

Service Manual

PIONEER
The Art of Entertainment

• KEH-3400SDK/WG



ORDER NO.
CRT1427

CASSETTE CAR STEREO WITH FM/MW ELECTRONIC TUNER

KEH-3400SDK

WG

KEH-2400SDK

WG

KEH-2400B

EW

CASSETTE CAR STEREO WITH FM/MW/LW ELECTRONIC TUNER

KEH-3430B

EW

KEH-2430B

EW

Note:

- See the separate manual CX-197 (CRT1328) for the cassette mechanism description.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double -D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- Whenever a cord assembly may be used for repairing, do not fail to employ the cord assembly designed for the related part.
Do not apply any cord assembly designed for a different part.

CONTENTS

1. SPECIFICATIONS.....	2	13. SCHEMATIC CIRCUIT DIAGRAM(KEH-2400SDK).....	37
2. USING THE RADIO.....	3	14. SCHEMATIC CIRCUIT DIAGRAM(KEH-2430B).....	40
3. USING THE TAPE DECK.....	4	15. CONNECTION DIAGRAM(KEH-2430B).....	43
4. CONNECTIONS.....	5	16. CONNECTION DIAGRAM(KEH-2400B).....	47
5. DISASSEMBLY.....	6	17. SCHEMATIC CIRCUIT DIAGRAM(KEH-2400B).....	51
6. ADJUSTMENT.....	8	18. EXPLODED VIEW.....	54
7. BLOCK DIAGRAM.....	11	19. CASSETTE MECHANISM ASSY EXPLODED VIEW.....	58
8. CONNECTION DIAGRAM(KEH-3400SDK).....	19	(KEH-3400SDK, KEH-3430B)	
9. SCHEMATIC CIRCUIT DIAGRAM(KEH-3400SDK).....	23	20. CASSETTE MECHANISM ASSY EXPLODED VIEW.....	62
10. SCHEMATIC CIRCUIT DIAGRAM(KEH-3430B).....	26	(KEH-2400SDK, KEH-2430B, KEH-2400B)	
11. CONNECTION DIAGRAM(KEH-3430B).....	29	21. PACKING METHOD.....	66
12. CONNECTION DIAGRAM(KEH-2400SDK).....	33	22. ELECTRICAL PARTS LIST.....	67

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SAFETY INFORMATION

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below. Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel er angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anvisning. Batterierne må kun udskiftes med batterier af samme type og mærke.

VARNING

Explosionsfara vid felaktigt batteri-byte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litiumbatterier.

Batterierna får endast bytas ut mot litiumbatterier av samma typ och fabrikat.

1. SPECIFICATIONS

General

Power source	14.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
Max. current consumption	7.0 A
Dimensions (chassis)	180(W) × 50(H) × 141(D) mm
(front face)	188(W) × 58(H) × 16(D) mm
Weight	1.4 kg

Amplifier

Maximum power output	25 W × 2/15 W × 4 (EIAJ)
Continuous power output	11 W × 2 (1% dist. at 1 kHz)
Load impedance	4 Ω (4 — 8 Ω allowable)
Tone controls (bass)	±10 dB (100 Hz)
(treble)	±10 dB (10 kHz)
Loudness contour	+8 dB (100 Hz) (volume: -30 dB)

Tape player

Tape	Compact cassette tape (C-30 — C-90)
Tape speed	4.76cm/sec. (+ 0.14cm/sec., - 0.05cm/sec.)
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow & flutter	0.13% (WRMS)
Frequency response (KEH-3430B, KEH-3400SDK) ... Metal:	40 — 17,000 Hz (±3 dB)
(KEH-2430B, KEH-2400SDK, KEH-2400B) ...	40 — 14,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio (KEH-3430B, KEH-3400SDK) ... Metal:	Dolby B NR IN: 63 dB
(IEC-A network)	
Dolby NR OUT: 55 dB (IEC-A network)	
(KEH-2430B, KEH-2400SDK, KEH-2400B) ...	52 dB (IEC-A network)

FM tuner

Frequency range	87.5 — 108 MHz
Usable sensitivity	11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range	531 — 1,602 kHz
Usable sensitivity	18 μV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

LW tuner (KEH-3430B, KEH-2430B)

Frequency range	153 — 281 kHz
Usable sensitivity	30 μV (30 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

Note:

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

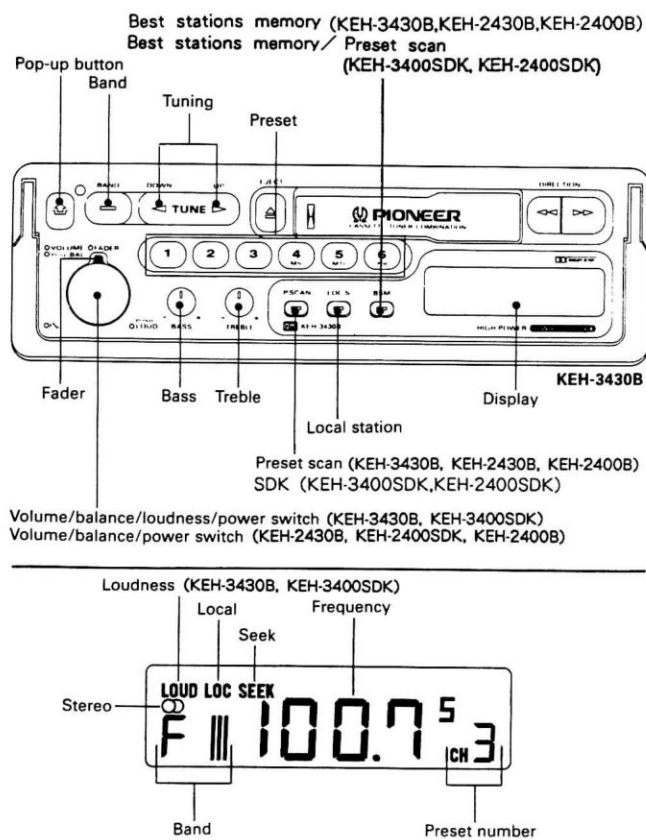
● Features

- Built-in highly sensitive "Automatic Reception Control" (ARC) for automatic control of stereo separation, muting and frequency characteristics to match the strength of the FM signal.
- The Best Stations Memory automatically memorizes the six best (strongest) stations in the six preset buttons in the order of their strength.
- Preset scan tuning for sequential recall of preset frequencies.
- Auto reverse function eliminates the need to turn the cassette over and allows uninterrupted playback.
- Built-in Dolby B NR for reduced tape hiss.
(This feature is provided for the KEH-3430B and KEH-3400SDK.)
- Music search function allows automatic playback from the beginning of the selection being played or the beginning of the next selection.
(This feature is provided for the KEH-3430B and KEH-3400SDK.)
- Choice of either 4-speaker or 2-speaker system is possible. When the 4-speaker system (15 W × 4) is used, volume of front and rear speakers can be adjusted independently, for optimum sound balance. The 2-speaker system (25 W × 2) provides more than enough power for clear, high-fidelity playback.
- The "Quick Release Mounting Bracket", facilitates mounting and dismounting of the car stereo and serves to protect the unit from theft.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

● Electronic Tuner (KEH-3400SDK, KEH-2400SDK, KEH-2400B)

Frequency allocation differs depending upon the area. This unit has been designed in accordance with the frequency allocations for Western Europe, Asia, the Middle and Near East, Africa, Australia and Oceania. Use in other areas may result in improper reception of AM.

2. USING THE RADIO



● Before attempting operation...

- Set the fader control to the upright position.
- 1. Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
- Since the set is designed preferentially for tape play, eject a cassette tape, if mounted, before operating the radio.
- 2. Press the band switch to select the band.
- Switching between FM and MW/LW is controlled by the band switch. Switching between LW and MW is accomplished using the tuning button. The MW band is from 531 kHz to 1,602 kHz, and the LW band is from 153 kHz to 281 kHz.
- 3. Press both ends of tuning button and the seek tuning indicator will appear on the display.
- 4. Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)
- 5. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.
- 6. Adjust the tone.

● To enter a frequency into the preset memory...

- 7. Hold down one of the preset buttons (1-6) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.
- Six FM1 frequencies, six FM2 frequencies, six FM3 frequencies and six MW and LW frequencies can be entered.

● Best Stations Memory Button

Automatically tunes strong frequencies and assigns them to preset buttons 1 through 6 for one-touch automatic tuning. The best stations memory function is activated by pressing this button for approximately 2 seconds. The best stations memory function is indicated by ——— flashing on the display, and this function can be canceled by pressing the band switch. The frequency display returns once the best stations memory function is complete. The frequency displayed at this time is of the strongest station assigned to preset button 1 by the best stations memory function.

- 6 best (strongest) frequencies are memorized in the 6 preset buttons in the order of their strength, the strongest one being assigned to preset button 1.
- The frequencies previously assigned to the preset buttons are retained when 6 frequencies cannot be located.
- The best stations memory is in operation while ——— is flashing on the display.

● Local Station Switch

Pressing this switch increases the seek threshold level so that only relatively strong stations can be tuned in (local indicator will illuminate on the display). Local seek threshold level can be selected among four levels for FM and two levels for MW and LW.

Holding this switch down for approximately 2 seconds and then pressing the right side of the tuning button changes the display from L-1, L-2, L-3 to L-4. Pressing the left side of the tuning button changes the display from L-4, L-3, L-2 to L-1 (L-1 and L-2 for MW/LW). The bigger the number, the higher the seek threshold becomes and only relatively strong stations can be tuned in.

● Fader Control

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control to the right decreases the volume of the rear speakers, while turning it to the left decreases the volume of the front speakers. With 2-speaker systems, set this control to the upright position.

A considerable amount of sound will continue to be produced from speakers of a 4-speaker system which have been cut by setting the fader control either to the front speakers or rear speakers. This is normal and does not indicate malfunction.

● Loudness Switch (KEH-3430B, KEH-3400SDK)

When playing back a tape or listening to the radio at low volume, the low tone is emphasized and more clearly heard by pressing this switch.

● Auto-Loudness (KEH-2430B, KEH-2400SDK, KEH-2400B)

When playing back a tape or listening to the radio at low volume, the low tone is automatically emphasized.

Seek Tuning

Press both ends of tuning button and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the right or left side of the tuning button. FM frequencies change in 50 kHz steps while those in the MW and LW bands change in 9 kHz steps.

Preset Scan Tuning

Pressing the preset scan button (CH indicator flashes) causes previously stored frequencies to be tuned in sequentially for eight seconds each. Press again when the desired frequency is tuned in to cancel preset scan tuning.

Preset Tuning

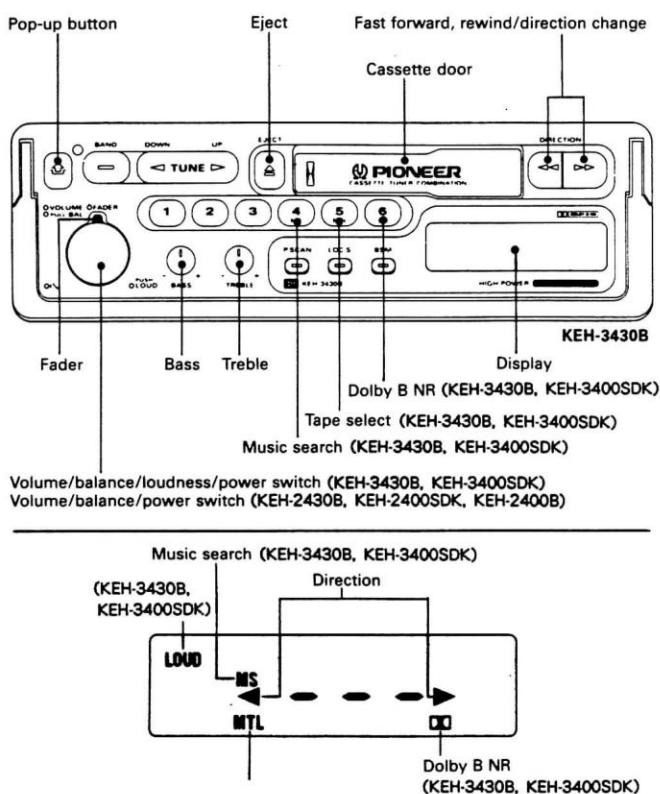
Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

Manual Tuning

When manual tuning is employed, FM frequencies change in 50 kHz steps, LW frequencies change in 1 kHz steps, and MW frequencies change in 9 kHz steps.

1. Press both ends of tuning button and the seek tuning indicator will disappear from the display.
2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

3. USING THE TAPE DECK



• Before attempting operation...

- Set the fader control to the upright position.
- 1. Turning the power switch to the right causes power to switch ON.
- 2. Loading a cassette tape into the load slot causes playback to begin automatically.
- 3. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.
- 4. Adjust the tone.
- 5. When tape playback reaches the end of the tape, playback will automatically switch from the side being played to the opposite side (ie. Side A to Side B or vice versa) (Auto-reverse). To eject the tape during playback, press the eject button.

• Pop-up button

When the quickrelease handle is on the bottom, push the button to move it up slightly. Push it when you remove the unit from the dashboard.

The button works only when the handle lock is released.

- Before removing this unit from your vehicle, be sure to remove cassette tapes and make sure that radio power is switched OFF.

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.
- Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
- Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.

• Fast Forward/Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button.

• Direction Change

Push the fast forward and rewind buttons together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

• Dolby B NR Switch (KEH-3430B, KEH-3400SDK)

Press when playing a tape recorded with Dolby NR.

• Tape Select Switch (KEH-3430B, KEH-3400SDK)

This switch is used to switch to the proper mode for the tape being used and should be depressed when using chrome or metal tapes.

Music Search (KEH-3430B, KEH-3400SDK)

• Returning to the beginning of selection A

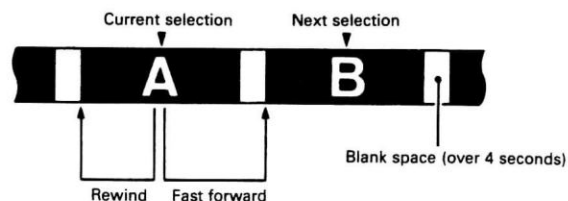
Press the music search button and then the high-speed tape transport button for the direction opposite that is shown by the direction indicator. Playback will automatically start from the beginning of selection A.

• Moving from selection A to selection B

Press the music search button and then the high-speed tape transport button that corresponds to the direction shown by the direction indicator. Playback will automatically start from the beginning of selection B.

To enable regular fast forward/rewind operations, press the music search button again to turn the function OFF. The following errors will cause the music search function to operate improperly, even though the unit is not malfunctioning.

- Unrecorded "blank" portions between selections less than 4 seconds → the blank portion cannot be detected by the unit.
- Pauses in recorded conversations longer than 4 seconds → the unit reads these as blanks between selections.
- Portions recorded at very low volume for more than 4 seconds → the unit reads these as blanks between selections.



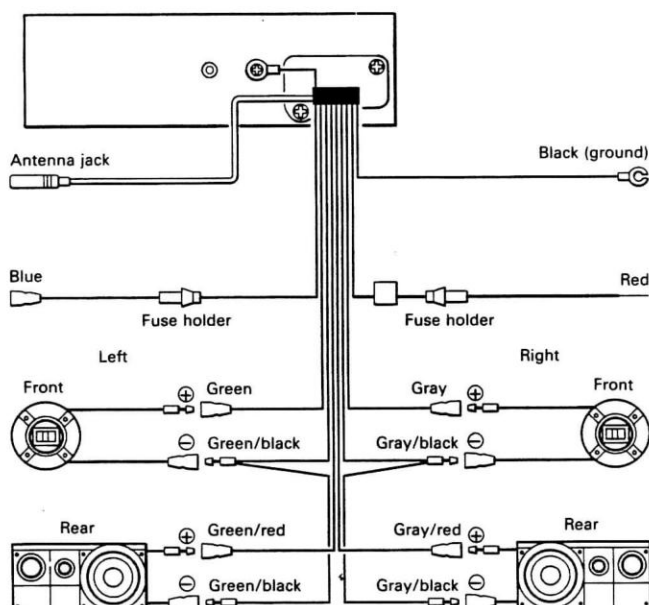
4. CONNECTIONS

Note:

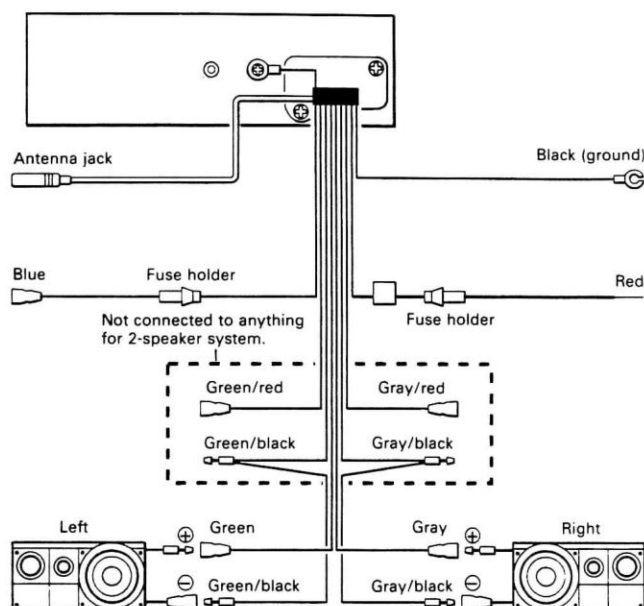
- To avoid shorts in the electrical system, be sure to disconnect the battery ⊖ cable before beginning installation.
- Replace fuses only with the types stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right speaker ⊖ leads are common.
- Speakers connected to this unit must be a high-power type possessing maximum input of at least 25 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.

Black (ground)	To vehicle (metal) body.
Blue	To auto-antenna power terminal (Max. 300 mA 12 V DC).
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

4-speaker system



2-speaker system



5. DISASSEMBLY

● Removing the Case

1. Insert and turn a screwdriver to remove the case.
2. Raise the case to remove.

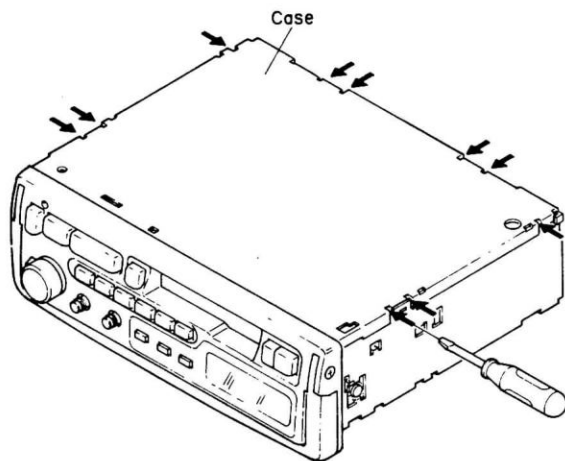


Fig. 1

● Removing the Handle

1. Remove the two screws, and then remove the handle.

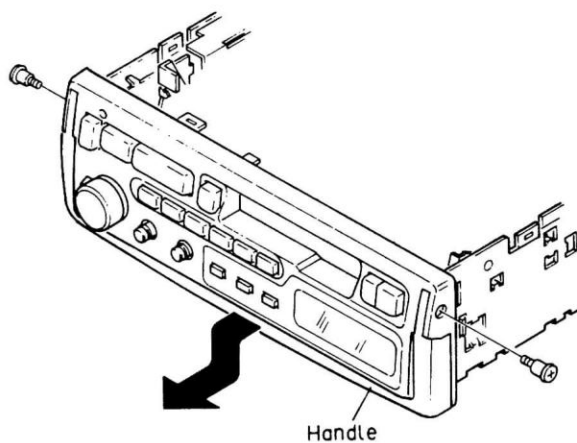


Fig. 2

● Removing the Grille Assy

1. Remove the two knobs.
2. Press the tabs at four locations, and then pull out the grille assy.

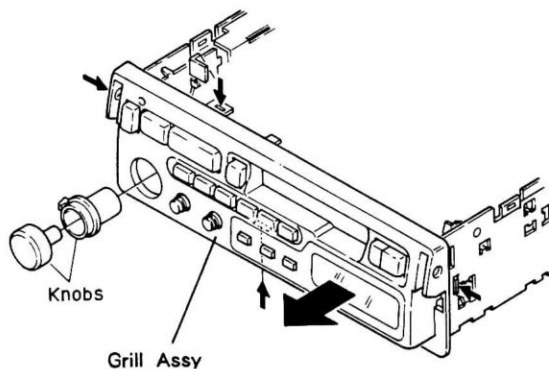


Fig. 3

● Removing the Cassette Mechanism Assy

1. Remove the insulator.
2. Disconnect the connector.
3. Remove the six screws A and two screws B.
4. Remove the cassette mechanism assy.

