

# Service Manual

AUTO PRODUCTS

## CQ-R30VEG/LEE/GLEE CQ-R35VEG/LEE

Removable Face High-Power / Cassette Receiver  
Abnehmbares Bedienteil Hochleistungs-Cassettenspieler / Receiver



&lt;CQ-R35VEG&gt;

**SPECIFICATIONS\ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ**  
**CD CHANGER ERROR MESSAGES\КОДЫ ОШИБОК КД ЧЕЙНДЖЕРА**  
**ANTI-THEFT SYSTEM\СИСТЕМА БЕЗОПАСНОСТИ**  
**INSTALLATION\УСТАНОВКА**  
**ELECTRICAL CONNECTION\ЭЛЕКТРИЧЕСКИЕ СОЕДИНЕНИЯ**  
**SPEAKER CONNECTION\ПОДСОЕДИНЕНИЕ АКУСТИЧЕСКИХ КОЛОНОК**  
**BLOCK DIAGRAM\БЛОК-СХЕМА**  
**SCHEMATIC/WIRING DIAGRAM (TAPE)\ПРИНЦИПИАЛЬНАЯ СХЕМА/СХЕМА СОЕДИНЕНИЙ (МАГНИТОФОН)**  
**SCHEMATIC DIAGRAM (DISPLAY, RDS)\ПРИНЦИПИАЛЬНАЯ СХЕМА (ДИСПЛЕЙ, СИСТЕМА РАДИО ТЕКСТА)**  
**SCHEMATIC DIAGRAM (MAIN)\ПРИНЦИПИАЛЬНАЯ СХЕМА (ОСНОВНАЯ)**  
**VOLTAGE IN THE CHECKPOINTS\НАПРЯЖЕНИЕ В КОНТРОЛЬНЫХ ТОЧКАХ**  
**TERMINALS OF THE IC'S, TRANSISTORS AND CONNECTORS\ЦОКОЛЕВКА МИКРОСХЕМ, ТРАНЗИСТОРОВ И РАЗЪЕМОВ**  
**OPERATION OF LSI\ФУНКЦИОНИРОВАНИЕ БИС**  
**ALIGNMENT INSTRUCTIONS\ИНСТРУКЦИИ ПО РЕГУЛИРОВКЕ**  
**HEAD REPLACEMENT\ЗАМЕНА ГОЛОВКИ**  
**PACKAGE AND IC BLOCK DIAGRAM\БЛОК-СХЕМЫ ИНТЕГРАЛЬНЫХ МИКРОСХЕМ**  
**REPLACEMENT PARTS LIST\СПИСОК ЗАПАСНЫХ ЧАСТЕЙ**  
**EXPLODED VIEW (UNIT)\СБОРОЧНЫЙ ЧЕРТЕЖ (ОБЩИЙ)**  
**EXPLODED VIEW (DECK)\СБОРОЧНЫЙ ЧЕРТЕЖ (ДЕКА)**

# Panasonic

## ■ FEATURES

- VF (CQ-R30VEG/CQ-R35VEG)
- 20-Stations Preset Tuning (15 FM, 5MW/LW)
- Metal (CrO<sub>2</sub>)/Normal Tape Selector
- Electronic Control of Volume, Bass, Treble, Balance and Fader
- CD Changer Control (CQ-R35VEG/CQ-R35LEE)
- Detachable Face Plate Security

## ■ MERKMALE

- VF (CQ-R30VEG/CQ-R35VEG)
- 20 Festsender (5 für MW/LW, 15 für UKW)
- Bandsortenwahlschalter für Reineisen(CrO<sub>2</sub>)-/Normalbänder
- Elektronische Regelung der Lautstärke, Bässe, Höhen, Balance und Überblendung
- CD-Wechsler-Steuerung (CQ-R35VEG/CQ-R35LEE)
- Sicherung für die abnehmbare Stirnplatte

## Specifications\*

### General

Power Supply	: DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Tone Controls	: Bass; $\pm 12$ dB at 100Hz Treble; $\pm 12$ dB at 10kHz
Current Consumption	: Less than 2.0A (Tape mode, 0.5W 4-Speaker)
Maximum Power Output	: 22W $\times$ 4 (at 4 $\Omega$ )
Power Output	: 11W $\times$ 4 (DIN45 324 at 4 $\Omega$ )
Speaker Impedance	: 4 - 8 $\Omega$

### FM Stereo Radio

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

### MW Radio

Frequency Range	: 531 - 1,602kHz
Usable Sensitivity	: 26dB/ $\mu$ V (S/N 20dB)

### LW Radio

Frequency Range	: 153 - 279kHz
Usable Sensitivity	: 30dB/ $\mu$ V (S/N 20dB)

### Cassette Player

Reproduction System	: 4-track, 2-program stereo
Tape Speed	: 4.76cm/sec.
FF/Rewind Time	: Less than 100sec. (C-60)
Frequency Response	: 35 - 14,000Hz (Normal) 35 - 17,000Hz (Metal)
Wow and Flutter	: 0.12% (WRMS)
Signal to Noise Ratio	: 52dB

### Dimensions\*\*

Main unit	: 178(W) $\times$ 50(H) $\times$ 150(D) mm
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### Weight\*\*

Main unit	: 1.6kg
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\* Specifications and the design are subject to possible modification without notice due to improvements.

\*\* Dimensions and Weight shown are approximate.

## Technische Daten\*

### Allgemeines

Spannungsversorgung	: 12V (11V - 16V) Gleichspannung, Testspannung 14.4V, negative Erdung
Klangregelung	: Bässe; $\pm 12$ dB bei 100Hz Höhen; $\pm 12$ dB bei 10kHz
Leistungsaufnahme	: Weniger als 2.0A (Cassettenwiedergabe, 0.5W, 4 Lautsprecher)
Höchstausgangsleistung Ausgang	: 22W $\times$ 4 (bei 4 $\Omega$ ) 11W $\times$ 4 (DIN45 324 bei 4 $\Omega$ )
Lautsprecherimpedanz	: 4 - 8 $\Omega$

### UKW-Stereo-Tunerteil

Frequenzbereich	: 87.5 - 108MHz
Anwendbare Empfindlichkeit	: 6dB/ $\mu$ V (Signal /Rauschabstand 30dB)
Stereoabscheidung	: 35 dB (bei 1kHz)

### MW-Tunerteil

Frequenzbereich	: 531 - 1,602kHz
Anwendbare Empfindlichkeit	: 26dB/ $\mu$ V (Signal /Rauschabstand 20dB)

### LW-Tunerteil

Frequenzbereich	: 153 - 279kHz
Anwendbare Empfindlichkeit	: 30dB/ $\mu$ V (Signal /Rauschabstand 20dB)

### Cassettenspieler

Wiedergabe-System	: 4 Spuren, 2-Kanal-Stereo
Bandgeschwindigkeit	: 4.76cm/sek.
Schnellvorlauf-/Rücklaufzeit	: Weniger als 100 sek. (C-60)
Frequenzgang	: 35 - 14,000Hz (Normale Bänder) 35 - 17,000Hz (Reineisenband)
Gleichlaufschwankungen	: 0.12% (WRMS)
Signal /Rauschabstand	: 52dB

### Abmessungen\*\*

Haupteinheit	: 178(B) $\times$ 50(H) $\times$ 150(T) mm
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### Gewicht\*\*

Haupteinheit	: 1.6kg
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\* Technische Daten und Ausführung können sich ändern ohne besondere Ankündigung bei gebührenden Verbesserungen.

\*\* Abmessungen und Gewicht in angenäherten Werten angegeben.

# CD Changer Basics continued

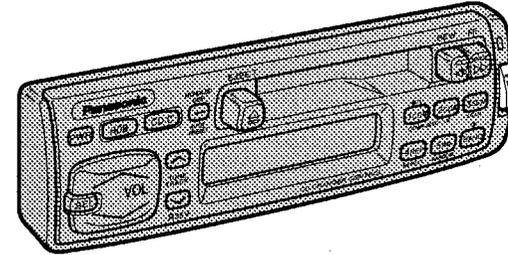
< CQ-R35VEG/LEE only >

## Error Display Messages

E1	Displays when the compact disc is dirty or upside down. Selects the next available compact disc.
E2	Displays when compact disc is scratched. Selects next available compact disc.
E3	Displays when the unit stops operating for some reason. Press RESET on the CD Changer (optional).
0000	Displays when there is no disc in the magazine.

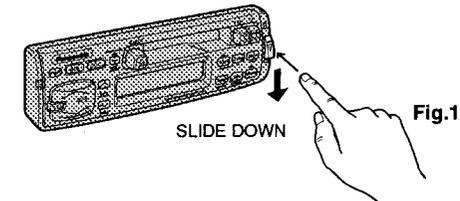
# Anti-Theft System

This unit is equipped with a removable control unit. By removing this unit when the vehicle is unattended the radio becomes totally inoperable.

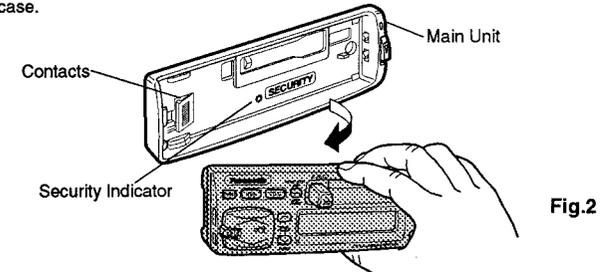


### To Remove the Removable Face Plate

- ① Switch off the power.
- ② Slide down the release button (▽). The removable face plate will be released.



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



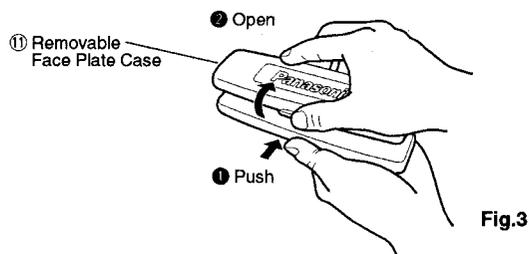
### Switching Security Indicator:

When the removable face plate is removed from the unit, the security indicator will blink. With the car turned on, press and hold the SEL button for more than 2 seconds repeatedly to change the display (appearing for 2 seconds) as follows, thus switching the security indicator to on/off.

LED	→	Disappears	→	On	Blinks
		Display		Security Indicator	
		↓			
LED	→	Disappears	→	OFF	Disappears

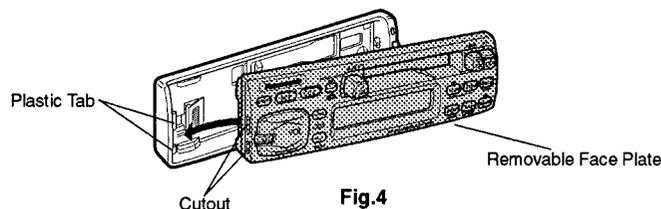
# Anti-Theft System continued

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.

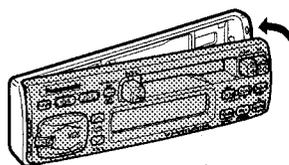


## To install the Removable Face Plate

① Slide the left side of the removable face plate in place.



② Press the right end of removable face plate until it locks in place.



### Caution:

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

# Installation

## Preparation

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

### Caution:

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

## In-dash Installation

### Installation Opening

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

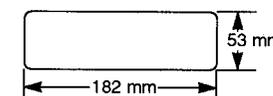


Fig. 1

## Installation Precautions

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

## Supplied Hardwares

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

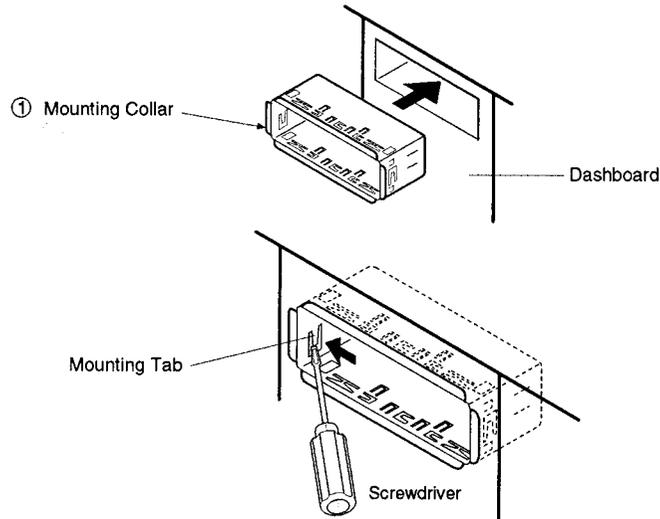
No.	Item	Diagram	Q'ty
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Dismounting Pin		1
⑩	Power Connector		1
⑪	Removable Face Plate Case		1

# Installation continued

## Installation Procedures

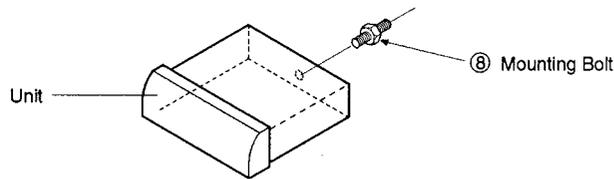
### 1. Secure the Mounting Collar ①.

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

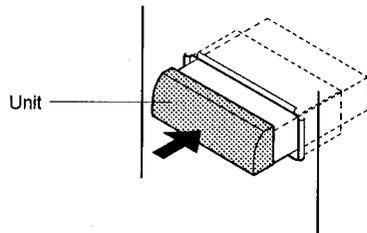


### 2. Secure the rear of the unit.

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



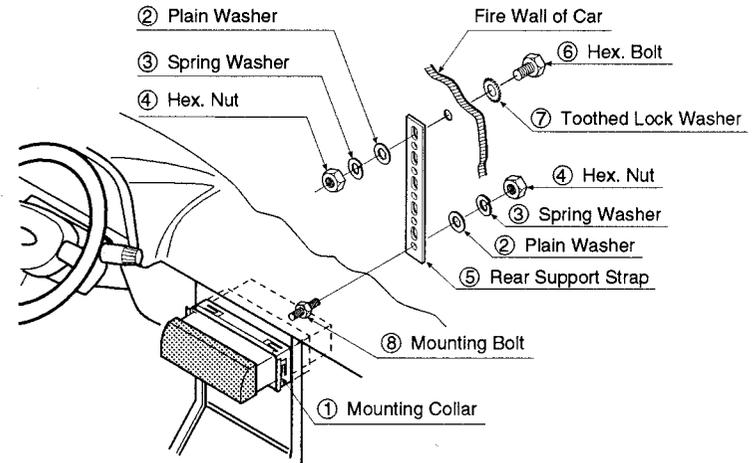
- Insert the unit into Mounting Collar ① and push it in until "click" is heard.



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

### ■ Using the Rear Support Strap ⑤

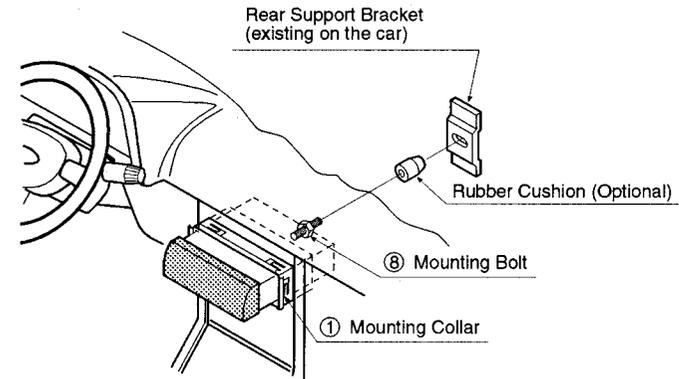
Affix one end of the Rear Support Strap ⑤ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.



### ■ Using the Rubber Cushion (Optional)

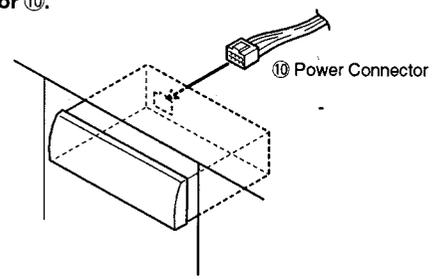
(If there is an existing Rear Support Bracket on the Fire Wall of Car.)

Cover Mounting Bolt ⑧ on the rear of the unit with Rubber Cushion (Optional), and mount it into the existing Rear Support Bracket.



