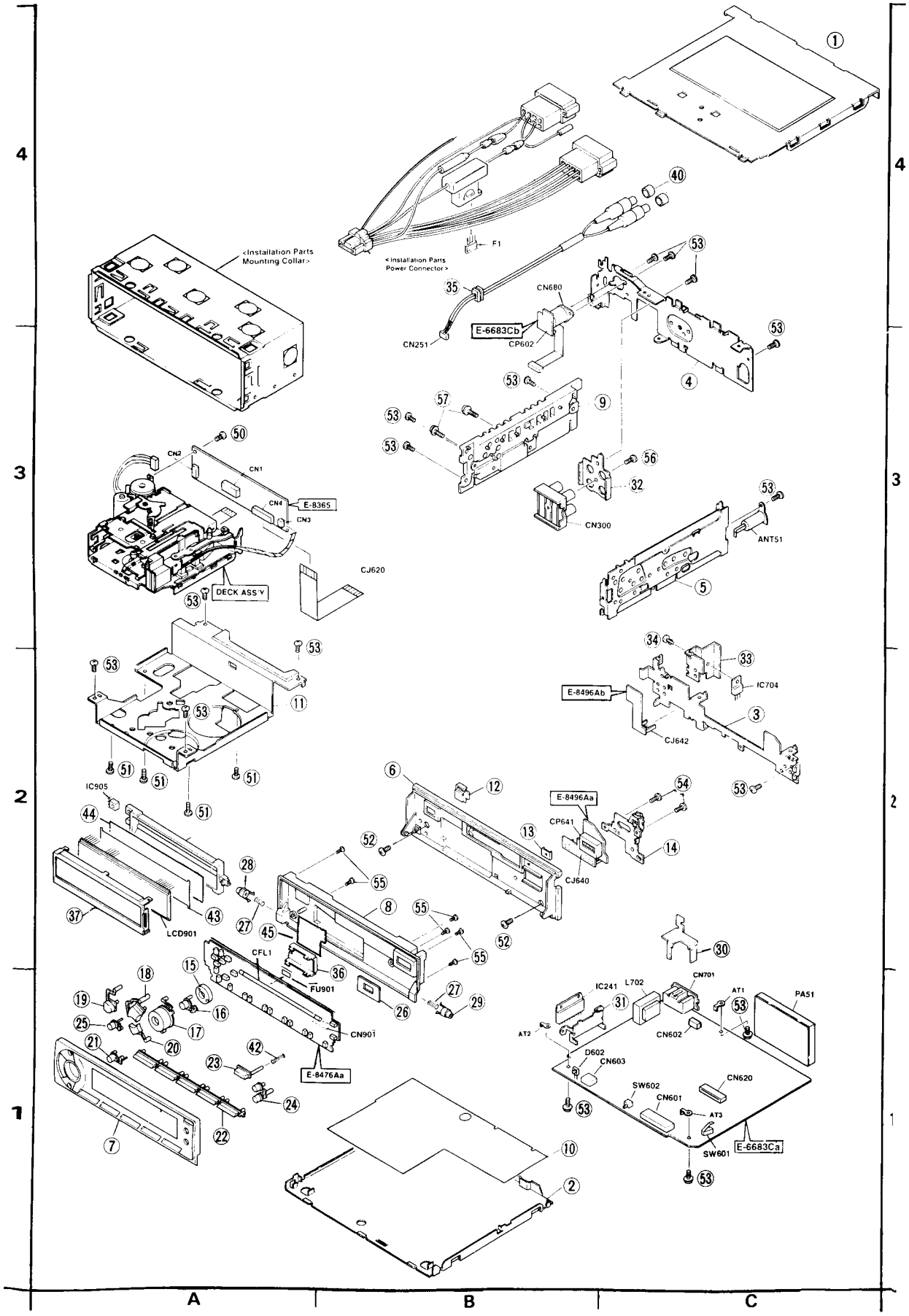
EXPLODED VIEW (Unit)