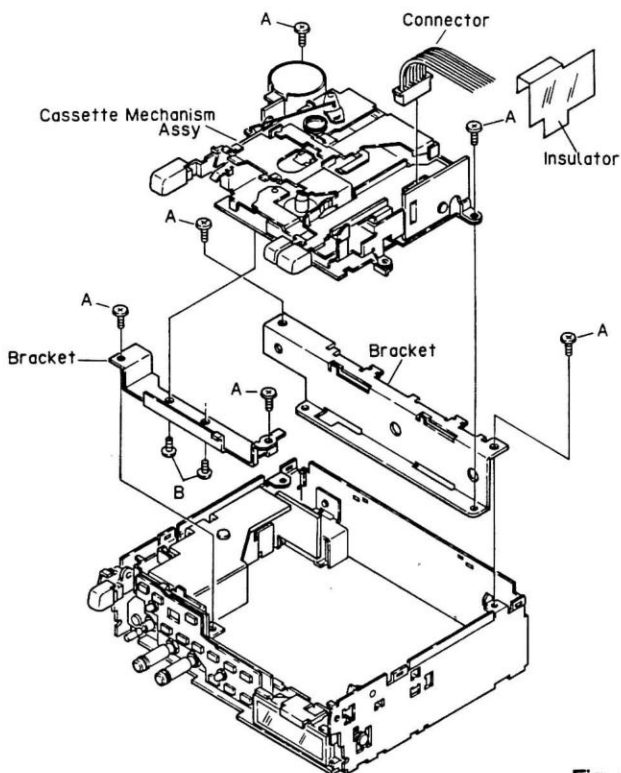


Fig. 4

● **Removing the SDK P.C.Board**
(KEH-3400SDK, KEH-2400SDK)

1. Pull out the SDK P.C.Board.

● **Removing the Dolby NR P.C.Board**
(KEH-3400SDK, KEH-3430B)

1. Pull out the Dolby NR P.C. Board.

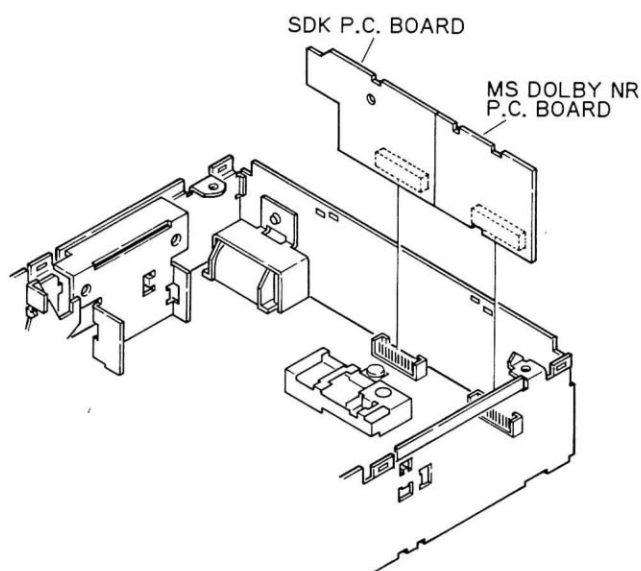


Fig. 5

● **Removing the Tuner Amp Unit**

1. Remove the four screws C.
2. Raise up on tuner amp unit to remove it from the chassis unit.

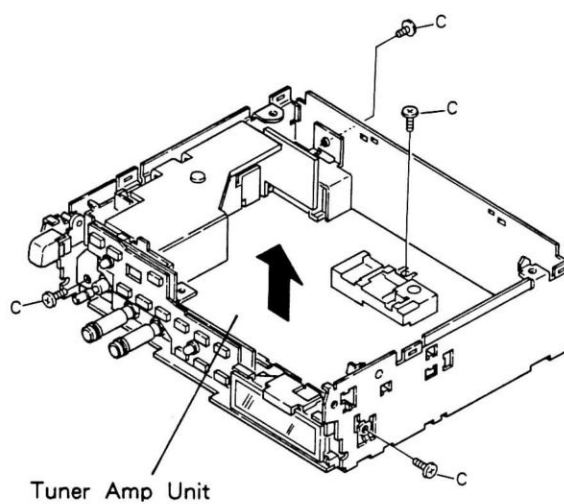


Fig. 6

6. ADJUSTMENT

● Connection Diagram

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.

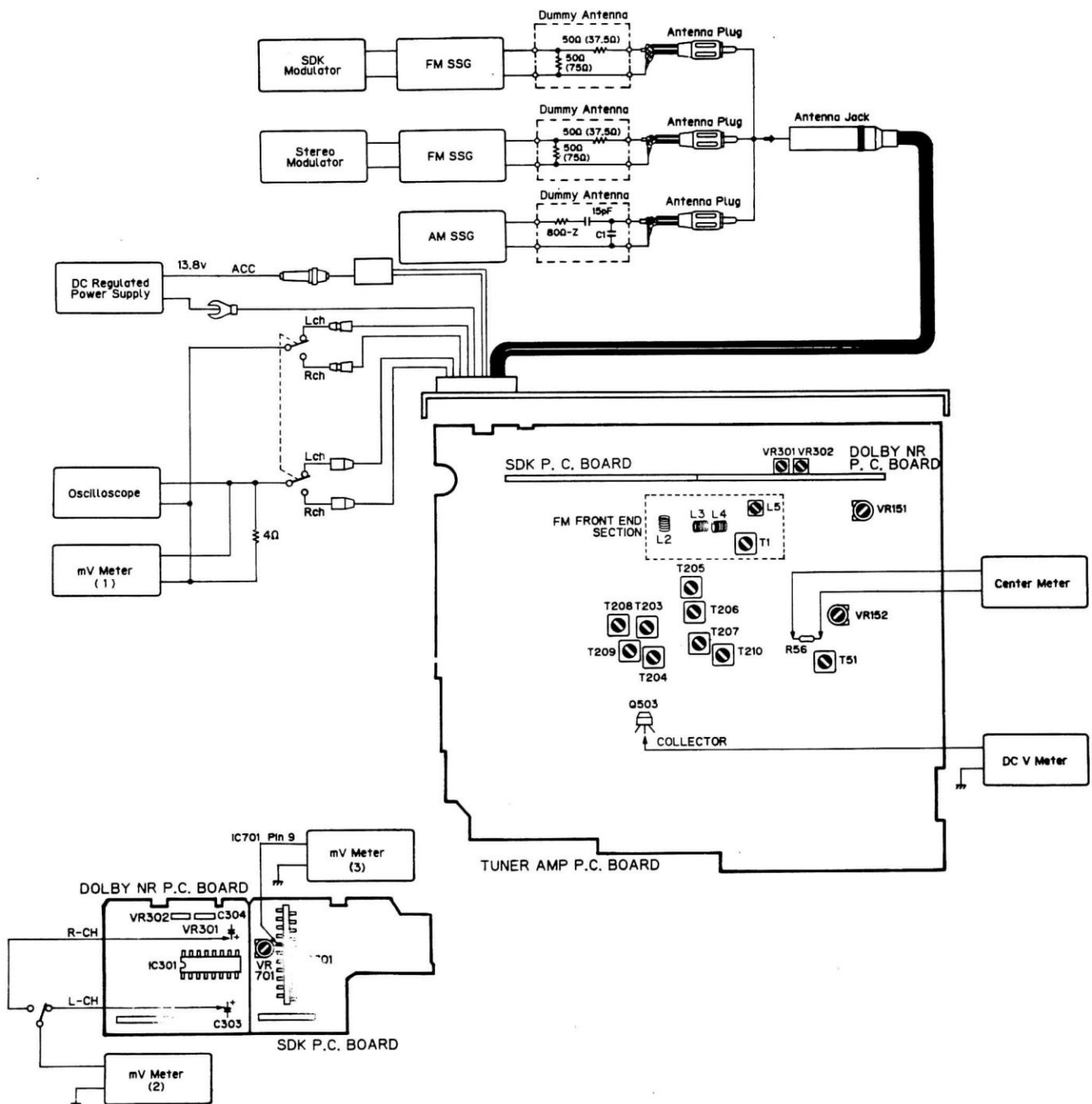


Fig. 7

DOLBY NR ADJUSTMENT

(KEH-3400SDK/WG, KEH-3430B/EW)

No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150 (400Hz, 200nwb/m)	VR301 (Lch) VR302 (Rch)	mV Meter (2) : -6dBs ± 1dB (DOLBY NR Switch: OFF)

FM ADJUSTMENT

※ 1 Stereo MOD. : Pilot=10%

※ 2 Stereo MOD. : 1kHz, L+R=90% , Pilot=10%

	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dBf)			
Tuning Volt	1	—	—	108.0	L5	DC V Meter : 7.0V
Tracking	1	98.1	15	98.1	L2, L4	mV Meter (1) : Maximum
	2	98.1	15	98.1	T1	mV Meter (1) : Maximum
IF	1	98.1 Unmodulated	65	98.1	T51	Center Meter : 0
Pilot Cancel	1	98.1※1	65	98.1	VR151	mV Meter (1) : Minimum (MPX Filter: OFF)
ARC	1	98.1※2	40	98.1	VR152	mV Meter (1) : Separation 5dB

MW ADJUSTMENT

(KEH-3400SDK/WG, KEH-2400SDK/WG, KEH-2400B/EW)

	No.	AM SSG(400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dB μ V)			
Tuning Volt	1	—	—	531	T210	DC V Meter:1.0V
Tracking	1	603	20	603	T203, 204, 205, 206	mV Meter(1):Maximum

MW/LW ADJUSTMENT

(KEH-3430B/EW, KEH-2430B/EW)

	No.	AM SSG(400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dB μ V)			
Tuning Volt	1	—	—	531	T210	DC V Meter:1.0V
	2	—	—	153	T207	DC V Meter:3.3V
Tracking	1	999	20	999	T203, 204, 205, 206	mV Meter(1):Maximum
	2	216	20	216	T208, 209	mV Meter(1):Maximum

SDK ADJUSTMENT ※3 : SDK MOD. : SK(57kHz)=5%

(KEH-3400SDK/WG, KEH-2400SDK/WG)

	No.	FM SSG(400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dBf)			
	1	98.1※3	65	98.1	VR701	mV Meter(3):Maximum

7. BLOCK DIAGRAM

● KEH-3400SDK

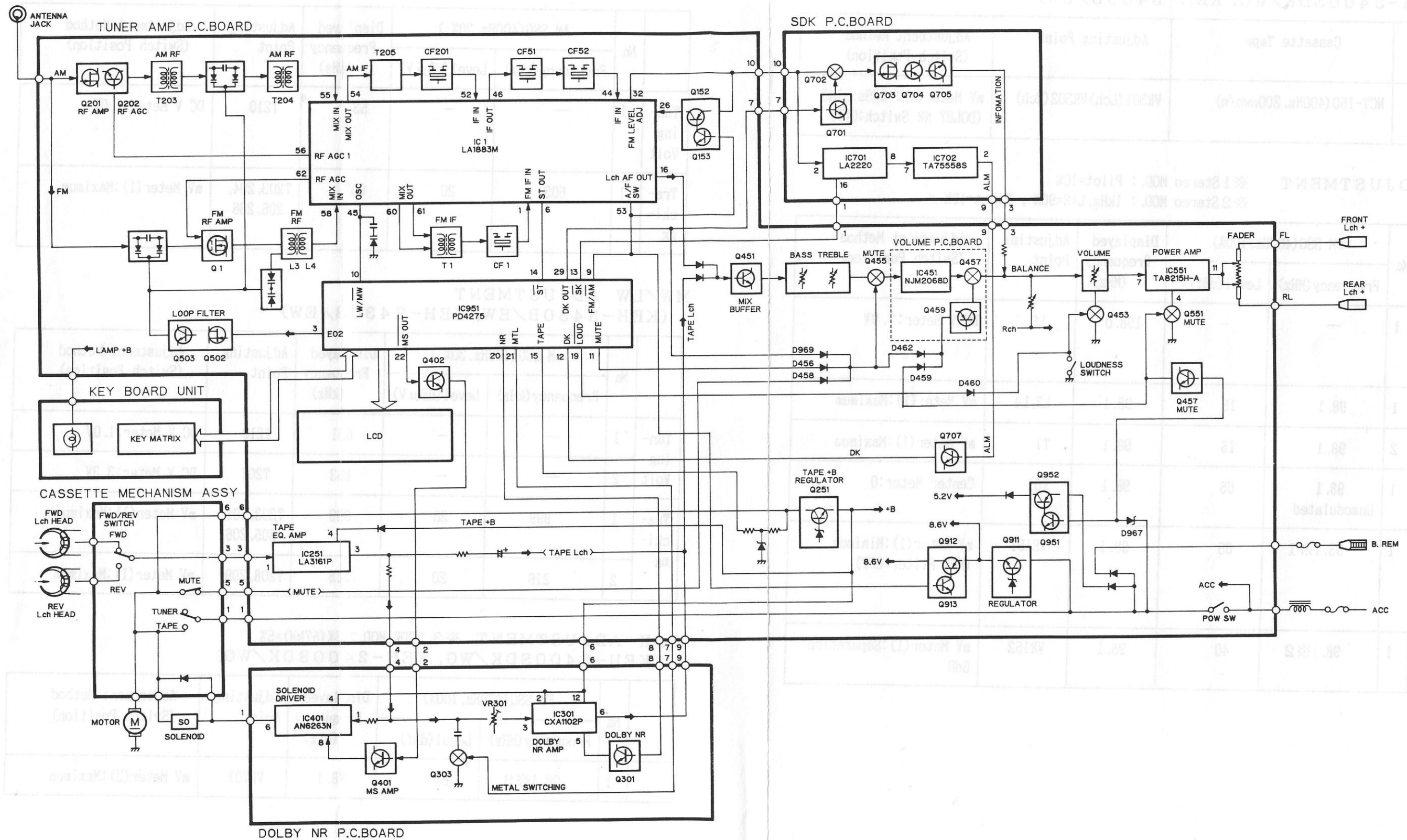
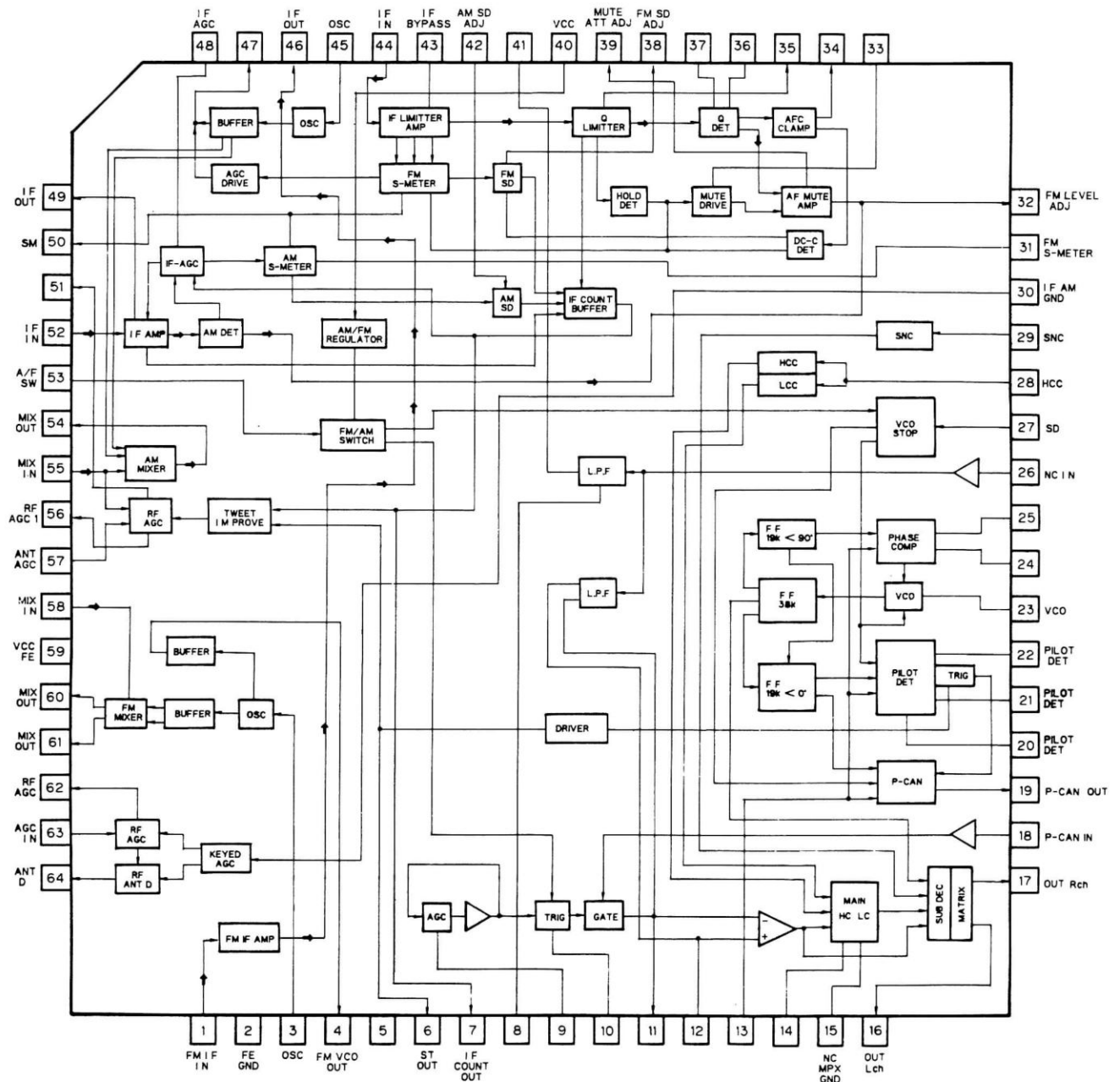