# Installation continued

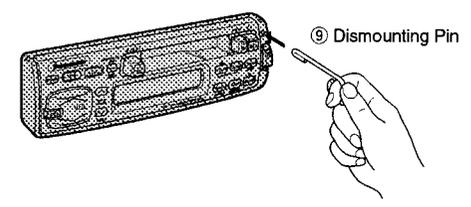
3. Plug the Power Connector ⑩.



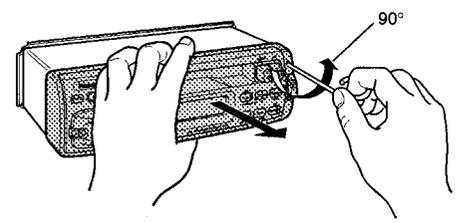
4. After installation reconnect the negative (-) battery terminal.

## To Remove the Unit

a) Insert Dismounting Pin ⑨ into the right hole of the escutcheon. Push the Pin as far as possible.



b) Turn the Dismounting Pin ⑨ 90° outward.



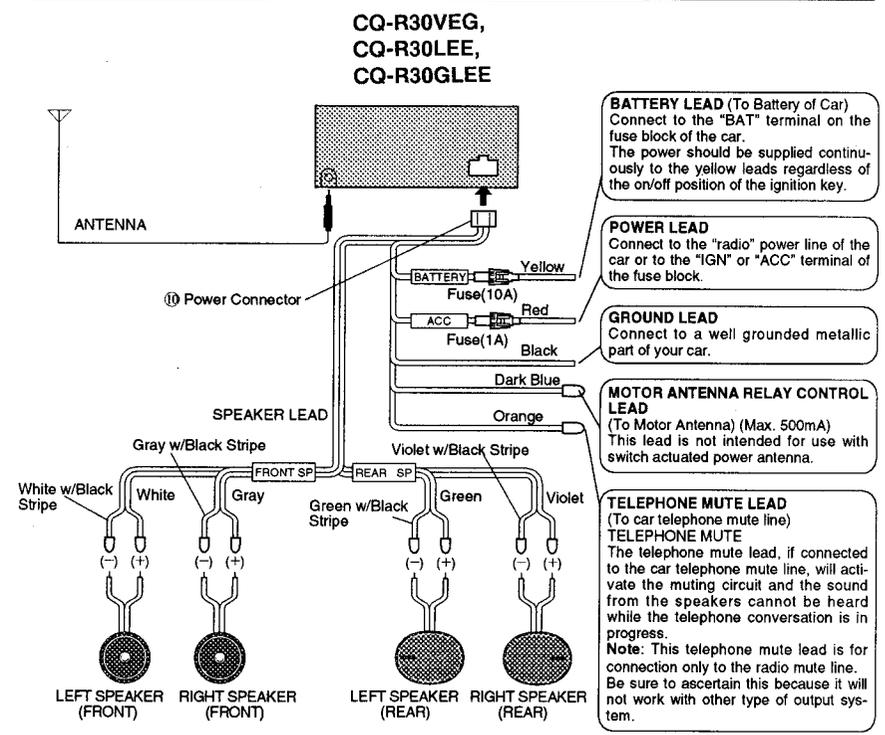
c) Pull the Pin to remove the unit from the car's dashboard. Supporting the left end of the unit with your other hand, will facilitate its removal.

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

# Electrical Connection < CQ-R30VEG/LEE/GLEE only >

**Caution:**

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



# Electrical Connection

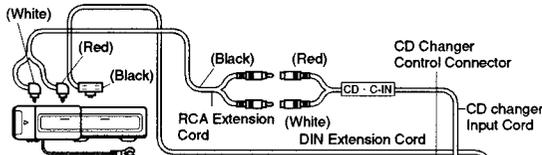
< CQ-R35VEG/LEE only >

- This unit can be connected to an optional CD Changer (CX-DP60EN).
- For connection to a CD changer, refer to the operating instructions of the CD Changer (CX-DP60EN).

**Caution:**

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

CX-DP60EN



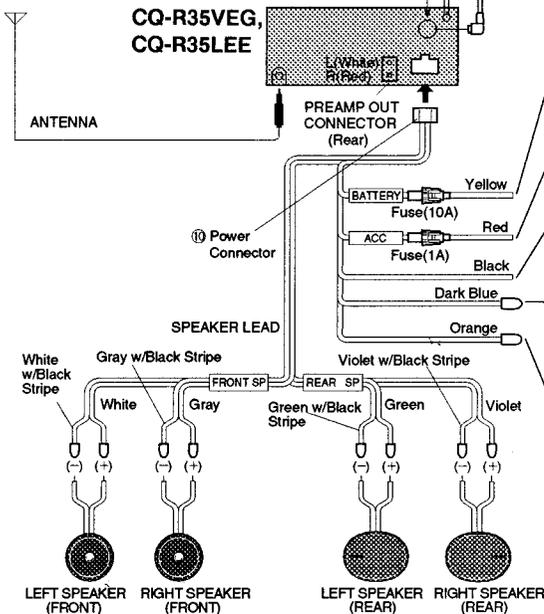
**BATTERY LEAD** (To Battery of Car)  
Connect to the "BAT" terminal on the fuse block of the car. The power should be supplied continuously to the yellow leads regardless of the on/off position of the ignition key.

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

**GROUND LEAD**  
Connect to a well grounded metallic part of your car.

**MOTOR ANTENNA RELAY LEAD** (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.

**TELEPHONE MUTE LEAD** (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.

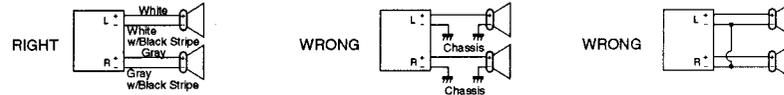


# Speaker Connections

**CAUTION:**

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

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

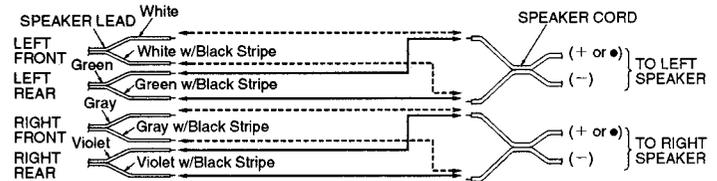


- Do not connect more than one speaker to one set of speaker leads.



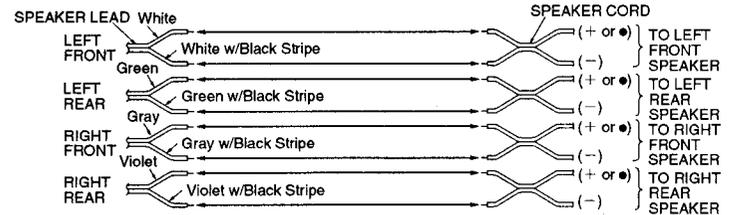
**2-SPEAKER SYSTEM**

- Use only front or rear speaker leads. Do not connect both (Front and Rear) together.
- When the front speakers are used, connect leads as illustrated in dotted lines (-----) below.
  - When the rear speakers are used, connect leads as illustrated in actual lines (——) below.

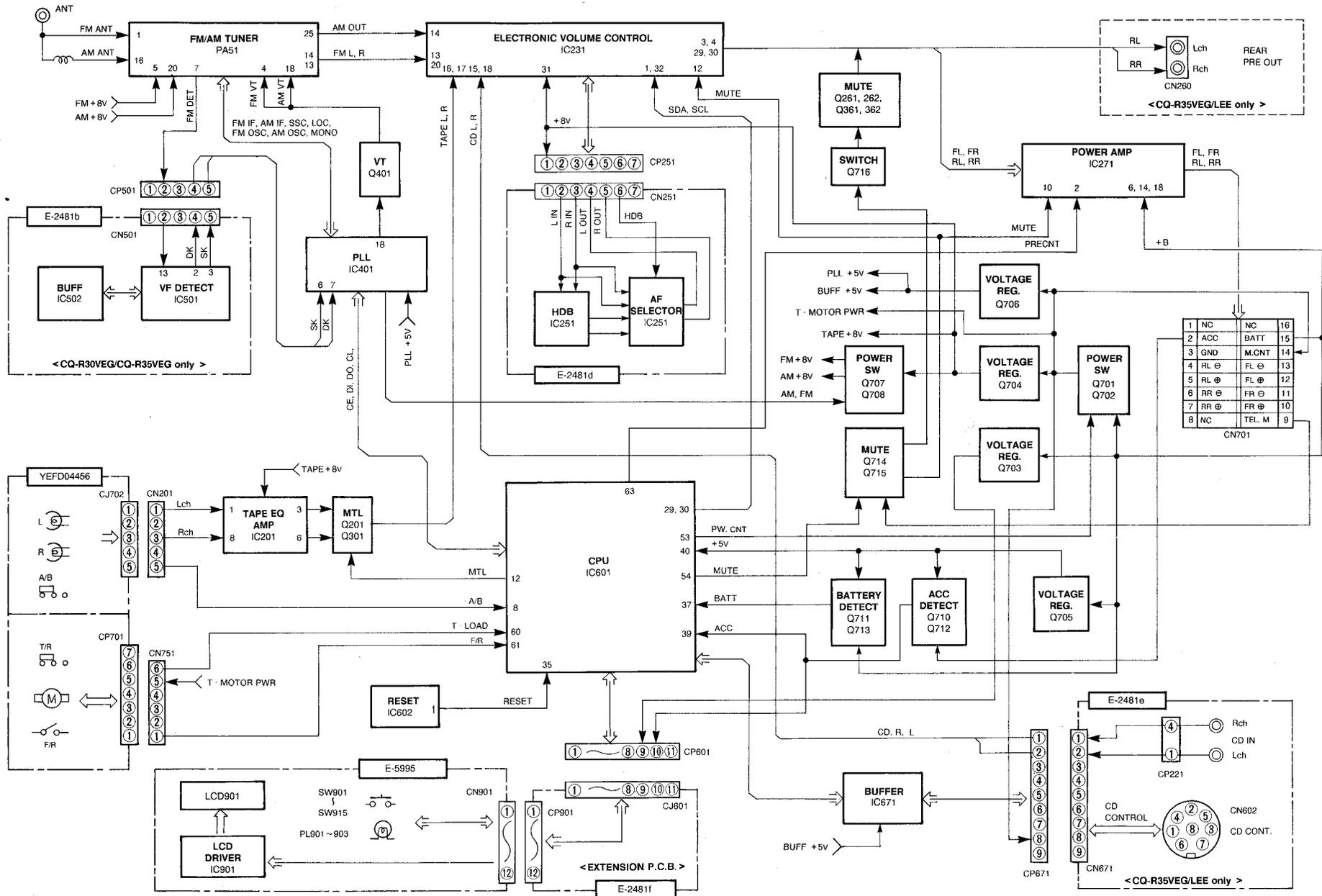


※ To prevent unused speaker leads from any short-circuiting, protect them with insulating caps.

**4-SPEAKER SYSTEM**



# BLOCK DIAGRAM MODELS CQ-R30VEG/LEE/GLEE / CQ-R35VEG/LEE

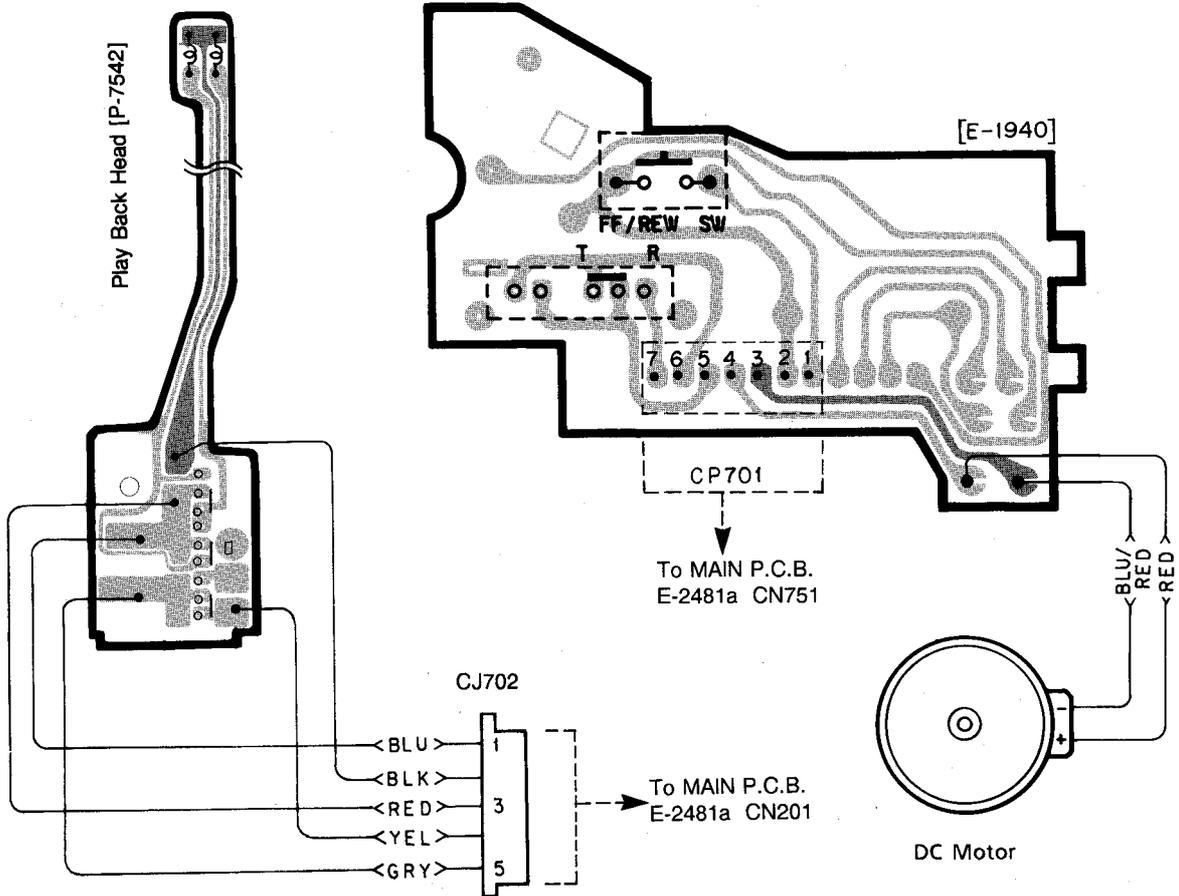
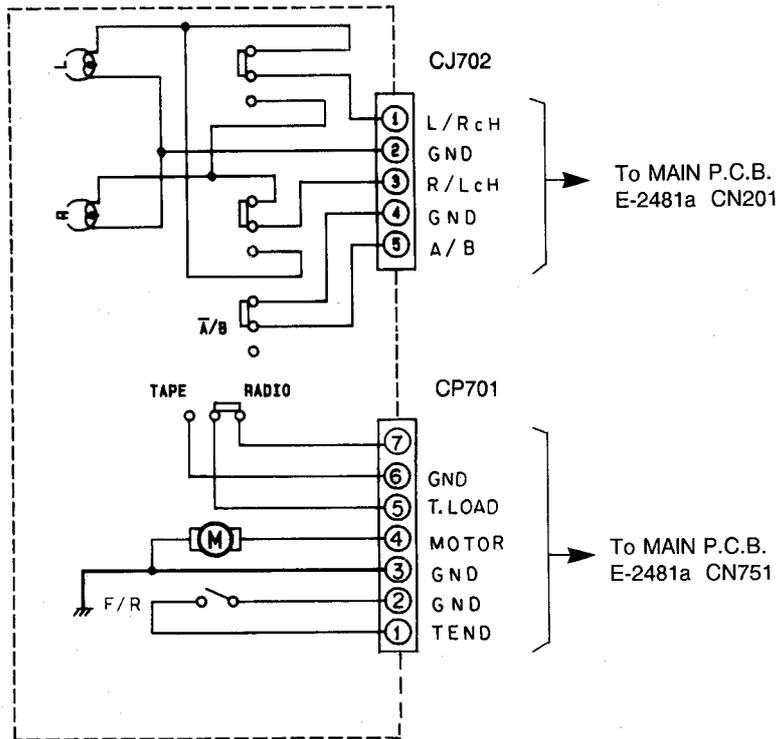


