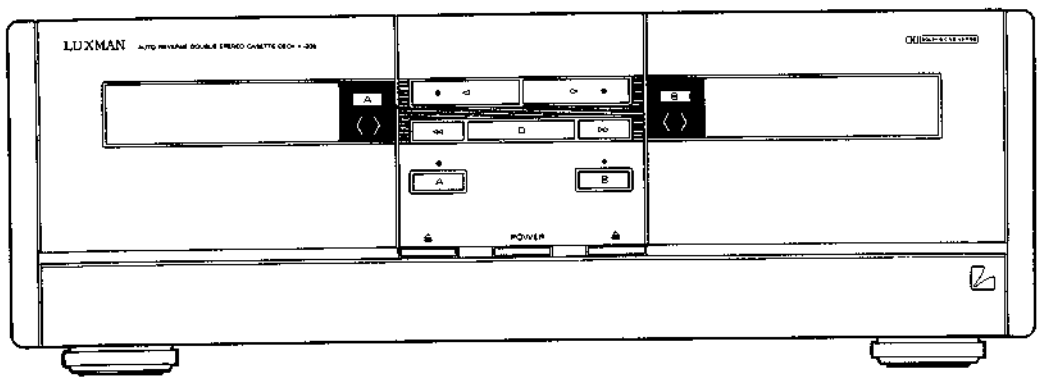
SERVICE MANUAL

Auto Reverse Double Cassette Deck

K-008



Contents

Specifications

at PLAYBACK : DECK A / B

Output Voltage (MTT-150)	550mV ± 1.5dB
S/N Ratio	DOLBY OFF : 48dB
("A" Cure WTD, MTT-150)	B : 56dB
	C : 61dB
Distortion (MTT-150, DOLBY OFF)	2.5%
Frequency Response (MTT-216)	31.5Hz to 14kHz (±4dB)
Crosstalk (MTT-121)	55dB
Stereo Separation (MTT-141)	35dB

at RECORD : DECK B

Input Sensitivity (400Hz)	(Line in) 150mV ± 2dB
Output Voltage (400Hz)	550mV ± 3dB
S/N Ratio	DOLBY OFF : 49dB
("A" Curve WTD, Metal Position from 400Hz 3% THD. Point)	B : 57dB
	C : 62dB
Distortion (400Hz Dolby Level)	3%
Frequency Response (-25dB Rec. Dolby OFF)	NORMAL : 30Hz to 15kHz (+5dB, -6dB)
	CrO_2 : 30Hz to 16kHz (+5dB, -6dB)
	Metal : 30Hz to 16kHz (+5dB, -6dB)
Crosstalk (MTT-121)	55dB
Stereo Separation (MTT-141)	35dB

at RECORD : DUBBING

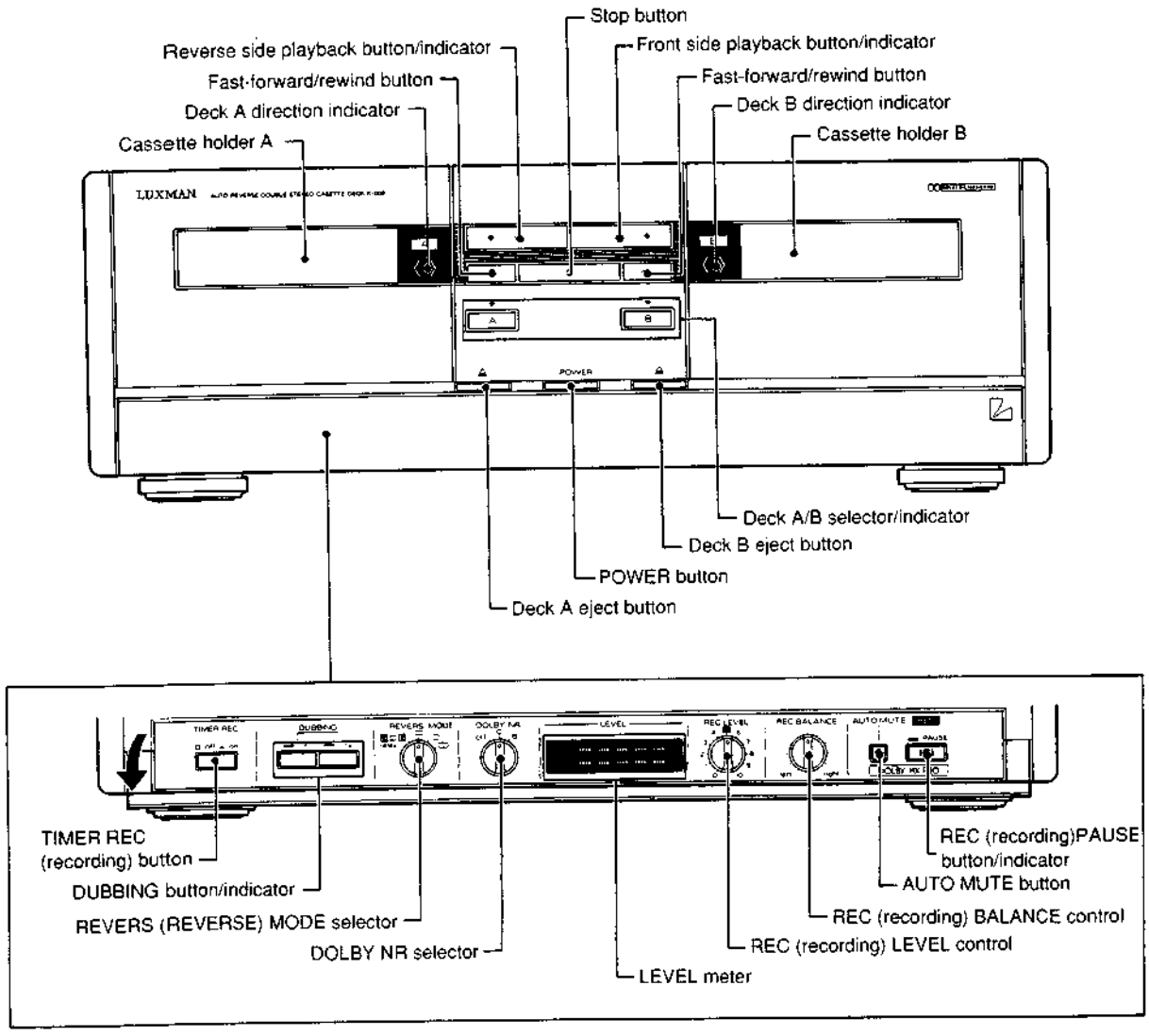
Output Voltage (MTT-150)	550mV ± 3dB
S/N Ratio	Dolby OFF : 47dB
("A" Curve WTD, Metal Position, from Blank Tape P/B)	B : 55dB
	C : 60dB
Distortion (MTT-150)	3%
Frequency Response (-25dB Rec. Dolby OFF)	30Hz to 12.5kHz (-8dB, +6dB, DUB×1)
	30Hz to 10kHz (-8dB, +6dB, DUB×2)
Crosstalk (MTT-121)	55dB
Stereo Separation (MTT-141)	35dB

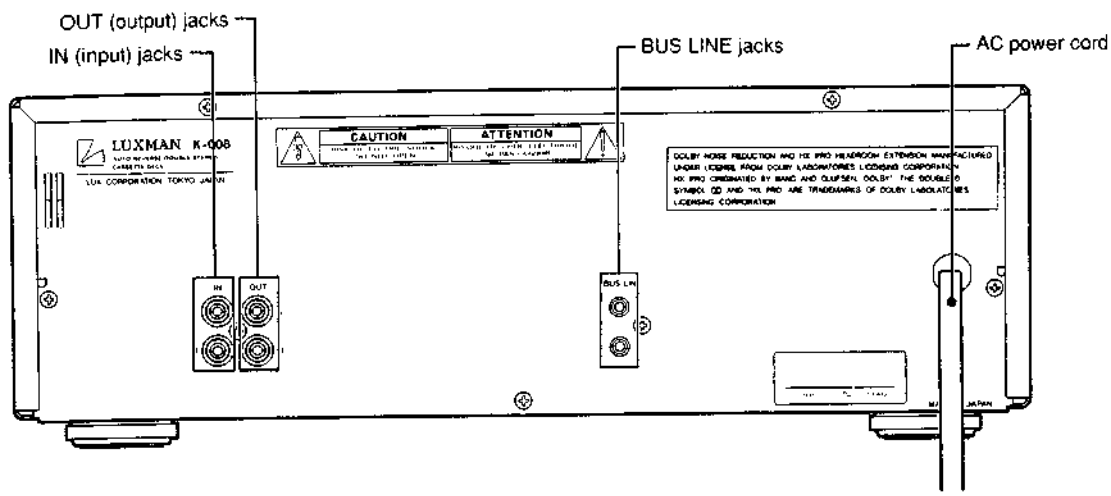
at GENERAL

Tape Speed (MTT-111)	4.76cm/sec. ±1.5% (NORMAL, DUB×1)
	9.52cm/sec. ±1.5% (DUB×2)
Wow & Flutter (JIS WTD, MTT-111)	0.12%
FF/REW Time (C-60)	110sec.
Take Up Torque	30 to 70g·cm
FF/REW Torque	90 to 180g·cm
Power Supply Voltage	AC220/240V, 50Hz
Power Consumption	30W
Load Impedance	47kohm
Semiconductors	12 IC's, 167 Transistors, 84 Diodes, 15 Zener Diodes
Dimensions	360(W)×125(H)×344(D)mm
Weight	6kg

Note : Due to continuing product improvement, specifications and designs are subject to change without notice.

Controls and Jacks





Operation Guidelines

CASSETTE INSERTION

- Turn the power on.
- Press the eject button A or B to open each cassette holder.
- Insert a cassette in the cassette holder.
- Deck A is for playback only, and no recording can be performed.
- Press the cassette holder until it is restored to the unit.
- When the cassette tape is set in place, the unit detects the cassette type and sets the optimum equalizer bias automatically.
- When recording on deck B, make sure that the tab to prevent accidental erasure is not removed. If it has been removed, the accidental erasure preventive mechanism functions and neither recording, dubbing nor blank-searching can be performed.
- Select the desired Dolby NR system with the DOLBY NR selector. Select the same system for playback as that used for recording.

RECORDING

- Insert the cassette for recording in deck B, with side A facing you.
- The deck is selected automatically by inserting a cassette without pressing the deck A/B selectors.
- If the tab to prevent accidental erasure has been removed, the accidental erasure preventive mechanism funcions and no recording can be performed. When you use such cassette for recording, apply plastic tape or equivalent on the tab position.
- Select the desired Dolby NR system with the DOLBY NR selector.
- Select the reverse mode with the REVERS MODE selector.

  ⇄ ..... When recording on one side of the tape is completed, the tape stops.

  ⇉ ⇆ A⇄B .... When recording on side A is completed, the head reverses to the beginning of side B.
  And when recording on side B is completed, the tape stops.

- Press the REC PAUSE botton. The unit enters recording pause mode and is ready to record. (The pause indicator lights.)
- Select the program source to be recorded with the REC SELECTOR of the A-008 amplifier.
- Turn the REC LEVEL control so that the maximum peak level meter reading is between 0 dB and +3dB.
- When the recording levels are uneven for the right and left channels, turn the REC BALANCE control until they are balanced.
- Press the front side playback button (▶) in recording pause mode. Recording on the front side starts.
- By pressing the AUTO MUTE button in recording pause mode or during recording, about 4 seconds interspacing is provided. If the button is kept pressed, more than 4 seconds blank can be inserted.
- To pause during recording, press the REC PAUSE button. To stop recording, press the stop button.

LOCATING A BLANK PORTION ON THE RECORDED TAPE - BLANK SEARCH FUNCTION

More than 3 minutes blank portion on the recorded tape can be located easily.

- Insert the cassette whose blank is to be located in deck B.
- Blank search does not function on the cassette without a tab to prevent accidental erasure or on deckA.
- Press the REC PAUSE button to turn on the indicator.
- Press the fast forward/rewind (◀◀ , ▶▶) button.
- The unit locates a blank in fast forward mode and enters pause mode after about 4 seconds from the beginning of the blank portion.

PLAYBACK

- Insert the cassette for playback in deck A or B.
- The deck is selected by inserting a cassette without pressing the deck A/B selector.
- Select the desired Dolby NR system with the DOLBY NR selector. Be sure to select the same system for playback as that used for recording. Otherwise, playback may not be performed properly.
- Select reverse mode with the REVERS MODE selector.

  ⇄ ..... When playback of one side is completed, the tape stops.

  ⇉ ..... After completing playback of front side, the reverse side is played back. When playback of both sides is completed, the tape stops.

⟲ ..... The front and the reverse sides are played back continuously.

A⇄B ..... After completing playback of both sides of the tape in deck A, both sides of the tape in deck B are played back. This cycle is repeated up to 8 times. (Refer to "Relay playback" for detail.)

- Select "TAPE" (the jack to which this unit is connected) of the input select buttons of the A-008 amplifier.
- Press either playback button to play back the cassette.

▶ ..... Front side of the cassette is played back.

◀ ..... Reverse side of the cassette is played back.

- By pressing ▶▶ or ◀◀ button during playback, you can locate the beginning of track. You can continue locating forward or reverse up to 8 tracks and start playback from the beginning of the track.
- During playback, if you change the deck to another one by pressing the deck A/B selector, the playback on the previous deck stops.
- Adjust the volume with the volume control of the A-008 amplifier.

RELAY PLAYBACK

- Insert cassettes in both deck A and B.
- The deck in which the cassette is inserted later is selected without pressing the deck A/B selector.
- Select the desired Dolby NR system with the DOLBY NR selector. Be sure to select the same system for playback as that used for recording. Otherwise, playback may not be performed properly.
- Select "A ⇄ B" with the REVERS MODE selector.
- Select deck A with the deck A/B selector. Then press ▶ button to play back the front side of the cassette.
- After playback of the cassette on deck A is completed, the cassette on deck B is played back. This cycle is repeated up to 8 times.

FAST FORWARD/REWINDING

- Select the deck to activate fast forwarding or rewinding with the deck A/B selector.
- In stop mode, press ◀◀ button or ▶▶ button. To fast forward, press the button of the same direction as that shown by the direction indicator. To rewind, press the button of the opposite direction.
- Pressing ◀◀ or ▶▶ button during playback locates the beginning of track. Neither fast forward nor rewinding can be done. To fast forward or rewind during playback, stop playback with the stop button. Then press ◀◀ or ▶▶ button.

TO LOCATE THE BEGINNING OF TRACK

You can locate the beginning of track by pressing the fast forward or rewind button during playback.

- During playback of the front side (▶), press ▶▶ to locate tracks after that track. Press ◀◀ to locate tracks before that track.
- During playback of the reverse side(◀), press ▶▶ to locate tracks before that track. Press ◀◀ to locate tracks after that track.
- When you start locating at the interspace between tracks, up to 8 tracks each forward and backward can be located. When the backward locating is started during playback, the present track is located as the first one and more 7 tracks can be located. When the forward locating is started during playback, 8 tracks can be located.

DUBBING

- Insert a recorded cassette in deck A and a cassette for recording in deck B.
- The deck in which the cassette is inserted later is selected without pressing the deck A/B selector.
- Press the X1 or X2 dubbing button. To perform dubbing at normal speed, press X1. To perform dubbing at double speed, press X2. By pressing of the dubbing button, deck A enters playback mode and simultaneously deck B enters recording mode.
- The dubbing on deck B is performed with the same recording level and Dolby NR system as those applied when the tape on deck A was recorded.
- During dubbing, the REC LEVEL control and REC BALANCE control do not function.
- When the REC PAUSE button or the AUTO MUTE button is pressed during dubbing, about 4 second interspace is provided on the tape on deck B, and the unit enters pause mode. To resume dubbing, press the blinking dubbing button.

- To stop dubbing, press the stop button. (Dubbing mode is automatically cleared when the tape on deck B reaches its end.)

If the unit is connected with an L component system (A-008, D-008, T-008, etc.), the remote control, timer-activated playback/recording, synchronized recording, etc. can be performed.

REMOTE CONTROL

When the BUS LINE jacks of an L component system are connected, you can operate the following buttons on the RA-008 remote control unit supplied with the A-008 amplifier. For further details, refer to the owners' manual of the A-008 amplifier.

Fast forward/rewind button .....

Reverse side playback button .....

Front side playback button .....

Deck A/B selector .....

Stop button .....

REC PAUSE button .....

AUTO MUTE button .....

TIMER-ACTIVATED PLAYBACK/RECORDING

- When the BUS LINE jacks of the L component system are connected, timer-activated playback/recording can be performed with the timer built in the T-008 tuner.
- Set the starting and ending time for timer-activated playback/recording with the timer of the T-008 tuner. Press the timer button to turn on the timer indicator in the display window. For further details, refer to the owners' manual of the T-008 tuner.
- For timer-activated playback, select TAPE of the input select buttons of the A-008 amplifier.
  For timer-activated recording, select the program source to be recorded with the REC SELECTOR of the A-008 amplifier. Also set the program source so that the unit is set to playback mode on the preset time for timer-activated recording. For further details, refer to the owners' manual of the A-008 amplifier.
- Insert the cassette for timer-activated playback or for timer-activated recording.
- Set the cassette for timer-activated recording on deck B. Make sure that the tab to prevent accidental erasure is not removed.
- Depress the TIMER REC button of this unit (ON).
- Press the POWER button of the A-008 amplifier to turn off the power of the L component system.
- Timer-activated playback or timer-activated recording will be performed at the preset time with the T-008 tuner.