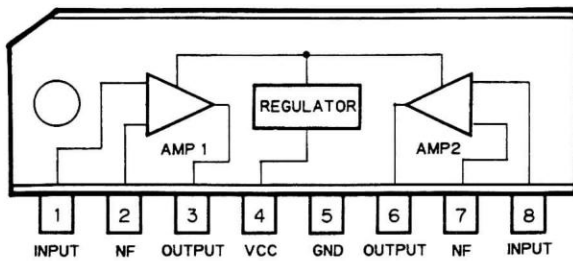
Fig. 8

- ICs

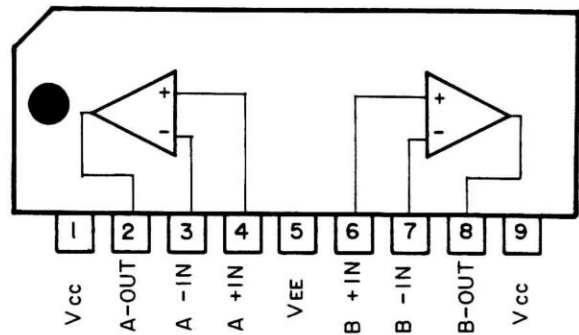
LA1883M



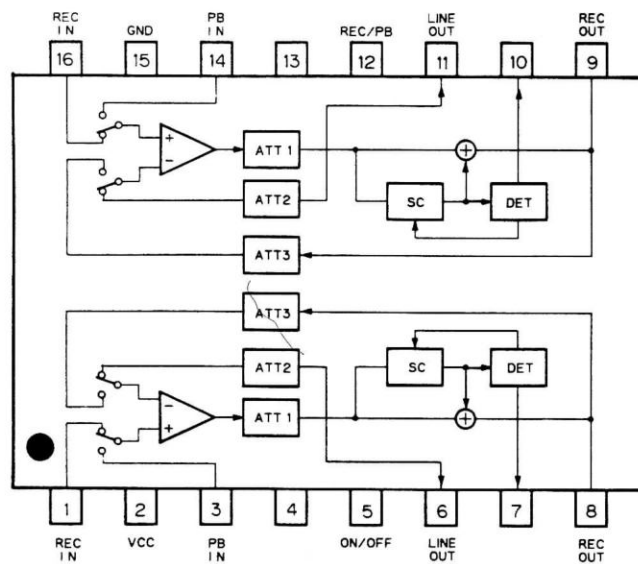
LA3161P



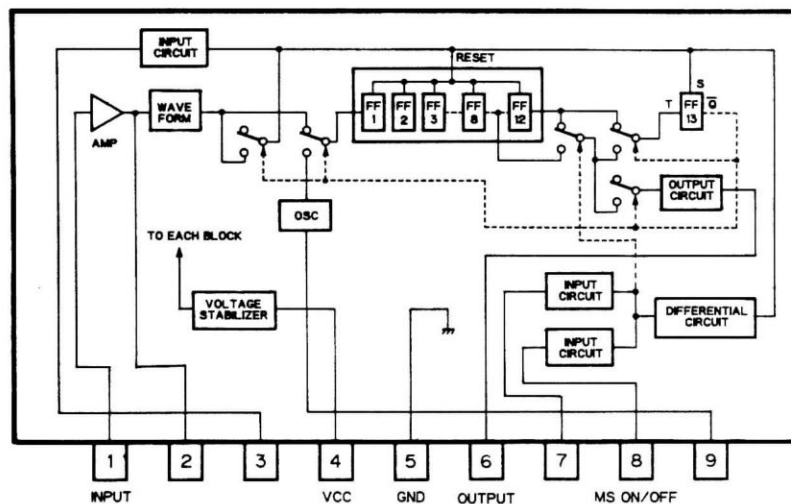
TA75558S



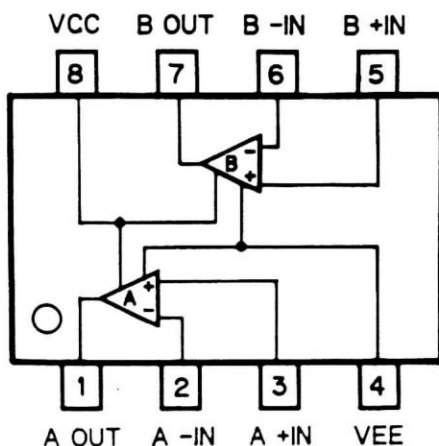
CXA1102P



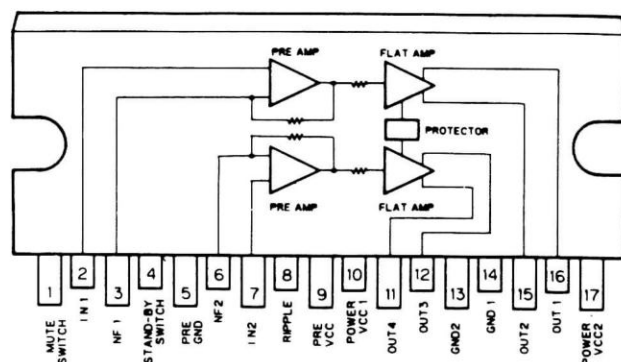
AN6263N



NJM2068D

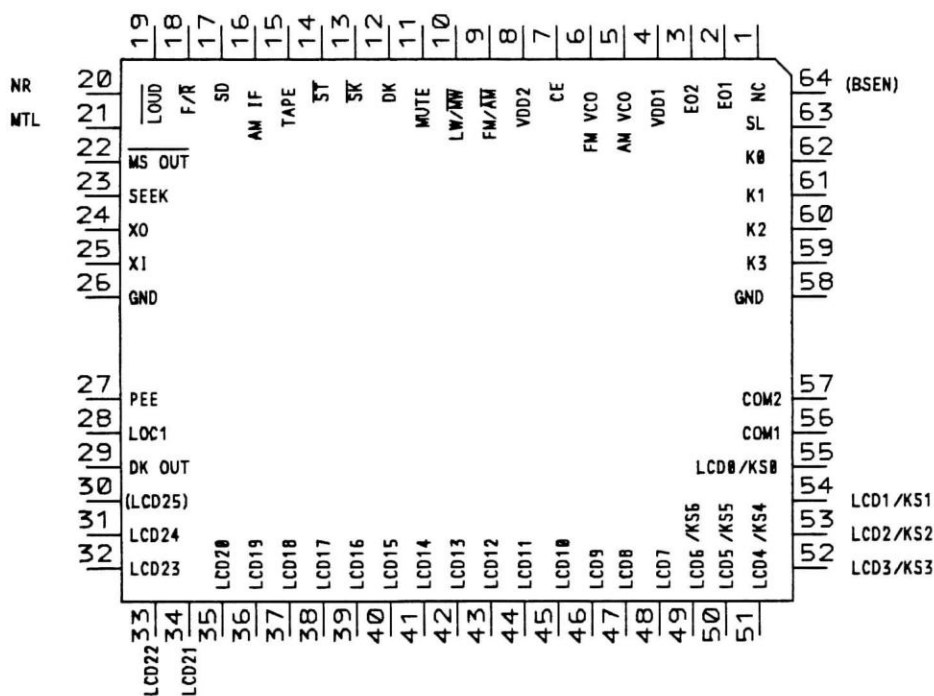


TA8215H-A



*PD4275

IC's marked by * are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

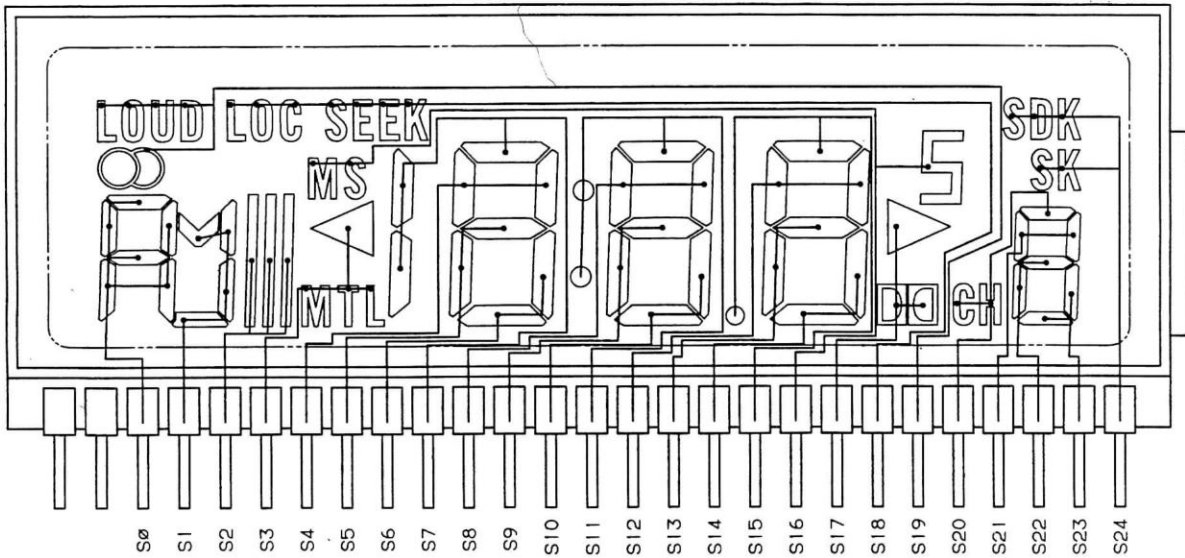


● Pin Function (PD4275)

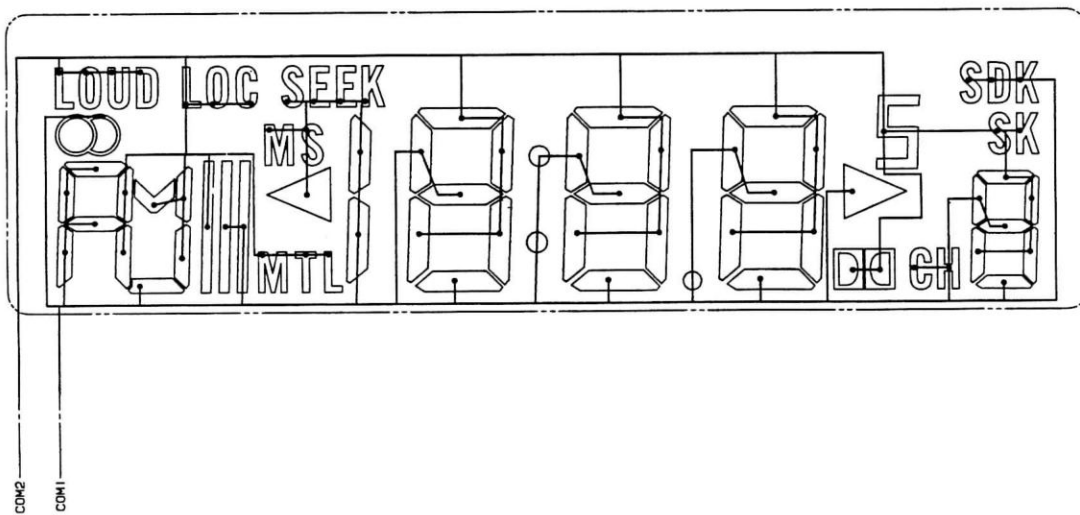
Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	NC		C	Not used
2 3	EO1 EO2	Output	C(3)	PLL error output pins
4 8	VDD1 VDD2			Device power supply pin
5	VCOL	Input		AM local oscillator signal input pin
6	VCOH	Input		FM local oscillator signal input pin
7	CE	Input		Chip enable input pin
9	FM/AM	Output	C	FM/AM band select pin "H":FM "L":AM
10	LW	Output	C	Loop filter switching output pin "H":LW
11	MUTE	Output	C	Mute output pin "H":ON
12	DK	INPUT		SK signal input pin
13	SK	INPUT		DK signal input pin
14	ST	Input		Stereo broadcast detection signal input pin "L":Stereo indicator is displayed
15	TAPE	INPUT		Tape power ON/OFF input pin "H":ON
16	AMIF	Input		AM IF signal input pin
17	SD	Input		FM SD input "H":During broadcast reception
18	F/REV	Input		Tape motion signal input pin "H":Forward
19	LOUD	Input		Loudness ON/OFF signal input pin "L":ON
20	NR	Output	C	Dolby NR ON/OFF output pin "H":ON
21	METAL	Output	C	Tape METAL ON/OFF output pin "L":ON
22	MSOUT	Output	C	Tape MS ON/OFF output pin "L":ON
23	SEEK	Output	C	"H" level:SEEK, BSM, BSA and PSCAN
24 25	XO X1	Output Input	C	Quartz oscillator terminal
26	GND			GND terminal
27	PEE	Output	C	Alarm output pin
28	LOC1	Output	C	Halt sensitivity switching pin "L":DX SEEK(P, SCAN) "H":LOC SEEK
29	DKOUT	Output	C	Control by DK (terminal #12) input signal "H":DK input signal is detected as 125Hz
30	NC			Not used

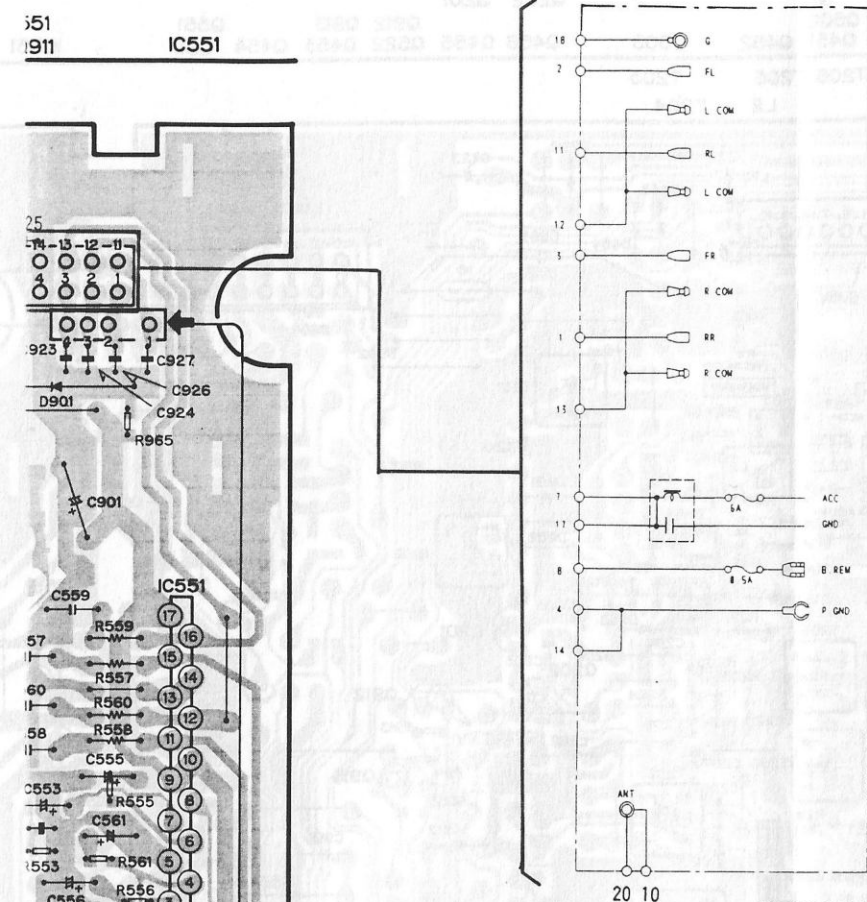
● LCD(CAW1162)

SEGMENT



COMMON

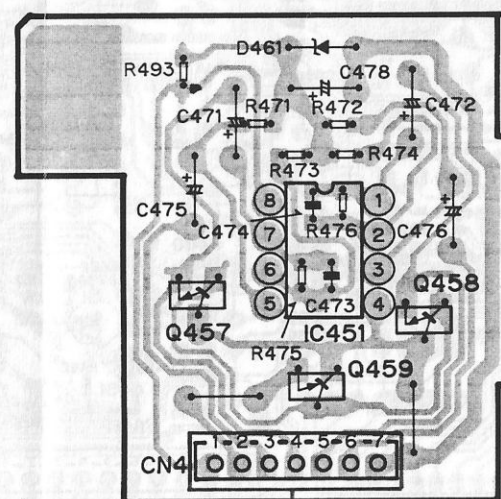




PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	2.1V	41	1.3V
6	5.2V	44	2.4V/0V
8	2.9V	46	3.3V/0V
11-13	4.8V	47	4V/5.2V
14	2.8V	51	0.2V
16, 17	2.3V	52	0V/6.9V
18	4.7V	53	4.9V/0V
20-22	3.5V	54	8.7V
23	3.8V	55	0V/2.2V
24, 25	3.5V	56	0V/4.3V
26	4.8V	58	3.4V/0V
28	0V/4.1V	59-62	8.6V/0V
29	0V/3.5V		
31	0V/6.4V		
32	3.4V		

VOLUME P.C.BOARD

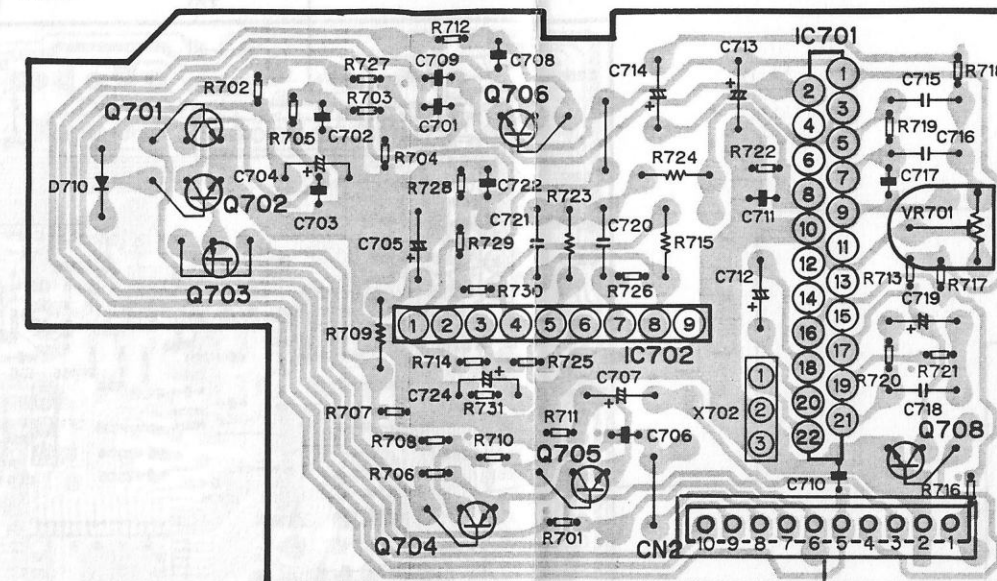
IC. Q Q457 Q459 Q458



SDK P.C.BOARD

IC. Q Q701 Q702 Q703 Q704 Q705 Q706 IC701 IC702

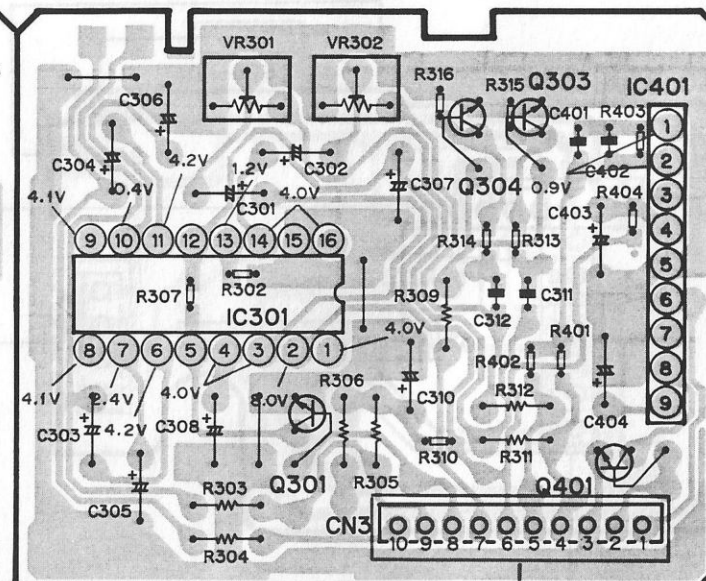
ADJ



DOLBY NR P.C.BOARD

IC. Q IC301 Q301 Q302 Q303 Q304 Q401

ADJ



KEY BOARD UNIT

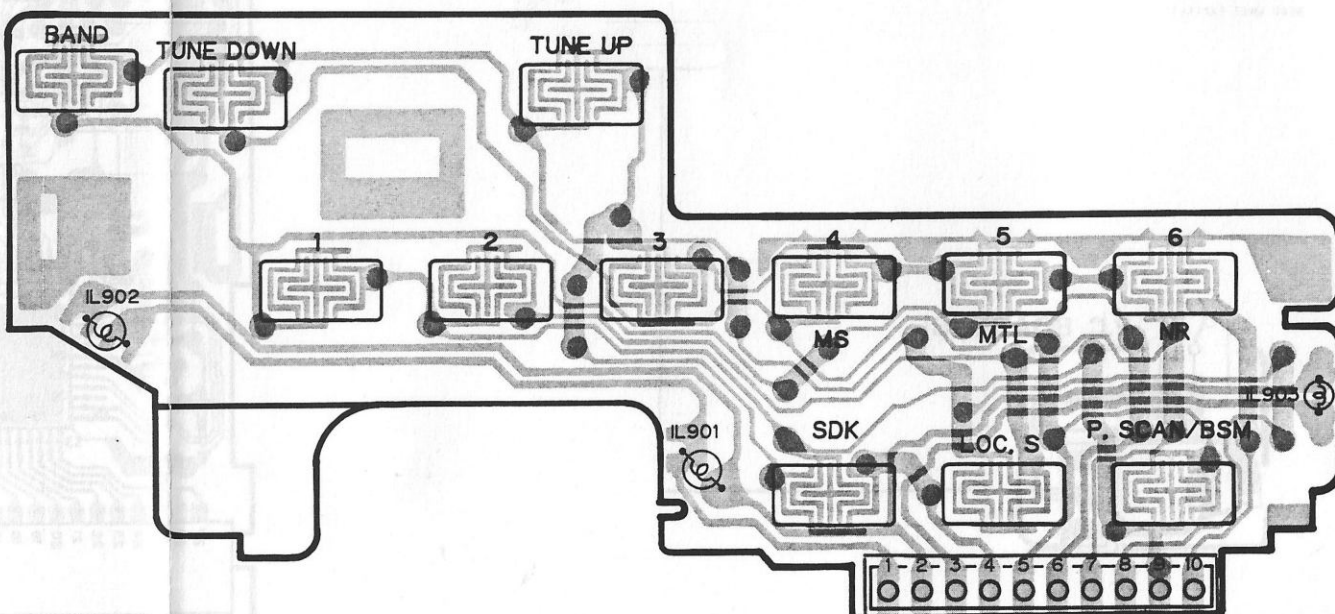
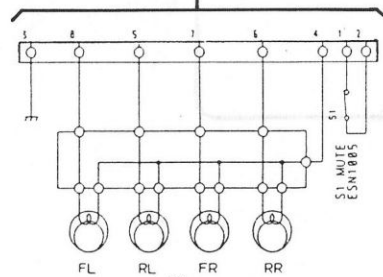
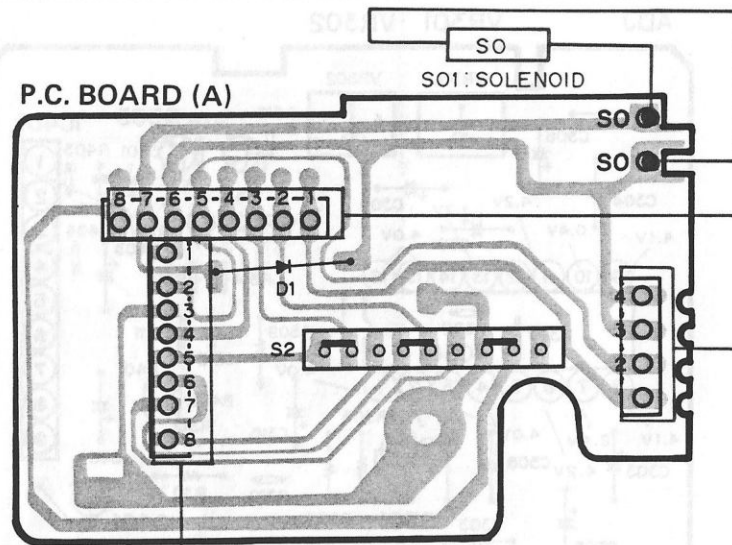
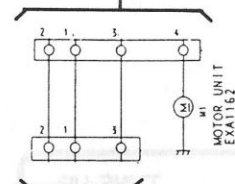


Fig. 9

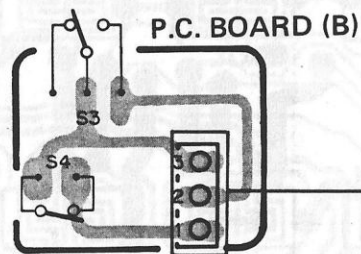
11. CONNECTION DIAGRAM (KEH-3430B)