■ Numbers in ◯ are indicated REF.NO. in the REPLACEMENT PARTS LIST



2 Tape Player Parts

MISCELLANEOUS

Ref. No.	Part No.	Part Name & Description	Remarks
1	YESFA01055	Chassis Rivet Ass'y	(2-B)
4	YESFX046056	Main Plate	(1-C)
5	YESFX003049	B Gear	(2-B)
6	YESFX003050	C Gear	(2-A)
7	YESFX003051	D Gear	(1-B)
8	YESFX003052	P Gear	(2-B)
9	YESFX003053	P.G Plate	(2-A) (3-B)
10	YESFG02021	Guide BKT	(2-C)
11	YESFX026013	Middle Pulley	(2-B)
15	YESFX046057	Head Panel Ass'y	(2-C)
16	YESAH006	P.Head P-5544SD-9949	(2-C)
17	YESFX046058	Head SP Plate	(2-C)
20	YESFX046059	O.P Plate Ass'y	(1-B)
21	YESFX215015	Eject Lever Rivet Ass'y	(3-A)
22	YESFX046060	S.B Plate Rivet Ass'y	(1-C)
23	YESFX046061	O.P Plate Holder	(3-A)
26	YESFX003054	FR Gear	(1-B)
27	YESFX046062	FR Plate	(1-A)
30	YESFX218011	Pinch Roller Arm (F) Ass'y	(3-C)
31	YESFX218012	Pinch Roller Arm (R) Ass'y	(2-C)
32	YESFX046063	SW Actuator B	(3-C)
33	YESFX005088	SA Spring M	(3-C)
36	YESFX209007	Reel Ass'y	(2-A) (3-B)
37	YESFX005074	B.Tension Spring (F)	(2-A) (3-B)
40	YESAK01013	Sub Motor Ass'y	(4-A)
43	YESAK01014	Main Motor Ass'y	(4-A)
44	YESAE283	M Conector Ass'y	(4-A)
45	YESFX006002	Wire Clamper	(3-A)
48	YESFX213004	FL Capstan Ass'y	(1-B)
49	YEFSFR03003	Main Belt	(1-B)
52	YESFX046064	Case Lifter	(4-B)
53	YESFX239006	Cassette Case	(3-B)
54	YESFS04007	Cusion Rubber	(3-B)
56	YESFX046065	P.S Actuator Plate	(4-B)
57	YESFX005075	P.S Spring	(4-B)
58	YESFX046066	Pack Slider	(4-B)
61	YESAP151	Reel PWB Ass'y	(2-A)
200	YESJS01090	Camera Screw (Tams) 2.0×2.2	(1-A)
201	YESJW01019	Lumilar Washer (Cut) 1.55×3.5×0.5	(3-A) (3-B)
202	YEJS01070	Adjust Screw 2.0×13	(2-C)
203	YEFT03084	Camera Tapping Screw S 2.0×3.0	(3-A) (4-B)
204	YEJS06130	Tams Screw 2.0×3.0	(3-A)
205	YEJW05130	P.Washer (Cut) 0.85×2.8×0.25	(2-B)
206	YESJW01012	P.Washer (Cut) 1.55×3.5×0.5	(2-A) (3-C)
207	YESJW01013	P.Washer 2.1×3.5×0.2	(2-A) (3-C)
208	YESJW01014	Lumilar Washer 2.1×3.5×0.1	(1-B)
209	YESJS01091	PK Collar Screw A	(1-C)

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EXPLODED VIEW (Tape Deck)