SYNCHRONIZED RECORDING

When the BUS LINE jacks of the L component system are connected, synchronized recording (this unit is set to recording mode simultaneously with CD playing) can be performed simply by pressing the "synchro" button of the A-008 amplifier.

- Insert the cassette for recording in deck B.
- Adjust the recording level and balance.
- Press CD of the input select buttons and set REC SELECTOR to CD/ex.digital on the A-008 amplifier. For details, refer to the owner's manual of the A-008 amplifier.
- Load a compact disc on the D-008 compact disc player. For details, refer to the owners' manual of the D-008 compact disc player.
- Press the "synchro" button of the A-008 amplifier. D-008 starts playing and simultaneously this unit starts recording.
- When CD playing is paused during synchronized recording, this unit provides about 4 seconds blank on the tape and enters pause mode.
  When the REC PAUSE button of this unit is pressed during sychronized recording, on the contrary, the D-008 compact disc player stops play simultaneously.
- When CD playing is stopped during synchronized recording, this unit provides about 4 seconds blank on the tape and stops recording.
  When the stop button of this unit is pressed during synchronized recording, on the contrary, the D-008 compact disc player stops play simultaneously.

Disassembly (Cabinet)

1. Removal of Front Panel

(1) After removal of the Top Cover, remove four screws marked "○" as shown in Figure 1.

(2) Disconnect all wires from the Deck Mechanism (A) / (B), Key Switch P.C.Board, REC Pause P.C.Board, REV Mode Switch P.C.Board, REC Volume P.C.Board, Dubbing Switch P.C.Board, and DIR Indicator P.C.Board (A) / (B).

(3) Front Panel with the Deck Mechanism (A) / (B), Key Switch P.C.Board, REC Pause P.C.Board, REV Mode Switch P.C.Board, REC Volume P.C.Board, Dubbing Switch P.C.Board and DIR Indicator P.C.Board (A) / (B) can be removed completely.

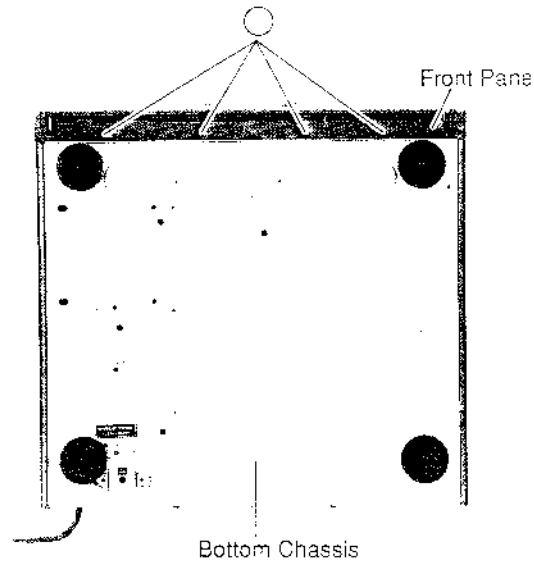


Figure 1

2. Removal of Deck Mechanism (A)

(1) After removal of the Front Panel, remove a Spring as shown in Figure 3.

Note: When the Eject Switch lever is pressed, the Spring removed in 2-(1) is released and the Eject Switch Spring, apply bond to each end of the Spring.

(2) Remove four screws marked "X" as shown in Figure 2.

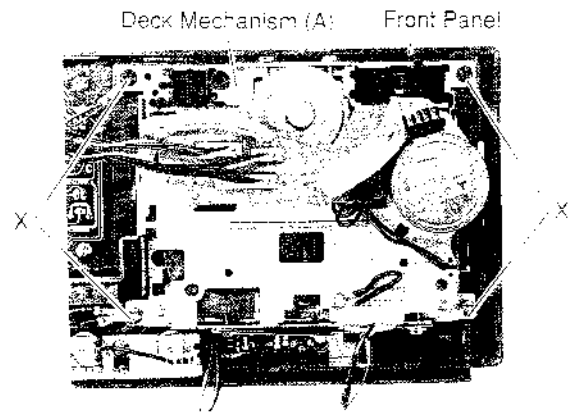


Figure 2

3. Removal of Deck Mechanism (B)

(1) Remove four screws and a Spring as same as removing the Deck Mechanism (A).

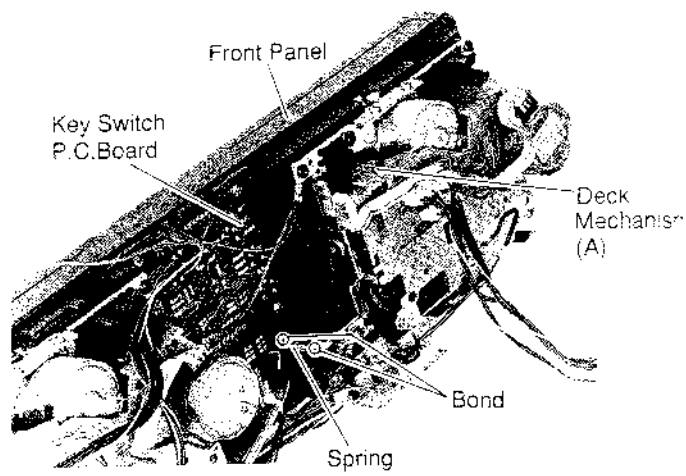


Figure 3

4. Removal of DIR Indicator P.C.Board (A)

(1) After removal of the Deck Mechanism (A), open the Cassette Holder.
(2) Remove the Cassette Cover in the direction of the arrow as shown in Figure 4.
(3) Remove two Hooks (A) as shown in Figure 5

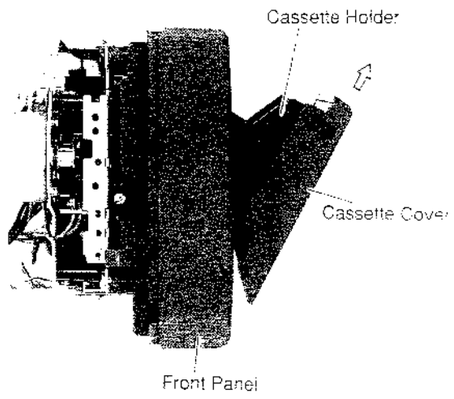


Figure 4

5. Removal of DIR Indicator P.C.Board (B)

(1) After removal of the Deck Mechanism (B), remove the Cassette Cover and two Hooks (A) same as removing the DIR Indicator P.C.Board (A).

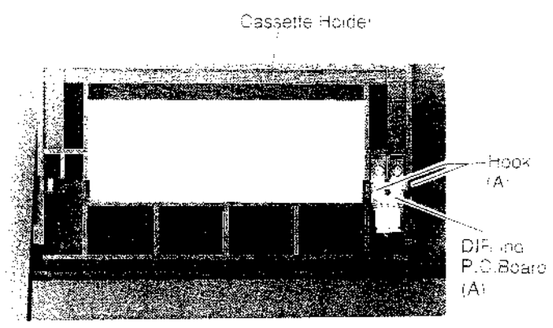


Figure 5

6. Removal of Dolby P.C.Board

(1) After removal of the Top Cover, remove two Support P.C.Boards (A), by pushing the "B" point as shown in Figures 6 and 7.
(2) Disconnect all connectors from the P.C.Board.

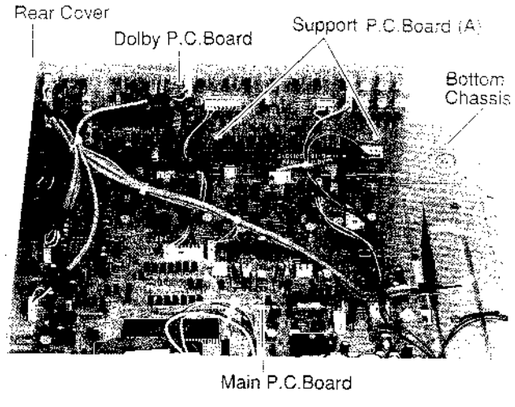


Figure 6

7. Removal of Main P.C.Board

(1) After removal of the Front Panel and Dolby P.C.Board, remove five screws marked "△" as shown in Figures 8 and 9
(2) Remove four Support P.C.Boards (B), by pushing "B" point as shown in Figures 7 and 8.
(3) Disconnect all wires from the P.C.Board

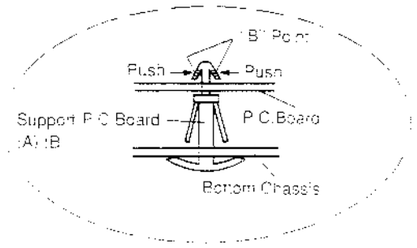


Figure 7

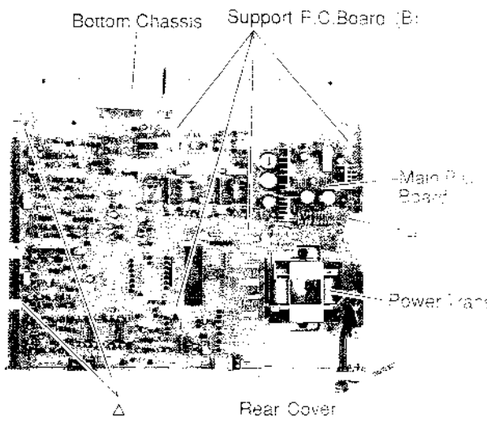


Figure 8

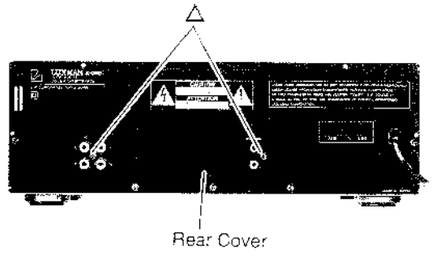


Figure 9

Disassembly (Deck Mechanism)

1. Removal of Control P.C.Board - (1) to (3)

(1) Remove three Hooks (A) as shown in Figures 10 and 11.
(2) Disconnect all wires from the Control P.C.Board - (1).
(3) Pull out the arrow, by removing two Hooks (B) as shown in Figure 10

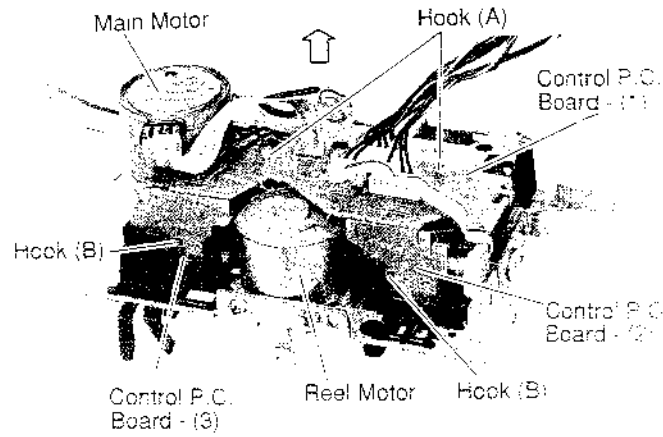


Figure 10

2. Removal of Main Motor

(1) After removal of the Control P.C.Board - (1) to (3), remove the Main Motor Bracket by removing three screws marked "○" as shown in Figure 11.
(2) Remove two screws marked "×" as shown in Figure 12

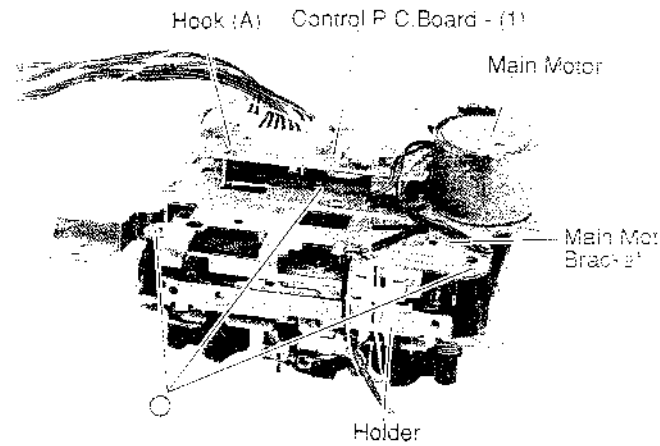


Figure 11

3. Removal of Control P.C.Board - (4)

(1) After removal of the Main Motor Bracket, remove two Flywheels by removing two Washers (A) as shown in Figures 13 and 14.
(2) Remove the Hook (B) as shown in Figure 15

4. Removal of Control P.C.Board - (5)

(1) After removal of two Flywheels, remove two Hook (C) as shown in Figure 15.

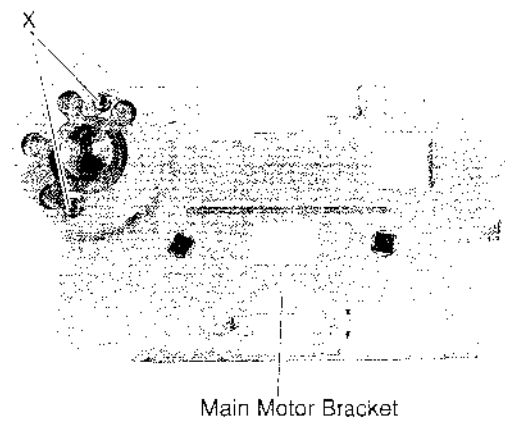


Figure 12

5. Removal of Head

(1) Remove two screws marked "△" after removing the Holder as shown in Figures 11 and 14.

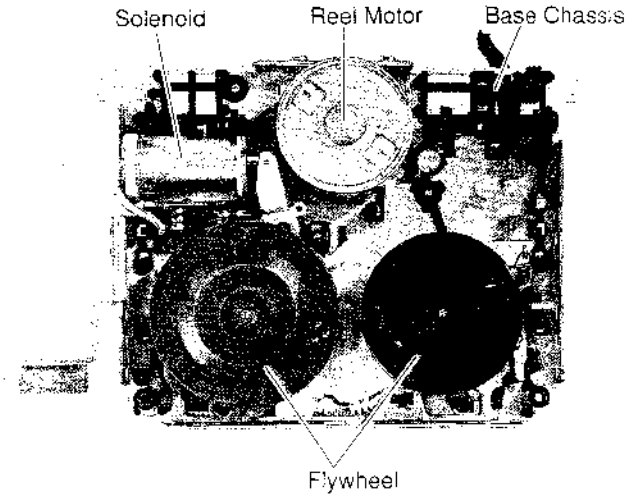


Figure 13

6. Removal of Reel Motor

(1) After removal of two Flywheels, remove two Pinch Rollers by removing two Hooks (D) as shown in Figure 14.

(2) Remove the Head Bracket, by removing a Spring (A) and a screw marked "☆" as shown in Figure 14 and 15.

(3) Remove a Spring (B) as shown in Figure 15.

(4) Remove the Play Arm by removing a Hook (E) as shown in Figure 15.

(5) Remove the Slide Plate with Cam Gear as shown in Figure 15.

(6) Remove the Hold Lever by removing a Spring (C) as shown in Figure 14.

(7) Remove two screws marked "※" as shown in Figure 14.

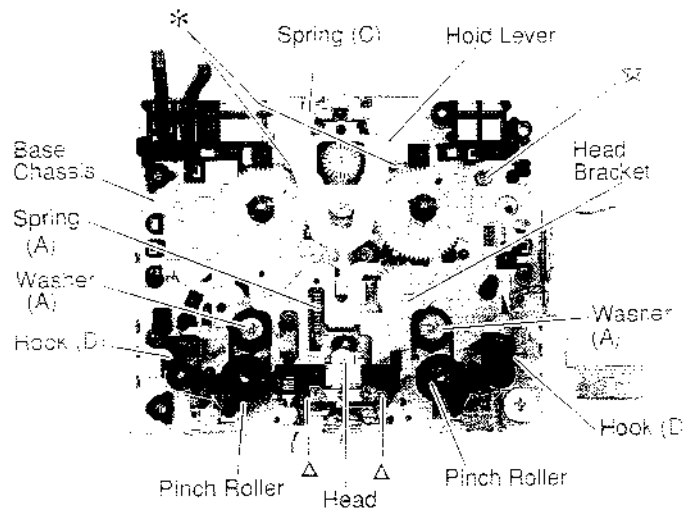


Figure 14

7. Removal of Solenoid

(1) After removal of the Play Arm, remove a screw marked "☆" as shown in Figure 14.

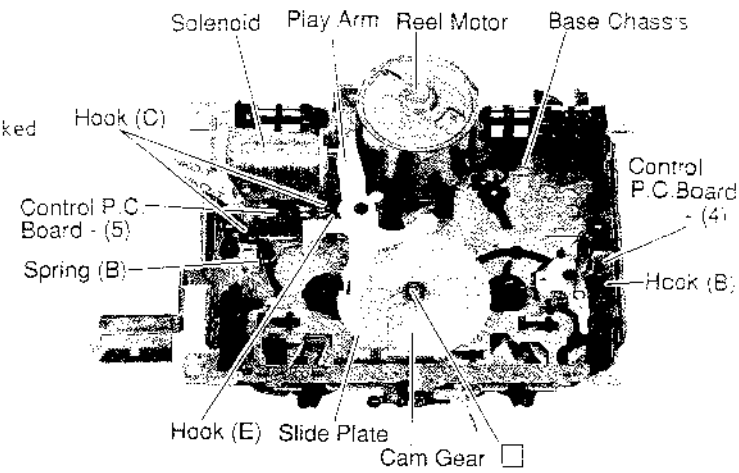


Figure 15

Adjustment

1. Quick Reverse Adjustment

(1) Make the connections as shown in figure 16 and turn the power ON.
(2) Insert a blank tape into deck A and adjust VR6061 so that the TP6002 output is 2V DC when the tape is played back.
(3) Insert a blank tape into deck B as in (2) for deck A, and adjust VR6062 so that the TP6001 output is 2V DC when the tape is played back.
(4) Insert test tape AC712 into both decks and make sure that the TP6002 and TP6001 outputs are 0.6V or less (preferably lower) when the tape is played back.