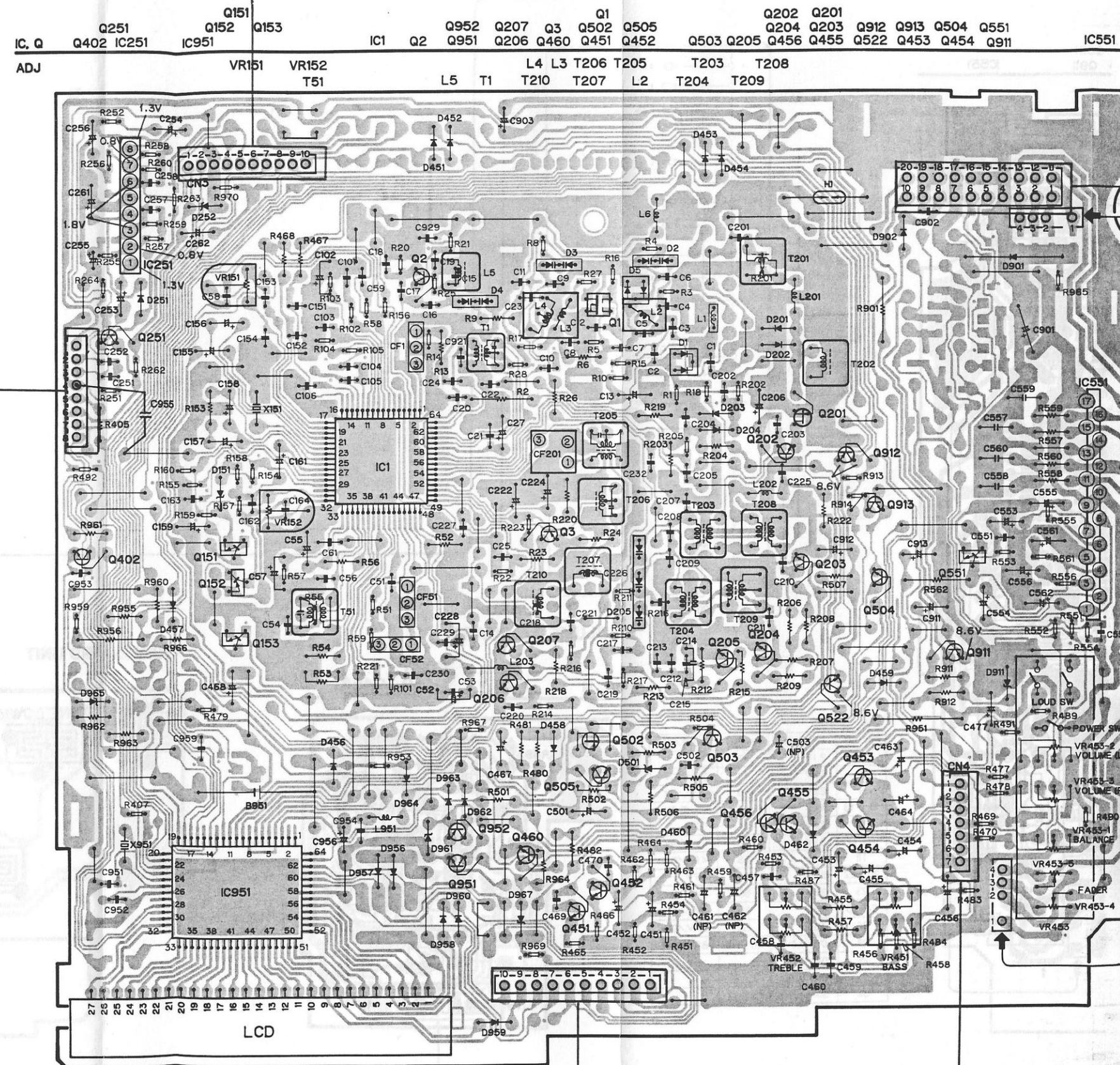
HEAD UNIT EXA1163



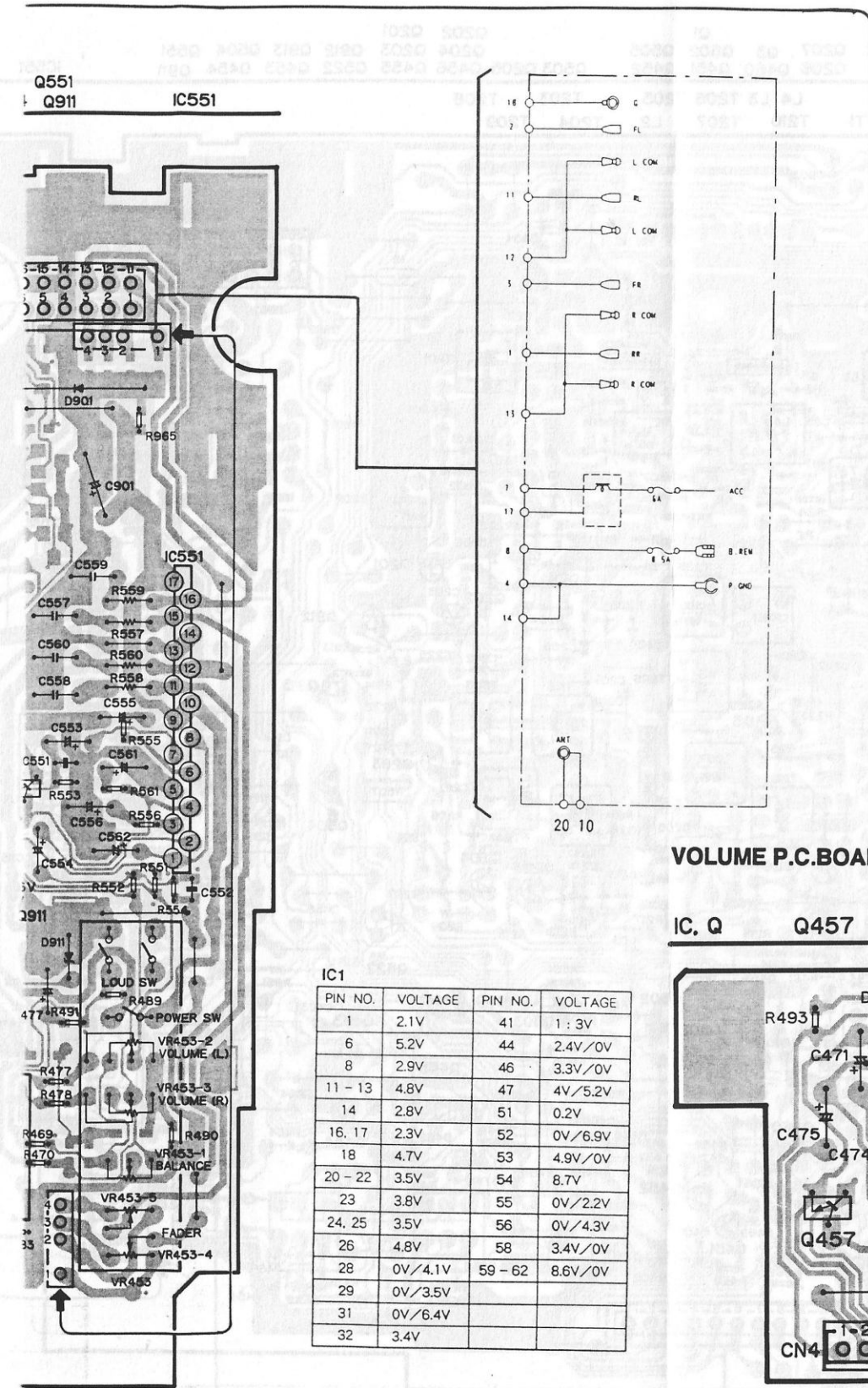
MOTOR UNIT EXA162



TUNER AMP P.C. BOARD

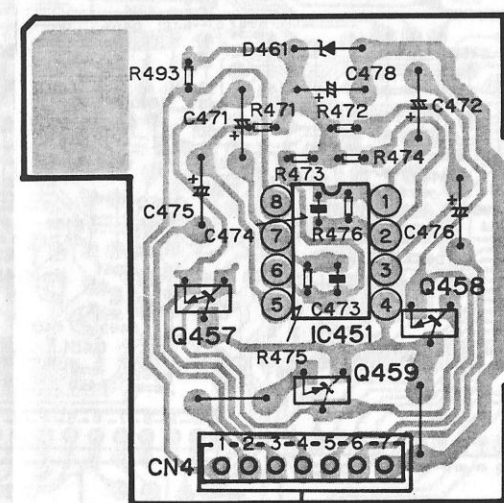


LCD

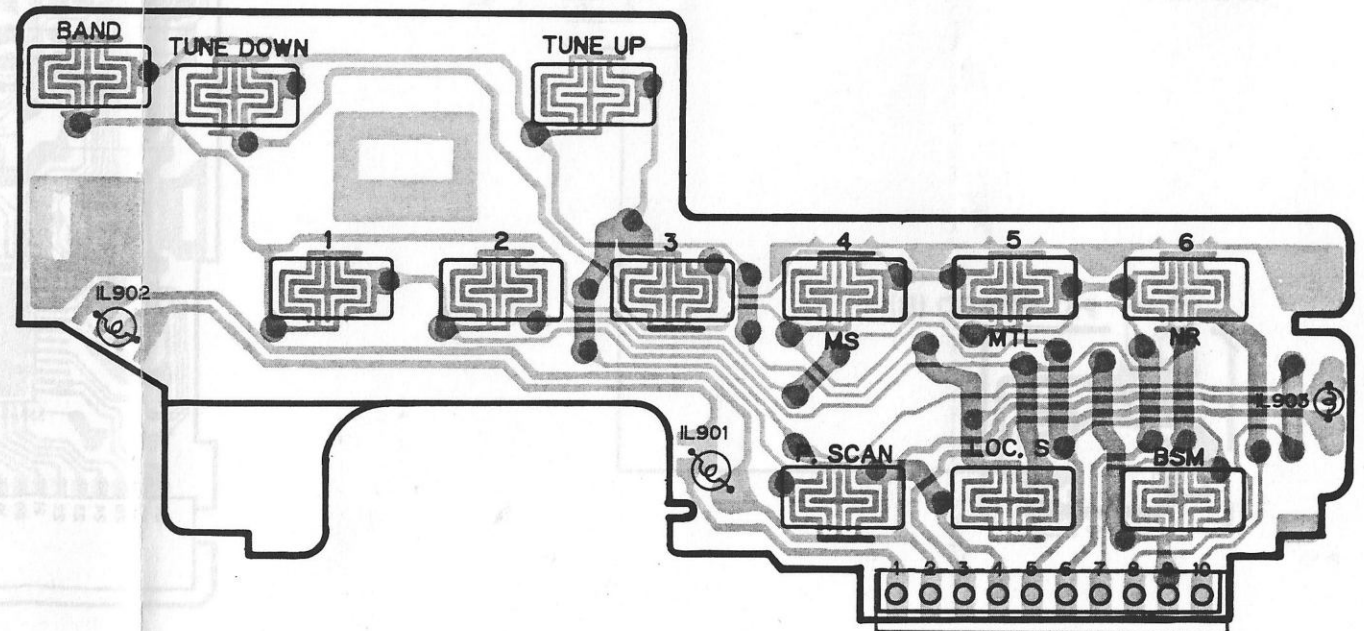


VOLUME P.C.BOARD

IC, Q Q457 IC451 Q459 Q458



KEY BOARD UNIT



DOLBY NR P.C.BOARD

IC, Q IC301 Q301 Q304 Q303 IC401 Q401

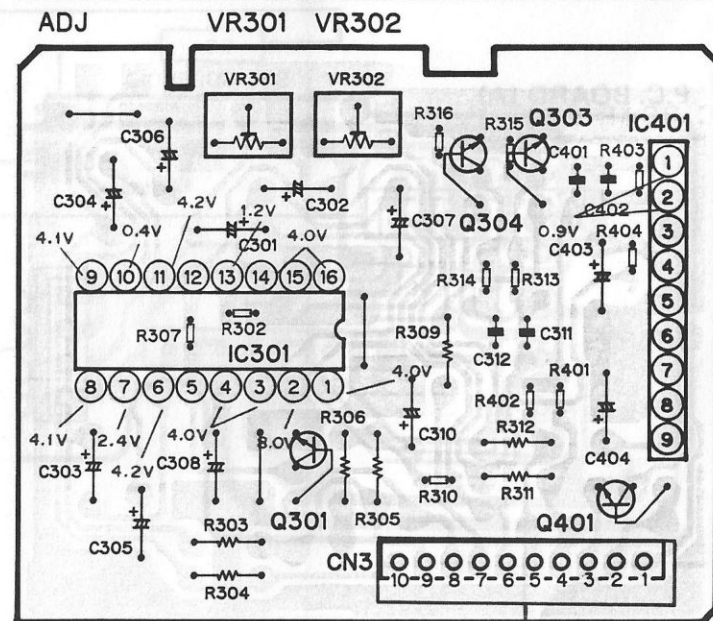
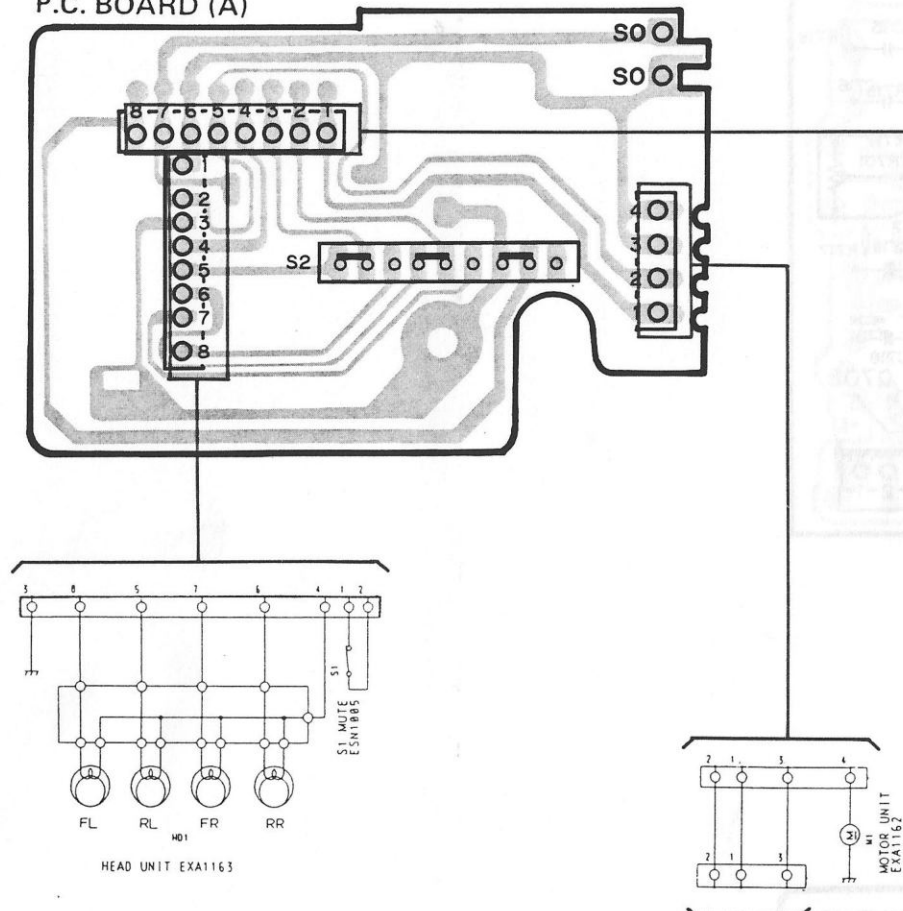


Fig. 12

12. CONNECTION DIAGRAM (KEH-2400SDK)

A

P.C. BOARD (A)

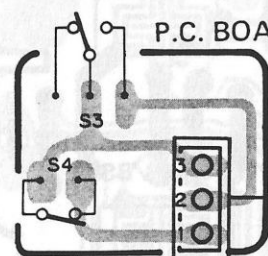


B

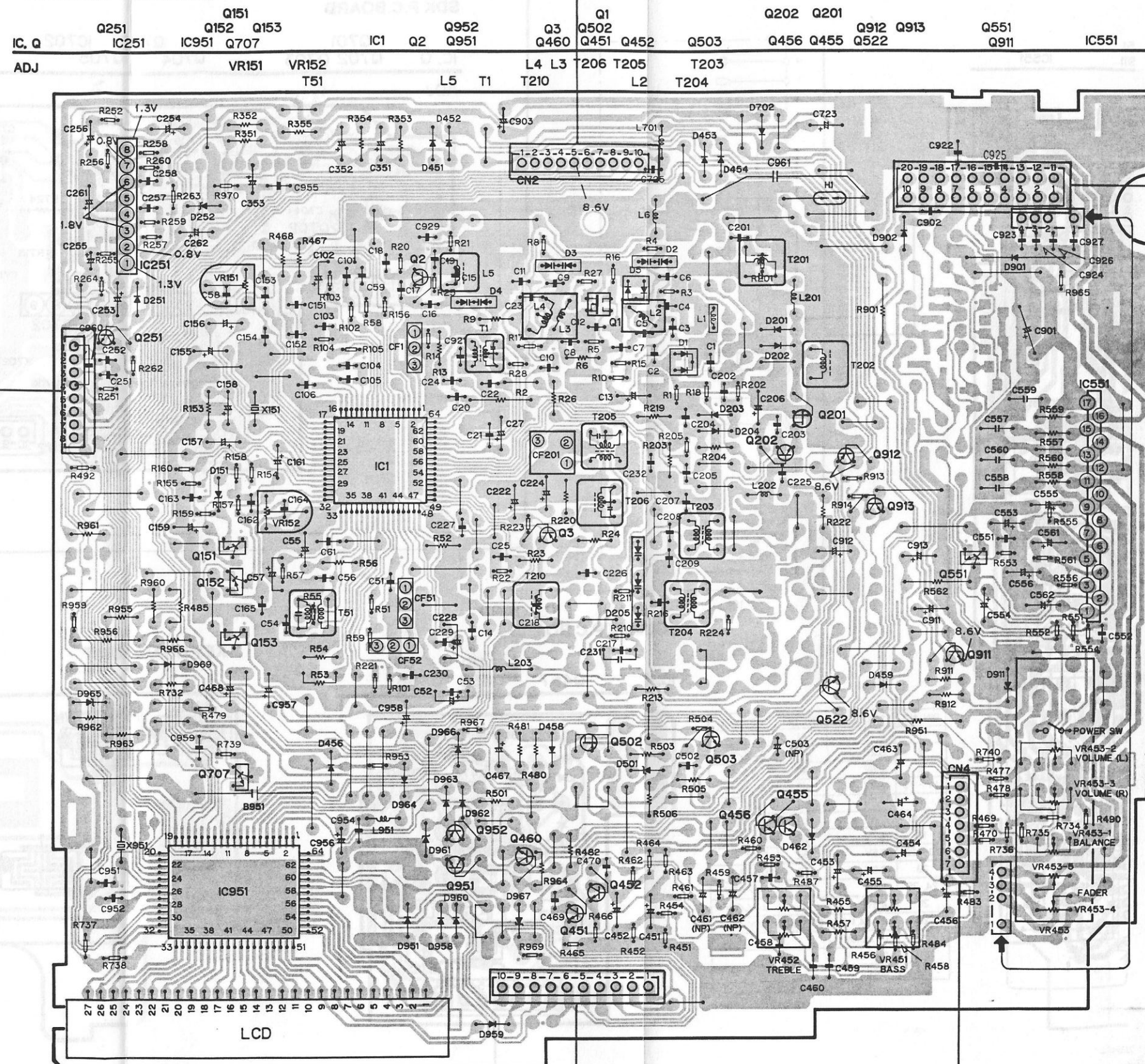
C

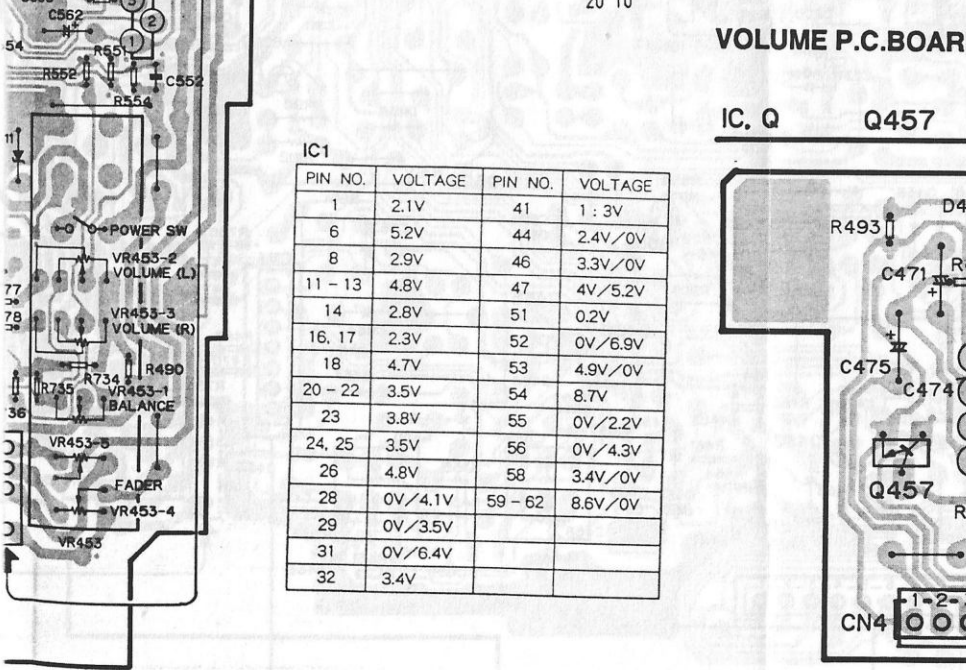
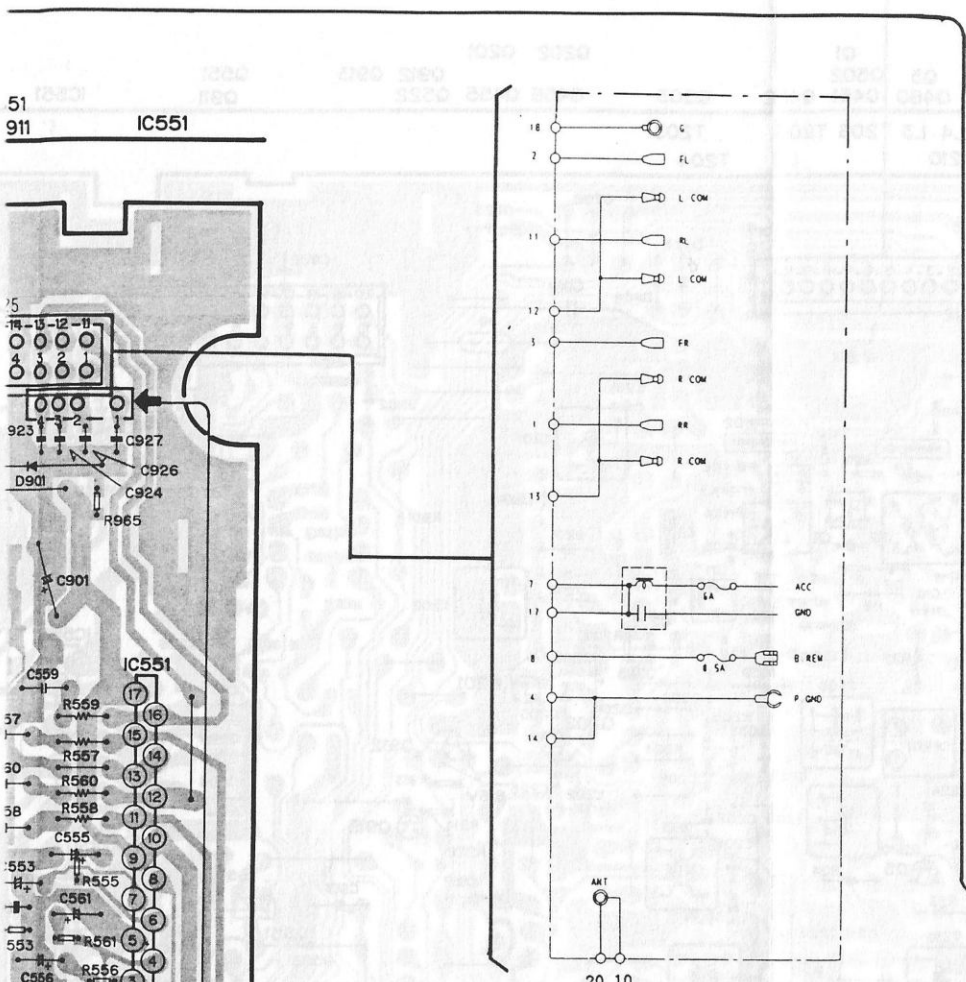
D

P.C. BOARD (B)