Removable Face High-Power / Cassette Receiver

CQ-R30VEG/LEE/GLEE  
CQ-R35VEG/LEE

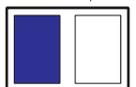
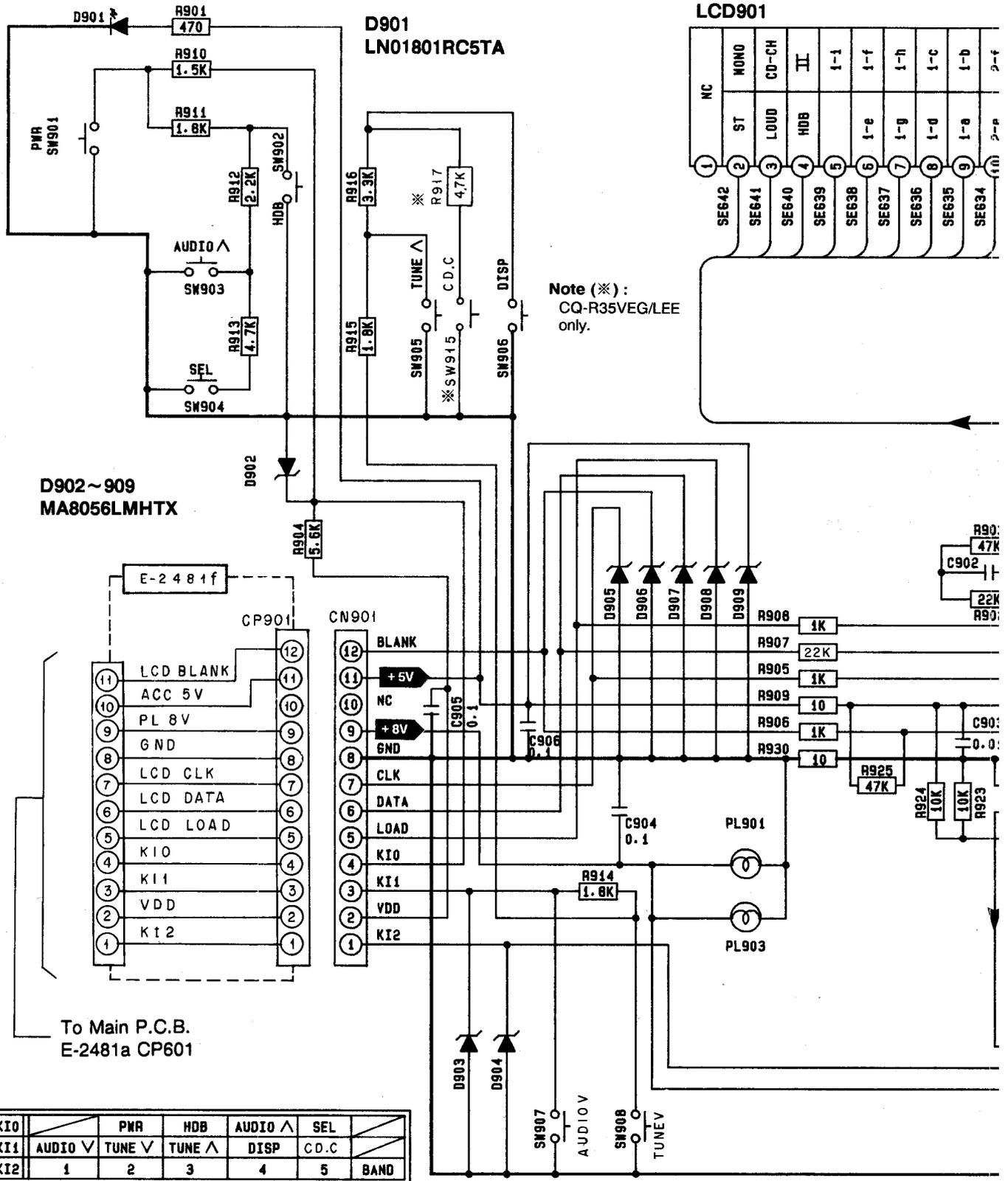
**SCHEMATIC / WIRING DIAGRAM / SCHALTBIILT / VERDHATUNG (TAPE BLOCK)**

MODELS CQ-R30VEG/LEE/GLEE / CQ-R35VEG/LEE

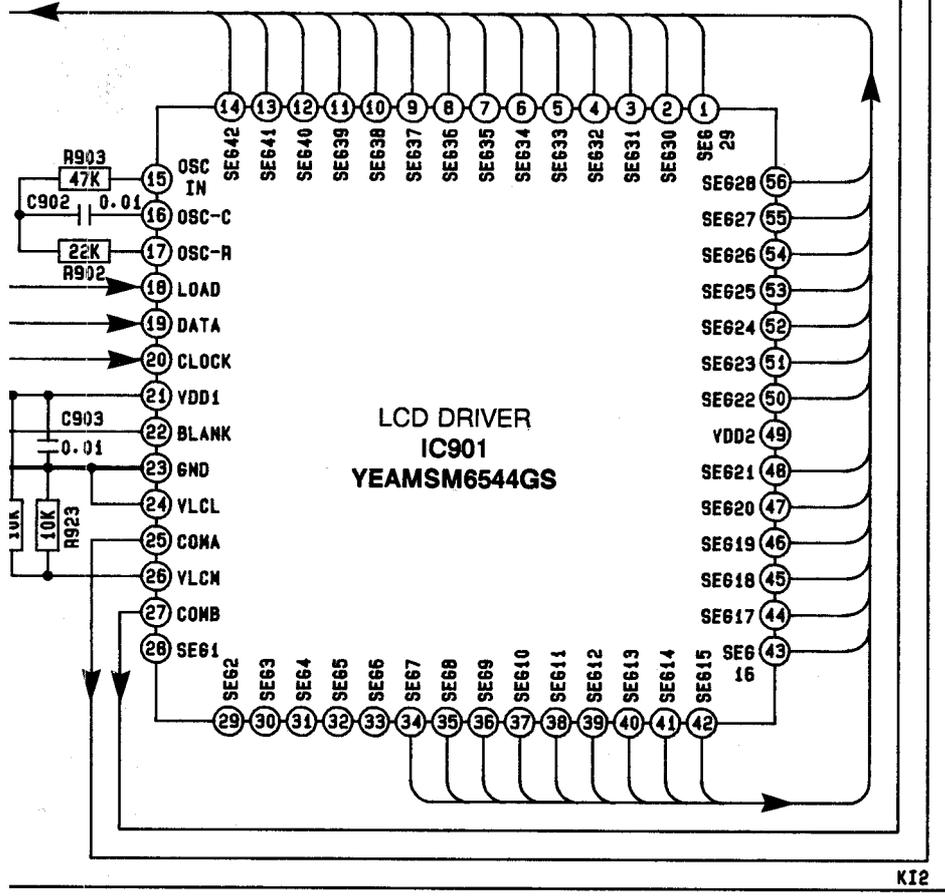
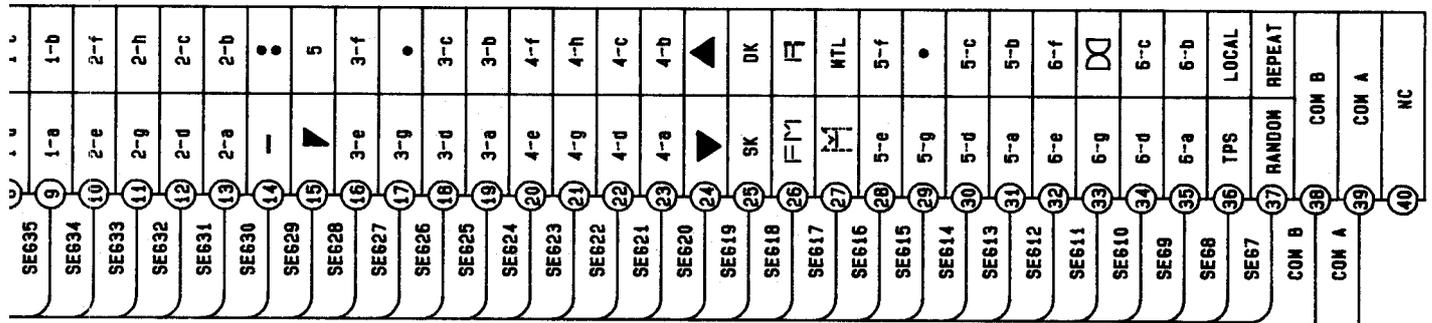


**Removable Face High-Power / Cassette Receiver**

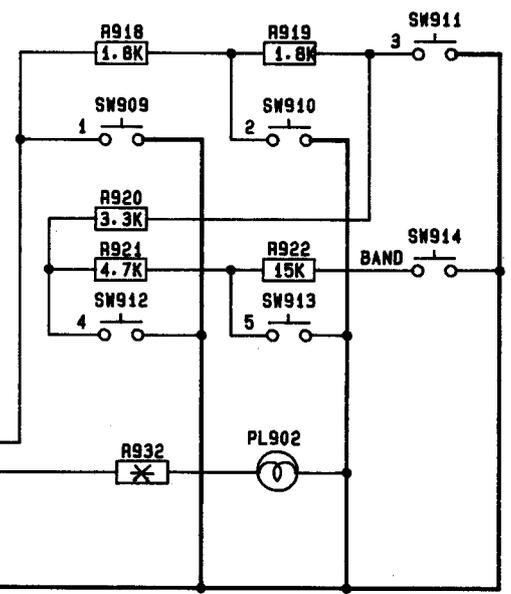
**SCHEMATIC DIAGRAM / SCHALTBILT MODELS CQ-R30VEG/LEE/GLEE**



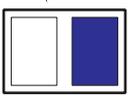
LEE / CQ-R35VEG/LEE (DISPLAY BLOCK)



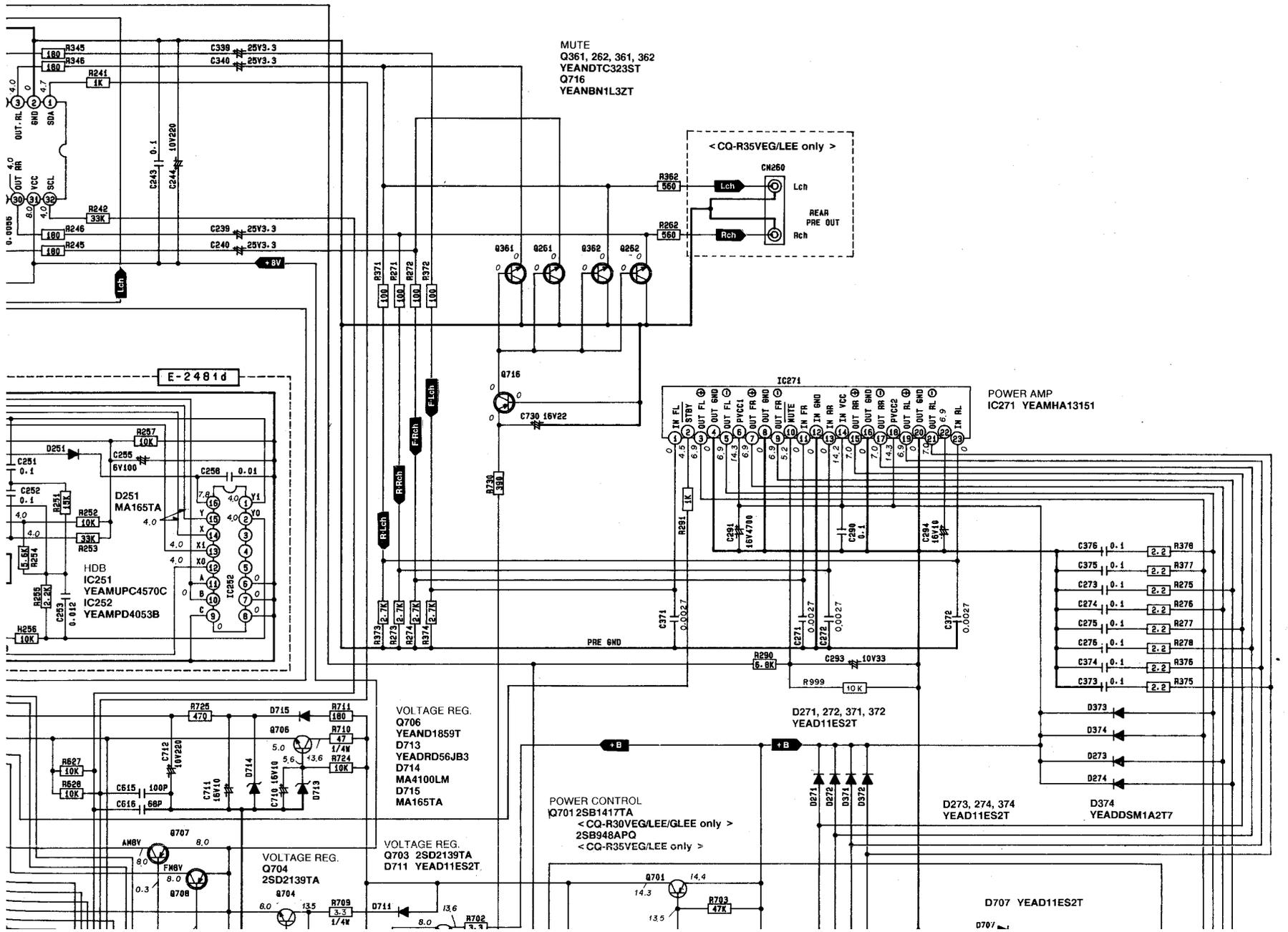
Note (\*) R932 :  
 5.6 ohms : CQ-R3VEG/LEE  
 Jumper : CQ-R30GLEE / CQ-R35VEG/LEE



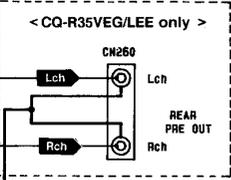
Removable Face High-Power / Cassette Receiver







MUTE  
 Q361, 262, 361, 362  
 YEANDTC323ST  
 Q716  
 YEANBN1L3ZT



E-2481d

POWER AMP  
 IC271 YEAMHA13151

VOLTAGE REG.  
 Q706  
 YEAND1859T  
 D713  
 YEADR056JB3  
 D714  
 MA4100LM  
 D715  
 MA165TA

POWER CONTROL  
 Q701 2SB1417TA  
 < CQ-R30VEG/LEE/GLEE only >  
 2SB948APO  
 < CQ-R35VEG/LEE only >

VOLTAGE REG.  
 Q704  
 2SD2139TA

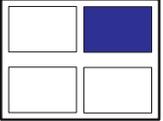
VOLTAGE REG.  
 Q703 2SD2139TA  
 D711 YEAD11ES2T