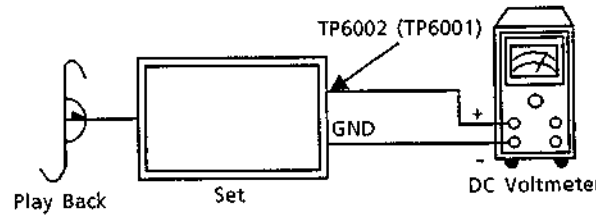


Figure 16

2. Tape Speed (Double Speed Dubbing) Adjustment

(1) Make the connections as shown in Figure 17 and turn the power ON.
(2) Ground TP6071, insert the test tape MTT-111N (3kHz, -10dB) into deck A and play it back. Adjust VR6072 so that the line output becomes 6,000Hz when the tape is played back.
(3) Ground TP6072 as in (2) for TP6071, insert the test tape into deck B and adjust VR6074 so that the line output becomes 6,000Hz when the tape is played back.

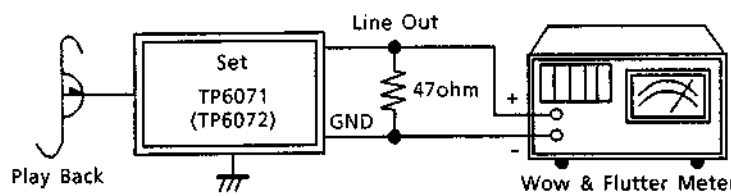


Figure 17

3. Tape Speed (Same Speed Dubbing) Adjustment

(1) Make the connections as shown in Figure 17 and turn the power ON.
(2) Insert test tape MTT-111N (3kHz, -10dB) into deck A and play it back. Adjust VR6071 so that the line output during playback becomes 3,000Hz i.e. that the wow and flutter is 0.14% (JIS WTD) or less.
(3) Insert test tape into deck B as in deck A and adjust VR6073 so that the line output becomes 3,000Hz when the tape is played back. Make sure that the wow and flutter at that time is 0.14% (JIS WTD) or less.

4. Playback Output Adjustment

(1) Make the connections as shown in Figure 18 and turn the power ON.
(2) Insert test tape MTT150 into deck A and play it back.
Adjust VR2001 (VR2002) so that the line output L (R) becomes 550mV.
(3) Insert the test tape into deck B as in deck A and adjust VR2101 (VR2102) so that the line output L (R) becomes 550mV.

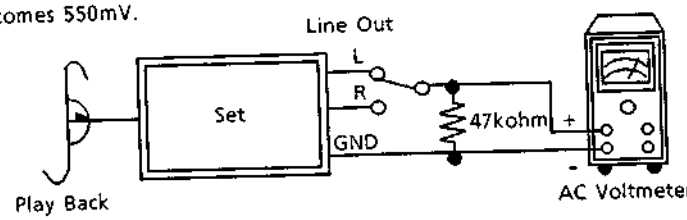


Figure 18

5. Head Azimuth Adjustment

(1) Make the connections as shown in figure 19 and turn the power ON.
(2) Insert test tape MTT114N (10kHz, -10dB) and play it back. Adjust the head azimuth adjustment screws of deck A, as shown in Figure 30, so that the right and left line outputs are maximum and have the same phase in both the normal and reverse direction.
(3) Insert the test tape into deck B as in deck A and adjust the head azimuth adjustment screws of deck B, as shown in Figure 31, so that the right and left line outputs are maximum and have the same phase in both the normal and reverse direction.

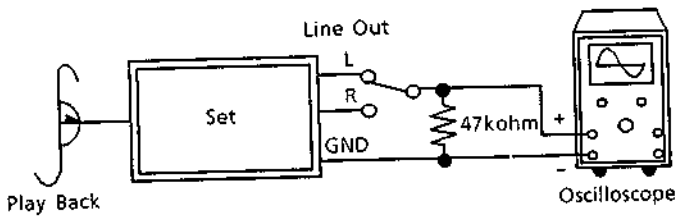


Figure 19

6. Input Sensitivity Check

(1) Make the connections as shown in Figure 20 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode. Set the REC LEVEL volume to the maximum.
(3) Input the 400Hz / 150mV ±2dB (oscillator output) signal into the line input in the mode set in (2) and make sure that the line output is 550mV at that time.

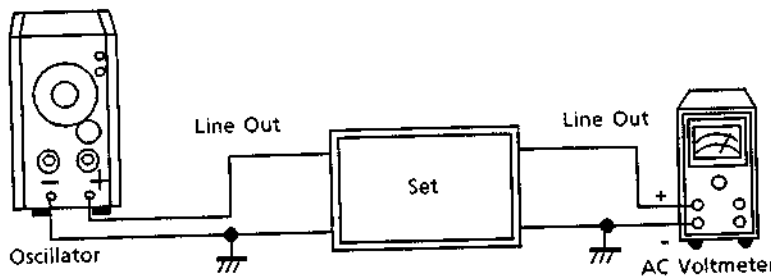


Figure 20

7. Meter Adjustment

(1) Make the connections as shown in Figure 20 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode. Set the REC LEVEL volume (Figure 25) to the maximum.
(3) Input the 400Hz / 150mV ±2dB (oscillator output) signal to the line input in the mode set in (2), and adjust the line output to 550mV at that time. Adjust VR8001 (VR8002) observing the level meter of the set so that all the level indicator lamps of L (R) light up at once, and then readjust it so that the +6 indicator lamp gose out.

8. Bias Adjustment

(1) Make the connections as shown in Figure 21 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode.
(3) Adjust L5101 so that the TP5101 output becomes 105kHz ±0.1kHz in the mode set in (2).

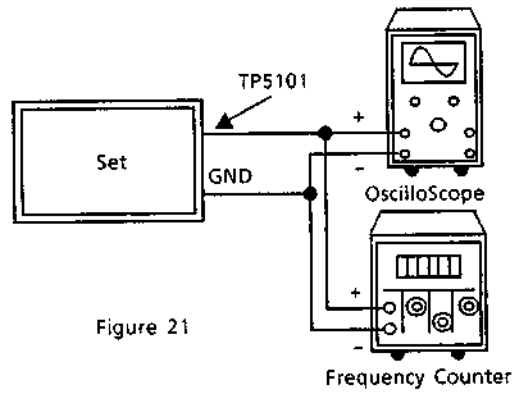


Figure 21

9. HX Coil Peak Adjustment

(1) Make the connections as shown in Figure 22 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode.
(3) Set the metal bias volume VR5071 (VR5072) to the maximum in the mode set in (2). Adjust L5051 (L5052) so that the output of TP5005 (TP5006) becomes maximum.

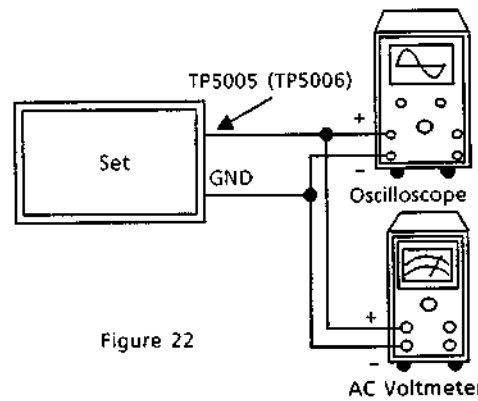


Figure 22

10. REC/PLAY Adjustment

(1) After having finished the HX coil peak adjustment described in Item 9, temporarily adjust VR5071 (VR5072) so that the TP5005 (TP5006) output becomes 65mV.
(2) Make the connections as shown in Figure 23, input 400Hz/150mV ±2dB (oscillator output) to the line input, insert the metal tape (TDK AC-712) into deck B and record on it. (Set the REC LEVEL volume to the maximum.)
(3) Adjust VR5001 (VR5002) so that the line output L(R) becomes 550mV with a distortion of 1 to 2% when the recorded section is played back.

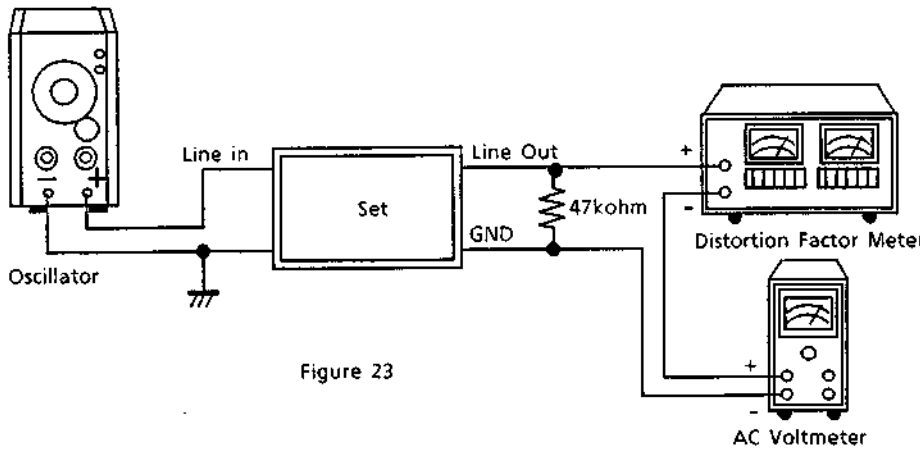


Figure 23

11. Adjustment of the REC / PLAY frequency response

(1) Make the connections as shown in figure 24 and turn the power ON.
(2) Insert the metal tape (TDK AC-712) into deck B and set to REC PLAY mode. Set the REC LEVEL volume to the maximum.
(3) Input the signal that has been reduced by 25dB from the 400Hz / 150mV ±2dB signal (DOLBY LEVEL reference input) to the line input, and set the output value of the line output L (R) to the reference value.
(4) Adjust VR5071 (VR5072) so that the output value of the line output L (R) becomes equal to the reference value when the signal that has been reduced by 25dB from the 12.5kHz / 150mV ±2dB signal is input to the line input.
(5) Insert the CrO_2 tape (TDK AC-512) as in (2), and set to REC PLAY model, input the signal that has been reduced by 25dB from the 400Hz / 150mV ±2dB signal (DOLBY LEVEL reference input), and set the output value of the line output L (R) to the reference value as in (3) and (4). Adjust VR5073 (VR5074) so that the output level when the 12.5kHz / -25dB signal is input becomes equal to the reference value.
(6) Insert the normal tape (TDK AC-223) as in (2), and set to REC PLAY mode. Input the signal that has been reduced by 25dB from the 400Hz / 150mV ±2dB signal (DOLBY LEVEL reference input), and set the output value of the line output L (R) to the reference value as in (3) and (4). Adjust VR5075 (VR5076) so that the output level when the 12.5kHz / -25dB signal is input becomes equal to the reference value.

※ When making the adjustments, follow the Items 1 through 11 strictly in this order.

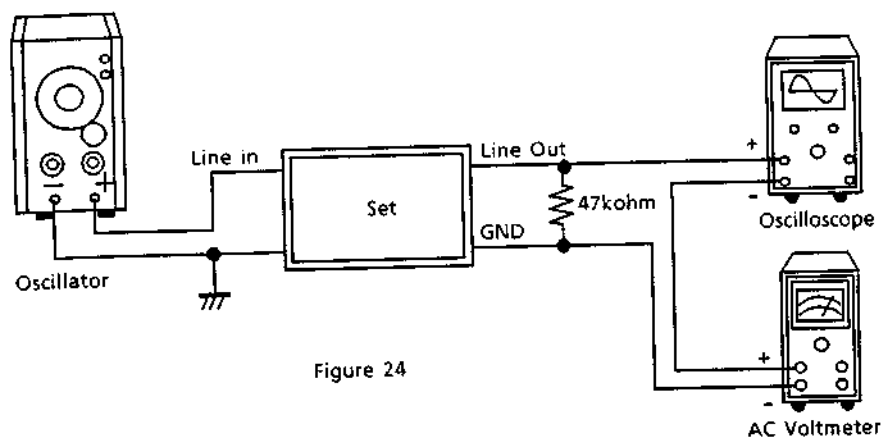
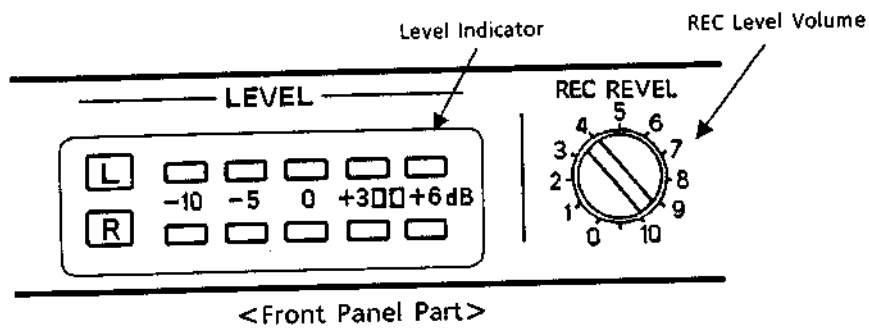


Figure 24



<Front Panel Part>

Figure 25

Adjustment Locations

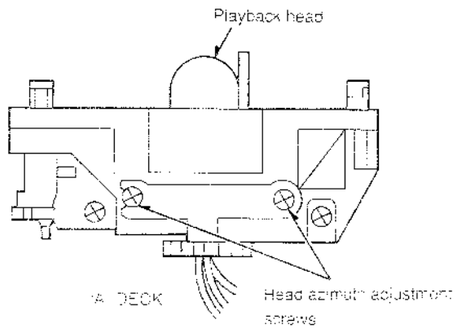


Figure 26

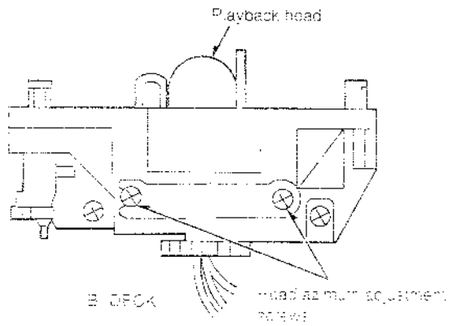


Figure 27

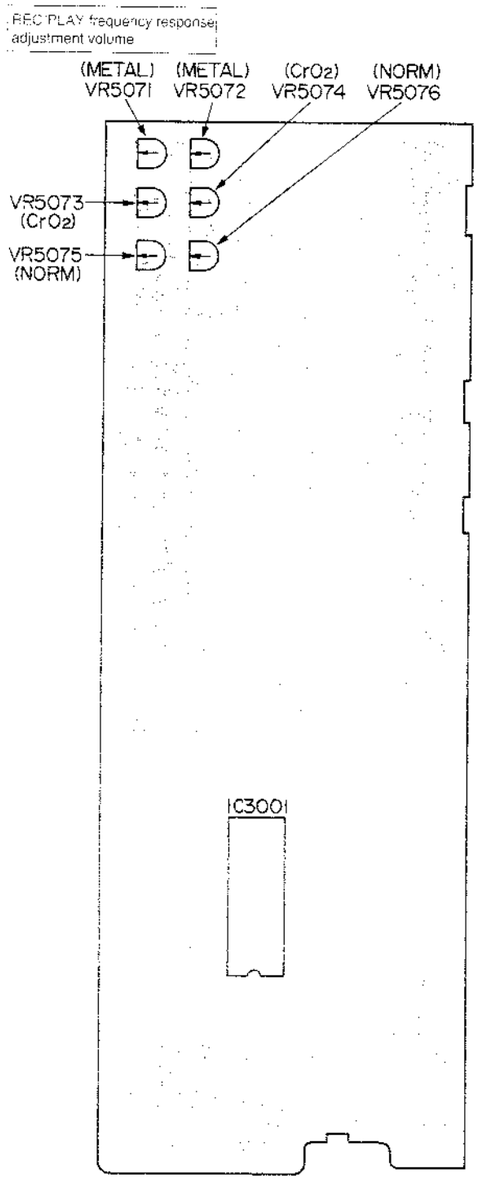


Figure 28 Dolby P.C. Board (Component side)