TUNER AMP P.C.BOARD

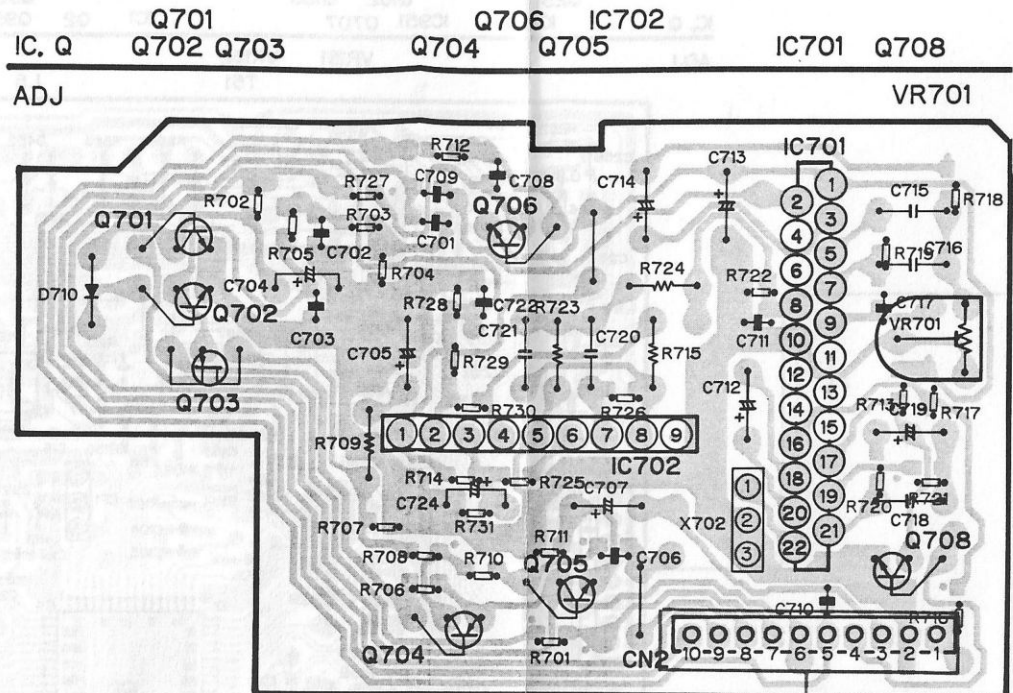




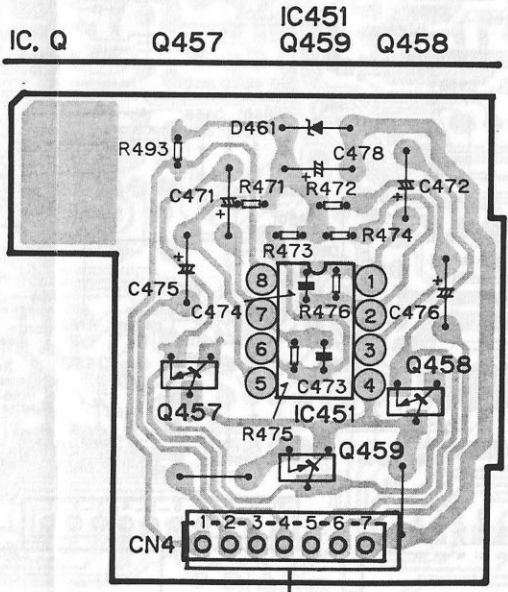
IC1

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	2.1V	41	1.3V
6	5.2V	44	2.4V/0V
8	2.9V	46	3.3V/0V
11-13	4.8V	47	4V/5.2V
14	2.8V	51	0.2V
16, 17	2.3V	52	0V/6.9V
18	4.7V	53	4.9V/0V
20-22	3.5V	54	8.7V
23	3.8V	55	0V/2.2V
24, 25	3.5V	56	0V/4.3V
26	4.8V	58	3.4V/0V
28	0V/4.1V	59-62	8.6V/0V
29	0V/3.5V		
31	0V/6.4V		
32	3.4V		

SDK P.C.BOARD



VOLUME P.C.BOARD



KEY BOARD UNIT

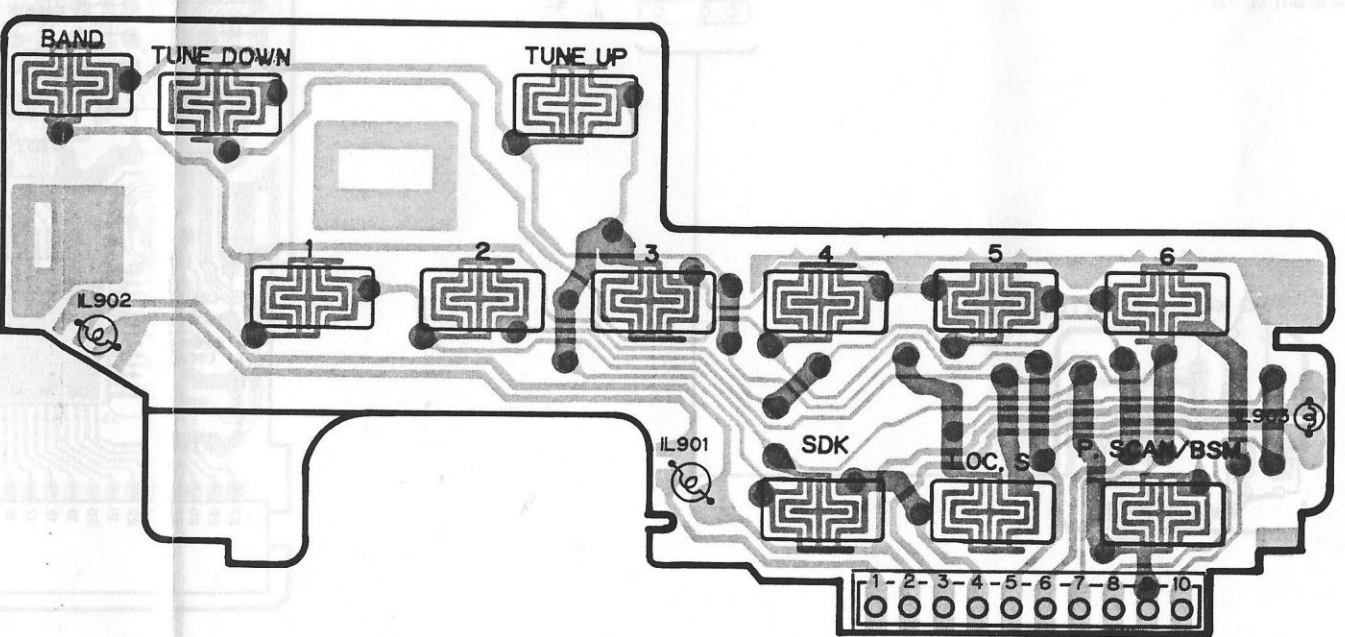


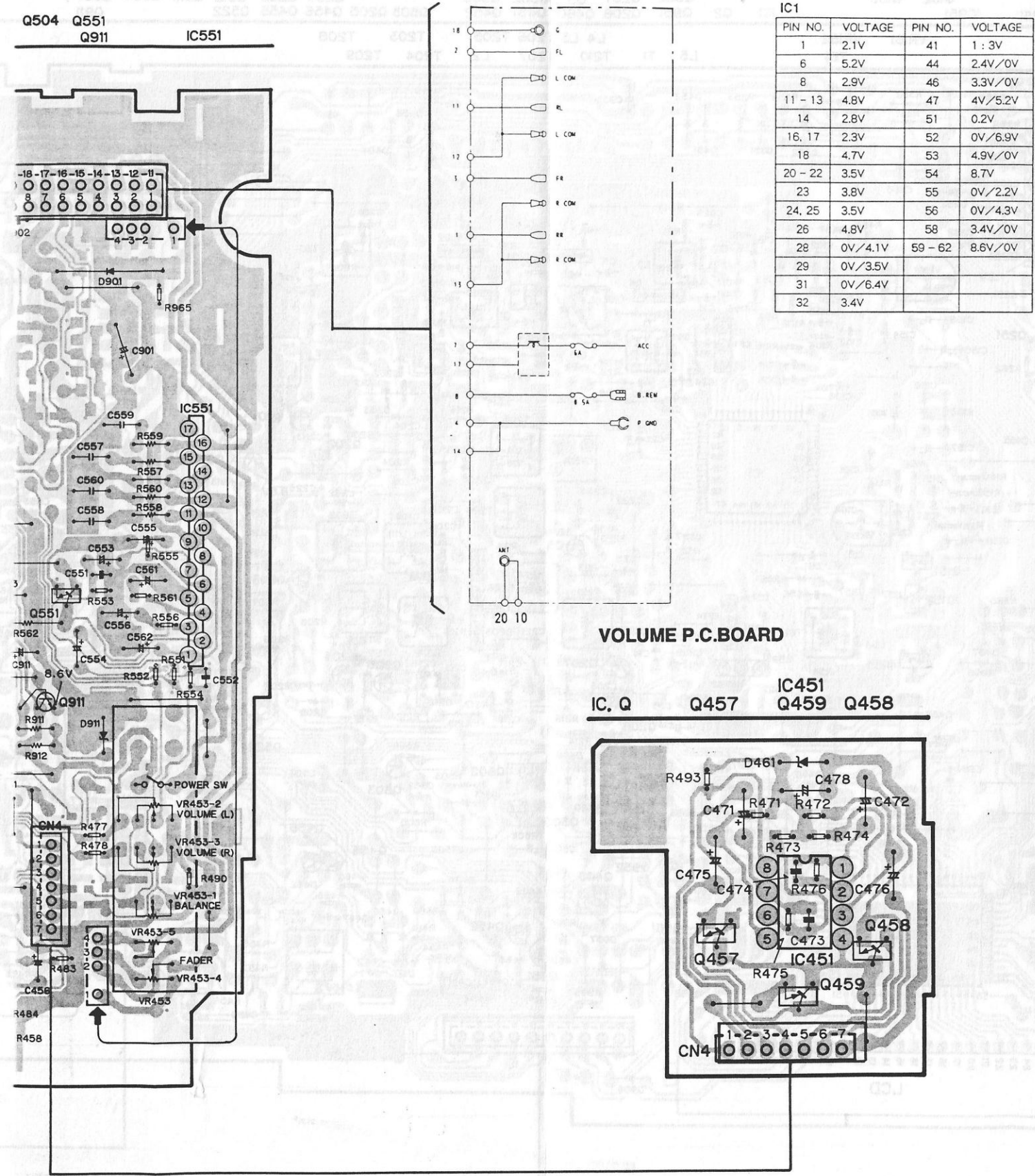
Fig. 13

1



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KEY BOARD UNIT

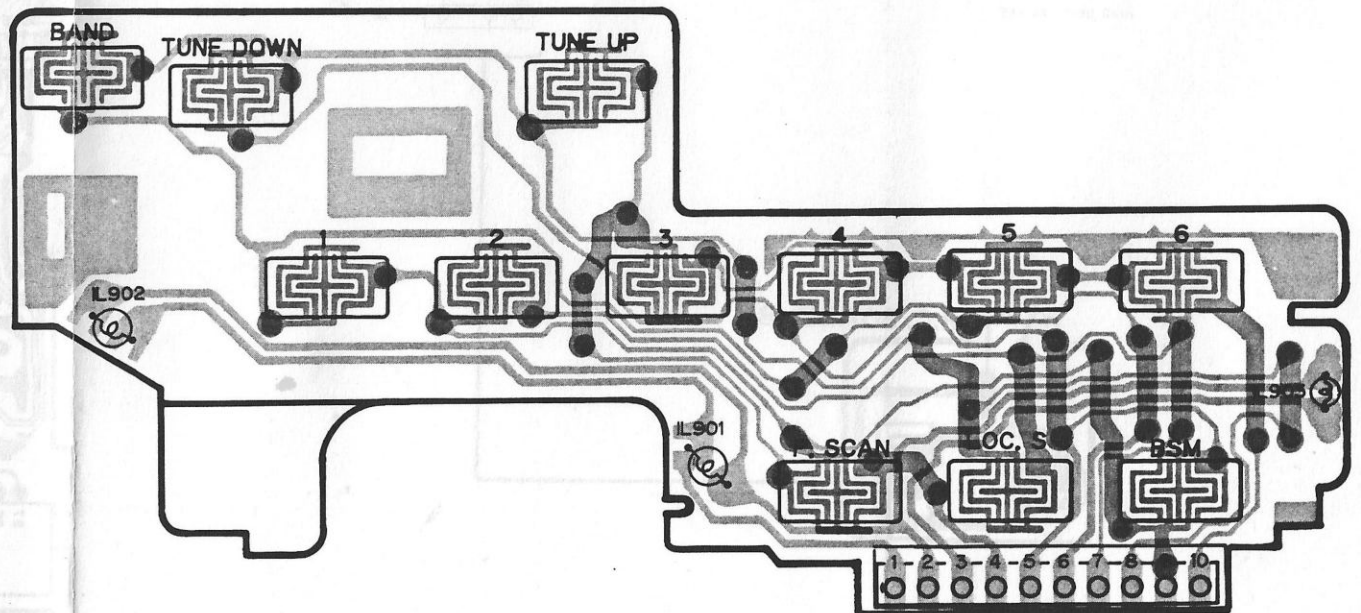
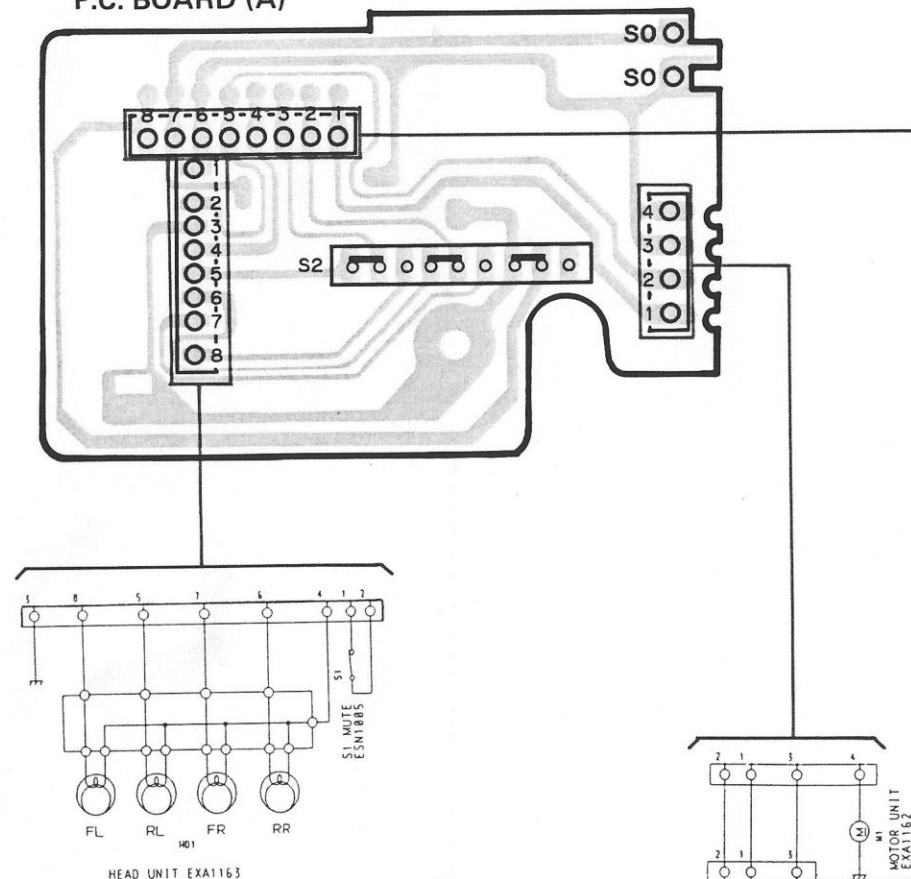


Fig. 16

16. CONNECTION DIAGRAM (KEH-2400B)

A

P.C. BOARD (A)

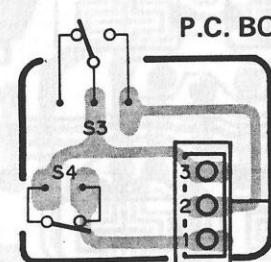


B

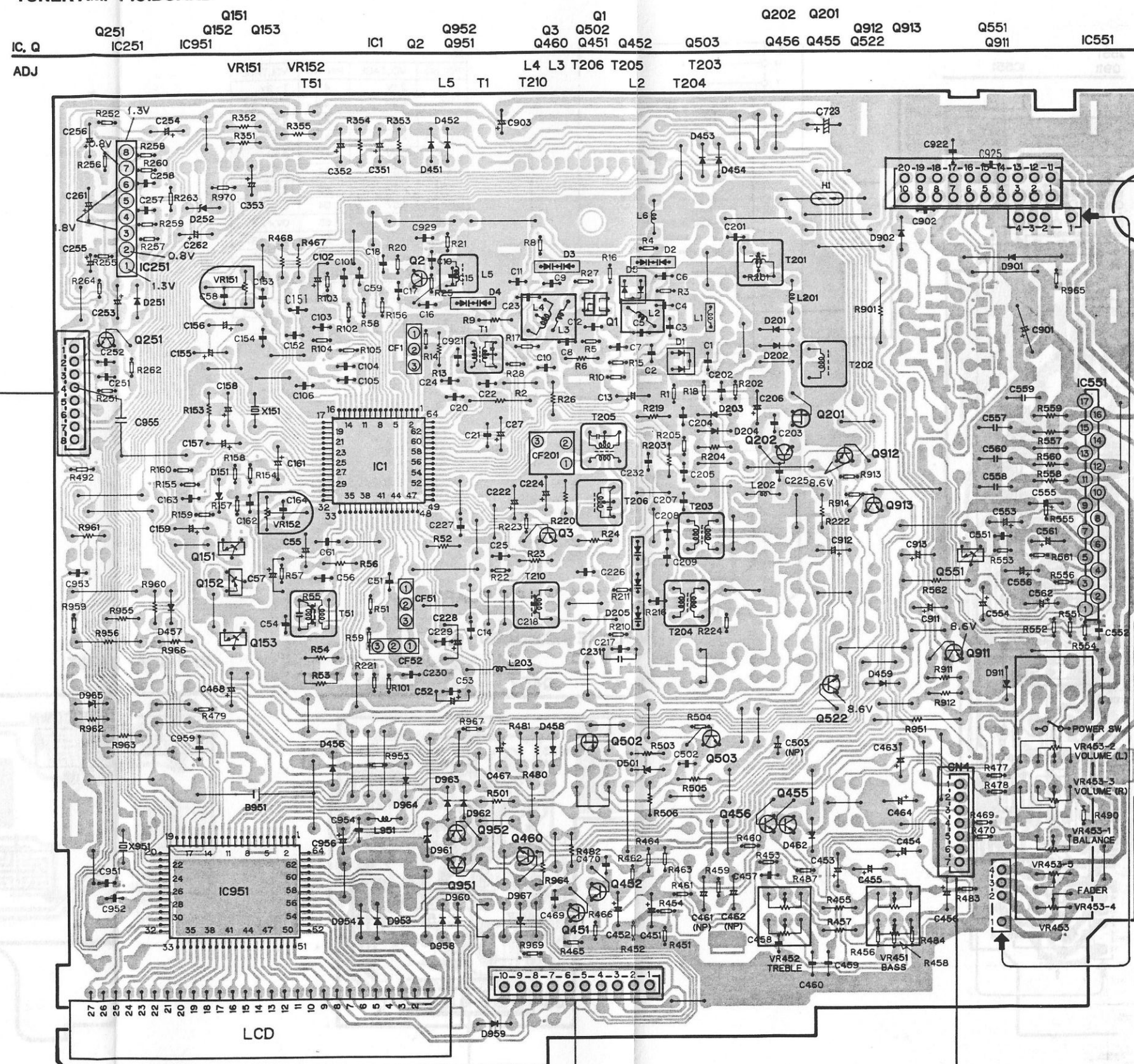
C

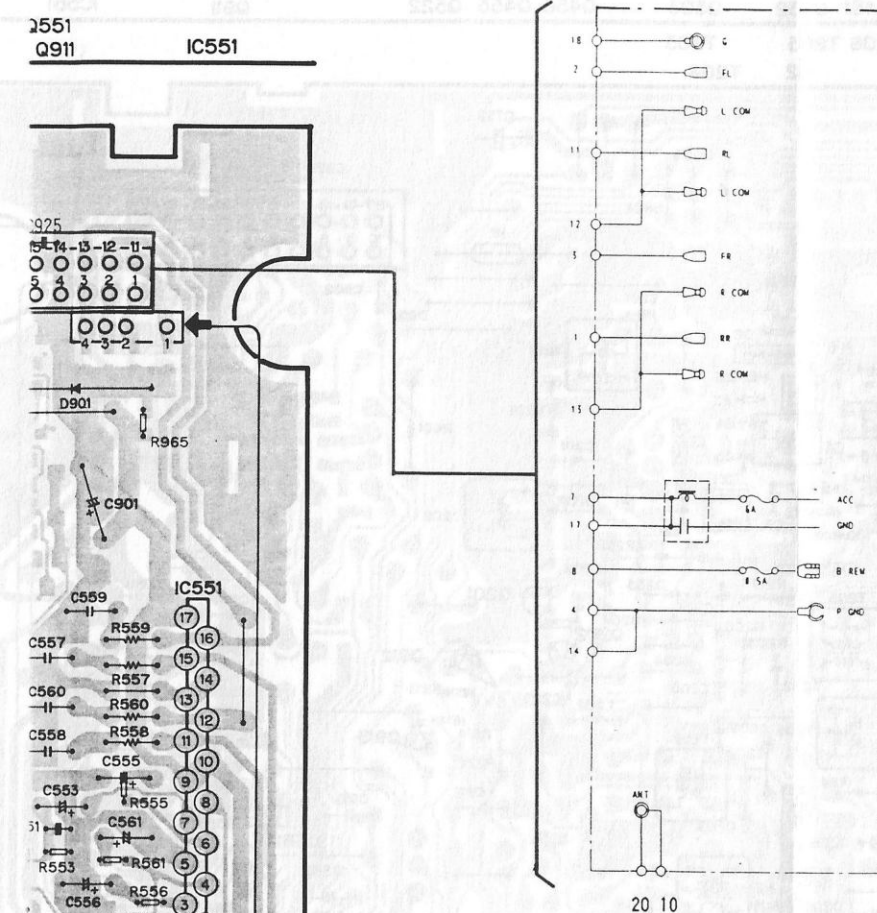
D

P.C. BOARD (B)