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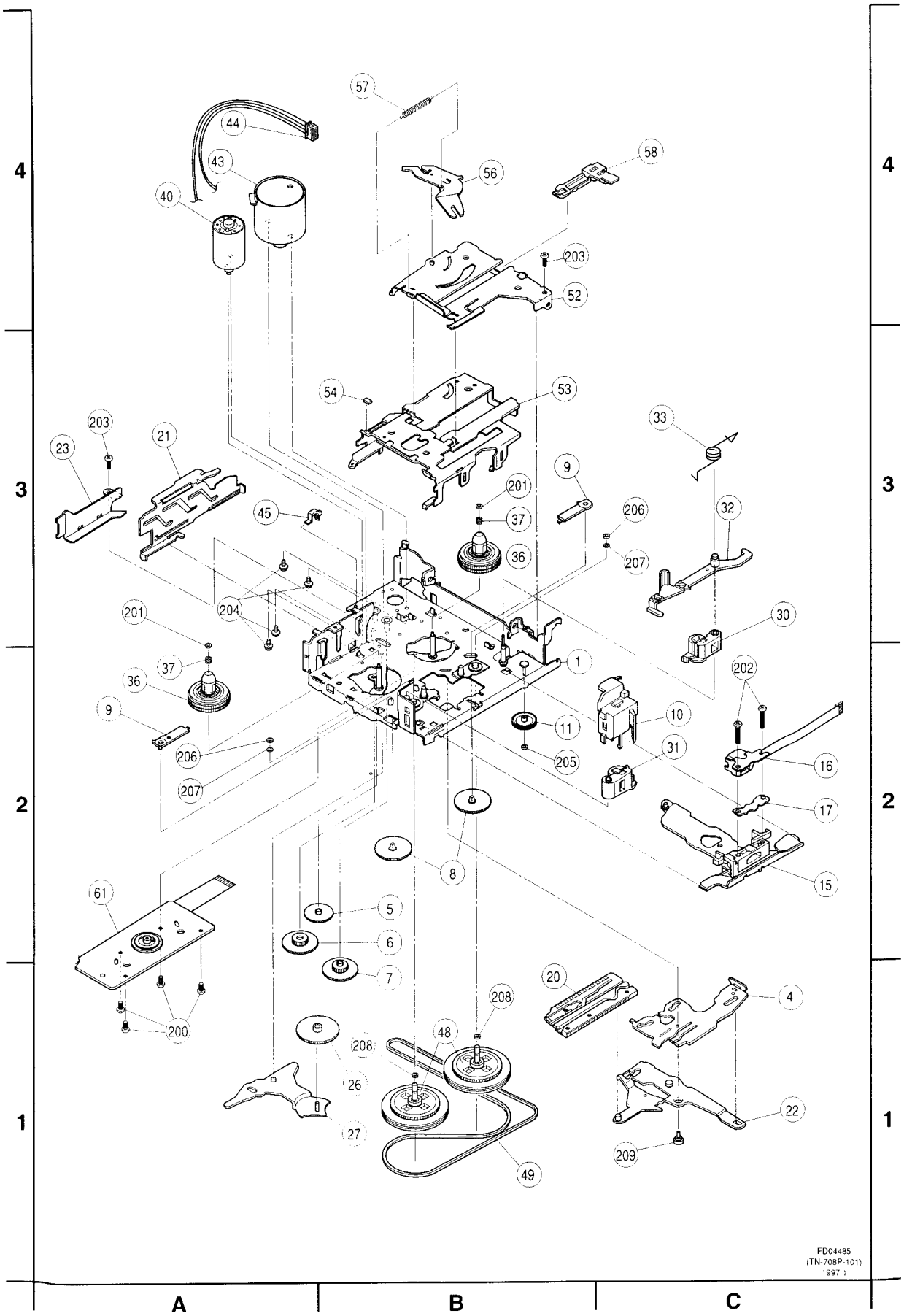

ORDER NO.ACED9907060

Parts Change Notice

Model No. CQ-FX38EW, CQ-FX44GLEN / LEN, CQ-FX66LEN

Please revise the original parts list in the Service Manual to conform to the change(s) shown herein. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	*The circled item indicates the reason. If no marking, see the Notes in the bottom column.
1. Improve performance	Addition
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
⑤ Addition	
6. Deletion	
7. Correction	
8. Other	

Interchangeability Code			**The circled item indicates the interchangeability. If no marking, see the Notes in the bottom column.
	Parts	Set Production	
A	Original → Early New → Late		Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original → Early New → Late		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
C	Original → Early New → Late		New parts only may be used in early or late production sets. Stock new parts.
D	Original → Early New → Late		Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
Ⓔ Other			Addition of Part Number

Part Number

Model No.	Ref. No.	Original Parts No.	New Part No.	Notes(∗-∗∗)	Part Name & Descriptions.	Remarks
CQ-FX38EW CQ-FX44GLEN / LEN CQ-FX66LEN			YEFC05558A	5-E	Trim plate	

File this Parts Change Notice with your copy of the Service Manual.

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