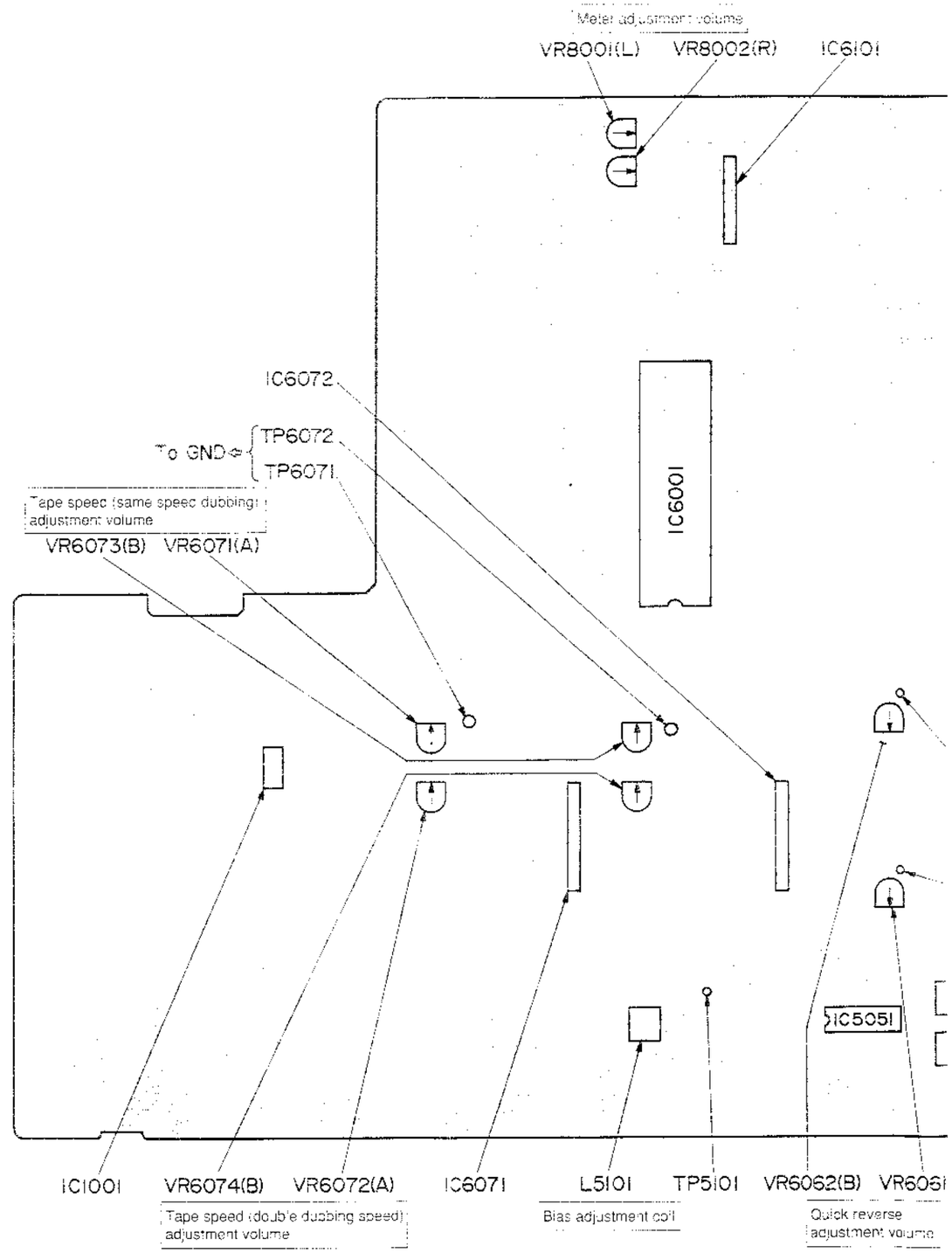


Figure 29 Main P.C. Board (Component side)

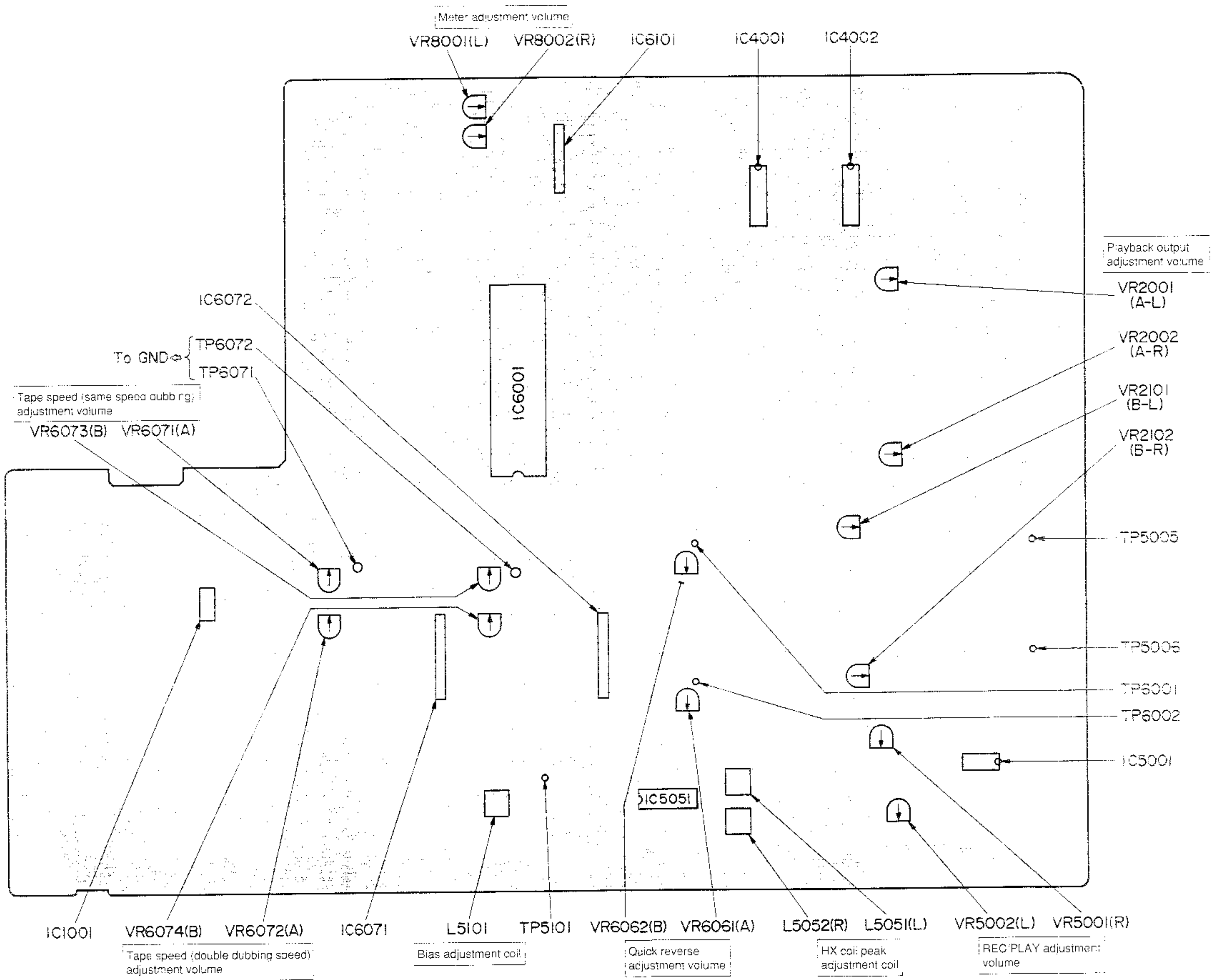
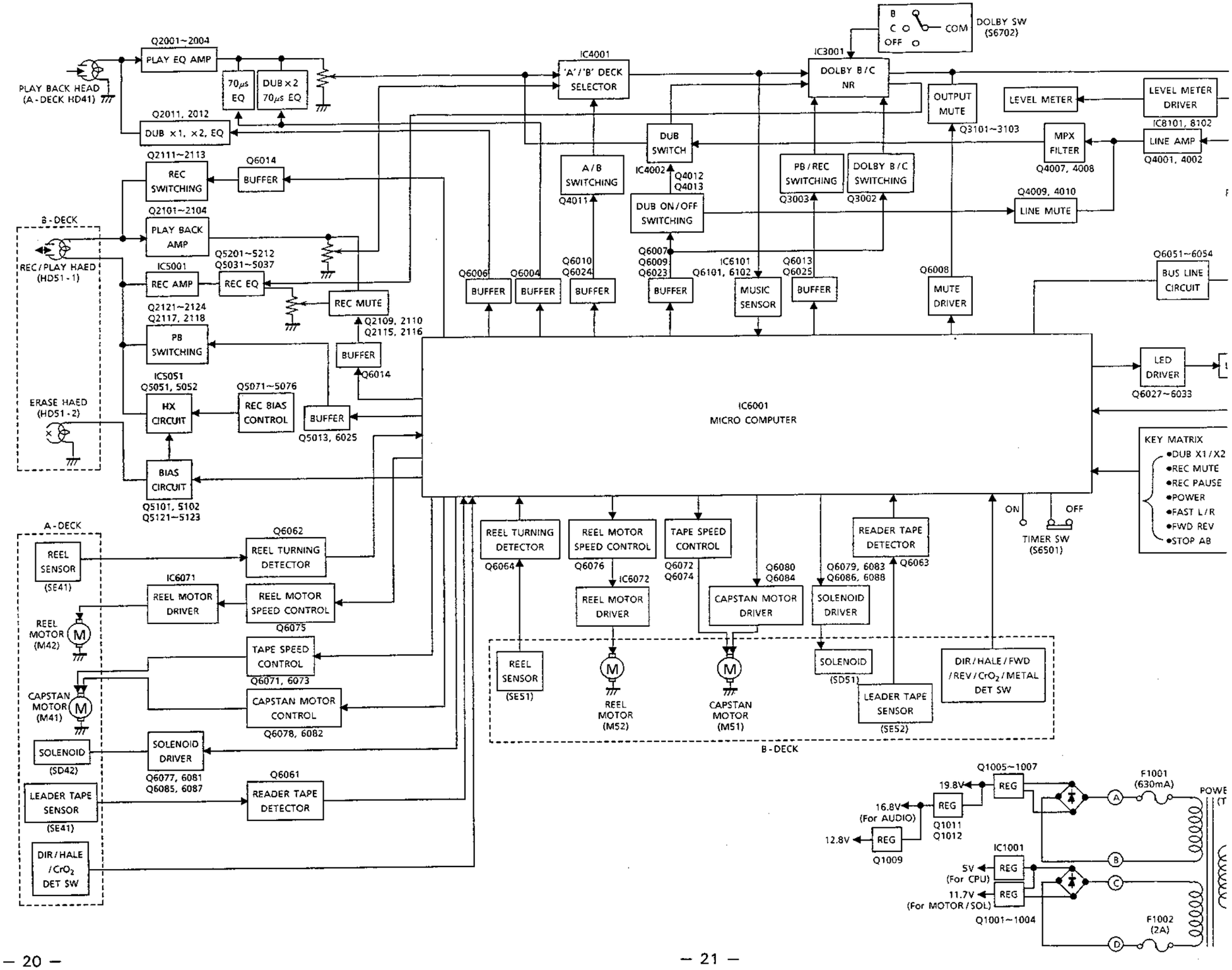
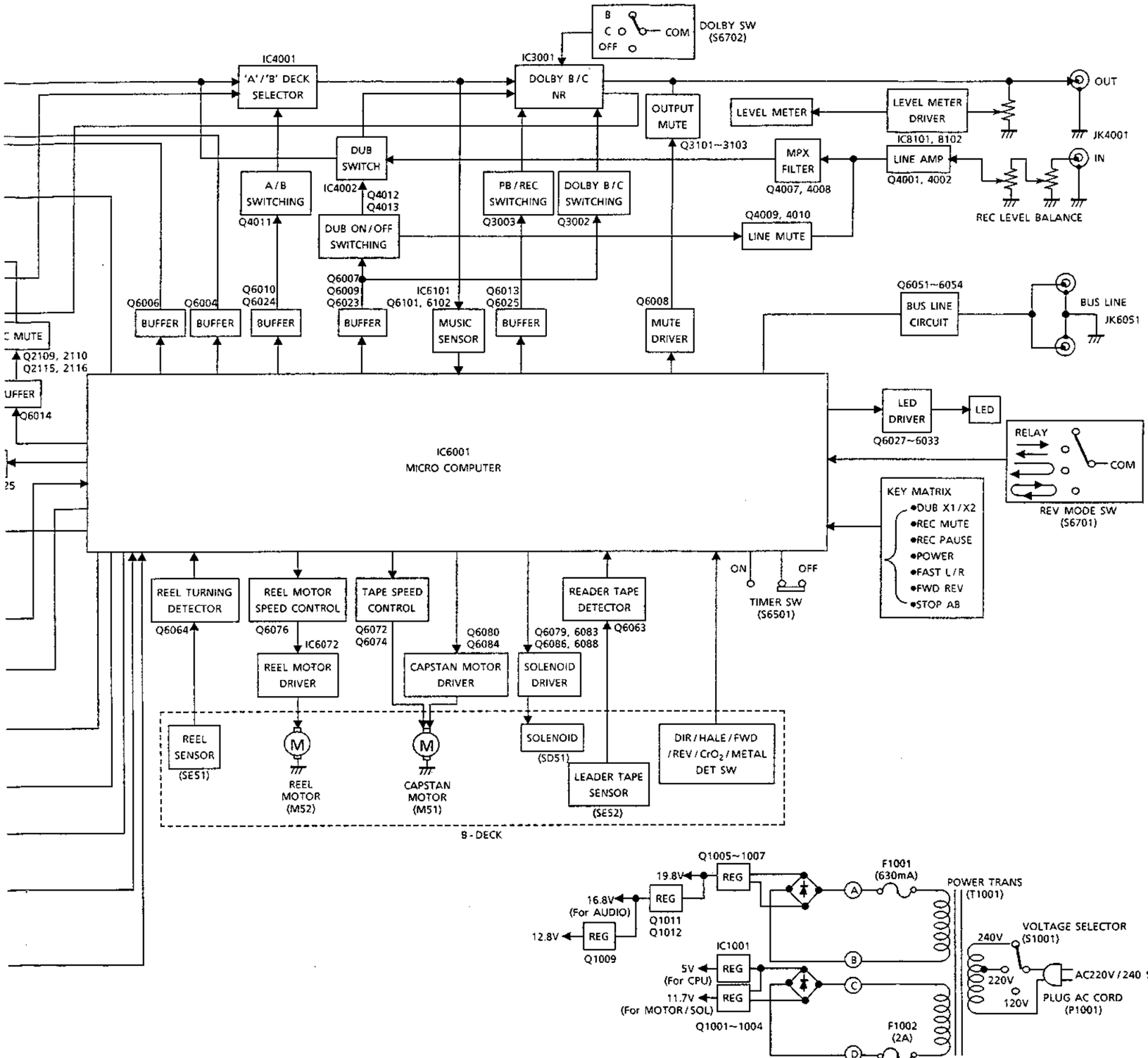


Figure 29 Main P.C. Board (Component side)