D273, 274, 374  
 YEAD11ES2T

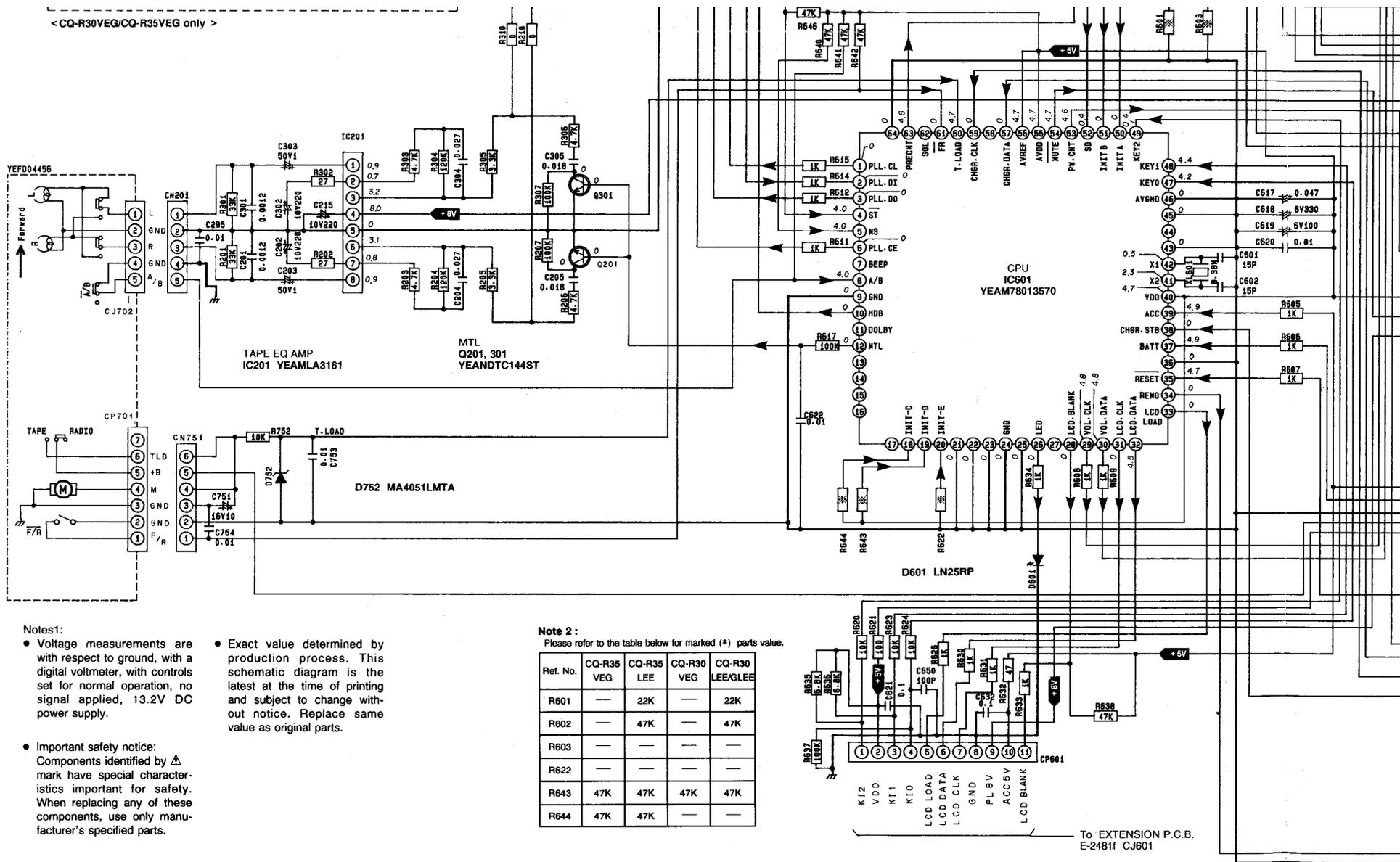
D374  
 YEADDSM1A2T7

D707 YEAD11ES2T

Q707



< CQ-R30VEG/CQ-R35VEG only >



Notes1:

- Voltage measurements are with respect to ground, with a digital voltmeter, with controls set for normal operation, no signal applied, 13.2V DC power supply.
- Important safety notice: Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

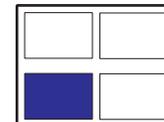
- Exact value determined by production process. This schematic diagram is the latest at the time of printing and subject to change without notice. Replace same value as original parts.

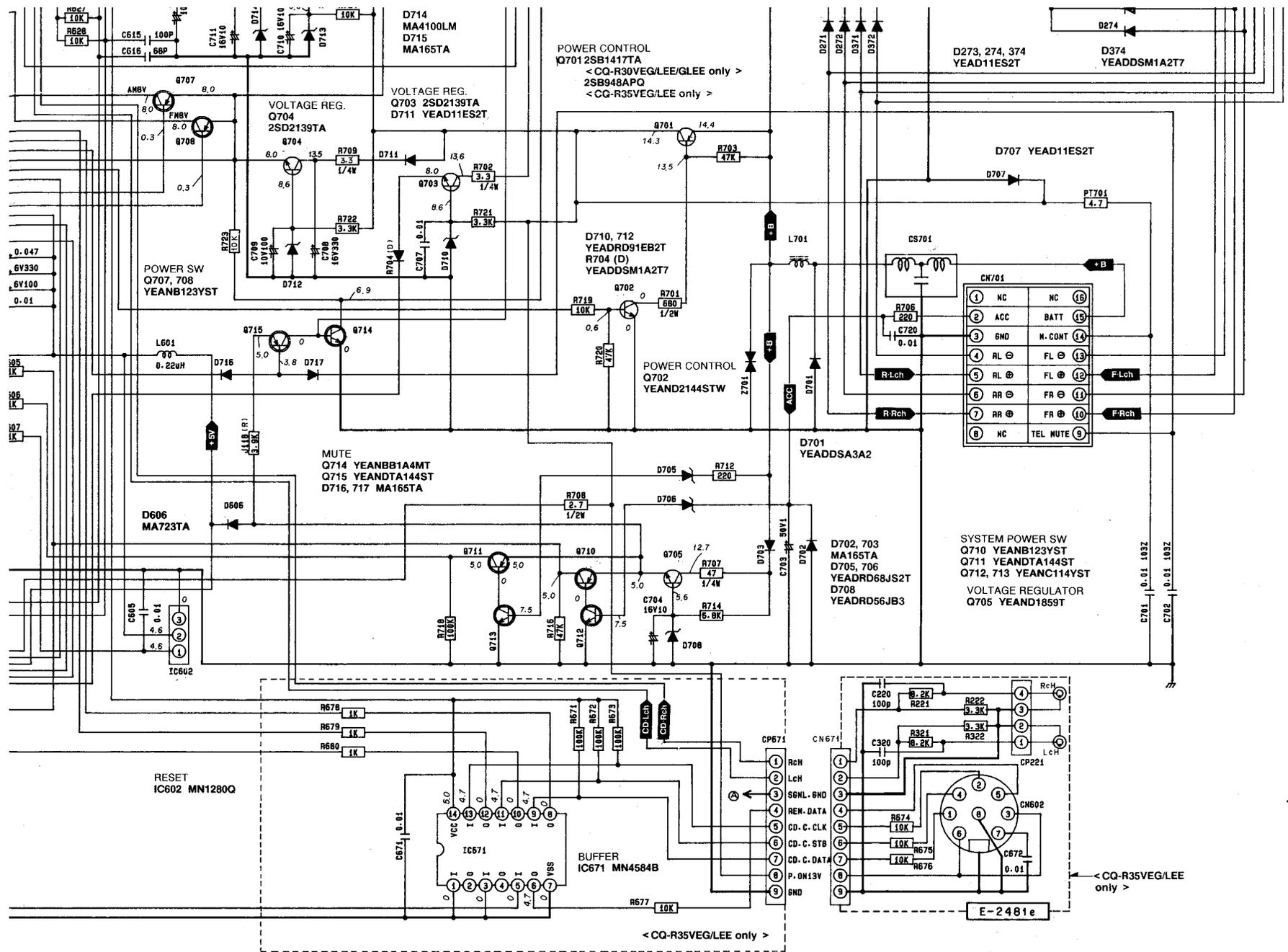
Note 2 :

Please refer to the table below for marked (\*) parts value.

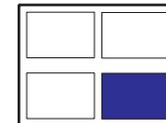
Ref. No.	CQ-R35 VEG	CQ-R35 LEE	CQ-R30 VEG	CQ-R30 LEE/GLEE
R601	—	22K	—	22K
R602	—	47K	—	47K
R603	—	—	—	—
R622	—	—	—	—
R643	47K	47K	47K	47K
R644	47K	47K	—	—

To EXTENSION P.C.B.  
E-2481f CJ601





Removable Face High-Power / Cassette Receiver



# VOLTAGE IN THE CHECKPOINTS \ НАПРЯЖЕНИЕ В КОНТРОЛЬНЫХ ТОЧКАХ

Q201		Q261		Q262		Q301		Q361		Q362		Q701		Q702		Q703		Q704		Q705		Q706	
B	0V	B	13.5V	B	0.6V	B	8.6V	B	8.6V	B	5.6V	B	5.6V										
C	0V	C	14.3V	C	0V	C	13.6V	C	13.5V	C	12.7V	C	13.6V										
E	0V	E	14.4V	E	0V	E	8.0V	E	8.0V	E	5.0V	E	5.0V										

Q707		Q708		Q710		Q711		Q712		Q713		Q714		Q715		Q716		Q401	
B	0.3V	B	0.3V	B	0V	B	0V	B	7.5V	B	7.5V	B	0V	B	3.8V	B	0V	G	1.4V
C	8.0V	C	8.0V	C	5.0V	C	5.0V	C	0V	C	0V	C	6.9V	C	0V	C	0V	D	1.1V
E	8.0V	E	8.0V	E	5.0V	E	5.0V	E	0V	E	0V	E	0V	E	5.0V	E	0V	E	2.2V
																		S	0V

(FM)  
(AM)

IC201			
1	0.9 V	5	0 V
2	0.7 V	6	3.1 V
3	3.2 V	7	0.8 V
4	8.0 V	8	0.9 V

IC252			
1	4.0 V	9	0 V
2	4.0 V	10	0 V
3	—	11	0 V
4	—	12	4.0 V
5	—	13	4.0 V
6	0 V	14	4.0 V
7	0 V	15	4.0 V
8	0 V	16	7.8 V

IC231			
1	4.7 V	17	3.6 V
2	0 V	18	3.6 V
3	4.0 V	19	8.0 V
4	4.0 V	20	3.6 V
5	3.8 V	21	4.0 V
6	4.0 V	22	—
7	3.9 V	23	4.0 V
8	2.7 V	24	—
9	—	25	2.8 V
10	4.0 V	26	3.9 V
11	—	27	4.0 V
12	6.8 V	28	3.9 V
13	3.6 V	29	4.0 V
14	3.6 V	30	4.0 V
15	3.6 V	31	8.0 V
16	3.6 V	32	4.0 V

IC271			
1	0 V	13	0 V
2	4.5 V	14	14.2 V
3	6.9 V	15	7.0 V
4	0 V	16	0 V
5	6.9 V	17	7.0 V
6	14.3 V	18	14.3 V
7	6.9 V	19	6.9 V
8	0 V	20	0 V
9	6.9 V	21	7.0 V
10	5.2 V	22	6.9 V
11	0 V	23	0 V
12	0 V		

IC602	
1	4.6 V
2	4.6 V
3	0 V

PA51			
1	0 V	14	3.2 V
2	0 V	15	0 V
3	0 V	16	0 V
4	1.1 V	17	0 V
5	8.0 V	18	2.2 V
6	1.6 V	19	1.6 V
7	—	20	8.0 V
8	4.0 V	21	—
9	0 V	22	0 V
10	0 V	23	0 V
11	—	24	0 V
12	1.1 V	25	3.2 V
13	3.2 V		

IC501			
1	—	10	4.0 V
2	0 V	11	4.4 V
3	0 V	12	3.9 V
4	0 V	13	3.0 V
5	3.9 V	14	2.2 V
6	3.1 V	15	4.0 V
7	7.8 V	16	0 V
8	0 V	17	3.0 V
9	5.0 V	18	0 V

IC251			
1	4.0 V	5	3.4 V
2	4.0 V	6	4.0 V
3	4.0 V	7	4.0 V
4	0 V	8	8.0 V

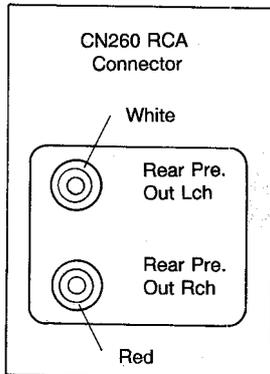
IC401			
1	1.0 V	11	0.3 V
2	0 V	12	0.3 V
3	0 V	13	0 V
4	0 V	14	0 V
5	0 V	15	1.6 V
6	0 V	16	1.6 V
7	0 V	17	5.0 V
8	0 V	18	1.5 V
9	0 V	19	0 V
10	0 V	20	2.6 V

IC502			
1	3.9 V	5	—
2	3.7 V	6	—
3	3.9 V	7	—
4	0 V	8	7.8 V

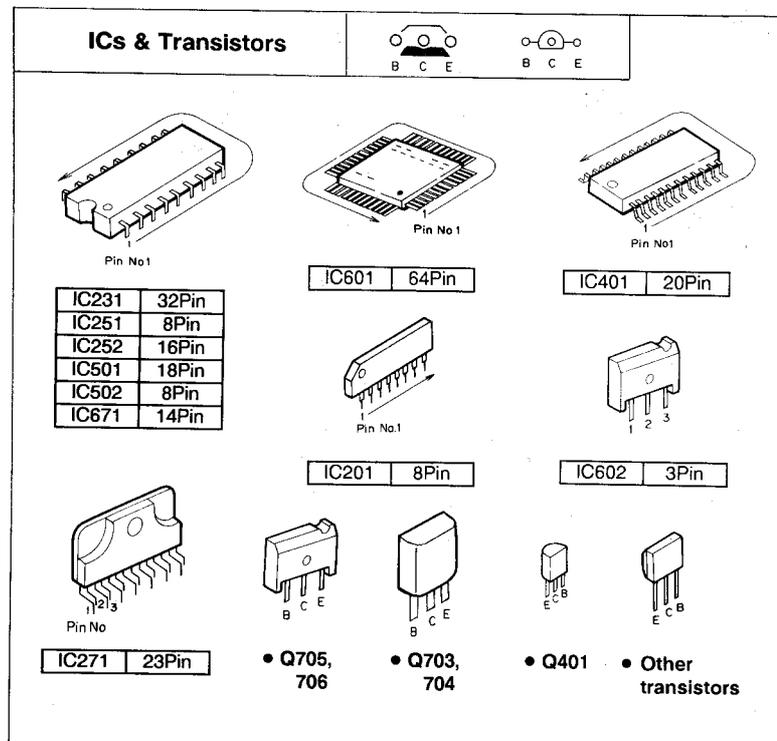
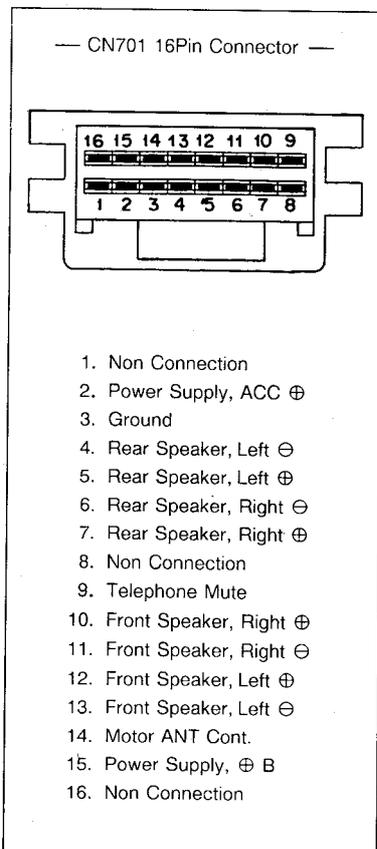
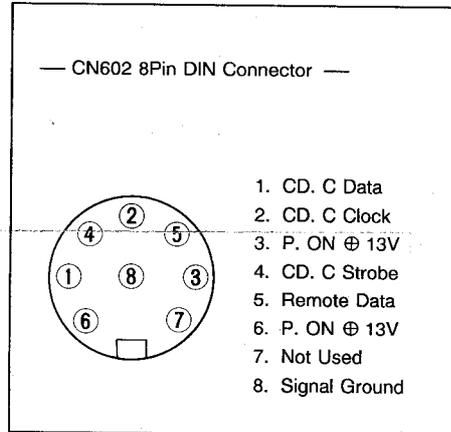
IC671			
1	0 V	8	0 V
2	—	9	4.7 V
3	0 V	10	0 V
4	—	11	4.7 V
5	0 V	12	0 V
6	4.7 V	13	4.7 V
7	0 V	14	5.0 V