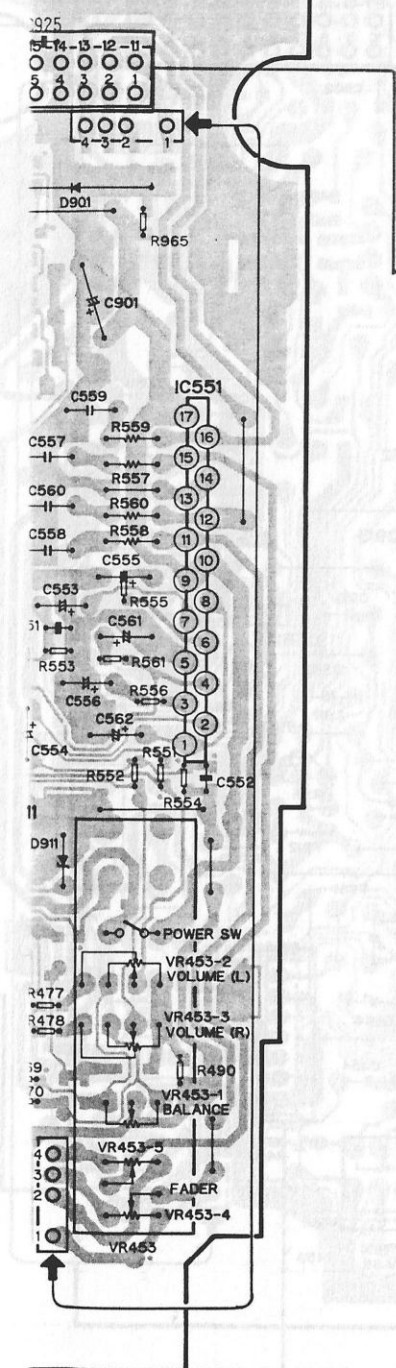


TUNER AMP P.C. BOARD

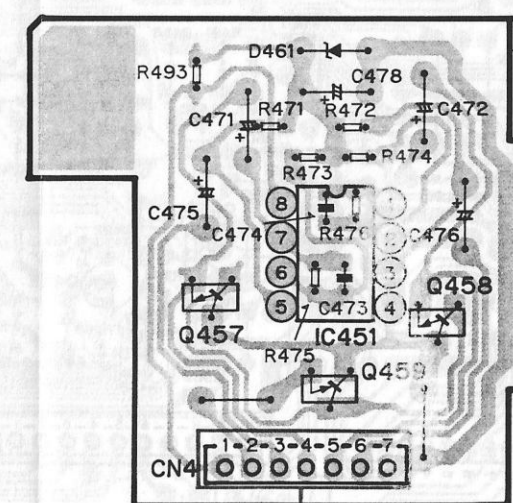
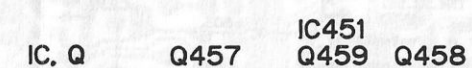




PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	2.1V	41	1 : 3V
6	5.2V	44	2.4V/0V
8	2.9V	46	3.3V/0V
11 - 13	4.8V	47	4V/5.2V
14	2.8V	51	0.2V
16, 17	2.3V	52	0V/6.9V
18	4.7V	53	4.9V/0V
20 - 22	3.5V	54	8.7V
23	3.8V	55	0V/2.2V
24, 25	3.5V	56	0V/4.3V
26	4.8V	58	3.4V/0V
28	0V/4.1V	59 - 62	8.6V/0V
29	0V/3.5V		
31	0V/6.4V		
32	3.4V		



VOLUME P.C.BOARD



KEY BOARD UNIT

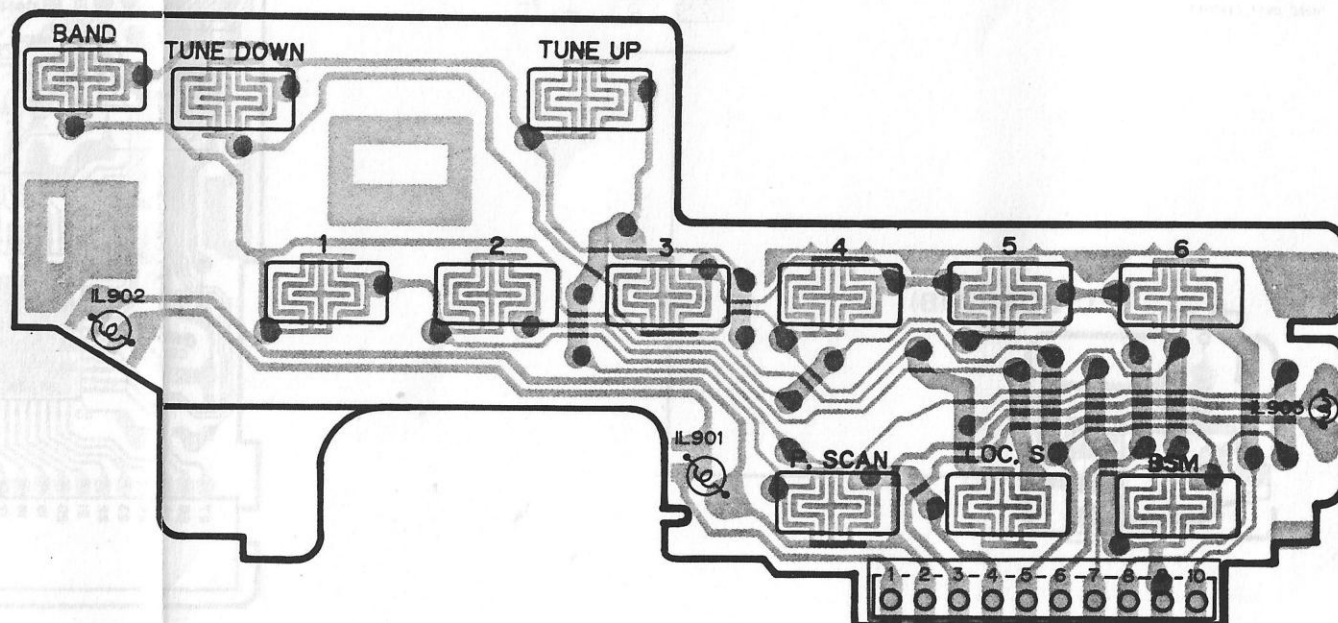
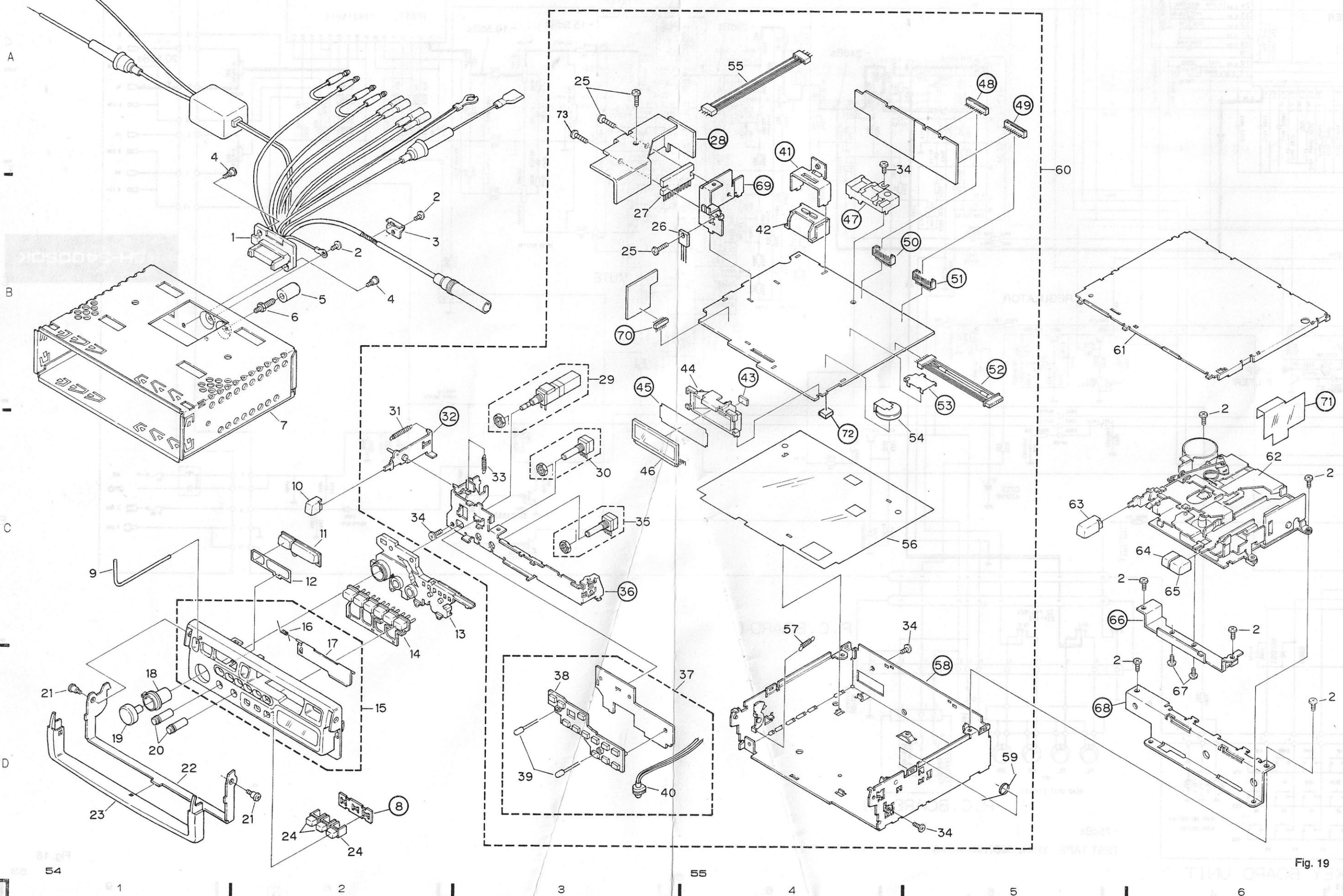


Fig. 17

18. EXPLODED VIEW



NOTE:

- The parts marked with "●" may need long time to supply and their supply is subject to refuse as the case may be.
- Because the parts with encircled number shown on the dismantling drawing are not spare parts, we are unable to supply them in principle.

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Cord Assy	CDE3690	38	Switch	CNV2519
2	Screw	BSZ30P060FMC	39	Lamp(IL 901,902)	CEL1013
3	Clamper	CNC2982	40	Lamp(IL 903)	CEL1168
4	Screw	CBA1073			
5	Bush	CNV1009	41	Holder	CNC3260
			42	Connector	CKS1977
6	Screw	CBA1002	43	Spacer	CNM2914
7	Box	CNB1553	44	Holder	CNV2521
8	Cushion	CNM3180	45	Plate	CNM3285
9	Shaft	CLP1064			
10	Button(QR EJECT)	CAC2548	46	LCD	CAW1162
			47	Case	CNC3276
11	Button(BAND/TUNE)	CAC2544	48	Connector	CKS1997
12	Spacer	CNM3275	49	Connector	CKS1997
13	Lens	CNV3024	50	Plug	CKS1986
14	Button(1-6)	CAC2692			
15	Grille Unit	CXA4457	51	Plug	CKS1986
			52	Connector	CDE2884
16	Spring	CBH1397	53	Shield	CNC3275
17	Door	CAT1307	54	Battery(B 951)	CEX1015
18	Knob(FADER)	CAA1233	55	Connector	CDE3527
19	Knob(VOLUME)	CAA1234			
20	Knob(BASS/TREBLE)	CAA1235	56	Insulator	CNM3153
			57	Spring	CBH1447
21	Screw	CBA1165	58	Chassis Unit	CXA4524
22	Handle	CNC4007	59	Spring	CBH1366
23	Cover	CNV3022	● 60	Tuner Amp Assy	CWM2901
24	Button	CAC3097			
25	Screw	BSZ30P120FMC	61	Case	CNB1552
			● 62	Cassette Mechanism Assy	EXK1720
26	Transistor(Q 911)	2SD1684	63	Button(EJECT)	CAC2545
27	IC(IC 551)	TA8215H-A	64	Button(REW)	CAC2547
28	Heat Sink	CNC3896			
29	Volume(VOLUME, VR453)	CCS1193	65	Button(FF)	CAC2546
30	Volume(BASS, VR451)	CCS1164	66	Bracket	CNC3265
			67	Screw	BSZ26P060FMC
31	Spring	CBH1448	68	Bracket	CNC3264
32	Lever Unit	CXA4523	69	Holder	CNC3897
33	Spring	CBH-846			
34	Screw	BSZ30P055FUC	70	Plug	CKS1616
35	Volume(TREBLE, VR452)	CCS1164	71	Insulator	CNM3036
			72	Spacer	CNN-625
36	Holder Unit	CXA3709	73	Screw	BSZ30P100FMC
● 37	Key Board Unit	CWM2929			

- The KEH-3430B/EW, KEH-2400SDK/WG, KEH-2430B/EW and KEH-2400B/EW Parts Lists enumerate the parts which differ from those enumerated in the KEH-3400SDK/WG Parts List only.
The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly.
The KEH-3400SDK/WG Parts List is given on page 56.

Mark No. Description	KEH-3400SDK/WG	KEH-3430B/EW	KEH-2400SDK/WG	KEH-2430B/EW	KEH-2400B/EW
	Part No.	Part No.	Part No.	Part No.	Part No.
1 Cord Assy	CDE3690	CDE3435	CDE3690	CDE3435	CDE3690
14 Button(1-6)	CAC2692	CAC2692	CAC2670	CAC2670	CAC2670
15 Grille Unit	CXA4457	CXA4455	CXA4463	CXA4461	CXA4462
29 Volume(VOLUME, VR453	CCS1193	CCS1193	CCS1194	CCS1194	CCS1194
● 37 Key Board Unit	CWM2929	CWM2929	CWM2929	CWM2929	CWM2931
39 Lamp(IL 901,902)	CEL1013	CEL1013	CEL1013	CEL1013	CEL-147
40 Lamp(IL 903)	CEL1168	CEL1168	CEL1168	CEL1168	CEL1167
48 Connector	CKS1997	.....	CKS1997	.....	.....
49 Connector	CKS1997	CKS1997	.....	.....	.....
50 Plug	CKS1986	.....	CKS1986	.....	.....
51 Plug	CKS1986	CKS1986	.....	.....	.....
52 Connector	CDE2884	CDE2884	CDE3064	CDE3064	CDE3064
58 Chassis Unit	CXA4524	CXA4426	CXA4557	CXA4526	CXA4426
● 60 Tuner Amp Assy	CWM2901	CWM2899	CWM2907	CWM2905	CWM2906
● 62 Cassette Mechanism Assy	EXK1720	EXK1720	EXA1710	EXK1710	EXK1710

19. CASSETTE MECHANISM ASSY EXPLODED VIEW (KEH-3400SDK, KEH-3430B)

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Reel Unit	EXA1204	41	Spring	EBH1363
2	Gear Unit	EXA1200	42	Motor Unit	EXA1162
3	Washer	CBF1037	43	Screw	PMS26P025FUC
4	Gear	ENV1230	44	Screw	CBA1054
5	Gear	ENV1203	45	Gathering P.C. Board	ENX1005
6	Gear	ENV1204	46	Switch	ESH1004
7	Gear	ENV1273	47	Switch	CSN1005
8	Gear	ENV1211	48	Screw	CBA1025
9	Sub Chassis Unit	EXA1197	49	Gear	ENV1229
10	Arm	ENV1210	50	Washer	CBF1038
11	Screw	BMZ20P025FMC	51	Belt	ENT1020
12	Spring	EBH1366	52	Gear	ENV1209
13	.....		53	Arm Unit	EXA1155
14	.....		54	Washer	YE30FUC
15	Shaft	ELA1266	55	Spring	EBH1310
16	Lever	ENC1269	56	Flywheel Unit	EXA1161
17	Washer	EBF1015	57	Belt	ENT1018
18	Gear	ENV1208	58	Arm	ENV1206
19	Spring	EBH1361	59	Spring	EBH1317
20	Spring	EBH1362	60	Gear	ENV1205
21	Lever	ENC1255	61	Chassis Unit	EXA1196
22	Spring	EBH1359	62	Screw	JFZ20P025FNI
23	Washer	YE25FUC	63	Bracket	ENC1250
24	Spring	EBH1358	64	Pulley	ENV1207
25	.....		65	Solenoid	EXP1010
26	Lever	ENC1256	66	Screw	EBA1023
27	Spring	EBH1373	67	Plug	CKS1055
28	Arm	ENC1248	68	Gathering P.C. Board	ENX1004
29	Spring	EBH1308	69	Switch	ESH1003
30	Washer	YE15FUC	70	Washer	WH23FMC
31	Arm Unit	EXA1198	71	Screw	BSZ23P040FMC
32	Spring	EBH1374	72	Screw	CBA1015
33	Frame	ENC1204	73	Head Unit	EXA1163
34	Arm	ENC1263	74	P.C. Board	ENP1042
35	.....		75	Switch	ESN1005
36	Holder	ENC1257	76	Washer	YE20FUC
37	Spring	EBH1364	77	Pinch Roller Unit	EXA1194
38	Lever	ENV1222	78	Washer	YE12FUC
39	Head Base Unit	EXA1203	79	Roller	ELA1247
40	Tube		80	Arm Unit	EXA1166

Mark No.	Description	Part No.
81	Screw	CBA1038
82	Arm	ENV1227
83	Spring	EBH1368
84	Arm	ENC1266
85	Spring	EBH1322
86	Lever	ENC1228
87	Spring	EBH1365
88	Lever	ENC1229
89	Arm Unit	EXA1158
90	Pinch Roller Unit	EXA1193
91	Spring	EBH1375
92	Arm Unit	EXA1157
93	Spring	EBH1345
94	Collar	ELA1267

● Cassette Mechanism Assy

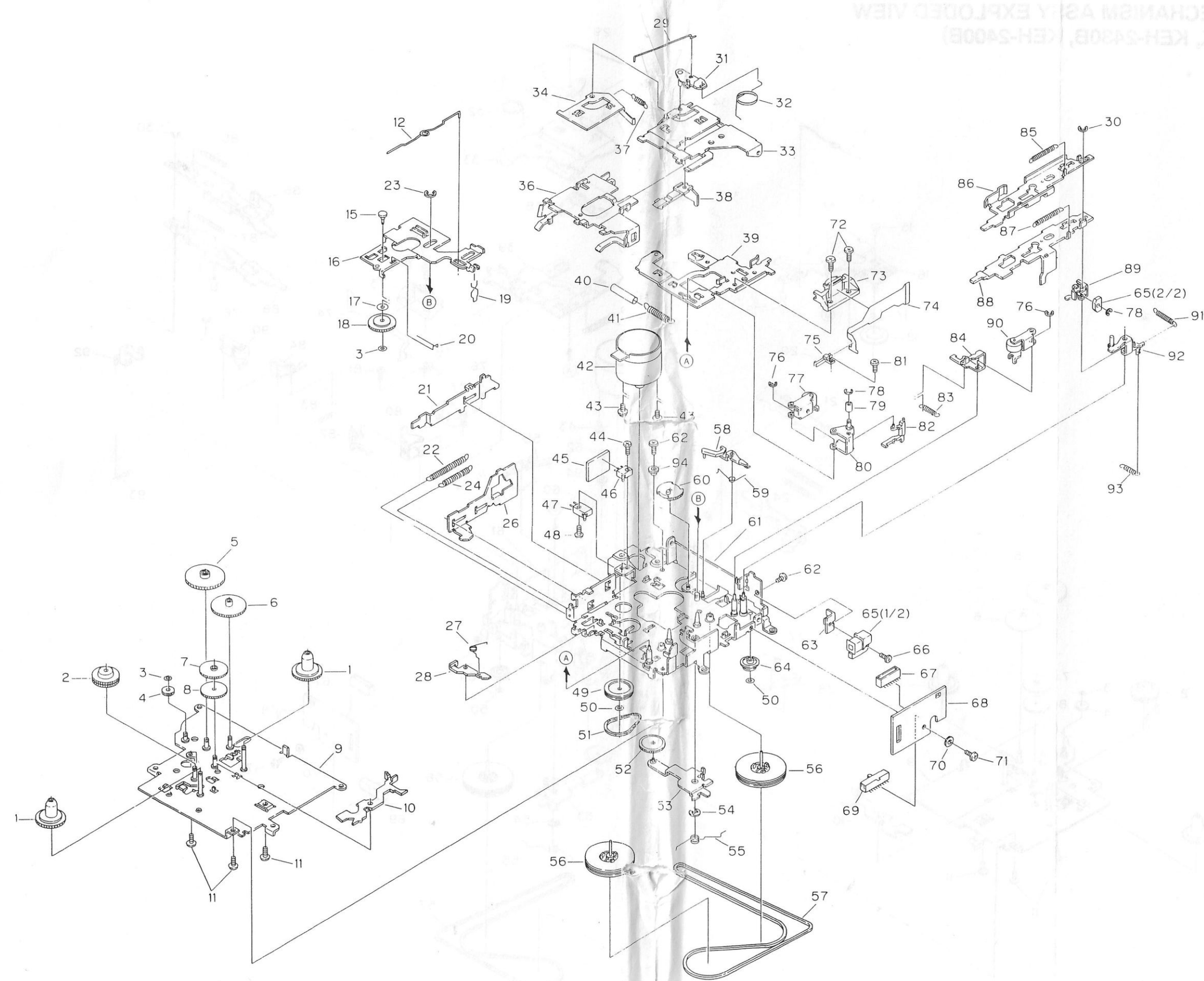


Fig. 20

● Parts List

	Mark No.	Description	Part No.	Mark No.	Description	Part No.
A		1 Reel Unit	EXA1104	41 Spring	EBH1363	
		2 Gear Unit	EXA1200	42 Motor Unit	EXA1162	
		3 Washer	CBF1037	43 Screw	PMS26P025FUC	
		4 Gear	ENV1230	44 Screw	CBA1054	
		5 Gear	ENV1203	45 Gathering P.C. Board	ENX1005	
		6 Gear	ENV1204	46 Switch	ESH1004	
		7 Gear	ENV1273	47 Switch	CSN1005	
		8 Gear	ENV1211	48 Screw	CBA1025	
		9 Sub Chassis Unit	EXA1197	49 Gear	ENV1229	
		10 Arm	ENV1210	50 Washer	CBF1038	
		11 Screw	BMZ20P025FMC	51 Belt	ENT1020	
		12 Spring	EBH1366	52 Gear	ENV1209	
B		13		53 Arm Unit	EXA1155	
		14		54 Washer	YE30FUC	
		15 Shaft	ELA1266	55 Spring	EBH1310	
		16 Lever	ENC1269	56 Flywheel Unit	EXA1161	
		17 Washer	EBF1015	57 Belt	ENT1018	
		18 Gear	ENV1208	58 Arm	ENV1206	
		19 Spring	EBH1361	59 Spring	EBH1317	
		20 Spring	EBH1362	60 Gear	ENV1205	
		21 Lever	ENC1255	61 Chassis Unit	EXA1196	
		22 Spring	EBH1359	62 Screw	JFZ20P025FNI	
		23 Washer	YE25FUC	63		
		24 Spring	EBH1358	64 Pulley	ENV1207	
C		25		65		
		26 Lever	ENC1256	66		
		27 Spring	EBH1373	67 Plug	CKS1055	
		28 Arm	ENC1248	68 Gathering P.C. Board	ENX1004	
		29 Spring	EBH1308	69 Switch	ESH1003	
		30 Washer	YE15FUC	70 Washer	WH23FMC	
		31 Arm Unit	EXA1198	71 Screw	BSZ23P040FMC	
		32 Spring	EBH1374	72 Screw	CBA1015	
		33 Frame	ENC1204	73 Head Unit	EXA1163	
		34 Arm	ENC1263	74 P.C. Board	ENP1042	
		35		75 Switch	ESN1005	
		36 Holder	ENC1257	76 Washer	YE20FUC	
D		37 Spring	EBH1364	77 Pinch Roller Unit	EXA1194	
		38 Lever	ENV1222	78		
		39 Head Base Unit	EXA1203	79		
		40 Tube		80 Arm	ENC1213	