K - 008 K - 008

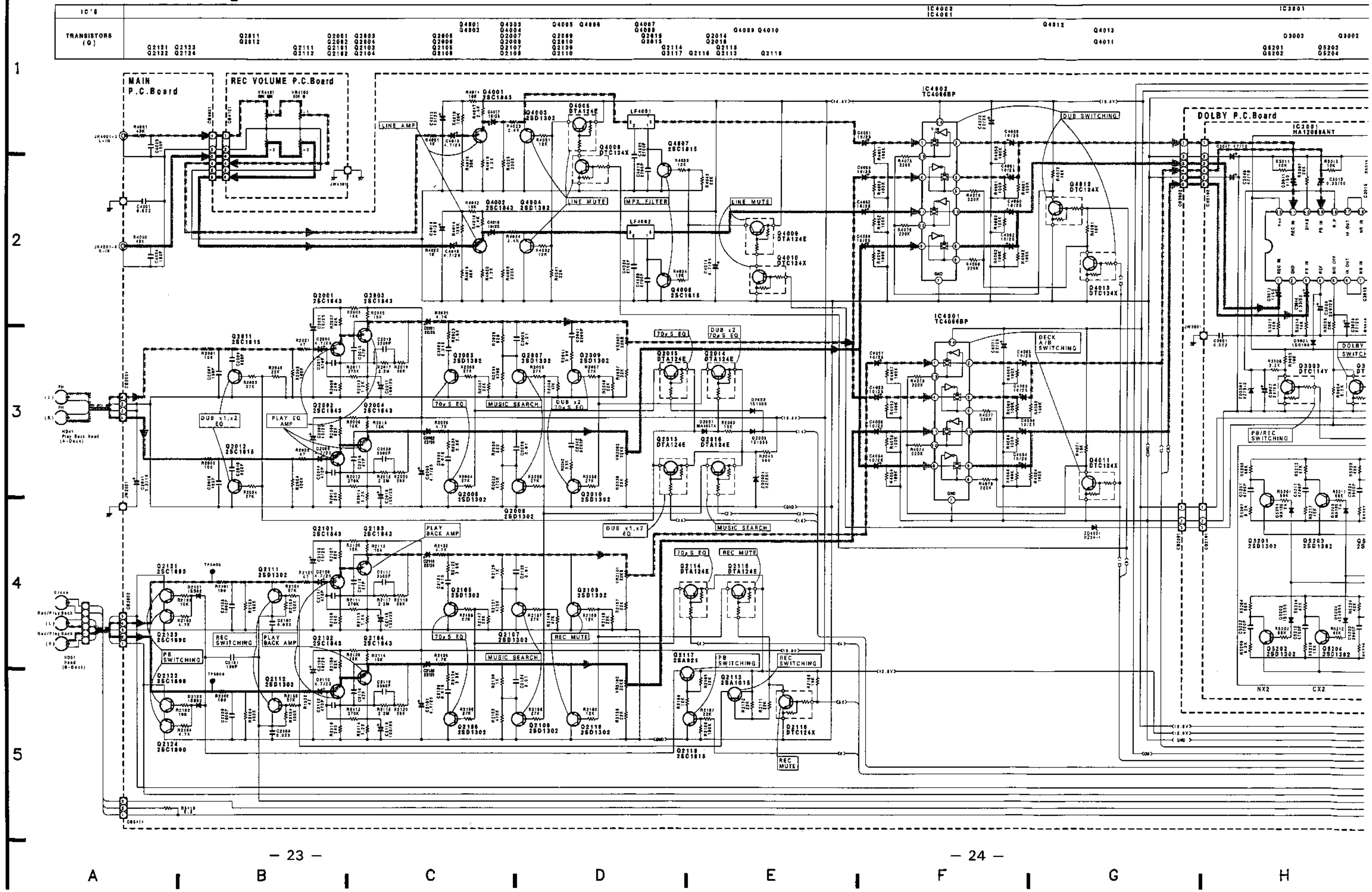
Block Diagram




DOLBY SW (S6702)
B
C
OFF
COM
IC4001
'A'/'B' DECK SELECTOR
IC3001
DOLBY B/C NR
OUTPUT MUTE
Q3101~3103
LEVEL METER
LEVEL METER DRIVER
IC8101, 8102
OUT
JK4001
IN
MPX FILTER
Q4007, 4008
LINE AMP
Q4001, 4002
REC LEVEL BALANCE
DUB SWITCH
IC4002
Q4012
Q4013
A/B SWITCHING
Q4011
PB/REC SWITCHING
Q3003
DOLBY B/C SWITCHING
Q3002
DUB ON/OFF SWITCHING
Q4009, 4010
LINE MUTE
Q6007
Q6009
Q6023
IC6101
Q6101, 6102
Q6010
Q6024
Q6013
Q6025
Q6006
Q6004
BUFFER
MUSIC SENSOR
Q6008
MUTE DRIVER
Q6051~6054
BUS LINE CIRCUIT
BUS LINE
JK6051
Q2109, 2110
Q2115, 2116
Q6014
IC6001
MICRO COMPUTER
LED DRIVER
Q6027~6033
LED
RELAY
COM
REV MODE SW
(S6701)
KEY MATRIX
•DUB X1/X2
•REC MUTE
•REC PAUSE
•POWER
•FAST L/R
•FWD REV
•STOP AB
ON
OFF
TIMER SW
(S6501)
REEL TURNING DETECTOR
Q6064
REEL MOTOR SPEED CONTROL
Q6076
IC6072
REEL MOTOR DRIVER
TAPE SPEED CONTROL
Q6072
Q6074
Q6080
Q6084
CAPSTAN MOTOR DRIVER
Q6079, 6083
Q6086, 6088
SOLENOID DRIVER
READER TAPE DETECTOR
Q6063
REEL SENSOR
(SE51)
REEL MOTOR (M52)
CAPSTAN MOTOR (M51)
SOLENOID
(SD51)
LEADER TAPE SENSOR
(SE52)
DIR/HALF/FWD /REV/CrO2/METAL DET SW
B-DECK

Q1005~1007
19.8V
REG
16.8V
(For AUDIO)
REG
Q1011
Q1012
12.8V
REG
Q1009
IC1001
5V
(For CPU)
REG
11.7V
(For MOTOR/SOL)
REG
Q1001~1004
F1001
(630mA)
POWER TRANS
(T1001)
A
B
C
D
VOLTAGE SELECTOR
(S1001)
240V
220V
120V
AC220V/240 50Hz
PLUG AC CORD
(P1001)
F1002
(2A)

Schematic Diagram (1/3)



IC3001 IC8101 IC5001 IC8102 IC5051

Q3003 Q3002 Q3001 Q3101 Q3102 Q3103 Q5031 Q5032 Q5071 Q5072 Q5035 Q5036 Q5033 Q5034 Q5073 Q5074 Q5075 Q5076 Q5122 Q5123 Q5121 Q5101 Q5102 Q5052 Q5051

Q5201 Q5202 Q5203 Q5204 Q5205 Q5206 Q5207 Q5208 Q5209 Q5210 Q5211 Q5212

DOLBY P.C.Board

IC3001 HA12086ANT

DOLBY B/C NR

DOLBY B/C SWITCHING

Q3061 2SC1815

Q3803 DTC114Y

Q3802 DTC114Y

V STABILIZER (DOLBY +B)

PB/REC SWITCHING

Q5201 2SD1302 Q5203 2SD1302 Q5205 2SD1302 Q5207 2SD1302 Q5209 2SD1302 Q5211 2SD1302

Q5202 2SD1302 Q5204 2SD1302 Q5206 2SD1302 Q5208 2SD1302 Q5210 2SD1302 Q5212 2SD1302

NX2 CX2 MX2 NX1 CX1 MX1

REC EQ

REC BIAS SWITCHING

Q5071 2SC1815 Q5073 2SC1815 Q5075 2SC1815

Q5072 2SC1815 Q5074 2SC1815 Q5076 2SC1815

METAL CrO2 NOR

Q3101 2SD1302

Q3102 2SD1302

Q3103 DTA124E

OUTPUT MUTE

JK4001-1 L

JK4001-2 R

REC OUT

KEY SWITCH P.C.Board (1/2)

IC8101 BA6124

IC8102 BA6124

LEVEL METER-L

LEVEL METER-R

LEVEL METER DRIVER

NOTE
1. All resistance values are in ohms. K=1,000 M=1,000,000
2. All capacitance values are in microfarads. P= 1/1,000,000

TO MAIN P.C.Board(2/3)

TO REV MODE SWITCH P.C.Board(3/3)

REC EQ

Q5831 2SD1302 Q5835 2SD1302 Q5833 2SD1302

Q5837 DTA124E

Q5832 2SD1302 Q5836 2SD1302 Q5834 2SD1302

IC5001 M5236P

REC AMP

BIAS CIRCUIT

Q5121 2SC2120

Q5122 DTC124X

Q5123 2SC1815

MX CIRCUIT

IC5051 μPC1297CA

ABSO DET PEAK DET VCA COMP

VOLTAGE REGULATOR THERMAL PROTECTION

PRE DRIVER

BIAS CIRCUIT

Q5181 2SC1318NC

Q5182 2SC1318NC

Q5052 2SC2120

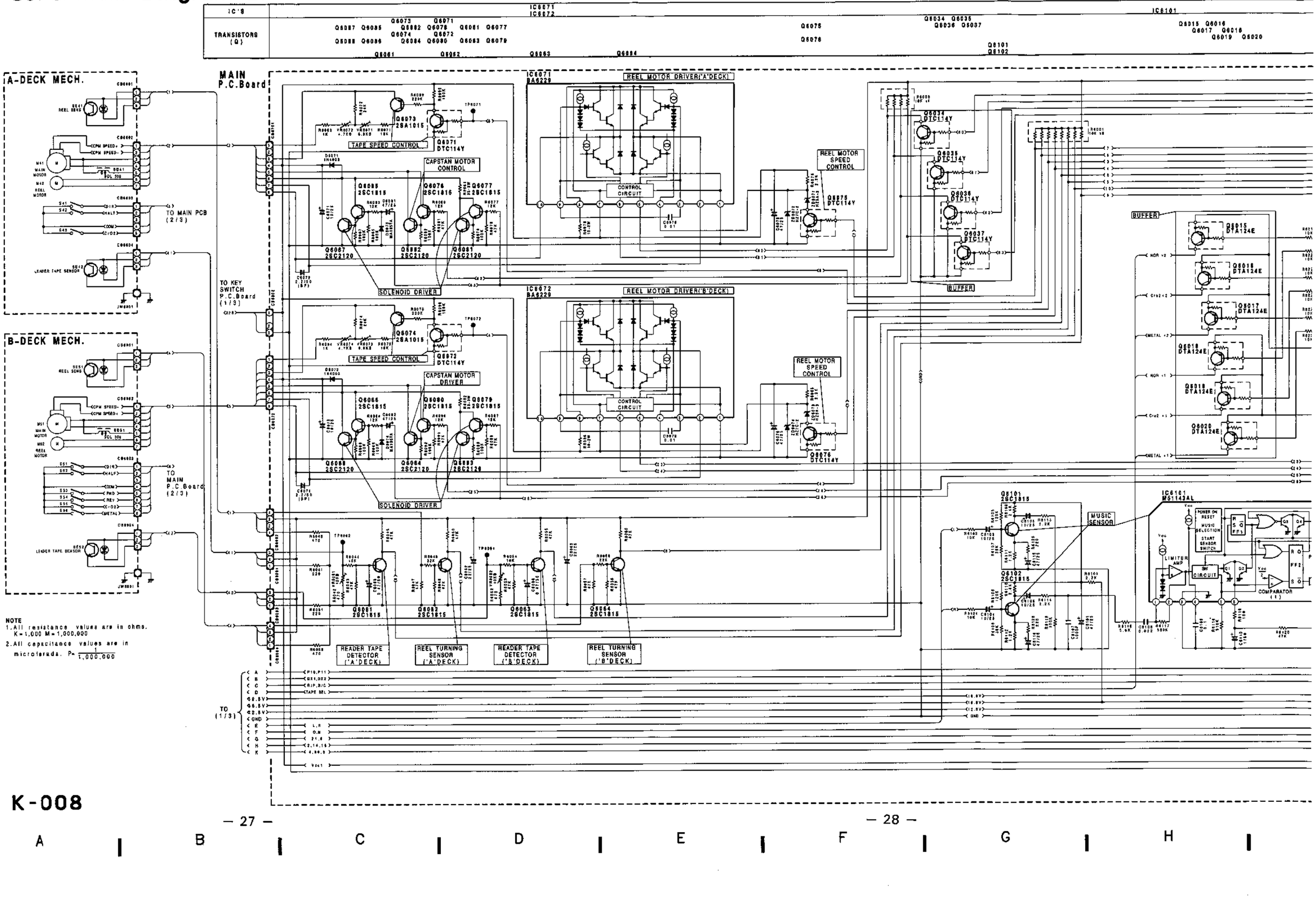
Q5051 2SC1816

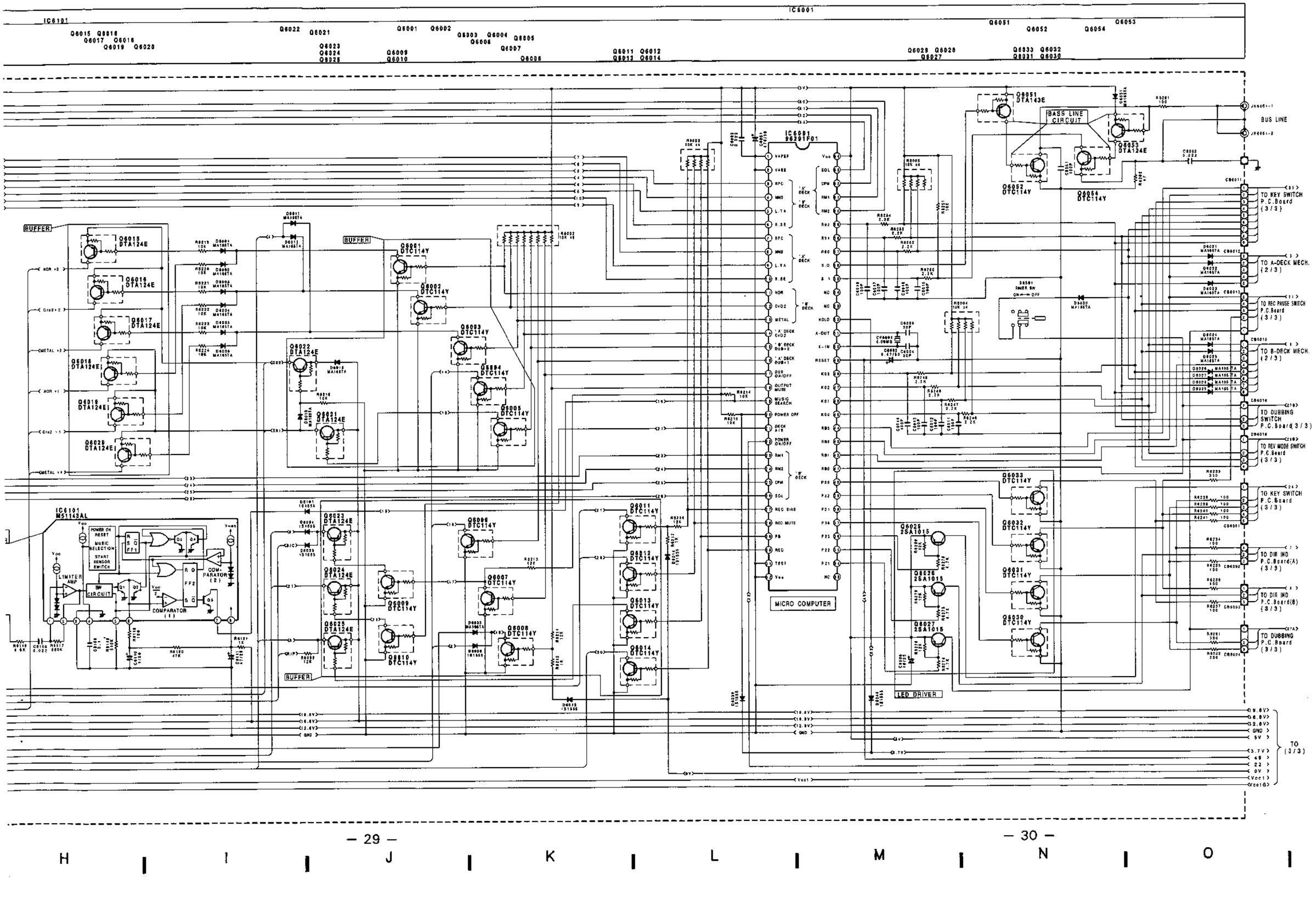
MX CIRCUIT

TO (2/3)

K-008

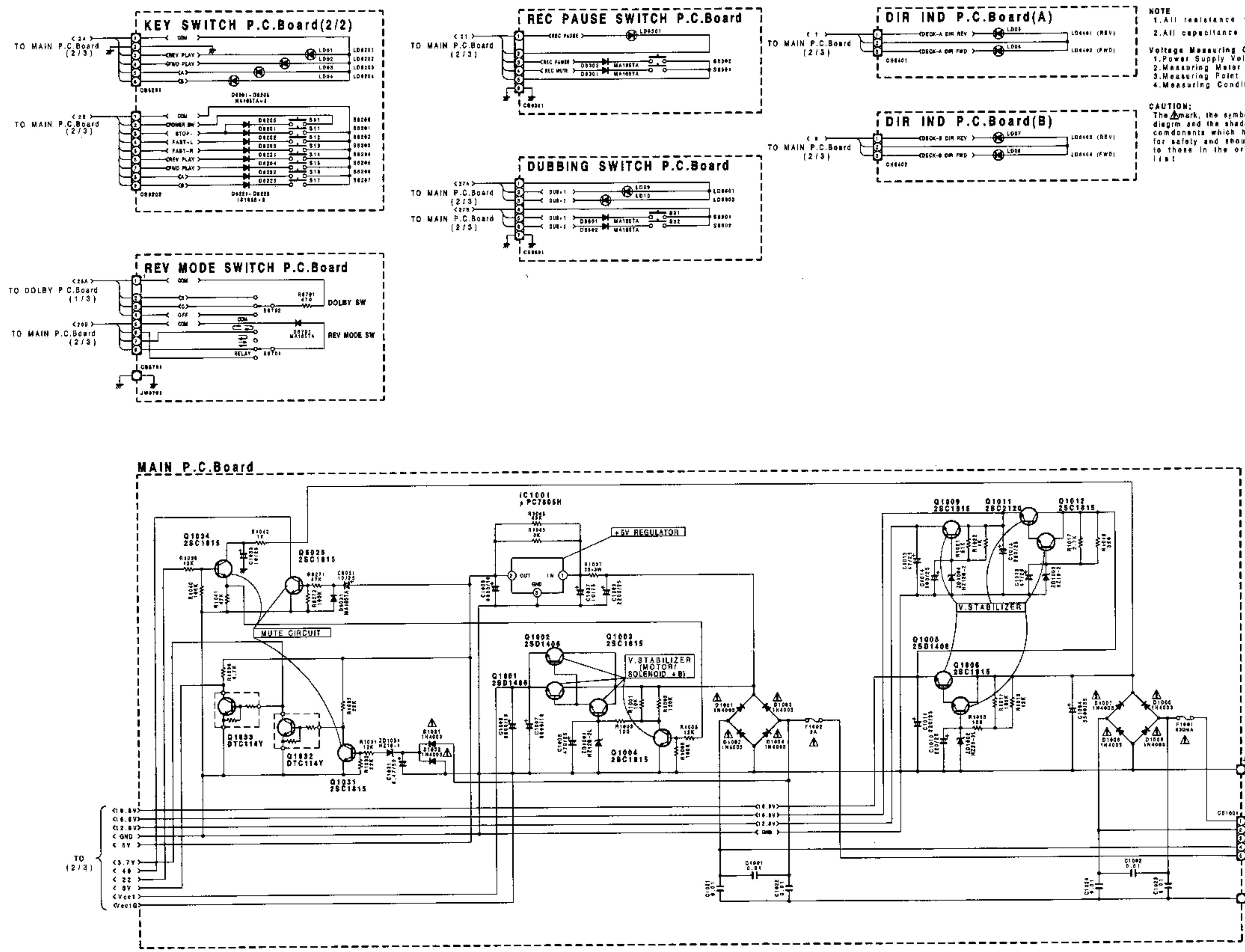
Schematic Diagram (2/3)