# TERMINALS OF THE IC'S, TRANSISTORS AND CONNECTORS \

## ЦОКОЛЕВКА МИКРОСХЕМ, ТРАНЗИСТОРОВ И РАЗЪЕМОВ



< CQ-R35VEG/LEE only >



## OPERATION OF LSI/BI

### ■ IC601 YEAM78013570

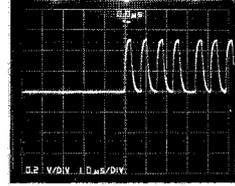
Pin No.	Port	Description	I/O	Vol. (V)
1	PLL_CK	PLL clock	O	0
2	PLL_DI	PLL data input	I	0
3	PLL_DO	PLL data output	O	0
4	ST	FM stereo	I	4.0
5	MS	Not used	—	4.0
6	PLL_CE	PLL chip enable	O	0
7	BEEP	Not used	—	—
8	A/B	Tape side input	I	4.0
9	GND	Ground	—	0
10	HDB	High definition bass	O	0
11	DOLBY	Not used	—	—
12	MTL	Metal tape	O	0
13~17	NC	Non connection	—	—
18	INIT_C	Initial setting	I	0
19	INIT_D	Initial setting	I	4.0
20	INIT_E	Initial setting	I	0
21~23	---	Not used	—	0
24	GND	Ground	—	0
25	---	Not used	—	0
26	LED	Security LED control	O	0
27	NC	Non connection	—	—
28	LCD_BLNK	LCD blank	O	0
29	VOL_CLK	Electronic volume clock	O	4.8
30	VOL_DATA	Electronic volume data	O	4.8
31	LCD_CLK	LCD clock	O	0
32	LCD_DATA	LCD data	O	4.5
33	LCD_LOAD	LCD data load	O	0
34	REMO	CD changer control data	O	0
35	RESET	Reset	I	4.7
36	---	Not used	—	0
37	BATT	Battery detection	I	4.9
38	CHGR_STB	CD changer strobe	I	0
39	ACC	ACC detection	I	4.9
40	V <sub>DD</sub>	+5V power supply	—	4.7
41	X2	Crystal oscillator	—	2.3
42	X1	Crystal oscillator	—	0.5
43	---	Not used	—	0
44	NC	No connection	—	—
45	---	Not used	—	0
46	AV_GND	Ground	—	0
47	KEY0	Key data input	I	4.2

Pin No.	Port	Description	I/O	Vol. (V)
48	KEY1	Key data input	I	4.4
49	KEY2	Key data input	I	4.4
50	INIT_A	Initial setting	I	0
51	INIT_B	Initial setting	I	0
52	SD	B/S detection	I	0.4
53	PW_CNT	Power supply control	O	4.6
54	MUTE	Mute control	O	4.7
55	AV <sub>DD</sub>	+5V power supply	—	4.7
56	AV <sub>REF</sub>	+5V power supply	—	4.7
57	CHGR_DAT	CD changer data	I	0
58	NC	No connection	—	—
59	CHGR_CLK	CD changer clock	I	0
60	T_LOAD	Tape loading	I	4.7
61	F/R	Tape FF/REW	I	0
62	SOL	Not used	—	—
63	PRECNT	Power Amp. control	O	4.6
64	---	Ground	—	0

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

- These waveforms are measured

① PLL\_CK



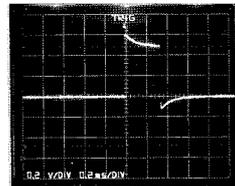
2V/DIV, 10μS/DIV

② PLL\_DI



2V/DIV, 0.2μS/DIV

⑥ PLL\_CE



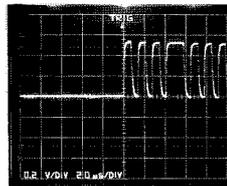
2V/DIV, 0.2mS/DIV

⑳ VOL\_



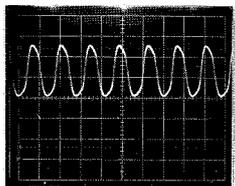
2V/DIV, 5μS/DIV

⑳ LCD\_CLK



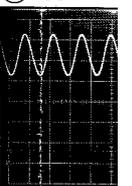
2V/DIV, 20μS/DIV

④① X2

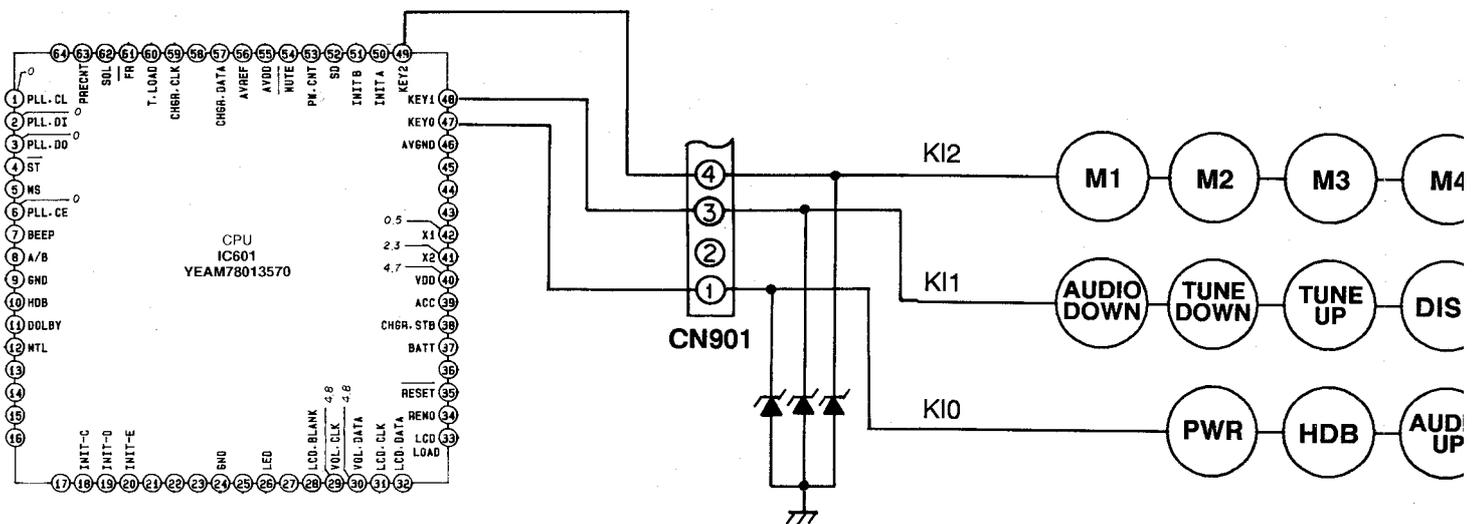


2V/DIV, 50nS/DIV

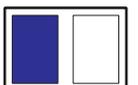
④② X1



2V/DIV, 5μS/DIV



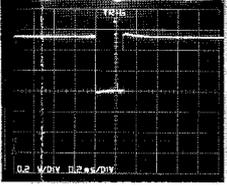
Note 2 (\*) : CQ-R3:



## LSI / BEDIENUNG DES LSI

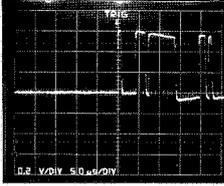
measured by using ten times (×10) probe.

② PLL. DI



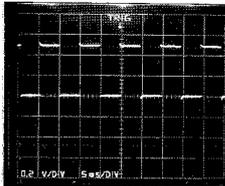
2V/DIV, 0.2mS/DIV

③ PLL. DO



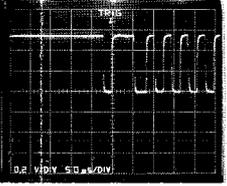
2V/DIV, 50μS/DIV

⑩ SEG38



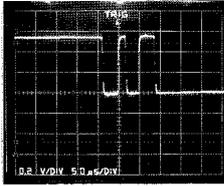
2V/DIV, 5mS/DIV

⑲ VOL. CK



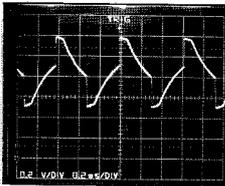
2V/DIV, 50μS/DIV

⑳ VOL. DATA



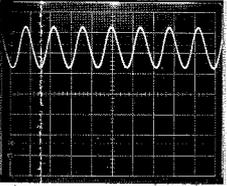
2V/DIV, 50μS/DIV

⑮ OSC IN



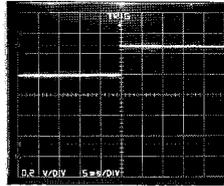
2V/DIV, 0.2mS/DIV

④② XI



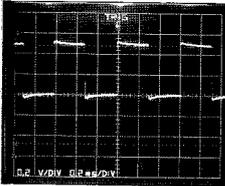
2V/DIV, 50nS/DIV

④⑦ KEYO



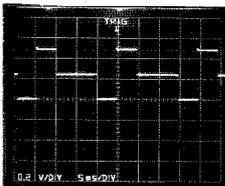
2V/DIV, 5mS/DIV

⑰ OSC-R



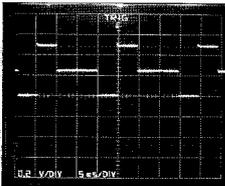
2V/DIV, 0.2mS/DIV

⑳ COM A

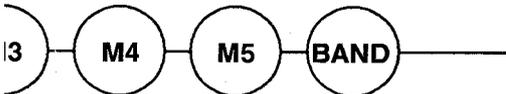


2V/DIV, 5mS/DIV

㉓ COM B



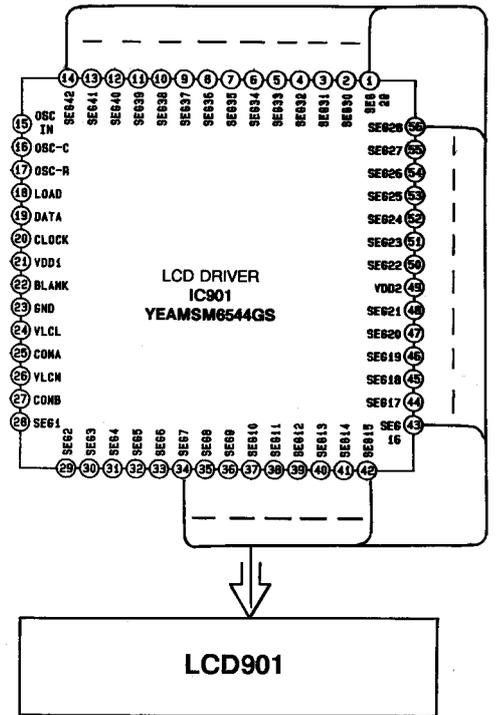
2V/DIV, 5mS/DIV



: CQ-R35VEG/LEE only

## ■ IC901 YEAMSM6544GS

Pin No.	Port	Description	I/O	Vol. (V)
1-14	SEG29-42	LCD segment	O	2.3
15	OSC IN	CR oscillator	-	2.2
16	OSC-C	CR oscillator	-	2.3
17	OSC-R	CR oscillator	-	2.3
18	LOAD	LCD data loading	I	0
19	DATA	LCD data	I	4.6
20	CLOCK	LCD clock	I	0
21	VDD1	+5V power supply	-	4.7
22	BLANK	LCD blank	I	0
23	GND	Ground	-	0
24	VLCL	LCD drive level	-	0
25	COM A	LCD common	O	2.3
26	VLCM	LCD drive level	-	2.2
27	COM B	LCD common	O	2.3
28-56	SEG1-28	LCD segment	O	2.3



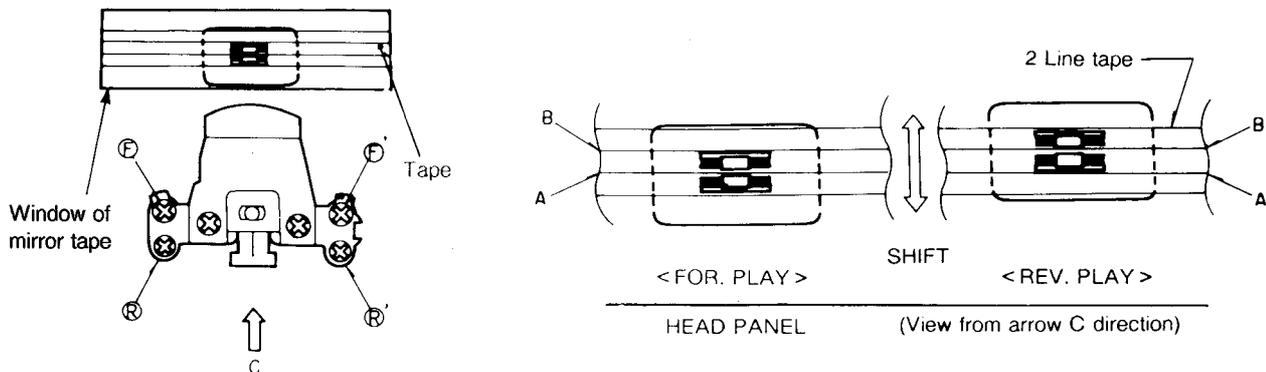
## ALIGNMENT INSTRUCTIONS

- Power Supply Voltage : DC 14.4V
- Output Impedance :  $4\Omega$
- 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.

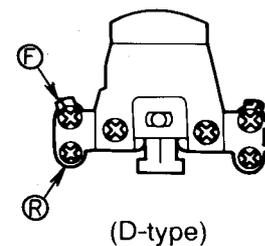
### 1. HEAD HEIGHT ALIGNMENT

- 2-Line Tapa ( Mirror tape) → A-BEX SCC-1659
- At forward play mode, adjust  $\textcircled{F}$  and  $\textcircled{F}'$  screws so that A-line on the mirror tape runs on the center of head shield plate.
- At reverse play mode, adjust  $\textcircled{R}$  and  $\textcircled{R}'$  screws so that B-line runs on the center of head shield plate.
- Then, again at forward play mode, check if or not A-line runs on the center. If not, re-adjust  $\textcircled{F}$  and  $\textcircled{F}'$  screws under the same way as the above.



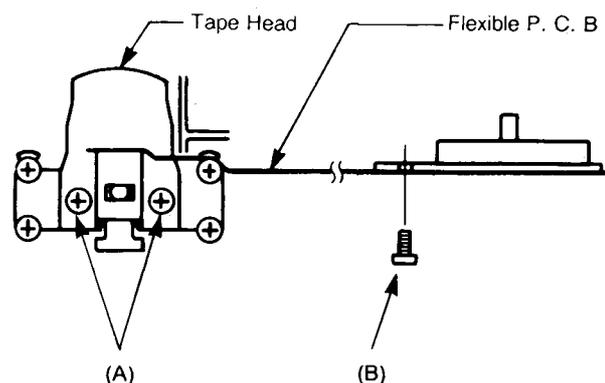
### 2. HEAD AZIMUTH ALIGNMENT

- Test tape is TCC-153.
- If you do not have a test tape, use a tape whose recording level is than 6 kHz for head adjustment. After the above adjustment apply bonding agent to the adjustment screw.
- At forward play mode, adjust  $\textcircled{F}$  screw only so that speaker terminal level shows max value.
- At reverse play mode, adjust  $\textcircled{R}$  screw only so that speaker terminal level shows max value.
- Then, again at forward play mode, check if or not speaker terminal level still shows max value.



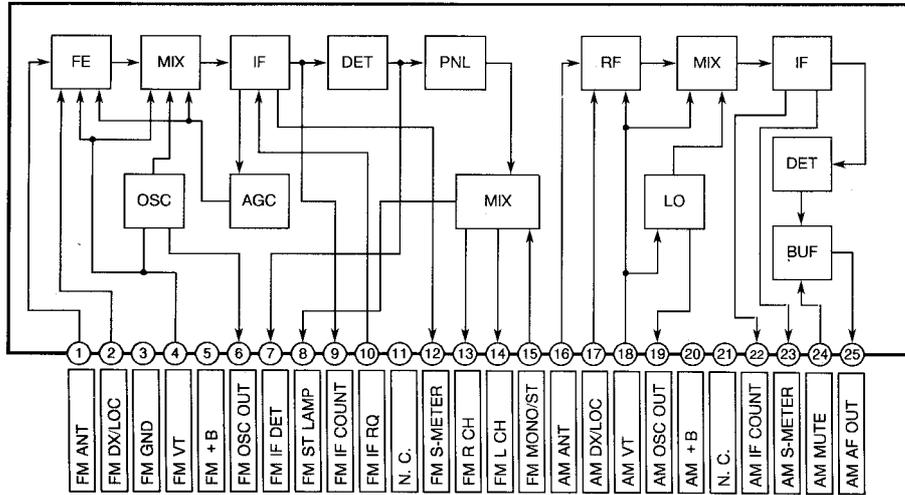
### HEAD REPLACEMENT

- Remove the two screws (A) and one screw (B).
- Remove the tape head.