Mark No.	Description	Part No.
81	Screw	CBA1038
82	Arm	ENV1227
83	Spring	EBH1368
84	Arm	ENC1266
85	Spring	EBH1365
86	Lever	ENC1206
87	Spring	EBH1365
88	Lever	ENC1207
89	.....	
90	Pinch Roller Unit	EXA1193
91	.....	
92	Arm	ENC1264
93	Spring	EBH1367
94	Collar	ELA1267

21. PACKING METHOD

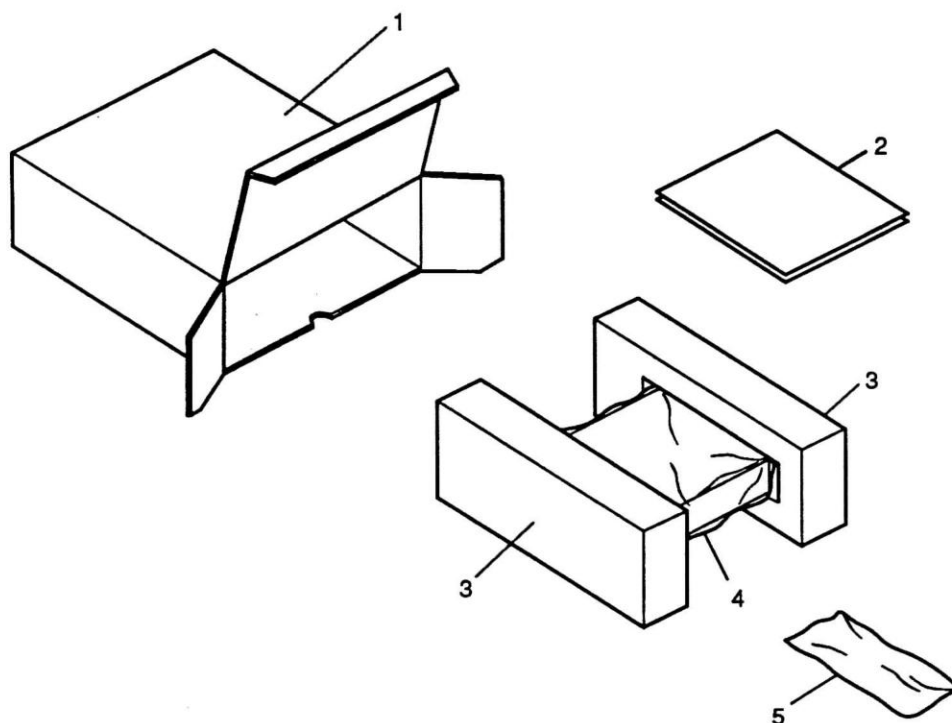


Fig. 22

● Parts List

*:Non spare part

Mark No.	Description	KEH-3400SDK/WG	KEH-3430B/EW	KEH-2400SDK/WG	KEH-2430B/EW	KEH-2400B/EW
		Part No.	Part No.	Part No.	Part No.	Part No.
1	Carton	CHG2104	CHG2106	CHG2105	CHG2107	CHG2109
2-1	Owner's Manual	CRD1531	CRD1532	CRD1531	CRD1532	CRD1533
* 2-2	Card	CRY-062	CRY-062	CRY-062	CRY-062	CRY-062
* 2-3	Caution Card	CRN1007	.....	CRN1007	.....	.....
* 2-4	Passport	CRY1013	.....	CRY1013	.....	.....
3	Styrofoam	CHP1413	CHP1413	CHP1413	CHP1413	CHP1413
4	Cover	CEG1113	CEG1113	CEG1113	CEG1113	CEG1113
5	Accessory Assy	CEA1584	CEA1584	CEA1584	CEA1584	CEA1584

5 Accessory Assy CEA1584		
Mark No.	Description	Part No.
5-1	Screw(×1)	CBA-102
5-2	Screw(×1)	CBA1002
5-3	Strap	CNF-111
5-4	Bush	CNV1009
5-5	Nut(×2)	NF50FMC
5-6	Shaft	CLP1064
* 5-7	Polyethylene Bag	CEG1011

2-1 Owner's Manual

Part No.	Model	Language
CRD1531	KEH-3400SDK/WG KEH-2400SDK/WG	German, French
CRD1532	KEH-3430B/EW KEH-2430B/EW	English, French, German, Norwegian, Dutch, Spanish, Finnish, Swedish, Portuguese
CRD1533	KEH-2400B/EW	English, Spanish, Italian, Finnish, Swedish, Portuguese

22. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/8S□□□J, RS1/10S□□□J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Unit Number :
Unit Name : Tuner Amp P.C.Board(KEH-3400SDK)

MISCELLANEOUS

-----	Circuit Symbol	& No.	Part Name	-----	Part No.	D 967			RD8R2JSB1
IC 1					LA1883M	L 1	Inductor		CTF1065
IC 251					LA3161P	L 2	Coil		CTC1022
IC 551					TA8215H-A	L 3	Coil		CTC1020
IC 951					PD4275	L 4	Coil		CTC1056
Q 1					3SK195	L 5	OSC Coil		CTC1024
Q 2					2SC2999	L 6	Inductor		LAUR22M
Q 3					2SA1309A	L 201	Ferri-Inductor		LAU4R7K
Q 151					2SC2412K	L 202	Ferri-Inductor		LAU330K
Q 152					DTA124EK	L 203	Ferri-Inductor		CTF-161
Q 153					DTC114EK	L 701	Micro-Inductor		LAUR68M
Q 201					2SK435	L 951	Ferri-Inductor		LAU101K
Q 202					2SC1740S	T 1	Coil		CTC1064
Q 251					2SD1992A	T 51	Coil		CTC1071
Q 402					XDC124ES	T 201	Coil		CTB1056
Q 451 452 453 454					2SC1740S	T 202	Coil		CTB1008
Q 455 456					DTC343TS	T 203 204	Coil		CTB1058
Q 460					DTC113ZS	T 205	Coil		CTE1041
Q 502					2SK330	T 206	Coil		CTE1042
Q 503 522					2SC1740S	T 210	Coil		CTB1061
Q 551					DTC114EK	CF 1	Ceramic Filter		CTF-182
Q 707					2SC2412K	CF 51 52	Ceramic Filter		CTF1130
Q 911					2SD1684	CF201	Filter		CTF1085
Q 912					2SA1150	H 1	Surge Protector		DSP-201M
Q 913					DTC143ES	X 151	Ceramic Resonator		CSS1066
Q 951					XDC114ES	X 951	Crystal Resonator		CSS1077
Q 952					XDA124ES	VR151	Semi-fixed 150kΩ(B)		VRMB6VS154
D 1					1SV128A-BB	VR152	Semi-fixed 33kΩ(B)		VRMB6VS333
D 2 3 4	Variable	Capacitance	Diode		SVC203-AB	VR451 452	Volume 20kΩ(U)		CCS1164
D 5					MA157-MR	VR453	20kΩ(B),50kΩ(G),200Ω		CCS1193
D 151					HZS4R3EB3	B 951	Battery		CEX1015
D 201 202 203 204					1SS133		LCD		CAW1162
D 205			Variable	Capacitance	Diode				
D 251					KV1235Z3				
D 252 911					1SS133				
D 451 452 453 454 456 458 459 462 969					HZS9R1JB2				
					1SS133				
D 460					MA700	R 1 3 5 22			RS1/10S223J
D 501					RD3R0ESB2	R 2			RD1/4PS151JL
D 702					WG713	R 4 159			RS1/10S333J
D 901					ERC04-02F	R 6			RD1/4PS473JL
D 902					ERA15-02Y1	R 8			RS1/10S563J
							</		

RESISTORS

-----	Circuit Symbol	& No.	Part Name	-----	Part No.
R 1	3 5 22		RS1/10S223J		
R 2			RD1/4PS151JL		
R 4 159			RS1/10S333J		
R 6			RD1/4PS473JL		
R 8			RS1/10S563J		

-----	Circuit Symbol	& No.	Part Name	-----	Part No.	-----	Circuit Symbol	& No.	Part Name	-----	Part No.
R	9				RD1/4PS563JL	R	480				RD1/4PS104JL
R	10	157 160			RS1/10S103J	R	481	485			RD1/4PS102JL
R	13				RD1/4PS271JL	R	482				RD1/4PS392JL
R	14				RS1/10S561J	R	483	484			RS1/10S561J
R	15				RS1/10S683J	R	487				RS1/10S0R0J
R	16				RS1/10S474J	R	489				RS1/10S563J
R	17				RS1/8S271J	R	490				RS1/10S2R2J
R	18	51			RS1/10S331J	R	491				RS1/10S273J
R	20	155			RS1/10S182J	R	492				RS1/8S0R0J
R	21				RS1/10S101J	R	501	955 966			RD1/4PS472JL
R	23				RD1/4PS472JL	R	503	506			RD1/4PS102JL
R	24				RD1/4PS682JL	R	504				RS1/10S472J
R	25				RS1/10S472J	R	505				RD1/4PS152JL
R	26				RD1/4PS103JL	R	551	552			RS1/10S332J
R	27				RS1/10S510J	R	553	554			RS1/10S123J
R	28	59			RS1/10S0R0J	R	555	556			RS1/10S391J
R	52				RD1/4PS333JL	R	557	558 559 560			RD1/4PS2R2JL
R	53				RD1/4PS104JL	R	561				RS1/10S102J
R	54				RD1/4PS123JL	R	562				RD1/4PS222JL
R	55	102 104			RS1/10S682J	R	732				RD1/4PS223JL
R	56				RD1/4PS153JL	R	734				RS1/8S271J
R	57				RS1/10S473J	R	735	736			RS1/10S102J
R	58				RS1/10S513J	R	737				RS1/8S473J
R	101				RS1/10S133J	R	738				RS1/8S103J
R	103				RS1/10S183J	R	739				RS1/10S104J
R	105				RS1/10S752J	R	740				RS1/8S0R0J
R	153				RD1/4PS562JL	R	901				RD1/2PS3R3JL
R	154				RS1/10S332J	R	911	964			RD1/4PS331JL
R	156				RS1/10S684J	R	912				RD1/4PS221JL
R	158				RS1/10S822J	R	913	967			RS1/10S103J
R	201	202 211			RS1/10S103J	R	914	965			RS1/10S222J
R	203				RD1/4PS513JL	R	951				RS1P151JL
R	204	219			RD1/4PS103JL	R	953				RS1/10S331J
R	205				RS1/10S561J	R	956				RD1/4PS474JL
R	210				RS1/10S473J	R	959				RS1/10S223J
R	220				RD1/4PS752JL	R	960				RD1/4PS222JL
R	221				RS1/10S104J	R	961				RD1/4PS333JL
R	222				RD1/4PS220JL	R	962				RD1/4PS473JL
R	223				RS1/10S472J	R	963				RD1/4PS103JL
R	224				RS1/10S0R0J	R	969				RS1/10S2R2J
R	251	252			RS1/10S513J	R	970				RS1/8S0R0J
R	255	256			RS1/10S470J	CAPACITORS					
R	257	258			RS1/10S472J	-----	Circuit Symbol	& No.	Part Name	-----	Part No.
R	259	260			RS1/10S104J	C	1	3 56			CCSQCH220J50
R	262				RS1/10S222J	C	2	53 58			CKSQYF473Z50
R	263				RS1/8S0R0J	C	4	25			CCSQCH330J50
R	264				RS1/10S0R0J	C	5				CCSQTH090D50
R	405				RD1/4PS103JL	C	6				CCSQTH070D50
R	407				RS1/10S0R0J	C	7				CKSQYB222K50
R	451	452 479			RS1/10S473J	C	8	22 51 54 59 105 154			CKSQYB223K50
R	453	454 465 466			RS1/10S331J	C	9				CCSQTH150J50
R	455				RD1/4PS182JL	C	10				CCSQSL271J50
R	456				RS1/10S182J	C	11	19 101 164			CKSQYB103K50
R	457				RD1/4PS222JL	C	12	24			CCSQCH470J50
R	458	477 478			RS1/10S222J	C	13				CEA3R3M50LS
R	459	460			RS1/10S333J	C	14	165			CKSQYB102K50
R	461	462			RS1/10S474J	C	15				CCSQCH080D50
R	463	464			RS1/8S132J	C	16				CCSQCH100D50
R	467	468			RD1/4PS562JL	C	17				CCSQCH330J50
R	469	470			RS1/10S271J						

-----	Circuit Symbol & No.	Part Name	-----	Part No.	-----	Circuit Symbol & No.	Part Name	-----	Part No.
C 18				CCSQCH150J50	C 901				CEHAQ472M16
C 20				CKSQYF104Z25	C 902				CKSQYF473Z50
C 21				CKSYB393K25	C 903				CEA331M16L2
C 23				CKSYB393K25	C 911 913	330 μ F/10V			CCH1128
C 27 52				CEA101M10LS	C 912				CEA101M10LS
C 55				CEA010M50LS2	C 921				CCSQCH101J50
C 57				CEAR47M50LS2	C 922				CKSYF473Z50
C 61				CKSYB473K50	C 923 924 926 927				CCSQCH101J50
C 102				CEA470M16LS	C 925				CCSQCH391J50
C 103				CKSQYB182K50	C 929				CKSQYB223K50
C 104				CKSQYB682K50	C 951 952				CCSQCH100D50
C 106				CKSQYB222K50	C 954				CKSYB473K50
C 151 152				CKSQYB153K50	C 955				CKDYF223Z50
C 153				CKSQYB332K50	C 956				CEA331M6R3L2
C 155 156 157				CEA010M50LS2	C 957				CEA2R2M50LS2
C 158				CEAR22M50LS2	C 958				CEA220M16LS
C 159				CEA0R1M50LS2	C 959				CKSYB223K50
C 161				CEA100M16LS2	C 960				CKSQYF473Z50
C 162 163				CKSQYB152K50	C 961				CKDYB472K50
C 201				CKSQYB103K50					
C 202				CKSQYB222K50	Unit Number :				
C 203				CCSQCH220J50	Unit Name : Tuner Amp P.C.Board(KEH-3430B)				
C 204 216 227 229 230				CKSQYB223K50	MISCELLANEOUS				
C 205 226				CKSQYF473Z50	-----	Circuit Symbol & No.	Part Name	-----	Part No.
C 206				CEA470M16LS	IC 1				LA1883M
C 207 209				CCSQTH090D50	IC 251				LA3161P
C 208				CCSQCH010C50	IC 551				TA8215H-A
C 217				CCSQRH820J50	IC 951				PD4275
C 218				CCSQUJ180J50	Q 1				3SK195
C 222				CEAR47M50LS2	Q 2				2SC2999
C 224				CEA3R3M50LS	Q 3				2SA1309A
C 225 232				CKSQYB473K25	Q 151				2SC2412K
C 228				CEA220M16LS	Q 152				DTA124EK
C 231				CQPA431G2A	Q 153				DTC114EK
C 251 252				CKSQYB821K50	Q 201				2SK435
C 253 254				CEA2R2M50LS2	Q 202 203 204 205 206 207				2SC1740S
C 255				CEA470M10LS	Q 251				2SD1992A
C 256				CEHAQ470M25	Q 402				XDC124ES
C 257 258				CKSQYB333K50	Q 451 452 453 454				2SC1740S
C 261				CEA221M10L2	Q 455 456				DTC343TS
C 262				CEHAQ101M10	Q 460				DTC113ZS
C 451 452 467 477				CEA100M16LS2	Q 502				2SK330
C 453 454				CEA0R1M50LS2	Q 503 522				2SC1740S
C 455 456				CEAR47M50LS2	Q 504				DTC143ES
C 457 458				CKSQYB153K50	Q 505				DTC124ES
C 459 460				CKSYB393K25	Q 551				DTC114EK
C 461 462				CEALNP2R2M35	Q 911				2SD1684
C 463 464				CEAR22M50LS2	Q 912				2SA1150
C 468				CEA0R1M50LS2	Q 913				DTC143ES
C 469 470				CCSQCH330J50	Q 951				DTC113ZS
C 502				CKSQYB103K50	Q 952				XDA124ES
C 503	4.7 μ F/16V			CCH1005	D 1				1SV128A-BB
C 551 552				CKSQYB102K50	D 2 3 4	Variable Capacitance Diode			SVC203-AB
C 553 554				CEHAQ4R7M50	D 5				MA157-MR
C 555 556				CEHAQ470M25	D 151				HZS4R3EB3
C 557 558 559 560				CFTNA224J50	D 201 202 203 204				1SS133
C 561				CEHAQ220M50	D 205				KV1235Z3
C 562				CEHAQ101M10	D 251				1SS133
C 723				CEA471M16L2	D 252 911				HZS9R1JB2
C 725				CCSQCH330J50					

-----	Circuit Symbol	& No.	Part Name	-----	Part No.	-----	Circuit Symbol	& No.	Part Name	-----	Part No.
D 451	452	453	454	456	457	458	459	462	1SS133	R 23	RD1/4PS472JL
D 460									MA700	R 24	RD1/4PS682JL
D 501									RD3R0ESB2	R 25	RS1/10S472J
D 901									ERC04-02F	R 26	RD1/4PS103JL
D 902									ERA15-02Y1	R 27	RS1/10S510J
D 956	957	958	959	960	962	963			WG713	R 28 59	RS1/10S0R0J
D 961									RD5R6JSB2	R 52	RD1/4PS333JL
D 964									MA700	R 53	RD1/4PS104JL
D 965									RD5R1JSB2	R 54	RD1/4PS123JL
D 967									RD8R2JSB1	R 55 102 104	RS1/10S682J
L 1									Inductor	CTF1065	RD1/4PS153JL
L 2									Coil	CTC1022	RS1/10S473J
L 3									Coil	CTC1020	RS1/10S513J
L 4									Coil	CTC1056	RS1/10S133J
L 5									OSC Coil	CTC1024	RS1/10S183J
L 6									Inductor	LAUR22M	RS1/10S752J
L 201									Ferri-Inductor	LAU4R7K	RD1/4PS562JL
L 202									Ferri-Inductor	LAU330K	RS1/10S332J
L 203									Ferri-Inductor	CTF-161	RS1/10S684J
L 951									Ferri-Inductor	LAU101K	RS1/10S822J
T 1									Coil	CTC1064	RS1/10S103J
T 51									Coil	CTC1071	RD1/4PS513JL
T 201									Coil	CTB1056	RD1/4PS103JL
T 202									Coil	CTB1079	RS1/10S561J
T 203 204									Coil	CTB1058	RD1/4PS474JL
T 205									Coil	CTE1041	RD1/4PS561JL
T 206									Coil	CTE1042	RS1/10S473J
T 207									Coil	CTB1077	RD1/4PS104JL
T 208 209									Coil	CTB1002	RS1/10S821J
T 210									Coil	CTB1060	RS1/10S474J
CF 1									Ceramic Filter	CTF-182	RD1/4PS752JL
CF 51 52									Ceramic Filter	CTF1130	RS1/10S104J
CF201									Filter	CTF1085	RD1/4PS220JL
H 1									Surge Protector	DSP-201M	RS1/10S472J
X 151									Ceramic Resonator	CSS1066	RS1/10S513J
X 951									Crystal Resonator	CSS1077	RS1/10S470J
VR151									Semi-fixed 150k Ω (B)	VRMB6VS154	RS1/10S472J
VR152									Semi-fixed 33k Ω (B)	VRMB6VS333	RS1/10S104J
VR451 452									Volume 20k Ω (U)	CQS1164	RS1/10S222J
VR453	Volume/Switch								20k Ω (B),50k Ω (G),200 Ω	CCS1193	RS1/8S0R0J
B 951									Battery	CEX1015	RS1/10S0R0J
									LCD	CAW1162	RD1/4PS103JL
RESISTORS										R 405	RS1/10S0R0J
										R 407	RS1/10S473J
										R 451 452 479	RS1/10S473J
										R 453 454 465 466	RS1/10S331J
R 1 3 5 22									RS1/10S223J	R 455	RD1/4PS182JL
R 2									RD1/4PS151JL	R 456	RS1/10S182J
R 4 159									RS1/10S333J	R 457	RD1/4PS222JL
R 6									RD1/4PS473JL	R 458 477 478	RS1/10S222J
R 8									RS1/10S563J	R 459 460	RS1/10S333J
R 9									RD1/4PS563JL	R 461 462	RS1/10S474J
R 10 157 160									RS1/10S103J	R 463 464	RS1/8S122J
R 13									RD1/4PS271JL	R 467 468	RD1/4PS562JL
R 14									RS1/10S561J	R 469 470	RS1/10S102J
R 15									RS1/10S683J	R 480	RD1/4PS104JL
R 16									RS1/10S474J	R 481	RD1/4PS222JL
R 17									RS1/8S271J	R 482	RD1/4PS392JL
R 18 51									RS1/10S331J	R 483 484	RS1/10S561J
R 20 155									RS1/10S182J	R 487	RS1/10S0R0J
R 21									RS1/10S101J	R 489	RS1/10S563J