IC6101
IC6001
Q6015 Q6018
Q6017 Q6016
Q6019 Q6020
Q6022 Q6021
Q6023
Q6024
Q6025
Q6001 Q6002
Q6009
Q6010
Q6003 Q6004 Q6005
Q6006
Q6007
Q6008
Q6011 Q6012
Q6013 Q6014
Q6051
Q6052
Q6054
Q6053
Q6029 Q6028
Q6027
Q6033 Q6032
Q6031 Q6030
BUFFER
Q6015 DTA124E
Q6016 DTA124E
Q6017 DTA124E
Q6018 DTA124E
Q6019 DTA124E
Q6020 DTA124E
Q6022 DTA124E
Q6021 DTA124E
Q6023 DTA124E
Q6024 DTA124E
Q6025 DTA124E
Q6001 DTC114Y
Q6002 DTC114Y
Q6003 DTC114Y
Q6004 DTC114Y
Q6005 DTC114Y
Q6009 DTC114Y
Q6010 DTC114Y
Q6011 DTC114Y
Q6012 DTC114Y
Q6013 DTC114Y
Q6014 DTC114Y
Q6007 DTC114Y
Q6008 DTC114Y
IC6101
M51143AL
POWER ON RESET
MUSIC SELECTION
START SENSOR SWITCH
LIMITER AMP
SW CIRCUIT
COMPARATOR (1)
COMPARATOR (2)
IC6001
PD6291F01
MICRO COMPUTER
Q6051 DTA143E
Q6052 DTC114Y
Q6053 DTA124E
Q6054 DTC114Y
BASS LINE CIRCUIT
BUS LINE
Q6033 DTC114Y
Q6032 DTC114Y
Q6031 DTC114Y
Q6030 DTC114Y
Q6028 2SA1015
Q6026 2SA1015
Q6027 2SA1015
LED DRIVER
TO KEY SWITCH P.C.Board (3/3)
TO A-DECK MECH. (2/3)
TO REC PAUSE SWITCH P.C.Board (3/3)
TO B-DECK MECH. (2/3)
TO DUBBING SWITCH P.C.Board (3/3)
TO REV MODE SWITCH P.C.Board (3/3)
TO KEY SWITCH P.C.Board (3/3)
TO DIR IND P.C.Board(A) (3/3)
TO DIR IND P.C.Board(B) (3/3)
TO DUBBING P.C.Board (3/3)
TO (3/3)

Schematic Diagram (3/3)

IC'S	IC1001
TRANSISTORS (Q)	Q1034 Q6028 Q1033 D1032 Q1031 Q1001 Q1002 Q1003 Q1004 Q1009 Q1011 Q1012 Q1005 Q1006



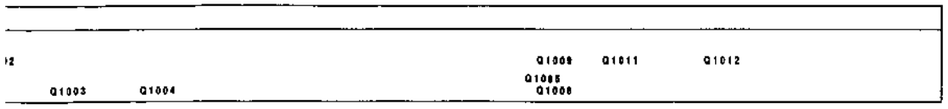
NOTE
1. All resistance values are in ohms. K=1,000 M=1,000,000
2. All capacitance values are in microfarads. $P=\frac{1}{1,000,000}$

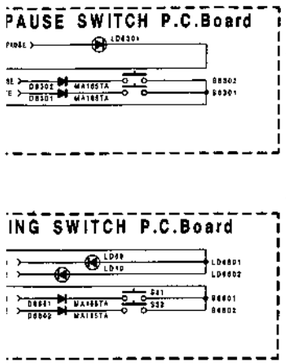
Voltage Measuring Conditions
1. Power Supply Voltage : AC220/240V, 50Hz
2. Measuring Meter : Digital Multimeter
3. Measuring Point Reference : Between Ground
4. Measuring Condition : No Signal Input
Deck in play conditions

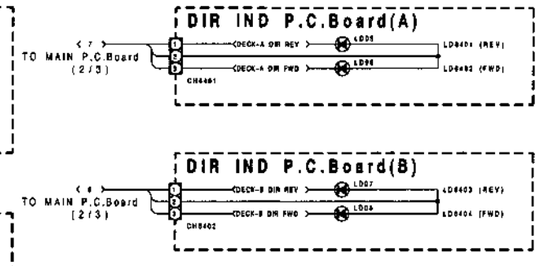
CAUTION:
The ⚠ mark, the symbol NO. in a box in the schematic diagrm and the shaded area in the parts list designate comdonents which have special characterisics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list

	B	C
Q1001	—	19V
Q1002	—	19V
Q1003	12.8V	19V
Q1004	—	—
Q1005	—	26.7V
Q1006	21V	26.7V
Q1009	12.8V	16.8V
Q1011	—	19.8V
Q1012	18V	19.8V
Q1031	—	0V
Q1032	0V	3.7V
Q1033	3.7V	0V
Q1034	—	26.5V
Q2001	—	1.3V
Q2002	—	—
Q2003	1.3V	8V
Q2004	—	—
Q2005	—	0V
Q2006	—	0V
Q2007	—	0V
Q2008	—	0V
Q2009	—	0V
Q2010	—	0V
Q2011	—	0V
Q2012	—	0V
Q2013	—	12.8V
Q2014	—	DUBx2/CrC METAL 12.8
Q2015	—	CrO2,META 12.8V
Q2016	—	12.8V
Q2101	—	—
Q2102	—	—
Q2103	—	—
Q2104	—	—
Q2105	—	0V
Q2106	—	0V
Q2107	—	0V
Q2108	—	0V
Q2109	—	0V
Q2110	—	0V
Q2111	—	0V
Q2112	—	0V
Q2113	—	—
Q2114	—	CrO2,META 12.8V
Q2115	—	REC 12.8V
Q2116	—	—
Q2117	—	12V
Q2118	—	—
Q2121	—	—
Q2122	—	—
Q2123	—	0V
Q2124	—	0V
Q3001	13.9V	16.8V
Q3002	8.4V	—
Q3003	—	—
Q3101	—	0V
Q3102	—	0V
Q3103	—	—
Q4001	—	10.5V
Q4002	—	—
Q4003	—	0V
Q4004	—	0V
Q4005	—	—
Q4006	STOP 0V DUB 18V	—
Q4007	—	0V
Q4008	—	0V
Q4009	—	—
Q4010	DOLBY SW OFF 0.3V B 9V C 5.3V	—
Q4011	A-DECK PLAY 16.7V B-DECK PLAY 0V	—
Q4012	0V (DUB 16V)	—
Q4013	A-DECK PLAY 16.7V B-DECK PLAY 0V	—
Q5031	—	0V
Q5032	—	0V
Q5033	—	0V
Q5034	—	0V
Q5035	—	0V
Q5036	—	0V
Q5037	—	9.5V
Q5051	—	0V
Q5052	—	19.8V
Q5071	—	—
Q5072	—	—
Q5073	—	—
Q5074	—	—
Q5075	—	—
Q5076	—	—
Q5101	—	13V
Q5102	—	13V
Q5121	—	19.8V
Q5122	—	—
Q5123	—	—
Q5201	—	—
Q5202	—	—
Q5203	—	—
Q5204	—	—
Q5205	—	—
Q5206	—	—
Q5207	—	—
Q5208	—	—
Q5209	—	—
Q5210	—	—
Q5211	—	—
Q5212	—	—
Q6001	0V	—
Q6002	0V	—
Q6003	2.6V	—
Q6004	0V	—
Q6005	2.9V	—
Q6006	2.9V	—

A B C D E F G H







NOTE
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2.All capacitance values are in microfarads. P= 1/1,000,000

Voltage Measuring Conditions
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2.Measuring Meter :Digital Multimeter
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Deck in play conditions

CAUTION:
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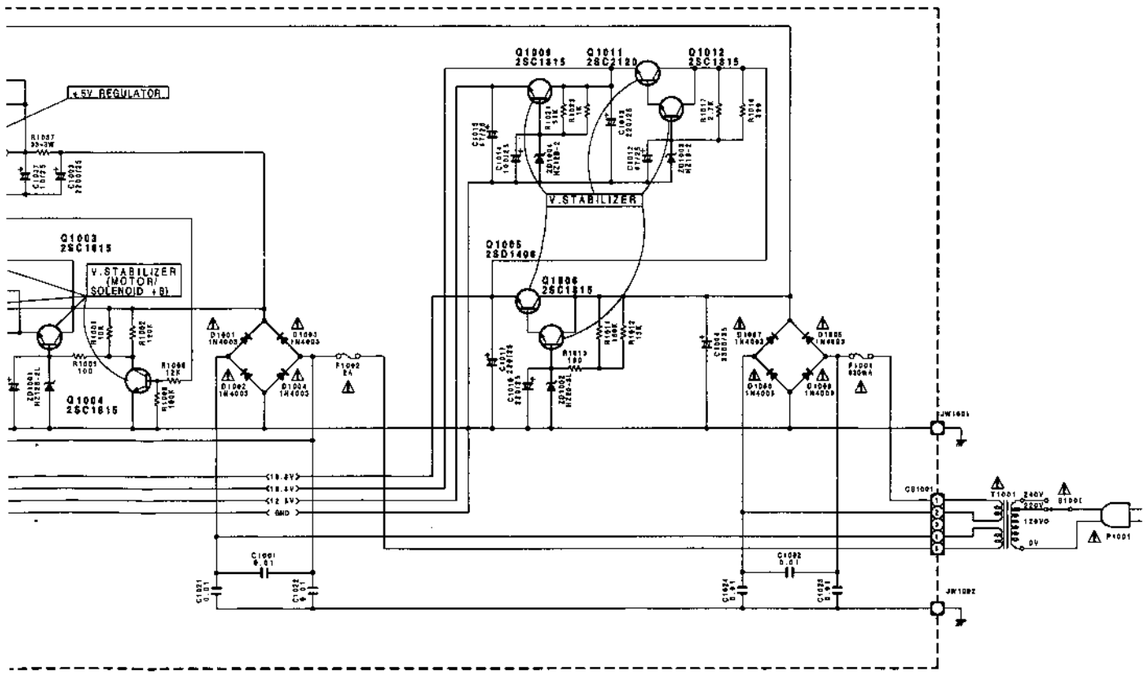


	B	C	E
Q1001	—	19V	11.7V
Q1002	—	19V	11.7V
Q1003	12.8V	19V	—
Q1004	—	—	0V
Q1005	—	25.7V	19.8V
Q1006	21V	25.7V	—
Q1008	12.8V	19.8V	12.8V
Q1011	—	19.8V	16.8V
Q1012	18V	19.8V	—
Q1031	—	0V	0V
Q1032	0V	3.7V	0V
Q1033	3.7V	0V	0V
Q1034	—	26.6V	POWER OFF 3.7V POWER ON 0V
Q2001	—	1.3V	—
Q2002	—	—	—
Q2003	1.3V	8V	0.7V
Q2004	—	—	—
Q2005	—	0V	—
Q2006	—	0V	—
Q2007	—	0V	—
Q2008	—	0V	—
Q2009	—	0V	—
Q2010	—	0V	—
Q2011	—	0V	—
Q2012	—	0V	—
Q2013	—	12.8V	12.8V
Q2014	—	DUBx2/CrO2 METAL 12.8V	12.8V
Q2015	—	CrO2,METAL 12.8V	12.8V
Q2016	—	12.8V	12.6V
Q2101	—	—	—
Q2102	—	—	—
Q2103	—	—	—
Q2104	—	—	—
Q2105	—	0V	—
Q2106	—	0V	—
Q2107	—	0V	—
Q2108	—	0V	—
Q2109	—	0V	—
Q2110	—	0V	—
Q2111	—	0V	—
Q2112	—	0V	—
Q2113	—	—	12.8V
Q2114	—	CrO2,METAL 12.8V	12.8V
Q2115	—	REC 12.6V	12.8V
Q2116	—	—	0V
Q2117	—	12V	12.6V
Q2118	—	—	0V
Q2121	—	—	—
Q2122	—	—	—
Q2123	—	0V	—
Q2124	—	0V	—
Q3001	13.9V	16.8V	13.2V
Q3002	8.4V	—	0V
Q3003	—	—	0V
Q3101	—	0V	—
Q3102	—	0V	—
Q3103	—	—	—
Q4001	—	10.5V	3V
Q4002	—	—	—
Q4003	—	0V	—
Q4004	—	0V	—
Q4005	—	—	16.8V
Q4006	STOP 0V DUB 16V	—	0V
Q4007	—	0V	—
Q4008	—	0V	—
Q4009	—	—	16.8V
Q4010	DOLBY SW OFF 9.3V B 5V C 6.3V	—	0V
Q4011	A-DECK PLAY 16.7V B-DECK PLAY 0V	—	0V
Q4012	0V (DUB 16V)	—	0V
Q4013	A-DECK PLAY 16.7V B-DECK PLAY 0V	—	0V
Q5031	—	0V	—
Q5032	—	0V	—
Q5033	—	0V	—
Q5034	—	0V	—
Q5035	—	0V	—
Q5036	—	0V	—
Q5037	—	9.5V	9.5V
Q5061	—	0V	0V
Q5062	—	19.8V	REC 18.8V
Q5071	—	—	0V
Q5072	—	—	0V
Q5073	—	—	0V
Q5074	—	—	0V
Q5075	—	—	0V
Q5076	—	—	0V
Q5101	—	13V	—
Q5102	—	13V	—
Q5121	—	19.8V	REC 13V
Q5122	—	—	0V
Q5123	—	—	0V
Q5201	—	—	—
Q5202	—	—	—
Q5203	—	—	—
Q5204	—	—	—
Q5205	—	—	—
Q5206	—	—	—
Q5207	—	—	—
Q5208	—	—	—
Q5209	—	—	—
Q5210	—	—	—
Q5211	—	—	—
Q5212	—	—	—
Q6001	0V	—	0V
Q6002	0V	—	0V
Q6003	2.8V	—	0V
Q6004	0V	—	0V
Q6005	2.8V	—	0V
Q6006	2.8V	—	0V

	B	C	E
Q6007	2.8V	—	0V
Q6008	—	—	0V
Q6009	—	—	0V
Q6010	0V	—	0V
Q6011	—	—	0V
Q6012	2.8V	—	0V
Q6013	0V	—	0V
Q6014	2.8V	—	0V
Q6015	—	16.5V	0V
Q6016	—	0V	0V
Q6017	—	0V	0V
Q6018	—	0V	16.8V
Q6019	—	0V	16.8V
Q6020	—	0V	16.8V
Q6021	—	16.8V	16.8V
Q6022	—	0V	—
Q6023	—	—	16.8V
Q6024	—	'A'DECK PLAY 16.7V 'B'DECK PLAY 0V	16.8V
Q6025	—	—	16.8V
Q6026	—	POWER OFF 4.8V POWER ON 0V	0V
Q6027	—	—	5V
Q6028	—	—	5V
Q6029	—	—	5V
Q6030	1.2V	—	0V
Q6031	0V	—	0V
Q6032	0V	—	0V
Q6033	2.4V	—	0V
Q6034	3.76V	—	0V
Q6035	3.9V	—	0V
Q6036	3.7V	0V	0V
Q6037	3.75V	0V	0V
Q6051	5V	—	5V
Q6052	—	—	0V
Q6053	—	—	—
Q6054	—	—	—
Q6061	—	5V	0V
Q6062	—	5V	0V
Q6063	—	5V	0V
Q6064	—	5V	0V
Q6071	2.8V	—	0V
Q6072	2.9V	—	0V
Q6073	—	—	11.72V
Q6074	—	—	11.72V
Q6075	0V	—	0V
Q6076	0V	—	0V
Q6077	—	—	—
Q6078	—	—	—
Q6079	—	—	—
Q6080	—	—	—
Q6081	—	—	0V
Q6082	—	—	0V
Q6083	—	—	0V
Q6084	—	—	0V
Q6085	—	—	—
Q6086	—	—	—
Q6087	—	—	0V
Q6088	—	—	0V
Q8101	—	—	1.2V
Q8102	—	—	—

IC6001

1	0V	33	—
2	0V	34	3.3V
3	0V	35	3.3V
4	2.9V	36	3.3V
5	5V	37	1.2V
6	5V	38	0V
7	0V	39	0V
8	2.9V	40	2.4V
9	5V	41	4.2V
10	5V	42	4V
11	0V	43	4V
12	0V	44	5.6V
13	2.8V	45	5V
14	0V	46	5V
15	2.8V	47	4.2V
16	2.9V	48	5V
17	2.8V	49	4.9V
18	3.7V	50	2.3V
19	5V	51	2.5V
20	4.2V	52	0V
21	0V	53	0V
22	0V	54	0V
23	0V	55	5V
24	0V	56	5V
25	0V	57	4.2V
26	0V	58	4.2V
27	3.7V	59	4.2V
28	2.8V	60	3.75V
29	3V	61	3.8V
30	2.9V	62	3.7V
31	0V	63	3.75V
32	0V	64	5V

IC3001

1	—	22	—
2	0V	23	—
3	—	24	—
4	—	25	—
5	—	26	—
6	—	27	—
7	—	28	—
8	—	29	—
9	—	30	—
10	—	31	—
11	—	32	—
12	—	33	—
13	—	34	—
14	—	35	—
15	—	36	—
16	—	37	—
17	—	38	—
18	—	39	—
19	—	40	—
20	—	41	—
21	—	42	13.2V