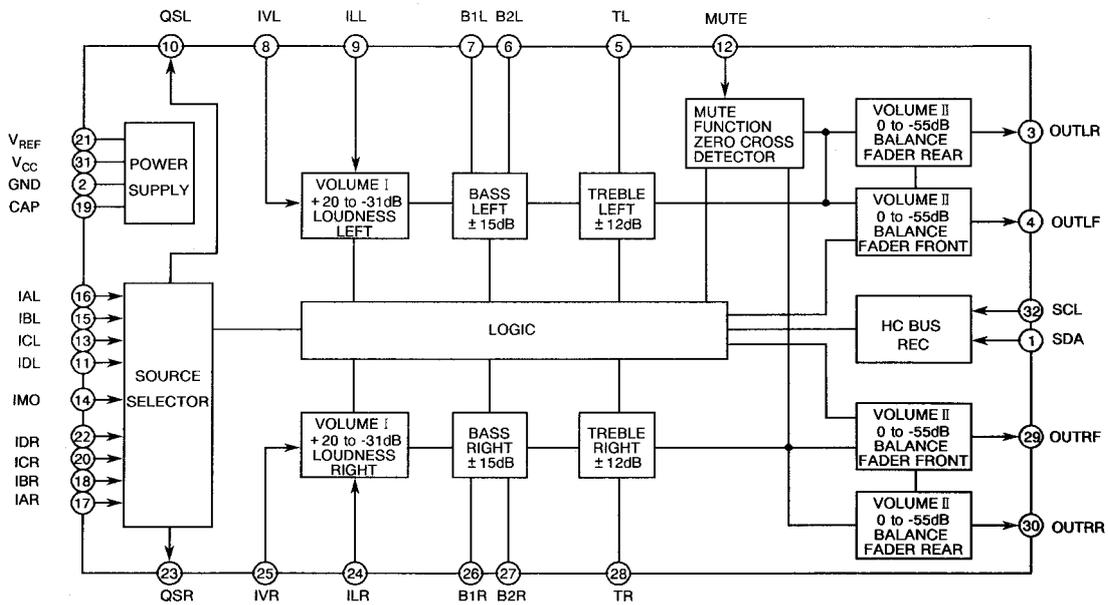


## PACKAGE AND IC BLOCK DIAGRAM

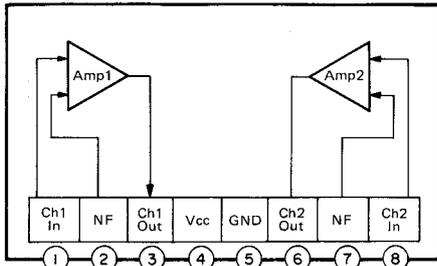
### ● PA51 YEAU03SMX02



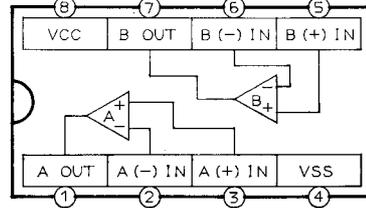
### ● IC231 YEAMTEA6320



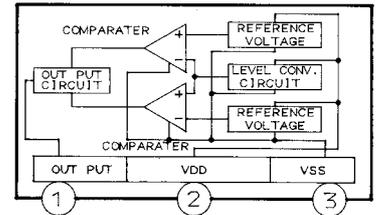
● IC201 YEAMLA3161



● IC251 YEAMUPC4570C

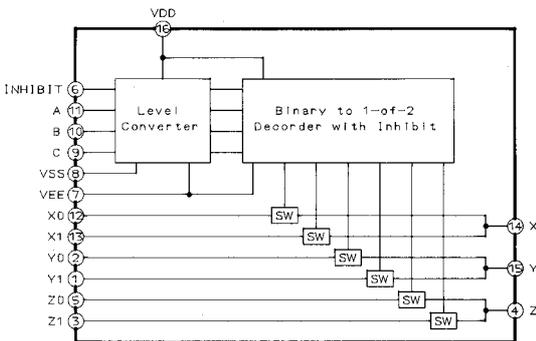


● IC502 YEAMM5218AP

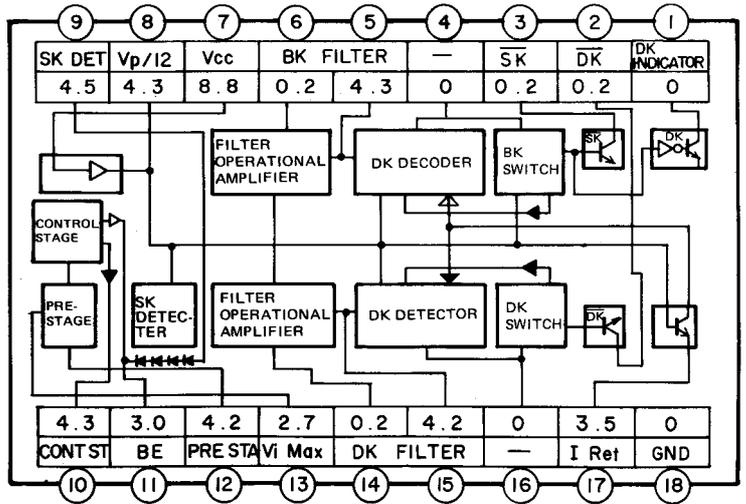


● IC602 MN1280Q

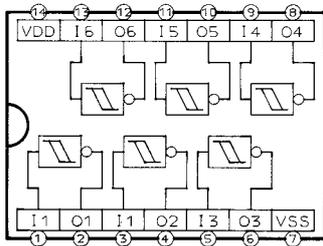
● IC252 YEAMPD4053B



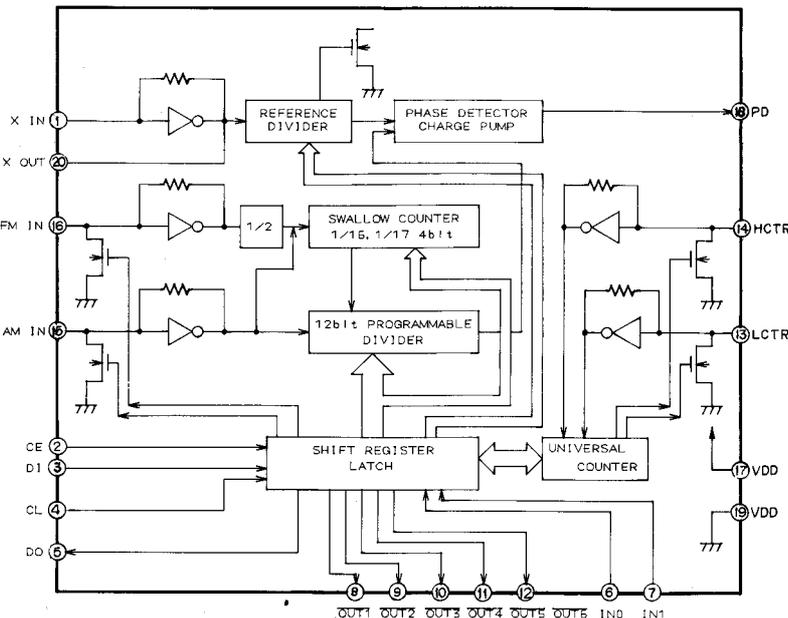
● IC501 YEAMTDA1579



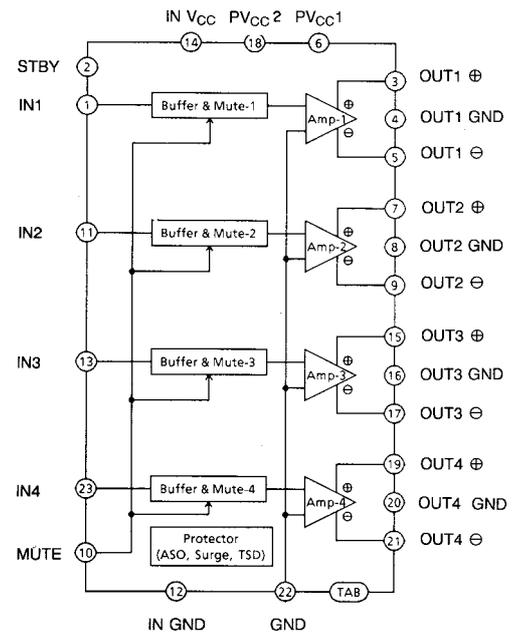
● IC671 MN4584B



● IC401 YEAMLC7216M



● IC271 YEAMHA13151



**Replacement Parts List**  
**Models NO. CQ-R30VEG/LEE/GLEE**

**NOTES :**

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

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
<b>ICs &amp; TRANSISTORS</b>					
<b>MAIN BLOCK</b>					
[E2481]					
IC201	YEAMLA3161		IC	1	
IC231	YEAMTEA6320		IC	1	
IC251	YEAMUPC4570C		IC	1	
IC252	YEAMPD4053B		IC	1	
IC271	YEAMHA13151		IC	1	
IC401	YEAMLC7216M		IC	1	
IC501	YEAMTDA1579		IC	1	CQ-R30VEG only
IC502	YEAMM5218AP		IC	1	CQ-R30VEG only
IC601	YEAM78013570		IC	1	
IC602	MN1280Q		IC	1	
PA51	YEAU03SMX02		Electronic Tuner	1	
Q201	YEANDTC144ST		Transistor	1	
Q261, 262	YEANDTC323ST		Transistor	2	
Q301	YEANDTC144ST		Transistor	1	
Q361, 362	YEANDTC323ST		Transistor	2	
Q401	YEAN2SK583		Transistor	1	
Q701	2SB1417TA		Transistor	1	
Q702	YEAND2144STW		Transistor	1	
Q703, 704	2SD2139TA		Transistor	2	
Q705, 706	YEAND1859T		Transistor	2	
Q707, 708	YEANB123YST		Transistor	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
Q710	YEANB123YST		Transistor	1	
Q711	YEANDTA144ST		Transistor	1	
Q712, 713	YEANC114YST		Transistor	2	
Q714	YEANBB1A4MT		Transistor	1	
Q715	YEANDTA144ST		Transistor	1	
Q716	YEANBN1L3ZT		Transistor	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
IC901	YEAMSM6544GS		IC	1	
<b>DIODES</b>					
<b>MAIN BLOCK</b>					
[E5995]					
D51, 52	MA165TA		Diode	2	
D251	MA165TA		Diode	1	
D271 to 274	YEAD11ES2T		Diode	4	
D371 to 373	YEAD11ES2T		Diode	3	
D374	YEADDSM1A2T7		Diode	1	
D601	LN25RP		LED	1	
D606	MA723TA		Diode	1	
D701	YEADDSA3A2		Diode	1	
D702, 703	MA165TA		Diode	2	
D705, 706	YEADRD68JS2T		Diode	2	
D707	YEAD11ES2T		Diode	1	
D708	YEADRD56JB3		Diode	1	
D710	YEADRD91EB2T		Diode	1	
D711	YEAD11ES2T		Diode	1	
D712	YEADRD91EB2T		Diode	1	
D713	YEADRD56JB3		Diode	1	
D714	MA4100LM		Diode	1	
D715 to 717	MA165TA		Diode	3	

CQ-R30VEG/LEE/GLEE

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
D752	MA4051LMTA		Diode	1	
R704	YEADDSM1A2T7		Diode	1	
Z701	ERZC07DK470		ZNR	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
D901	LN01801RC5TA		LED	1	
D902 to 909	MA8056LMHTX		Diode	8	
<b>CAPACITORS</b>					
<b>MAIN BLOCK</b>					
[E2481]					
C52 to 55	YEE05Y103N		Ceramic, 0.01MFD 50WV	4	
C58	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C59	ECEA1AU101B		Electrolytic, 100MFD 10WV	1	
C60	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C64	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C65	YEU05B101K		Ceramic, 100PF 50WV	1	
C69	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C201	YEE05X122M		Ceramic, 0.0012MFD 16WV	1	
C202	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C203	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1	
C204	ECQB1H273JF4		Plastic Film, 0.027MFD 50WV	1	
C205	ECQB1H183JF4		Plastic Film, 0.018MFD 50WV	1	
C215	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C232, 233	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C235	ECEA1HSNR22I		Electrolytic, 0.22MFD 50WV	1	
C236	ECQB1H333JF4		Plastic Film, 0.033MFD 50WV	1	
C237	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C239, 240	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C241	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C242	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C243	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C244	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C251	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C252	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C253	ECQB1H123JF4		Plastic Film, 0.012MFD 50WV	1	
C254	ECEA1HKR33I		Electrolytic, 0.33MFD 50WV	1	
C255	ECEA0JK101B		Electrolytic, 100MFD 6.3WV	1	
C258	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C271, 272	YEE05X272M		Ceramic, 0.0027MFD 16WV	2	
C273 to 276	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	4	
C290	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C291	ECA1CM472		Electrolytic, 4700MFD 16WV	1	
C293	ECEA1AKS330I		Electrolytic, 33MFD 10WV	1	
C294	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C295	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C301	YEE05X122M		Ceramic, 0.0012MFD 16WV	1	
C302	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C303	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1	
C304	ECQB1H273JF4		Plastic Film, 0.027MFD 50WV	1	
C305	ECQB1H183JF4		Plastic Film, 0.018MFD 50WV	1	
C332, 333	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C335	ECEA1HSNR22I		Electrolytic, 0.22MFD 50WV	1	
C336	ECQB1H333JF4		Plastic Film, 0.033MFD 50WV	1	
C337	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C339, 340	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C351, 352	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	2	
C353	ECQB1H123JF4		Plastic Film, 0.012MFD 50WV	1	
C354	ECEA1HKR33B		Electrolytic, 0.33MFD 50WV	1	
C355	ECEA0JK101B		Electrolytic, 100MFD 6.3WV	1	
C371, 372	YEE05X272M		Ceramic, 0.0027MFD 16WV	2	
C373 to 376	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	4	
C401	YEU05SL180J		Ceramic, 18PF 50WV	1	
C402	YEU05SL150J		Ceramic, 15PF 50WV	1	
C403	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C404	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C405	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C406	ECEA1VKS4R7I		Electrolytic, 4.7MFD 35WV	1	
C501, 502	ECQV1H683JM2		Plastic Film, 0.068FD 50WV	2	CQ-R30VEG only
C503	ECEA1EKS4R7B		Electrolytic, 4.7MFD 25WV	1	CQ-R30VEG only
C504, 505	ECQV1H683JM2		Plastic Film, 0.068FD 50WV	2	CQ-R30VEG only
C506	ECQV1H563JM2		Plastic Film, 0.056MFD 50WV	1	CQ-R30VEG only
C507	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	CQ-R30VEG only
C508	ECQV1H563JM2		Plastic Film, 0.056MFD 50WV	1	CQ-R30VEG only
C509, 510	ECQV1H683JM2		Plastic Film, 0.068FD 50WV	2	CQ-R30VEG only
C511, 521	YEE05Y103N		Ceramic, 0.01MFD 50WV	2	CQ-R30VEG only
C601, 602	YEU05SL150J		Ceramic, 15PF 50WV	2	
C605	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C615	YEU05B101K		Ceramic, 100PF 50WV	1	
C616	YEU05SL680J		Ceramic, 68PF 50WV	1	
C617	EES5R5H473		Electrolytic, 0.047F 5.5WV	1	
C618	ECEA0JKS331I		Electrolytic, 330MFD 6.3WV	1	
C619	ECEA0JKS101I		Electrolytic, 100MFD 6.3WV	1	
C620	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C621	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C622	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C632	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C650	YECCR1H101KM		Ceramic, 100PF 50WV	1	
C701, 702	YECKR05103Z		Ceramic, 0.013MFD 50WV	2	
C703	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1	
C704	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C707	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C708	ECEA1CU331B		Electrolytic, 330MFD 16WV	1	
C709	ECEA1AU101B		Electrolytic, 100MFD 10WV	1	
C710, 711	ECEA1CKS100I		Electrolytic, 10MFD 16WV	2	
C712	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C720	YECKR05103Z		Ceramic, 0.013MFD 50WV	1	
C730	ECEA1CKS220I		Electrolytic, 22MFD 16WV	1	
C751	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C753, 754	YEE05Y103N		Ceramic, 0.01MFD 50WV	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CS701	YECCL55S222T		Noise Filter, 2200PF 100WV	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
C902, 903	YECUS1H103KX		Ceramic, 0.01MFD 50WV	2	
C904	YECUV1H104KX		Ceramic, 0.1MFD 50WV	1	
C905, 906	YECUS1C104KX		Ceramic, 0.1MFD 16WV	2	
<b>RESISTORS</b>					
<b>MAIN BLOCK</b>					
[E2481]					
R51	ERDS2TJ101		Carbon, 100 ohms 0.25W	1	
R53	ERDS2TJ393		Carbon, 39k ohms 0.25W	1	
R55	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R62	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R201	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
R202	ERDS2TJ270		Carbon, 27 ohms 0.25W	1	
R203	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R204	ERDS2TJ124		Carbon, 120k ohms 0.25W	1	
R205	ERDS2TJ332		Carbon, 3.3k ohms 0.25W	1	
R206	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R207	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R241	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R242	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
R245, 246	ERDS2TJ181		Carbon, 180 ohms 0.25W	2	
R251	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R252	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R253	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
R254	ERDS2TJ662		Carbon, 5.6k ohms 0.25W	1	
R255	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1	
R256 to 258	ERDS2TJ103		Carbon, 10k ohms 0.25W	3	
R271, 272	ERD25TJ101		Carbon, 100 ohms 0.25W	2	
R273, 274	ERD25TJ272		Carbon, 2.7k ohms 0.25W	2	