-----	Circuit Symbol	& No.	Part Name	-----	Part No.	-----	Circuit Symbol	& No.	Part Name	-----	Part No.
R 490					RS1/10S0R0J	C 104					CKSQYB682K50
R 491					RS1/10S273J	C 106					CKSQYB222K50
R 492					RS1/8S0R0J	C 151 152					CKSQYB153K50
R 501 502					RD1/4PS222JL	C 153					CKSQYB332K50
R 503 506					RD1/4PS102JL	C 155 156 157					CEA010M50LS2
R 504					RS1/10S472J	C 158					CEAR22M50LS2
R 505					RD1/4PS152JL	C 159					CEA0R1M50LS2
R 507					RD1/4PS331JL	C 161					CEA100M16LS2
R 551 552					RS1/10S332J	C 162 163					CKSQYB152K50
R 553 554					RS1/10S123J	C 201					CKSQYB103K50
R 555 556					RS1/10S471J	C 202					CKSQYB222K50
R 557 558 559 560					RD1/4PS4R7JL	C 203					CCSQCH220J50
R 561					RS1/10S102J	C 204 217 227 229 230					CKSQYB223K50
R 562					RD1/4PS222JL	C 205 226					CKSQYF473Z50
R 901					RD1/2PS3R3JL	C 206					CEA470M16LS
R 911 964					RD1/4PS331JL	C 207 209					CCSQTH090D50
R 912					RD1/4PS221JL	C 208					CCSQCH010C50
R 913					RS1/10S103J	C 210 211 220 221					CKSQYF473Z50
R 914 965					RS1/10S222J	C 212					CCSQRH101J50
R 951					RS1P151JL	C 213					CCSQCH180J50
R 953					RS1/10S331J	C 214					CQPA331G2A
R 955 966					RD1/4PS472JL	C 215					CCSQRH820J50
R 956					RD1/4PS474JL	C 216					CKSQYB103K50
R 959					RS1/10S223J	C 218					CCSQJ150J50
R 960					RD1/4PS222JL	C 219					CCSQJ470J50
R 961					RD1/4PS333JL	C 222					CEAR47M50LS2
R 962					RD1/4PS473JL	C 224					CEA3R3M50LS
R 963					RD1/4PS103JL	C 225 232					CKSQYB473K25
R 967					RS1/10S0R0J	C 228					CEA220M16LS
R 969					RS1/10S2R2J	C 251 252					CKSQYB821K50
R 970					RS1/8S0R0J	C 253 254					CEA2R2M50LS2
CAPACITORS						C 255					CEA470M10LS
						C 256					CEA470M10L2
						C 257 258					CKSQYB333K50
						C 261					CEA221M10L2
C 1 3 56					CCSQCH220J50	C 262					CEA101M10L2
C 2 53 58					CKSQYF473Z50	C 451 452 467 477					CEA100M16LS2
C 4 25					CCSQCH330J50	C 453 454					CEA0R1M50LS2
C 5					CCSQTH090D50	C 455 456					CEAR47M50LS2
C 6					CCSQTH070D50	C 457 458					CKSQYB153K50
C 7					CKSQYB222K50	C 459 460					CKSYB393K25
C 8 22 51 54 59 105 154					CKSQYB223K50	C 461 462					CEALNP2R2M35
C 9					CCSQTH150J50	C 463 464					CEAR22M50L2
C 10					CCSQSL271J50	C 468					CEA010M50LS2
C 11 19 101 164					CKSQYB103K50	C 469 470					CCSQCH330J50
C 12 24					CCSQCH470J50	C 501					CEAR47M50LS2
C 13					CEA3R3M50LS	C 502					CKSQYB103K50
C 14					CKSQYB102K50	C 503			4.7 μ F/16V		CCH1005
C 15					CCSQCH080D50	C 551 552					CKSQYB102K50
C 16					CCSQCH100D50	C 553 554					CEHAQ4R7M50
C 17					CCSQCH330J50	C 555 556					CEHAQ470M25
C 18					CCSQCH150J50	C 557 558 559 560					CFTNA224J50
C 20					CKSQYF104Z25	C 561					CEHAQ220M50
C 21					CKSYB393K25	C 562					CEHAQ101M10
C 23					CKSYB393K25	C 901					CEHAQ472M16
C 27 52					CEA101M10LS	C 902					CKSQYF473Z50
C 55					CEA010M50LS2	C 903					CEA102M16L2
C 57					CEAR47M50LS2	C 911 913			330 μ F/10V		CCH1128
C 61					CKSYB473K50	C 912					CEA101M10LS
C 102					CEA470M16LS	C 921					CCQCH101J50
C 103					CKSQYB182K50						

-----	Circuit Symbol & No.	Part Name	-----	Part No.
C 929				CKSQYB223K50
C 951 952				CCSQCH100D50
C 953				CKSQYF473Z50
C 954				CKSYB473K50
C 955				CKDYF223Z50

C 956				CEA331M6R3L2
C 959				CKSYB223K50

Unit Number :

Unit Name : Tuner Amp P.C.Board(KEH-2400B)

MISCELLANEOUS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
IC 1				LA1883M
IC 251				LA3161P
IC 551				TA8215H-A
IC 951				PD4275
Q 1				3SK195
Q 2				2SC2999
Q 3				2SA1309A
Q 151				2SC2412K
Q 152				DTA124EK
Q 153				DTC114EK
Q 201				2SK435
Q 202				2SC1740S
Q 251				2SD1992A
Q 451 452				2SC1740S
Q 455 456				DTC343TS
Q 460				DTC113ZS
Q 502				2SK330
Q 503 522				2SC1740S
Q 551				DTC114EK
Q 911				2SD1684
Q 912				2SA1150
Q 913				DTC143ES
Q 951				DTC113ZS
Q 952				XDA124ES
D 1				1SV128A-BB
D 2 3 4		Variable Capacitance Diode		SVC203-AB
D 5				MA157-MR
D 151				HZS4R3EB3
D 201 202 203 204				1SS133
D 205		Variable Capacitance Diode		KV1235Z3
D 251				1SS133
D 252 911				HZS9R1JB2
D 451 452 453 454 456 457 458 459 462 953				1SS133
D 501				RD3R0ESB2
D 901				ERC04-02F
D 902				ERA15-02Y1
D 958 959 960 962 963				WG713
D 961				RD5R6JSB2
D 964				MA700
D 965				RD5R1JSB2
D 967				RD8R2JSB1
L 1		Inductor		CTF1065
L 2		Coil		CTC1022
L 3		Coil		CTC1020
L 4		Coil		CTC1056

-----	Circuit Symbol & No.	Part Name	-----	Part No.
L 5		OSC Coil		CTC1024
L 6		Inductor		LAUR22M
L 201		Ferri-Inductor		LAU4R7K
L 202		Ferri-Inductor		LAU330K
L 203		Ferri-Inductor		CTF-161

L 951		Ferri-Inductor		LAU101K
T 1		Coil		CTC1064
T 51		Coil		CTC1071
T 201		Coil		CTB1056
T 202		Coil		CTB1008

T 203 204		Coil		CTB1058
T 205		Coil		CTE1041
T 206		Coil		CTE1042
T 210		Coil		CTB1061
CF 1		Ceramic Filter		CTF-182

CF 51 52		Ceramic Filter		CTF1130
CF201		Filter		CTF1085
H 1		Surge Protector		DSP-201M
X 151		Ceramic Resonator		CSS1066
X 951		Crystal Resonator		CSS1077

VR151		Semi-fixed 150k Ω (B)		VRMB6VS154
VR152		Semi-fixed 33k Ω (B)		VRMB6VS333
VR451 452		Volume 20k Ω (U)		CCS1164
VR453	Volume/Switch	20k Ω (B),50k Ω (G),200 Ω		CCS1194
B 951		Battery		CEX1015

LCD CAW1162

RESISTORS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
R 1 3 5 22				RS1/10S223J
R 2				RD1/4PS151JL
R 4 159				RS1/10S333J
R 6				RD1/4PS473JL
R 8				RS1/10S563J
R 9				RD1/4PS563JL
R 10 157 160				RS1/10S103J
R 13				RD1/4PS271JL
R 14				RS1/10S561J
R 15				RS1/10S683J
R 16				RS1/10S474J
R 17				RS1/8S271J
R 18 51				RS1/10S331J
R 20 155				RS1/10S182J
R 21				RS1/10S101J
R 23				RD1/4PS472JL
R 24				RD1/4PS682JL
R 25				RS1/10S472J
R 26				RD1/4PS103JL
R 27				RS1/10S510J
R 28 59				RS1/10S0R0J
R 52				RD1/4PS333JL
R 53				RD1/4PS104JL
R 54				RD1/4PS123JL
R 55 102 104				RS1/10S682J
R 56				RD1/4PS153JL
R 57				RS1/10S473J
R 58				RS1/10S513J
R 101				RS1/10S133J
R 103				RS1/10S183J

----- Circuit Symbol & No. Part Name -----				Part No.	----- Circuit Symbol & No. Part Name -----				Part No.	
R 105				RS1/10S752J	R 956				RD1/4PS474JL	
R 153				RD1/4PS562JL	R 959				RS1/10S223J	
R 154				RS1/10S332J	R 960				RD1/4PS222JL	
R 156				RS1/10S684J	R 961				RD1/4PS333JL	
R 158				RS1/10S822J	R 962				RD1/4PS473JL	
R 201 202 211				RS1/10S103J	R 963				RD1/4PS103JL	
R 203				RD1/4PS513JL	R 967				RS1/10S0R0J	
R 204 219				RD1/4PS103JL	R 969				RS1/10S2R2J	
R 205				RS1/10S561J	R 970				RS1/8S0R0J	
R 210				RS1/10S473J						
					CAPACITORS					
-----				Circuit Symbol & No.	Part Name	-----				Part No.
R 220				RD1/4PS752JL	C 1 3 56					CCSQCH220J50
R 221				RS1/10S104J	C 2 53 58					CKSQYF473Z50
R 222				RD1/4PS220JL	C 4 25					CCSQCH330J50
R 223				RS1/10S472J	C 5					CCSQTH090D50
R 224				RS1/10S0R0J	C 6					CCSQTH070D50
R 251 252				RS1/10S513J	C 7					CKSQYB222K50
R 255 256				RS1/10S470J	C 8 22 51 54 59 105 154					CKSQYB223K50
R 257 258				RS1/10S472J	C 9					CCSQTH150J50
R 259 260				RS1/10S104J	C 10					CCSQSL271J50
R 262				RS1/10S222J	C 11 19 101 164					CKSQYB103K50
R 263				RS1/8S0R0J	C 12 24					CCSQCH470J50
R 264				RS1/10S0R0J	C 13					CEA3R3M50LS
R 351 352 355				RD1/4PS102JL	C 14					CKSQYB102K50
R 353 354				RD1/4PS153JL	C 15					CCSQCH080D50
R 451 452 479				RS1/10S473J	C 16					CCSQCH100D50
					C 17					CCSQCH330J50
R 453 454 465 466				RS1/10S331J	C 18					CCSQCH150J50
R 455				RD1/4PS182JL	C 20					CKSQYF104Z25
R 456				RS1/10S182J	C 21					CKSYB393K25
R 457				RD1/4PS222JL	C 23					CKSYB393K25
R 458 477 478				RS1/10S222J	C 27 52					CEA101M10LS
R 459 460				RS1/10S333J	C 55					CEA010M50LS2
R 461 462				RS1/10S474J	C 57					CEAR47M50LS2
R 463 464				RS1/8S122J	C 61					CKSYB473K50
R 467 468				RD1/4PS103JL	C 102					CEA470M16LS
R 469 470				RS1/10S102J	C 103					CKSQYB182K50
R 480				RD1/4PS104JL	C 104					CKSQYB682K50
R 481				RD1/4PS222JL	C 106					CKSQYB222K50
R 482				RD1/4PS392JL	C 151 152					CKSQYB153K50
R 483 484				RS1/10S561J	C 153					CKSQYB332K50
R 487				RS1/10S0R0J	C 155 156 157					CEA010M50LS2
R 490				RS1/10S0R0J	C 158					CEAR22M50LS2
R 492				RS1/8S0R0J	C 159					CEA0R1M50LS2
R 501				RD1/4PS472JL	C 161					CEA100M16LS2
R 503 506				RD1/4PS102JL	C 162 163					CKSQYB152K50
R 504				RS1/10S472J	C 201					CKSQYB103K50
R 505				RD1/4PS152JL	C 202					CKSQYB222K50
R 551 552				RS1/10S332J	C 203					CCSQCH220J50
R 553 554				RS1/10S123J	C 204 227 229 230					CKSQYB223K50
R 555 556				RS1/10S471J	C 205 226					CKSQYF473Z50
R 557 558 559 560				RD1/4PS477JL	C 206					CEA470M16LS
R 561				RS1/10S102J	C 207 209					CCSQTH090D50
R 562				RD1/4PS222JL	C 208					CCSQCH010C50
R 901				RD1/2PS3R3JL	C 216					CKSQYB223K50
R 911 964				RD1/4PS331JL	C 217					CKSQRH820J50
R 912				RD1/4PS221JL	C 218					CCSQJ180J50
R 913				RS1/10S103J						
R 914 965				RS1/10S222J						
R 951				RS1P151JL						
R 953				RS1/10S331J						
R 955 966				RD1/4PS472JL						

-----	Circuit Symbol & No.	Part Name	-----	Part No.
C 222				CEAR47M50LS2
C 224				CEA3R3M50LS
C 225 232				CKSQYB473K25
C 228				CEA220M16LS
C 231				CQPA431G2A
C 251 252				CKSQYB821K50
C 253 254				CEA2R2M50LS2
C 255				CEA470M10LS
C 256				CEA470M10L2
C 257 258				CKSQYB333K50
C 261				CEA221M10L2
C 262				CEA101M10L2
C 351 352				CEA100M16L2
C 353				CEA4R7M35L2
C 451 452 467				CEA100M16LS2
C 453 454				CEA0R1M50LS2
C 455 456				CEAR47M50LS2
C 457 458				CKSQYB153K50
C 459 460				CKSYB393K25
C 461 462				CEALNP2R2M35
C 463 464				CEAR22M50L2
C 468				CEA010M50LS2
C 469 470				CCSQCH330J50
C 502				CKSQYB103K50
C 503	4.7 μ F/16V			CCH1005
C 551 552				CKSQYB102K50
C 553 554				CEHAQ4R7M50
C 555 556				CEHAQ470M25
C 557 558 559 560				CFTNA224J50
C 561				CEHAQ220M50
C 562				CEHAQ101M10
C 723	470 μ F/16V			CCH-114
C 901				CEHAQ472M16
C 902				CKSQYF473Z50
C 903				CEA102M16L2
C 911 913	330 μ F/10V			CCH1128
C 912				CEA101M10LS
C 921				CCQCH101J50
C 922				CKSYF473Z50
C 925				CCSQCH391J50
C 929				CKSQYB223K50
C 951 952				CCSQCH100D50
C 953				CKSQYF473Z50
C 954				CKSYB473K50
C 955				CKDYF223Z50
C 956				CEA331M6R3L2
C 959				CKSYB223K50

Unit Number :
Unit Name : Volume P.C.Board

MISCELLANEOUS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
IC 451				NJM2068D
Q 457 458				DTC323TK
Q 459				DTA144TK
D 461				RD4R7JSB2

RESISTORS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
R 471 472 475 476				RS1/10S123J
R 473 474				RS1/10S332J
R 493				RS1/10S472J

CAPACITORS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
C 471 472				CEA4R7M35LS
C 473 474				CCSQCH101J50
C 475 476				CEA2R2M50LS2
C 478				CEA470M10L2
C 478 (KEH-3400SDK, KEH-2400SDK)				CEHAQ470M25

Unit Number :

Unit Name : SDK P.C.Board(KEH-3400SDK,KEH-2400SDK/WG)

MISCELLANEOUS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
IC 701				LA2220
IC 702				TA75558S
Q 701 702 705				2SC1740S
Q 703				2SK30A
Q 704				2SA1309A
Q 706				2SC2634NC
Q 708				XDC124ES
D 701				WG713
X 702		Ceramic Resonator		CSS1022
VR701		Semi-fixed 220 Ω (B)		VRMB6VS221

RESISTORS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
R 701 713 719 729				RS1/10S473J
R 702				RS1/10S472J
R 703 704 705 717				RS1/10S104J
R 706				RS1/10S223J
R 707				RS1/10S181J
R 708 710				RS1/10S102J
R 709				RD1/4PS223JL
R 711				RS1/10S271J
R 712				RS1/10S561J
R 714 716 728				RS1/10S103J
R 715				RS1/4PS472JL
R 718				RS1/10S182J
R 720				RS1/10S222J
R 721 725 727				RS1/10S0R0J
R 722				RS1/10S682J
R 723				RD1/4PS152JL
R 724				RD1/4PS153JL
R 726				RS1/10S564J
R 730				RS1/10S823J
R 731				RS1/10S123J

CAPACITORS

-----	Circuit Symbol & No.	Part Name	-----	Part No.
C 701				CKSQYB223K50
C 702 703				CKSQYB391K50
C 704 714				CEA100M16LS2
C 705				CEA220M16LS
C 706 717				CKSQYB222K50

----- Circuit Symbol & No.	Part Name	----- Part No.
C 707 713 724		CEA470M16LS
C 708		CCSLSL271J50
C 709		CKSQYB223K50
C 710 711 722		CKSQYB473K50
C 712		CEA010M50LS2
C 715 716		CQMA102J50
C 718		CQMA683J50
C 719		CEAR33M50LS2
C 720 721		CQMA473J50

Unit Number :
Unit Name : Dolby NR P.C.Board(KEH-3400SDK,KEH-3430B)

MISCELLANEOUS

----- Circuit Symbol & No.	Part Name	----- Part No.
IC 301		CXA1102P
IC 401		AN6263N
Q 301 401		XDC124ES
Q 303 304		2SC1740S
VR301 302	Semi-fixed 33kΩ(B)	VRMB6HS333

RESISTORS

----- Circuit Symbol & No.	Part Name	----- Part No.
R 302		RS1/10S433J
R 303 304		RD1/4PS433JL
R 305 306		RD1/4PS153JL
R 307		RS1/10S473J
R 309		RD1/4PS472JL
R 310		RS1/10S221J
R 311 312		RD1/4PS272JL
R 313 314		RS1/10S332J
R 315 316		RS1/10S104J
R 401 402		RS1/10S822J
R 403		RS1/10S684J
R 404		RS1/10S510J

CAPACITORS

----- Circuit Symbol & No.	Part Name	----- Part No.
C 301 302 303 304		CEA4R7M35LS
C 305 306		CEAR68M50LS2
C 307 308		CEA101M10LS
C 310		CEA100M16LS2
C 311 312		CKSQYB223K50
C 401		CKSQYB103K50
C 402		CCSQCH330J50
C 403		CEA330M10LS
C 404		CEA0R1M50LS2

Unit Number :
Unit Name : Key Board Unit(KEH-3400SDK,KEH-3430B,
KEH-2400SDK,KEH-2430B)

----- Circuit Symbol & No.	Part Name	----- Part No.
IL 901 902	Lamp 14V40mA	CEL1013
IL 903	Lamp 14V40mA	CEL1168

Unit Number :
Unit Name : Key Board Unit(KEH-2400B)

----- Circuit Symbol & No.	Part Name	----- Part No.
IL 901 902	Lamp 14V40mA	CEL-147
IL 903	Lamp 14V40mA	CEL1167

Unit Number :
Unit Name : P.C.Board(A)

----- Circuit Symbol & No.	Part Name	----- Part No.
S 2	Switch(FWD/REV)	ESH1003
D 1	(KEH-3400SDK,KEH-3430B)	1SR-35-100A

Unit Number :
Unit Name : P.C.Board(B)

----- Circuit Symbol & No.	Part Name	----- Part No.
S 3	Switch(TAPE/TUN)	ESH1004
S 4	Switch(MUTE)	CSN1005

Miscellaneous Parts List

----- Circuit Symbol & No.	Part Name	----- Part No.
S 1	Switch(MUTE)	ESN1005
M 1	Motor Unit	EXA1162
HD 1	Head Unit	EXA1163
SO 1	(KEH-3400SDK,KEH-3430B) Solenoid	EXP1010

Tuner Amp P.C.Board

	KEH-3400SDK/WG	KEH-2400SDK/WG
Circuit Symbol & No.	Part No.	Part No.
Q402	XDC124ES	.....
Q453,454	2SC1740S	.....
D460	MA700	.....
D956,957	WG713	.....
VR453	CCS1193	CCS1194
R351,352,355	.....	RD1/4PS102JL
R353,354	.....	RD1/4PS153JL
R405	RD1/4PS103JL	.....
R407	RS1/10S0R0J	.....
R489	RS1/10S563J	.....
R491	RS1/10S273J	.....
C351,352	.....	CEA100M16L2
C353	.....	CEA4R7M35L2
C477	CEA100M16LS2	.....

Tuner Amp P.C.Board

	KEH-3430B/EW	KEH-2430B/EW
Circuit Symbol & No.	Part No.	Part No.
Q402	XDC124ES	.....
Q453,454	2SC1740S	.....
D460	MA700	.....
D956,957	WG713	.....
VR453	CCS1193	CCS1194
R351,352,355	.....	RD1/4PS102JL
R353,354	.....	RD1/4PS153JL
R405	RD1/4PS103JL	.....
R407	RS1/10S0R0J	.....
R489	RS1/10S563J	.....
R491	RS1/10S273J	.....
C351,352	.....	CEA100M16L2
C353	.....	CEA4R7M35L2
C477	CEA100M16LS2	.....