IC5001

1	8.5V
2	8.2V
3	8.2V
4	-0V
5	—
6	—
7	—
8	16.8V

IC6101

1	—
2	—
3	0V
4	—
5	—
6	—
7	—
8	11.8V

IC1001

1	15.7V
2	5V
3	0V

IC5051

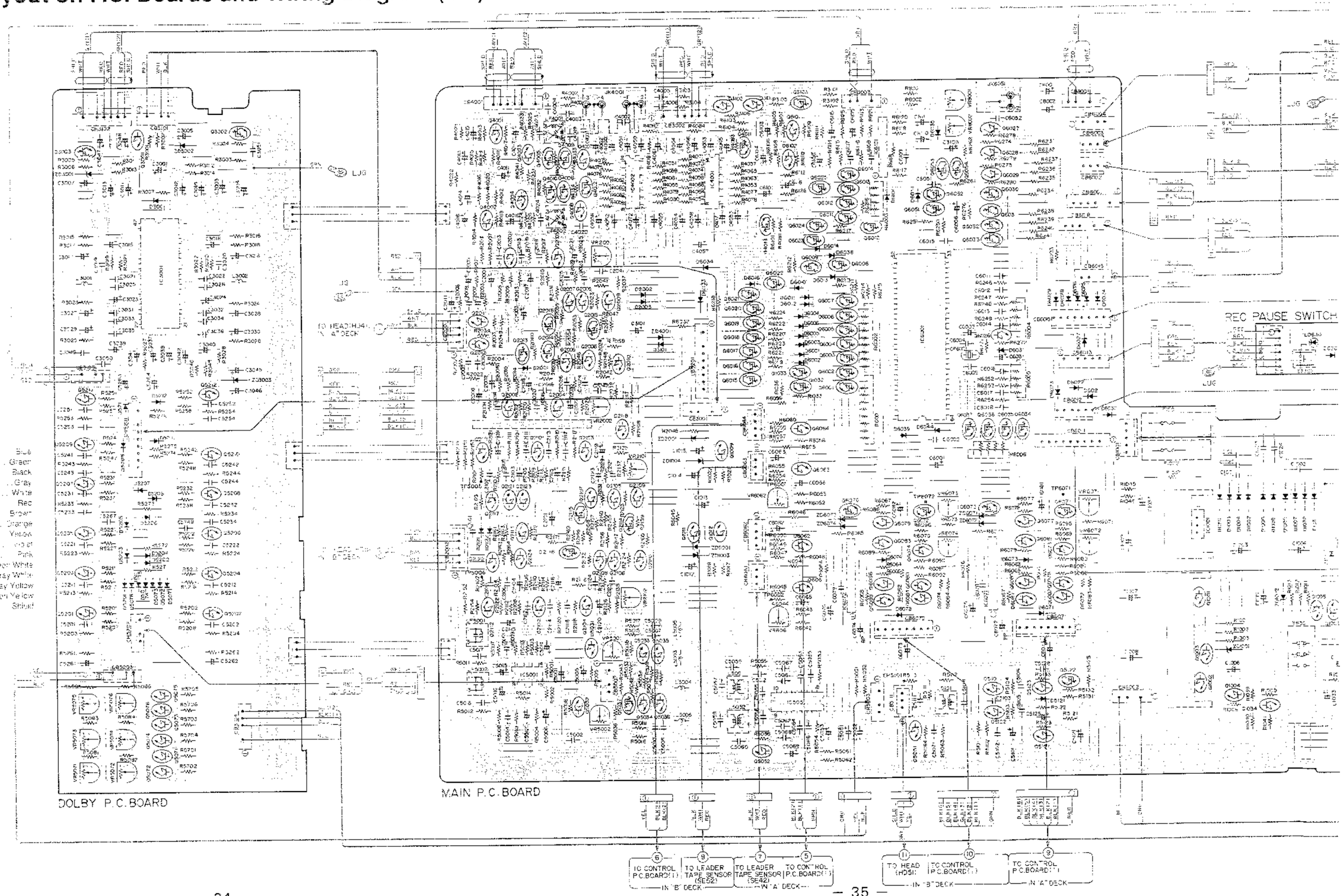
1	4.4V
2	2V
3	4.4V
4	0.7V
5	0.15V
6	16.8V
7	0V
8	0V
9	0V
10	—
11	—
12	—
13	—
14	—
15	—
16	—
17	—
18	19.6V

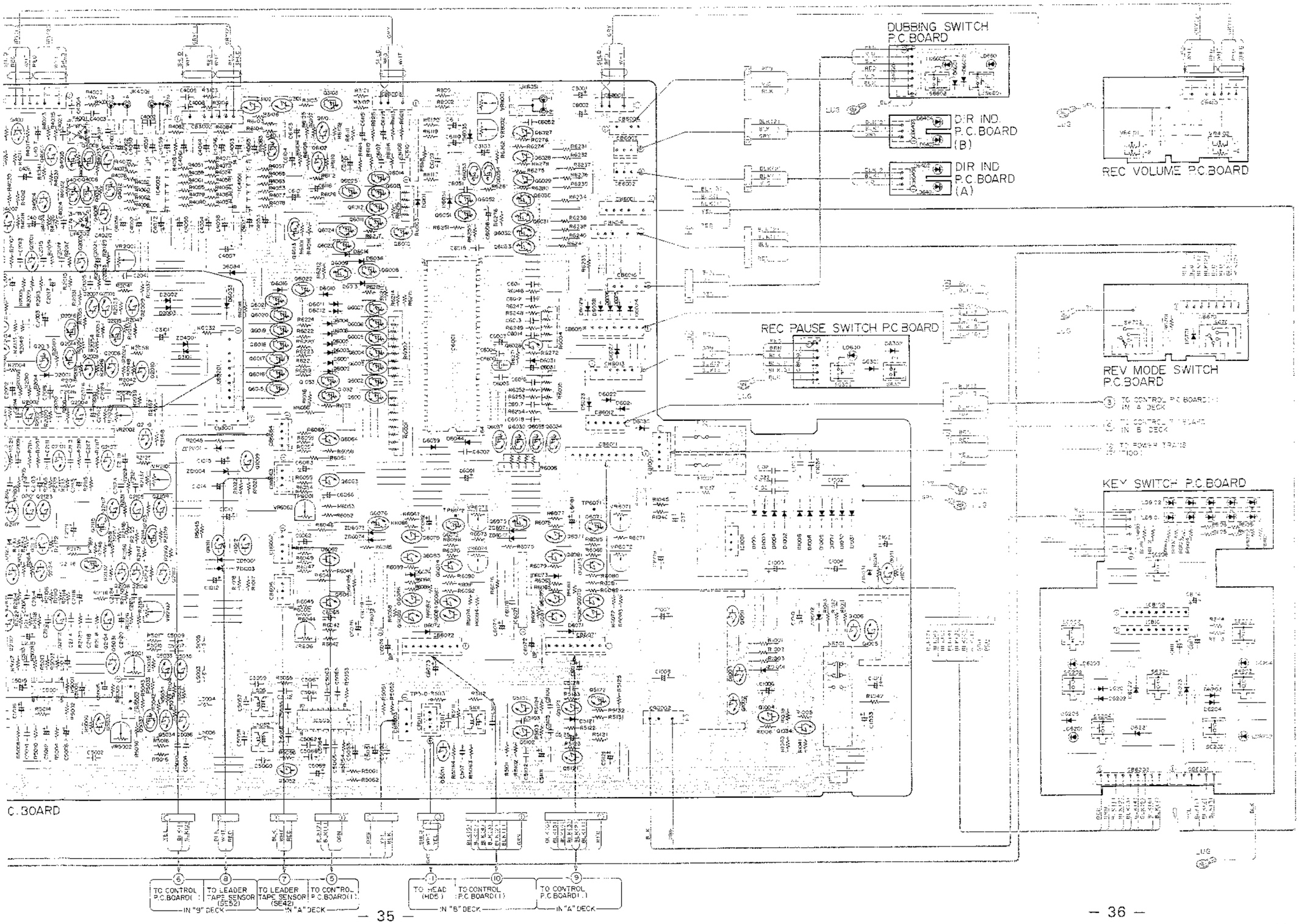
	IC4001	IC4002
1	—	—
2	—	—
3	—	—
4	—	—
5	—	—
6	—	—
7	0V	0V
8	—	—
9	—	—
10	—	—
11	—	—
12	—	—
13	—	—
14	18.8V	16.8V

	IC6071	IC6072
1	0V	0V
2	—	—
3	—	—
4	7.3V	7.3V
5	—	0V
6	—	0V
7	-11.7V	11.7V
8	-11.7V	-11.7V
9	—	—
10	—	—

	IC8101	IC8102
1	—	—
2	—	—
3	—	—
4	—	—
5	0V	0V
6	—	—
7	—	—
8	—	—
9	11.7V	11.7V

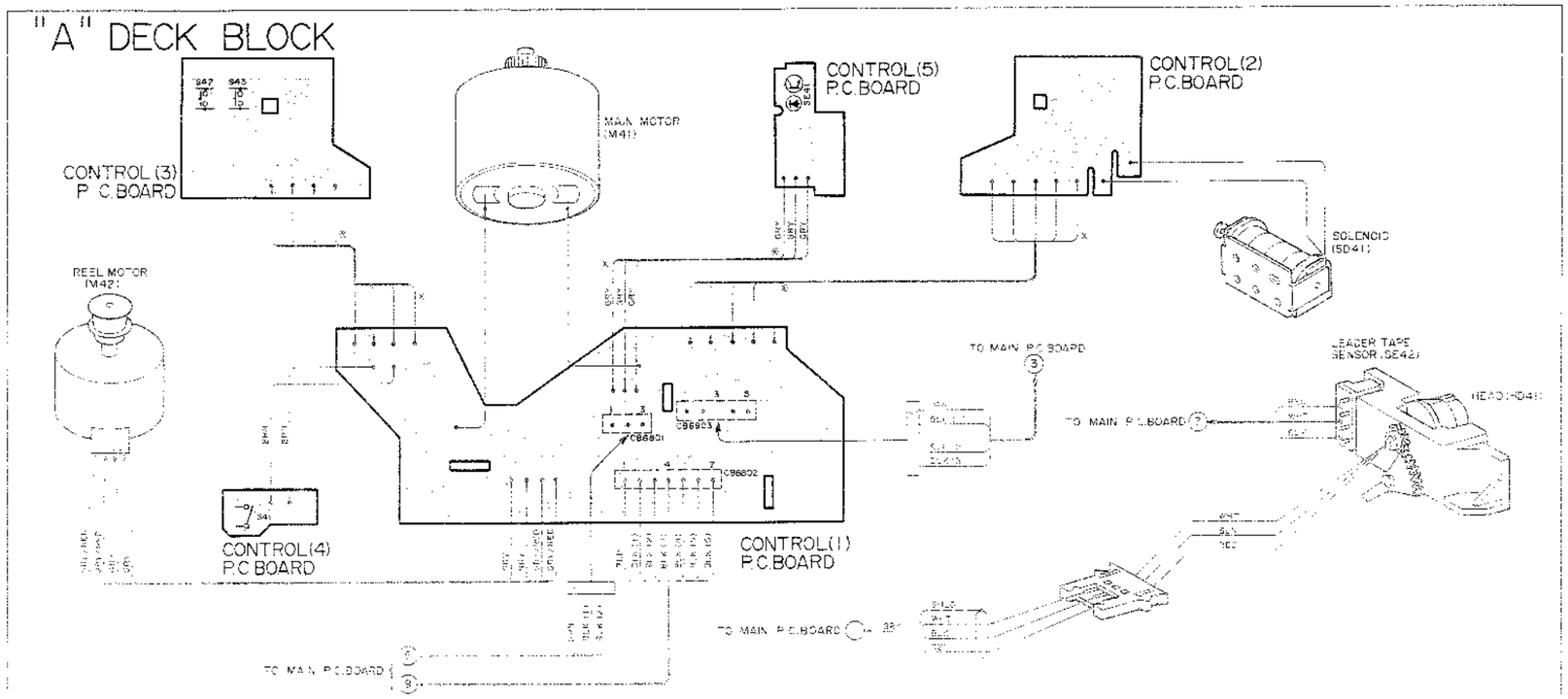
Parts Layout on P.C. Boards and Wiring Diagram (1/2)



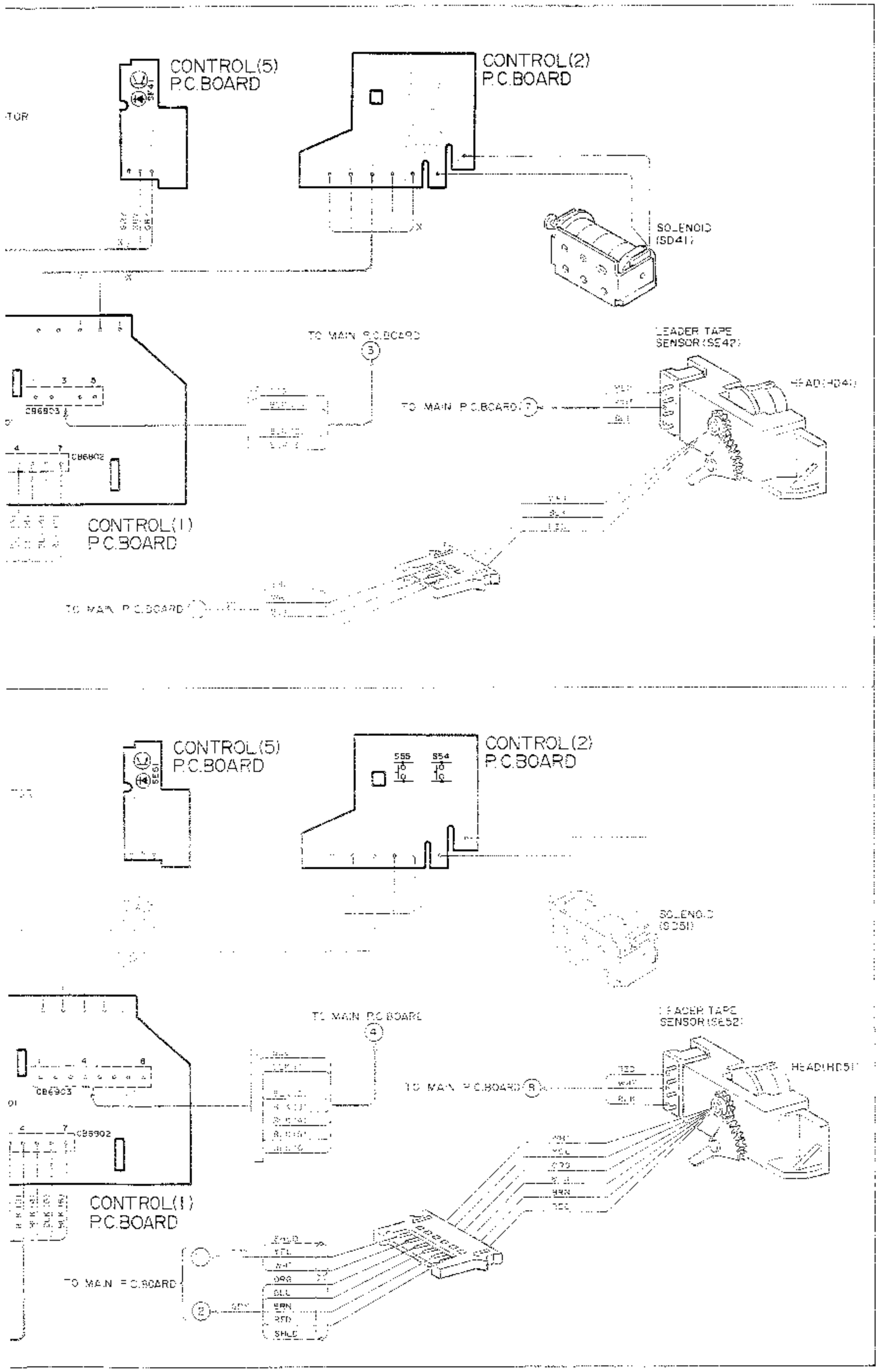

DUBBING SWITCH P.C.BOARD
DIR IND. P.C.BOARD (B)
DIR IND P.C.BOARD (A)
REC VOLUME P.C.BOARD
REC PAUSE SWITCH P.C.BOARD
REV MODE SWITCH P.C.BOARD
KEY SWITCH P.C.BOARD
C.BOARD
TO CONTROL P.C.BOARD(I) IN A DECK
TO CONTROL P.C.BOARD(I) IN B DECK
TO POWER TRANS
TO CONTROL P.C.BOARD(I)
TO LEADER TAPE SENSOR (SE52)
TO LEADER TAPE SENSOR (SE42)
TO CONTROL P.C.BOARD(I)
TO HEAD (HD5)
TO CONTROL P.C.BOARD(I)
TO CONTROL P.C.BOARD(I)
IN "B" DECK
IN "A" DECK
IN "B" DECK
IN "A" DECK

E F G H I J K L

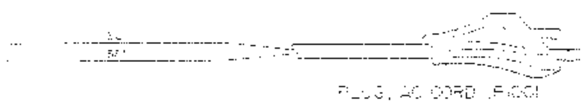
Parts Layout on P.C. Boards and Wiring Diagram (2/2)