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MODELS CQ-R30VEG/LEE/GLEE

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks	Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R275	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1		R508	ERDS2TJ393		Carbon, 39k ohms 0.25W	1	CQ-R30VEG only
R276	ERD25TJ2R2		Carbon, 2.2 ohms 0.25W	1		R509	ERDS2TJ224		Carbon, 220k ohms 0.25W	1	CQ-R30VEG only
R277, 278	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	2		R510	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	CQ-R30VEG only
R290	ERD25TJ682		Carbon, 6.8k ohms 0.25W	1		R512	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	CQ-R30VEG only
R291	ERDS2TJ102		Carbon, 1k ohms 0.25W	1		R516	ERDS2TJ184		Carbon, 180k ohms 0.25W	1	CQ-R30VEG only
R301	ERDS2TJ333		Carbon, 33k ohms 0.25W	1		R517	ERDS2TJ183		Carbon, 18k ohms 0.25W	1	CQ-R30VEG only
R302	ERDS2TJ270		Carbon, 27 ohms 0.25W	1		R522, 523	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R303	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1		R601	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	CQ-R30LEE/GLEE only
R304	ERDS2TJ124		Carbon, 120k ohms 0.25W	1		R602	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-R30LEE/GLEE only
R305	ERDS2TJ332		Carbon, 3.3k ohms 0.25W	1		R605 to 609	ERDS2TJ102		Carbon, 1k ohms 0.25W	5	
R306	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1		R611, 612	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R307	ERDS2TJ104		Carbon, 100k ohms 0.25W	1		R614, 615	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R345, 346	ERDS2TJ181		Carbon, 180 ohms 0.25W	2		R617	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R351	ERDS2TJ153		Carbon, 15k ohms 0.25W	1		R620	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R352	ERDS2TJ103		Carbon, 10k ohms 0.25W	1		R621	ERDS2TJ101		Carbon, 100 ohms 0.25W	1	
R353	ERDS2TJ333		Carbon, 33k ohms 0.25W	1		R623, 624	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R354	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1		R626	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R355	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1		R627, 628	ERD25TJ103		Carbon, 10k ohms 0.25W	2	
R356 to 358	ERDS2TJ103		Carbon, 10k ohms 0.25W	3		R630, 631	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R371, 372	ERD25TJ101		Carbon, 100 ohms 0.25W	2		R632	ERDS2FJ470		Carbon, 47 ohms 0.25W	1	
R373, 374	ERDS2TJ272		Carbon, 2.7k OHMS 0.25W	2		R633, 634	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R375, 376	ERD25TJ2R2		Carbon, 2.2 ohms 0.25W	2		R635, 636	ERDS2TJ682		Carbon, 6.8k ohms 0.25W	2	
R377, 378	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	2		R637	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R401, 402	ERDS2TJ152		Carbon, 1.5k ohms 0.25W	2		R638	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R403	ERD25TJ152		Carbon, 1.5k ohms 0.25W	1		R640, 641	ERD25TJ473		Carbon, 47k ohms 0.25W	2	
R404, 405	ERDS2TJ103		Carbon, 10k ohms 0.25W	2		R642, 643	ERDS2TJ473		Carbon, 47k ohms 0.25W	2	
R406	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1		R646	ERD25TJ473		Carbon, 47k ohms 0.25W	1	
R501	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-R30VEG only	R650	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R502	ERDS2TJ394		Carbon, 390k ohms 0.25W	1	CQ-R30VEG only	R701	ERDS1FJ681		Carbon, 680 ohms 0.5W	1	
R503	ERDS2TJ563		Carbon, 56k ohms 0.25W	1	CQ-R30VEG only	R702	ERD25FJ3R3T		Carbon, 3.3 ohms 0.25W	1	
R504	ERDS2TJ683		Carbon, 68k ohms 0.25W	1	CQ-R30VEG only	R703	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R505	EROS2TKF5110		Metal Coat, 510 ohms 0.25W	1	CQ-R30VEG only	R706	ERDS2TJ221		Carbon, 220 ohms 0.25W	1	
R506	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	CQ-R30VEG only	R707	ERDS2FJ470		Carbon, 47 ohms 0.25W	1	
R507	EROS2TKF6813		Metal Coat, 680 ohms 0.25W	1	CQ-R30VEG only	R708	ERDS1FJ2R7		Carbon, 2.7 ohms 0.5W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R709	ERDS2FJ3R3		Carbon, 3.3 ohms 0.25W	1	
R710	ERDS2FJ470		Carbon, 47 ohms 0.25W	1	
R711	ERDS2TJ181		Carbon, 180 ohms 0.25W	1	
R712	ERDS2TJ221		Carbon, 220 ohms 0.25W	1	
R714	ERDS2TJ682		Carbon, 6.8k ohms 0.25W	1	
R716	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R718	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R719	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R720	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R721	ERD25TJ332		Carbon, 3.3k ohms 0.25W	1	
R722	ERDS2TJ332		Carbon, 3.3k ohms 0.25W	1	
R723	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R724	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R725	ERDS2TJ471		Carbon, 470 ohms 0.25W	1	
R730	ERD25TJ391		Carbon, 390 ohms 0.25W	1	
R752	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R999	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
J118	ERDS2TJ392		Carbon, 3.9k ohms 0.25W	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
R901	ERJ8GEYJ471V		Metal Coat, 470 ohms 0.13W	1	
R902	ERJ6GEYJ223		Metal Coat, 22k ohms 0.1W	1	
R903	ERJ6GEYJ473		Metal Coat, 47k ohms 0.1W	1	
R904	ERJ6GEYJ562		Metal Coat, 5.6k ohms 0.1W	1	
R905, 906	ERJ6GEYJ102		Metal Coat, 1k ohms 0.1W	2	
R907	ERJ6GEYJ223		Metal Coat, 22k ohms 0.1W	1	
R908	ERJ6GEYJ102		Metal Coat, 1k ohms 0.1W	1	
R909	ERJ6GEYJ100		Metal Coat, 10 ohms 0.1W	1	
R910	ERJ6GEYJ152		Metal Coat, 1.5k ohms 0.1W	1	
R911	ERJ6GEYJ182		Metal Coat, 1.8k ohms 0.1W	1	
R912	ERJ6GEYJ222		Metal Coat, 2.2k ohms 0.1W	1	
R913	ERJ6GEYJ472		Metal Coat, 4.7k ohms 0.1W	1	
R914, 915	ERJ6GEYJ182		Metal Coat, 1.8k ohms 0.1W	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R916	ERJ6GEYJ332		Metal Coat, 3.3k ohms 0.1W	1	
R918, 919	ERJ6GEYJ182		Metal Coat, 1.8k ohms 0.1W	2	
R920	ERJ6GEYJ332		Metal Coat, 3.3k ohms 0.1W	1	
R921	ERJ6GEYJ472		Metal Coat, 4.7k ohms 0.1W	1	
R922	ERJ6GEYJ153		Metal Coat, 15k ohms 0.1W	1	
R923, 924	ERJ6GEYJ103		Metal Coat, 10k ohms 0.1W	2	
R925	ERJ6GEYJ473		Metal Coat, 47k ohms 0.1W	1	
R926, 927	ERJ6GEYJ102		Metal Coat, 1k ohms 0.1W	2	
R930	ERJ6GEYJ100		Metal Coat, 10 ohms 0.1W	1	
R932	ERJ6GEYJ5R6		Metal Coat, 5.6 ohms 0.1W	1	CQ-R30LEE/VEG
R932	ERJ6GEY0R00		Metal Coat, 0 ohm 0.1W	1	CQ-R30GLEE
<b>CONNECTORS</b>					
<b>MAIN BLOCK</b>					
[E2481]					
CN201	YEAEM2005S		Connector, 5P	1	
CN251	YEAETSCP07X		Connector, 7P	1	
CN501	YEAETSCP05X		Connector, 5P	1	CQ-R30VEG only
CN701	YEA012194		Connector, 16P	1	
CN751	YEA0708MXN1		Connector, 7P	1	
CP251	YEAETSCP07P		Connector, 7P	1	
CP501	YEAETSCP05P		Connector, 5P	1	CQ-R30VEG only
CP601	YEAETJCA11		Connector, 11P	1	
CP901	YEA012298		Connector, 12P	1	
CNP1	YEA011402		Connector, 5P	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
CN901	YEA012282		Connector, 12P	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
<b>SWITCHES</b>					
SW901 to 914	EVQ21505R		Switch	14	
<b>CRYSTALS</b>					
XL401	YEXL49U072TA		Crystal OSC	1	
XL601	YEXL49U838TA		Crystal OSC	1	
<b>COILS</b>					
L50	YELT02C330KT		Coil	1	
L501	YELL07S175		Coil	1	CQ-R30VEG only
L601	YELT02CR22KT		Coil	1	
L701	YETQ026F127		Coil	1	
<b>LCDs</b>					
LCD901	YEXDCM1102		LCD, CQ-R30LEE/VEG	1	
LCD901	YEXDCM1112		LCD, CQ-R30GLEE	1	
<b>THERMISTOR</b>					
PT701	YERT6AR4R7MT		Thermistor	1	
<b>PRINTINGS</b>					
	YEFM282156		Instruction Book, CQ-R30LEE	1	
	YEFM282174		Instruction Book, CQ-R30VEG	1	
	YEFM282214		Instruction Book, CQ-R30GLEE	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
<b>INSTALLATION PARTS</b>					
	YEFX0213377		Bracket	1	
	XNG5AFX		Nut, 5mm	1	
	XVG5C25FX		Screw, 5mm x 5mm	1	
	YEJV01060		Screw, 5mm x 8mm	1	
	XWA5BFX		Washer, 5mm	1	
	XWC5CFX		Washer, 5mm	1	
	XWG5FX		Washer, 5mm	1	
	YEFX0213629		Mounting Collar	1	
	YEFA131100		Removable Face Plate Case	1	
	YEAJ01371A		Power Cord	1	
<b>MISCELLANEOUS</b>					
PL901, 902	YEALFTAN003		Pilot Lamp	2	
PL903	YEAL01184		Pilot Lamp	1	
Z51	YEAL02010T		Neon Lamp	1	
F1	XBA1C100NS1		Fuse, 10A	1	
F2	XBB1C10NR1		Fuse, 1A	1	
ANT51	YEA10060		Antenna Receptacle	1	
1 (1-B)	YEFA05594		Bottom Cover	1	
2 (4-B)	YEFA031354		Upper Cover	1	
3 (2-A)	YEFA131107		Cover	1	
4 (2-B)	YEFA07333		Front Plate	1	
5 (3-C)	YEFA08401AK		Rear Plate	1	
6 (2-C)	YEFA09453		Side Plate Ass'y	1	
7 (2-B)	YEFC024201		Escutcheon	1	
8 (1-A)	YEFC024235		Escutcheon, Detachable	1	CQ-R30VEG
	YEFC024202				CQ-R30LEE
	YEFC024299				CQ-R30GLEE
9 (3-B)	YEFF01773		Heat Sink	1	
10 (1-B)	YEFX0213648A		Bracket for IC271	1	



**Replacement Parts List**  
**Models NO. CQ-R35VEG/LEE**

**NOTES :**

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

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
<b>ICs &amp; TRANSISTORS</b>					
<b>MAIN BLOCK</b>					
[E2481]					
PA51	YEAU03SMX02		Electronic Tuner	1	
IC201	YEAMLA3161		IC	1	
IC231	YEAMTEA6320		IC	1	
IC251	YEAMUPC4570C		IC	1	
IC252	YEAMPD4053B		IC	1	
IC271	YEAMHA13151		IC	1	
IC401	YEAMLC7216M		IC	1	
IC501	YEAMTDA1579		IC	1	CQ-R35VEG only
IC502	YEAMM5218AP		IC	1	CQ-R35VEG only
IC601	YEAM78013570		IC	1	
IC602	MN1280Q		IC	1	
IC671	MN4584B		IC	1	
Q201	YEANDTC144ST		Transistor	1	
Q261, 262	YEANDTC323ST		Transistor	2	
Q301	YEANDTC144ST		Transistor	1	
Q361, 362	YEANDTC323ST		Transistor	2	
Q401	YEAN2SK583		Transistor	1	
Q701	2SB948APQ		Transistor	1	
Q702	YEAND2144STW		Transistor	1	
Q703, 704	2SD2139TA		Transistor	2	
Q705, 706	YEAND1859T		Transistor	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
Q707, 708	YEANB123YST		Transistor	2	
Q710	YEANB123YST		Transistor	1	
Q711	YEANDTA144ST		Transistor	1	
Q712, 713	YEANC114YST		Transistor	2	
Q714	YEANBB1A4MT		Transistor	1	
Q715	YEANDTA144ST		Transistor	1	
Q716	YEANBN1L3ZT		Transistor	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
IC901	YEAMSM6544GS		IC	1	
<b>DIODEs</b>					
<b>MAIN BLOCK</b>					
[E2481]					
D51, 52	MA165TA		Diode	2	
D251	MA165TA		Diode	1	
D271 to 274	YEAD11ES2T		Diode	4	
D371 to 373	YEAD11ES2T		Diode	3	
D374	YEADDSM1A2T7		Diode	1	
D601	LN25RP		LED	1	
D606	MA723TA		Diode	1	
D701	YEADDSA3A2		Diode	1	
D702, 703	MA165TA		Diode	2	
D705, 706	YEADRD68JS2T		Diode	2	
D707	YEAD11ES2T		Diode	1	
D708	YEADRD56JB3		Diode	1	
D710	YEADRD91EB2T		Diode	1	
D711	YEAD11ES2T		Diode	1	
D712	YEADRD91EB2T		Diode	1	
D713	YEADRD56JB3		Diode	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
D714	MA4100LM		Diode	1	
D715 to 717	MA165TA		Diode	3	
D752	MA4051LMTA		Diode	1	
R704	YEADDSM1A2T7		Diode	1	
Z701	ERZC07DK470		ZNR	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
D901	LN01801RC5TA		LED	1	
D902 to 909	MA8056LMHTX		Diode	8	
<b>CAPACITORS</b>					
<b>MAIN BLOCK</b>					
[E2481]					
C52 to 55	YEE05Y103N		Ceramic, 0.01MFD 50WV	4	
C58	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C59	ECEA1AU101B		Electrolytic, 100MFD 10WV	1	
C60	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C64	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C65	YEU05B101K		Ceramic, 100PF 50WV	1	
C69	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C201	YEE05X122M		Ceramic, 0.0012MFD 16WV	1	
C202	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C203	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1	
C204	ECQB1H273JF4		Plastic Film, 0.027MFD 50WV	1	
C205	ECQB1H183JF4		Plastic Film, 0.018MFD 50WV	1	
C215	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C220	YEU05B101K		Ceramic, 100PF 50WV	1	
C231	ECEA1CKS100B		Electrolytic, 10MFD 16WV	1	
C232, 233	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C235	ECEA1HSNR22I		Electrolytic, 0.22MFD 50WV	1	
C236	ECQB1H333JF4		Plastic Film, 0.033MFD 50WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C237	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C239, 240	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C241	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C242	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1	
C243	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C244	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C251, 252	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	2	
C253	ECQB1H123JF4		Plastic Film, 0.012MFD 50WV	1	
C254	ECEA1HKS3R3I		Electrolytic, 0.33MFD 50WV	1	
C255	ECEA0JK101B		Electrolytic, 100MFD 6.3WV	1	
C258	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C271, 272	YEE05X272M		Ceramic, 0.0027MFD 16WV	2	
C273 to 276	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	4	
C290	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	1	
C291	ECA1CM472		Electrolytic, 4700MFD 16WV	1	
C293	ECEA1AKS330I		Electrolytic, 33MFD 10WV	1	
C294	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C295	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C301	YEE05X122M		Ceramic, 0.0012MFD 16WV	1	
C302	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C303	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1	
C304	ECQB1H273JF4		Plastic Film, 0.027MFD 50WV	1	
C305	ECQB1H183JF4		Plastic Film, 0.018MFD 50WV	1	
C320	YEU05B101K		Ceramic, 100PF 50WV	1	
C331	ECEA1CKS100B		Electrolytic, 10MFD 16WV	1	
C332, 333	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C335	ECEA1HSNR22I		Electrolytic, 0.22MFD 50WV	1	
C336	ECQB1H333JF4		Plastic Film, 0.033MFD 50WV	1	
C337	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C339, 340	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C351, 352	ECQV1H104JM2		Plastic Film, 0.1MFD 50WV	2	
C353	ECQB1H123JF4		Plastic Film, 0.012MFD 50WV	1	
C354	ECEA1HKS3R3B		Electrolytic, 0.33MFD 50WV	1	
C355	ECEA0JK101B		Electrolytic, 100MFD 6.3WV	1	



Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks	Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R241	ERDS2TJ102		Carbon, 1k ohms 0.25W	1		R371, 372	ERD25TJ101		Carbon, 100 ohms 0.25W	2	
R242	ERDS2TJ333		Carbon, 33k ohms 0.25W	1		R373, 374	ERDS2TJ272		Carbon, 2.7K OHMS 0.25W	2	
R245, 246	ERDS2TJ181		Carbon, 180 ohms 0.25W	2		R375, 376	ERD25TJ2R2		Carbon, 2.2 ohms 0.25W	2	
R251	ERDS2TJ153		Carbon, 15k ohms 0.25W	1		R377, 378	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	2	
R252	ERDS2TJ103		Carbon, 10k ohms 0.25W	1		R401, 402	ERDS2TJ152		Carbon, 1.5k ohms 0.25W	2	
R253	ERDS2TJ333		Carbon, 33k ohms 0.25W	1		R403	ERD25TJ152		Carbon, 1.5k ohms 0.25W	1	
R254	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1		R404, 405	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R255	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1		R406	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R256 to 258	ERDS2TJ103		Carbon, 10k ohms 0.25W	3		R501	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-R35VEG only
R262	ERDS2TJ561		Carbon, 560 ohms 0.25W	1		R502	ERDS2TJ394		Carbon, 390k ohms 0.25W	1	CQ-R35VEG only
R271, 272	ERD25TJ101		Carbon, 100 ohms 0.25W	2		R503	ERDS2TJ563		Carbon, 56k ohms 0.25W	1	CQ-R35VEG only
R273, 274	ERD25TJ272		Carbon, 2.7k ohms 0.25W	2		R504	ERDS2TJ683		Carbon, 68k ohms 0.25W	1	CQ-R35VEG only
R275	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1		R505	EROS2TKF5110		Metal Coat, 511 ohms 0.25W	1	CQ-R35VEG only
R276	ERD25TJ2R2		Carbon, 2.2 ohms 0.25W	1		R506	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	CQ-R35VEG only
R277, 278	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	2		R507	EROS2TKF6813		Metal Coat, 680 ohms 0.25W	1	CQ-R35VEG only
R290	ERD25TJ682		Carbon, 6.8k ohms 0.25W	1		R508	ERDS2TJ393		Carbon, 39k ohms 0.25W	1	CQ-R35VEG only
R291	ERDS2TJ102		Carbon, 1k ohms 0.25W	1		R509	ERDS2TJ224		Carbon, 220k ohms 0.25W	1	CQ-R35VEG only
R301	ERDS2TJ333		Carbon, 33k ohms 0.25W	1		R510	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	CQ-R35VEG only
R302	ERDS2TJ270		Carbon, 27 ohms 0.25W	1		R512	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	CQ-R35VEG only
R303	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1		R516	ERDS2TJ184		Carbon, 180k ohms 0.25W	1	CQ-R35VEG only
R304	ERDS2TJ124		Carbon, 120k ohms 0.25W	1		R517	ERDS2TJ183		Carbon, 18k ohms 0.25W	1	CQ-R35VEG only
R305	ERDS2TJ332		Carbon, 3.3k ohms 0.25W	1		R522, 523	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R306	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1		R601	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	CQ-R35LEE only
R307	ERDS2TJ104		Carbon, 100k ohms 0.25W	1		R602	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-R35LEE only
R321	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1		R605 to 609	ERDS2TJ102		Carbon, 1k ohms 0.25W	5	
R322	ERDS2TJ332		Carbon, 3.3k ohms 0.25W	1		R611, 612	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R345, 346	ERDS2TJ181		Carbon, 180 ohms 0.25W	2		R614, 615	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	
R351	ERDS2TJ153		Carbon, 15k ohms 0.25W	1		R617	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R352	ERDS2TJ103		Carbon, 10k ohms 0.25W	1		R620	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R353	ERDS2TJ333		Carbon, 33k ohms 0.25W	1		R621	ERDS2TJ101		Carbon, 100 ohms 0.25W	1	
R354	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1		R623, 624	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R355	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1		R626	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R356 to 358	ERDS2TJ103		Carbon, 10k ohms 0.25W	3		R627, 628	ERD25TJ103		Carbon, 10k ohms 0.25W	2	
R362	ERDS2TJ561		Carbon, 560 ohms 0.25W	1		R630, 631	ERDS2TJ102		Carbon, 1k ohms 0.25W	2	



Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
<b>CONNECTORS</b>					
<b>MAIN BLOCK</b>					
[E2481]					
CN201	YEAEM2005S		Connector, 5P	1	
CN251	YEAETSCP07X		Connector, 7P	1	
CN260	YEAEM02165		Connector, 2P RCA	1	
CN501	YEAETSCP05X		Connector, 5P	1	CQ-R35VEG only
CN602	YEAEM012307		Connector, 8P DIN	1	
CN671	YEAETSCP09X		Connector, 9P	1	
CN701	YEAEM012194		Connector, 16P	1	
CN751	YEAEM0708MXN1		Connector, 7P	1	
CP221	YEAEM012242		Connector, 2P RCA Cord	1	
CP251	YEAETSCP07P		Connector, 7P	1	
CP501	YEAETSCP05P		Connector, 5P	1	CQ-R35VEG only
CP601	YEAETJCA11		Connector, 11P	1	
CP671	YEAETSCP09P		Connector, 9P	1	
CP901	YEAEM012298		Connector, 12P	1	
CNP1	YEAEM011402		Connector, 5P	1	
<b>DISPLAY BLOCK</b>					
[E5995]					
CN901	YEAEM012282		Connector, 12P	1	
<b>SWITCHES</b>					
SW901 to 915	EVQ21505R		Switch	15	
<b>CRYSTALS</b>					
XL401	YEXL49U072TA		Crystal OSC	1	
XL601	YEXL49U838TA		Crystal OSC	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
<b>COILS</b>					
J152	YELT02C101KT		Coil	1	
L50	YELT02C330KT		Coil	1	
L501	YELL07S175		Coil	1	CQ-R35VEG only
L601	YELT02CR22KT		Coil	1	
L701	YETQ026F123		Coil	1	
<b>LCD</b>					
LCD901	YEXDCM1102		LCD	1	
<b>THERMISTOR</b>					
PT701	YERT6AR4R7MT		Thermistor	1	
<b>PRINTINGS</b>					
FM4	YEFM282173		Instruction Book, CQ-R35LEE	1	
FM4	YEFM282175		Instruction Book, CQ-R35VEG	1	
<b>INSTALLATION PARTS</b>					
	YEFX0213377		Bracket	1	
	XNG5AFX		Nut, 5mm	1	
	XVG5C25FX		Screw, 5mm x 25mm	1	
	YEJV01060		Screw, 5mm x 8mm	1	
	XWA5BFX		Washer, 5mm	1	
	XWC5CFX		Washer, 5mm	1	
	XWG5FX		Washer, 5mm	1	
	YEFX0213629		Mounting Collar	1	

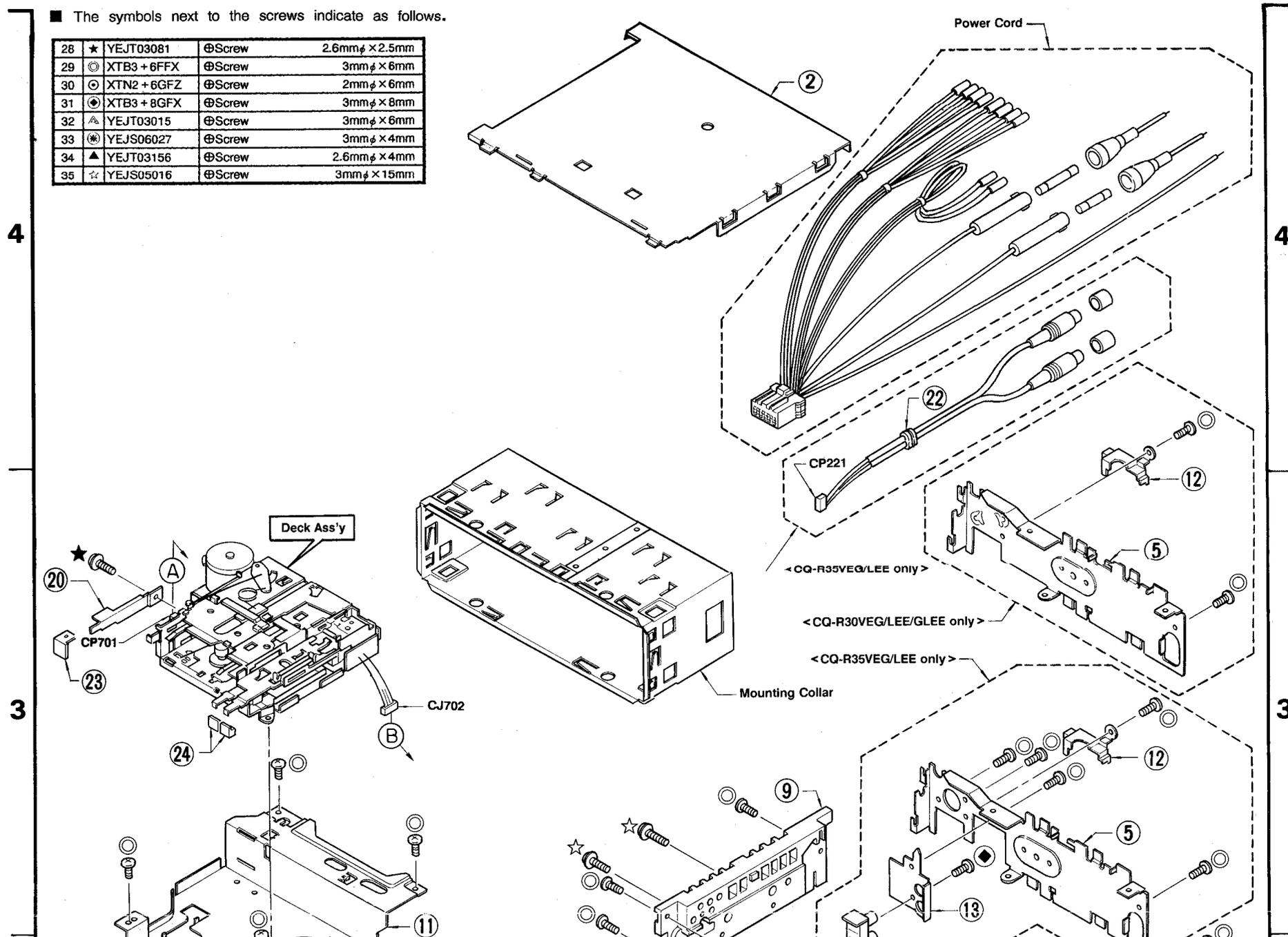


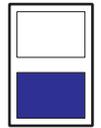
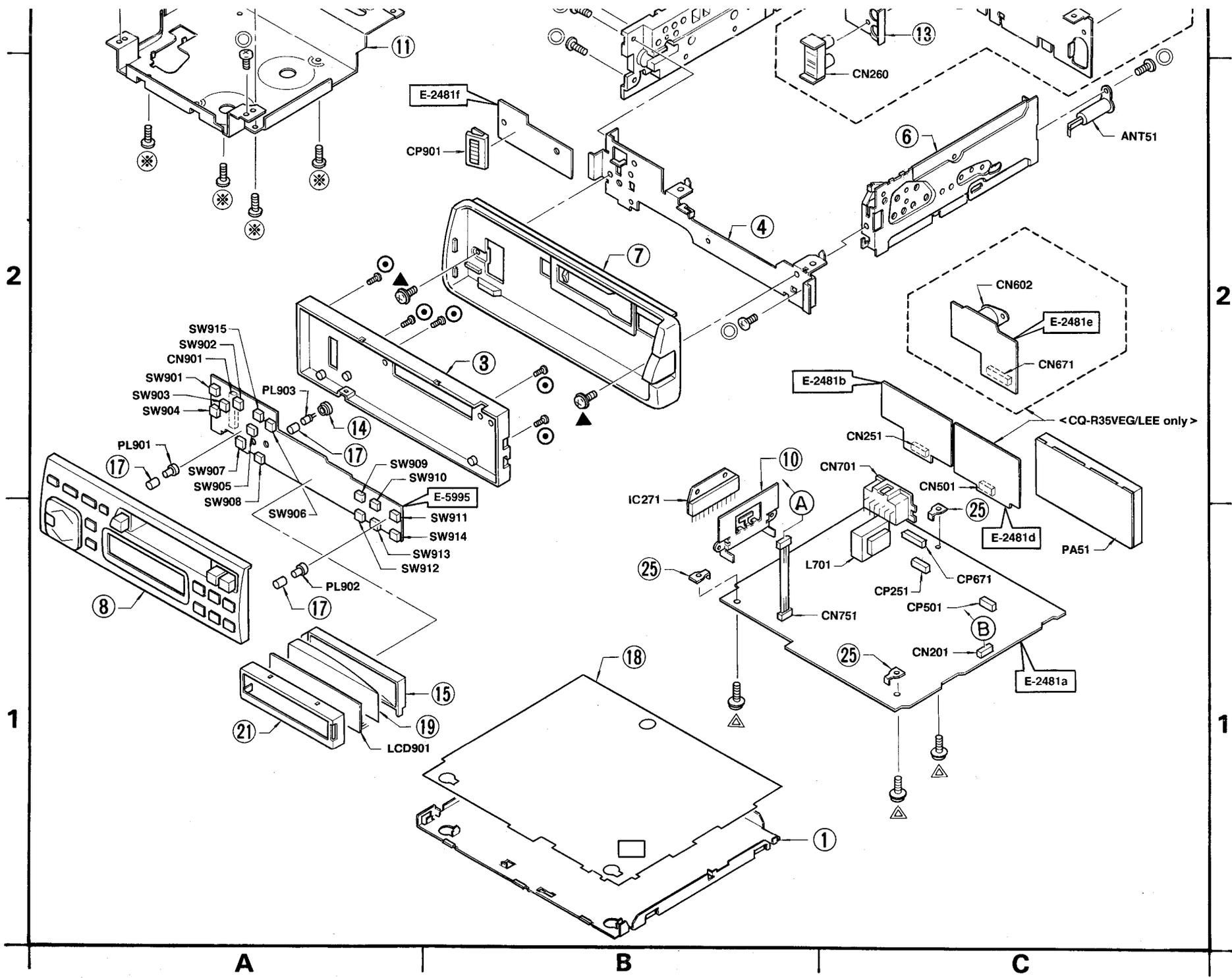
# EXPLODED VIEW (UNIT) / AUFGELOÖTE DARSTELLUNGS (GANZES GERÄT)

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

The symbols next to the screws indicate as follows.

28	★	YEJT03081	⊕Screw	2.6mmφ × 2.5mm
29	⊙	XTB3 + 6FFX	⊕Screw	3mmφ × 6mm
30	⊙	XTN2 + 6GFZ	⊕Screw	2mmφ × 6mm
31	⊕	XTB3 + 8GFX	⊕Screw	3mmφ × 8mm
32	△	YEJT03015	⊕Screw	3mmφ × 6mm
33	⊙	YEJS06027	⊕Screw	3mmφ × 4mm
34	△	YEJT03156	⊕Screw	2.6mmφ × 4mm
35	☆	YEJS05016	⊕Screw	3mmφ × 15mm





# EXPLODED VIEW (TAPE DECK) / AUFGELOTE DARSTELLUNGS (TONBAND GERÄT)

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