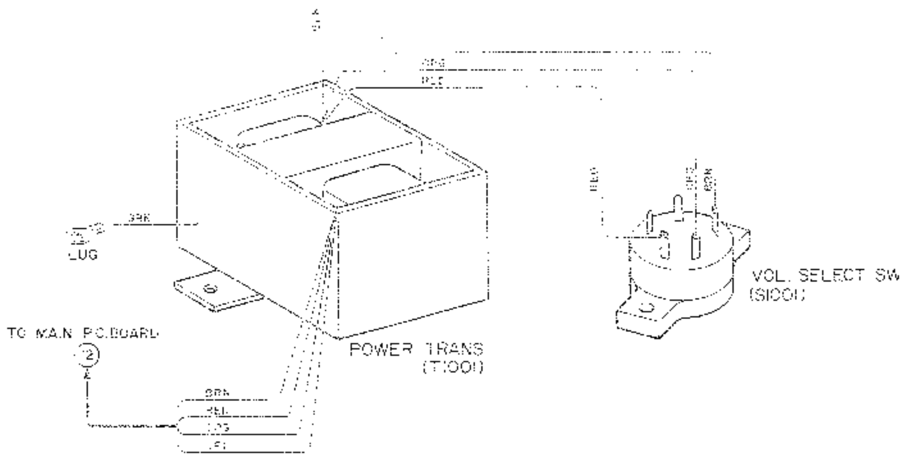


m (2/2)



BLU	Blue
GRN	Green
BLK	Black
GRY	Gray
WHT	White
RED	Red
BRN	Brown
ORG	Orange
YEL	Yellow
VIO	Violet
PNK	Pink
GRN/WHT	Green/White
GRY/WHT	Gray/White
GRY/YEL	Gray/Yellow
GRN/YEL	Green/Yellow
SHLD	Shield





Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μF = microfarads, pF = picofarads

Abbreviations

RES. =	Resistor	CAP. =	Capacitor
C.F. =	Carbon Film	ELY. =	Electrolytic
M.F. =	Metal Film	CER. =	Ceramic
M.O. =	Metal Oxide Film	MYL. =	Mylar
M.P. =	Metal Plate	TAN. =	Tantalum
TR. =	Transistor	POLY. =	Polystyrol
TRANS. =	Transformer	PP. =	Polypropylene
CP. =	Chip	PLT. =	Polyethylene

Symbol No.	Part No.	Description
Main P. C. Board		
IC's		
IC1001	51T50834F02	μPC7805H
IC4001	51T47739F01	TC4066BP
IC4002	51T47739F01	TC4066BP
IC5001	51T80136F01	M5238P
IC5051	51T72929F01	μPC1297CA
IC6001	51T96291F01	96291F01
IC6071	51T70536F01	BA6229
IC6072	51T70536F01	BA6229
IC6101	51T67915F01	M51143AL
Transistors		
Q1001	48T58614F01	2SD1406
Q1002	48T58614F01	2SD1406
Q1003	48T81101F01	2SC1815
Q1004	48T81101F02	2SC1815
Q1005	48T58614F01	2SD1406
Q1006	48T81101F01	2SC1815
Q1009	48T81101F01	2SC1815
Q1011	48T43015U01	2SC2120
Q1012	48T81101F01	2SC1815
Q1031	48T81101F02	2SC1815
Q1032	48T81715F12	DTC114Y
Q1033	48T81715F12	DTC114Y
Q1034	48T81101F01	2SC1815
Q2001	48T95079F01	2SC1843
Q2002	48T95079F01	2SC1843
Q2003	48T95079F01	2SC1843
Q2004	48T95079F01	2SC1843
Q2005	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2006	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2007	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2008	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2009	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2010	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2011	48T81101F01	2SC1815
Q2012	48T81101F01	2SC1815
Q2013	48T81715F03	DTA124E
Q2014	48T81715F03	DTA124E
Q2015	48T81715F03	DTA124E
Q2016	48T81715F03	DTA124E
Q2101	48T95079F01	2SC1843
Q2102	48T95079F01	2SC1843
Q2103	48T95079F01	2SC1843
Q2104	48T95079F01	2SC1843
Q2105	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2106	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2107	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2108	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2109	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2110	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2111	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2112	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q2113	48T81102F01	2SA1015
Q2114	48T81715F03	DTA124E
Q2115	48T81715F03	DTA124E
Q2116	48T81715F20	DTC124X
Q2117	48T42941U01	2SA921
Q2118	48T81101F01	2SC1815
Q2121	48S43394P01	2SC1890
Q2122	48S43394P01	2SC1890
Q2123	48S43394P01	2SC1890
Q2124	48S43394P01	2SC1890
Q3101	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q3102	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q3103	48T81715F03	DTA124E
Q4001	48T95079F01	2SC1843
Q4002	48T95079F01	2SC1843

Symbol No.	Part No.	Description
Q4003	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q4004	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q4005	48T81715F03	DTA124E
Q4006	48T81715F20	DTC124X
Q4007	48T81101F01	2SC1815
Q4008	48T81101F01	2SC1815
Q4009	48T81715F03	DTA124E
Q4010	48T81715F20	DTC124X
Q4011	48T81715F20	DTC124X
Q4012	48T81715F20	DTC124X
Q4013	48T81715F20	DTC124X
Q5031	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5032	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5033	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5034	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5035	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5036	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5037	48T81715F03	DTA124E
Q5051	48T81101F01	2SC1815
Q5052	48T43015U01	2SC2120
Q5101	48S40832F03	2SC1318NC
Q1502	48S40832F03	2SC1318NC
Q5121	48T43015U01	2SC2120
Q5122	48T81715F20	DTC124X
Q5123	48T81101F01	2SC1815
Q6001	48T81715F12	DTC114Y
Q6002	48T81715F12	DTC114Y
Q6003	48T81715F12	DTC114Y
Q6004	48T81715F12	DTC114Y
Q6005	48T81715F12	DTC114Y
Q6006	48T81715F12	DTC114Y
Q6007	48T81715F12	DTC114Y
Q6008	48T81715F12	DTC114Y
Q6009	48T81715F12	DTC114Y
Q6010	48T81715F12	DTC114Y
Q6011	48T81715F12	DTC114Y
Q6012	48T81715F12	DTC114Y
Q6013	48T81715F12	DTC114Y
Q6014	48T81715F12	DTC114Y
Q6015	48T81715F03	DTA124E
Q6016	48T81715F03	DTA124E
Q6017	48T81715F03	DTA124E
Q6018	48T81715F03	DTA124E

Symbol No.	Part No.	Description
Q6019	48T81715F03	DTA124E
Q6020	48T81715F03	DTA124E
Q6021	48T81715F03	DTA124E
Q6022	48T81715F03	DTA124E
Q6023	48T81715F03	DTA124E
Q6024	48T81715F03	DTA124E
Q6025	48T81715F03	DTA124E
Q6026	48T81101F02	2SC1815
Q6027	48T81102F01	2SA1015
Q6028	48T81102F01	2SA1015
Q6029	48T81102F01	2SA1015
Q6030	48T81715F12	DTC114Y
Q6031	48T81715F12	DTC114Y
Q6032	48T81715F12	DTC114Y
Q6033	48T81715F12	DTC114Y
Q6034	48T81715F12	DTC114Y
Q6035	48T81715F12	DTC114Y
Q6036	48T81715F12	DTC114Y
Q6037	48T81715F12	DTC114Y
Q6051	48T81715F07	DTA143E
Q6052	48T81715F12	DTC114Y
Q6053	48T81715F03	DTA124E
Q6054	48T81715F12	DTC114Y
Q6061	48T81101F01	2SC1815
Q6062	48T81101F01	2SC1815
Q6063	48T81101F01	2SC1815
Q6064	48T81101F01	2SC1815
Q6071	48T62963F06	DTC114Y
Q6072	48T62963F06	DTC114Y
Q6073	48T81102F01	2SA1015
Q6074	48T81102F01	2SA1015
Q6075	48T81715F12	DTC114Y
Q6076	48T81715F12	DTC114Y
Q6077	48T81101F01	2SC1815
Q6078	48T81101F01	2SC1815
Q6079	48T81101F01	2SC1815
Q6080	48T81101F01	2SC1815
Q6081	48T43015U01	2SC2120
Q6082	48T43015U01	2SC2120
Q6083	48T43015U01	2SC2120
Q6084	48T43015U01	2SC2120
Q6085	48T81101F01	2SC1815
Q6086	48T81101F01	2SC1815
Q6087	48T43015U01	2SC2120
Q6088	48T43015U01	2SC2120
Q6101	48T81101F01	2SC1815
Q6102	48T81101F01	2SC1815

SyMbol No.	Part No.	Description
Diodes		
D1001	48S40477U01	IN4003
D1002	48S40477U01	IN4003
D1003	48S40477U01	IN4003
D1004	48S40477U01	IN4003
D1005	48S40477U01	IN4003
D1006	48S40477U01	IN4003
D1007	48S40477U01	IN4003
D1008	48S40477U01	IN4003
D1031	48S40477U01	IN4003
D1032	48S40477U01	IN4003
D2001	48T44813F01	MA165TA
D2002	48T43189F01	1S1555
D2003	48T43189F01	1S1555
D2121	48T73079F02	1SS82
D2122	48T73079F02	1SS82
D3101	48T43189F01	1S1555
D5121	48T44813F01	MA165TA
D6001	48T44813F01	MA165TA
D6002	48T44813F01	MA165TA
D6003	48T44813F01	MA165TA
D6004	48T44813F01	MA165TA
D6005	48T44813F01	MA165TA
D6006	48T44813F01	MA165TA
D6010	48T44813F01	MA165TA
D6011	48T44813F01	MA165TA
D6012	48T44813F01	MA165TA
D6013	48T43189F01	1S1555
D6014	48T43189F01	1S1555
D6016	48T44813F01	MA165TA
D6021	48T44813F01	MA165TA
D6022	48T44813F01	MA165TA
D6023	48A64813F01	MA165TA
D6024	48T44813F01	MA165TA
D6025	48T44813F01	MA165TA
D6026	48T44813F01	MA165TA
D6027	48T44813F01	MA165TA
D6028	48T44813F01	MA165TA
D6029	48T44813F01	MA165TA
D6030	48T44813F01	MA165TA
D6031	48T44813F01	MA165TA
D6033	48T43189F01	1S1555
D6034	48T43189F01	1S1555
D6035	48T44813F01	MA165TA
D6036	48T43189F01	1S1555
D6039	48T43189F01	1S1555
D6044	48T43189F01	1S1555
D6051	48T44813F01	MA165TA
D6071	48S40477U01	IN4003
D6072	48S40477U01	IN4003
D6073	48T44813F01	MA165TA
D6074	48T44813F01	MA165TA
D6101	48T43189F01	1S1555
ZD1001	48T52741F41	Zener, HZ12B-2L
ZD1002	48T52741F57	Zener, HZ20-3L
ZD1003	48T52739F83	Zener, HZ18-2
ZD1004	48T52739F74	Zener, HZ12B-2
ZD1031	48T52739F82	Zener, HZ18-1
ZD2001	48T52739F73	Zener, HZ12B-1
ZD4001	48T52739F07	Zener, HZ3A-1
ZD5001	48T52739F59	Zener, HZ9C-2
ZD6071	48T52739F27	Zener, HZ5A-3
ZD6072	48T52739F50	Zener, HZ7C-2
ZD6073	48T52739F27	Zener, HZ5A-3
ZD6074	48T52739F50	Zener, HZ7C-2

SyMbol No.	Part No.	Description
Capacitors		
C1001	21T68834F01	CER., 0.01μF
C1002	21T68834F01	CER., 0.01μF
C1003	23T00134L47	ELY., 2200μF/25V
C1004	23T00134L61	ELY., 3300μF/35V
C1006	23T00134L45	ELY., 470μF/25V
C1007	23T00135L32	ELY., 6800μF/16V
C1008	23T00135L32	ELY., 6800μF/16V
C1009	23T00134L25	ELY., 6800μF/10V
C1010	23T00149L37	ELY., 220μF/25V
C1011	23T00149L37	ELY., 220μF/25V
C1012	23T00149L35	ELY., 47μF/25V
C1013	23T00149L37	ELY., 220μF/25V
C1014	23T00149L36	ELY., 100μF/25V
C1015	23T00149L35	ELY., 47μF/25V
C1021	21T68834F01	CER., 0.01μF
C1022	21T68834F01	CER., 0.01μF
C1023	21T68834F01	CER., 0.01μF
C1024	21T68834F01	CER., 0.01μF
C1031	23T00149L51	ELY., 0.47μF/50V
C1033	23T00149L32	ELY., 10μF/25V
C1037	23T00149L32	ELY., 10μF/25V
C2001	23T00149L32	ELY., 10μF/25V
C2002	23T00149L32	ELY., 10μF/25V
C2003	23T00138L26	ELY., 4.7μF/25V
C2005	23T42478F09	ELY., 4.7μF/25V
C2006	23T42478F09	ELY., 4.7μF/25V
C2007	08S40805F02	CER., 150pF
C2008	08S40805F02	CER., 150pF
C2009	08T57705F54	MYL., 820pF
C2010	08T57705F54	MYL., 820pF
C2011	23T74436F29	TAN., 3.3μF/16V
C2013	08S40805F05	CER., 470pF

Symbol No.	Part No.	Description
C2014	08S40805F05	CER., 470pF
C2015	08T61940F27	CER., 47pF
C2016	08T61940F27	CER., 47pF
C2017	23T00149L36	ELY., 100μF/25V
C2018	23T00149L36	ELY., 100μF/25V
C2019	08T57705F61	MYL., 3300pF
C2020	08T57705F61	MYL., 3300pF
C2021	23T00180L12	ELY., 22μF/25V
C2022	23T00180L12	ELY., 22μF/25V
C2023	08T57705F69	MYL., 0.015μF
C2024	08T57705F69	MYL., 0.015μF
C2025	08S65480F61	CER., 0.01μF
C2026	08S65480F61	CER., 0.01μF
C2041	08T57705F66	MYL., 8200pF
C2042	08T57705F66	MYL., 8200pF
C2101	23T00138L26	ELY., 4.7μF/25V
C2103	23T00149L32	ELY., 10μF/25V
C2104	23T00149L32	ELY., 10μF/25V
C2105	08T57705F55	MYL., 1000pF
C2106	08T57705F55	MYL., 1000pF
C2107	08T52714F17	CER., 0.022μF
C2108	08T52714F17	CER., 0.022μF
C2109	23T42478F09	ELY., 4.7μF/25V
C2110	23T42478F09	ELY., 4.7μF/25V
C2111	08S40805F05	CER., 470pF
C2112	08S40805F05	CER., 470pF
C2113	08T61940F27	CER., 47pF
C2114	08T61940F27	CER., 47pF
C2115	23T00149L36	ELY., 100μF/25V
C2116	23T00149L36	ELY., 100μF/25V
C2117	08T57705F61	MYL., 3300pF
C2118	08T57705F61	MYL., 3300pF
C2119	23T00180L12	ELY., 22μF/25V
C2120	23T00180L12	ELY., 22μF/25V
C2121	08T42629F69	MYL., 0.015μF
C2122	08T57705F69	MYL., 0.015μF
C2123	08T57705F67	MYL., 0.01μF
C2124	08T57705F67	MYL., 0.01μF
C2161	08S40805F01	CER., 100pF
C3101	23T00149L37	ELY., 220μF/25V
C3103	23T00149L52	ELY., 1μF/50V
C4001	08T52714F17	CER., 0.022μF
C4002	08S52714F17	CER., 0.022μF
C4003	08S40805F02	CER., 150pF
C4004	08S40805F02	CER., 150pF
C4005	08S40805F05	CER., 470pF
C4006	08S40805F05	CER., 470pF
C4011	23T00138L26	ELY., 4.7μF/25V
C4013	23T00149L32	ELY., 10μF/25V
C4014	23T00149L32	ELY., 10μF/25V
C4015	23T00138L26	ELY., 4.7μF/25V
C4016	23T00138L26	ELY., 4.7μF/25V

Symbol No.	Part No.	Description
C4017	23T00149L32	ELY., 10μF/25V
C4018	23T00149L32	ELY., 10μF/25V
C4019	08T57705F60	MYL., 2700pF
C4020	08T57705F60	MYL., 2700pF
C4023	08T57705F60	MYL., 2700pF
C4024	08T57705F60	MYL., 2700pF
C4051	23T00149L32	ELY., 10μF/25V
C4052	23T00149L32	ELY., 10μF/25V
C4053	23T00149L32	ELY., 10μF/25V
C4054	23T00149L32	ELY., 10μF/25V
C4055	23T00149L32	ELY., 10μF/25V
C4056	23T00149L32	ELY., 10μF/25V
C4057	23T00149L32	ELY., 10μF/25V
C4058	23T00149L32	ELY., 10μF/25V
C4059	23T00149L32	ELY., 10μF/25V
C4060	23T00149L32	ELY., 10μF/25V
C4061	23T00149L32	ELY., 10μF/25V
C4062	23T00149L32	ELY., 10μF/25V
C4063	23T00149L32	ELY., 10μF/25V
C4064	23T00149L32	ELY., 10μF/25V
C4065	23T00149L32	ELY., 10μF/25V
C4066	23T00149L32	ELY., 10μF/25V
C4071	23T00149L33	ELY., 22μF/25V
C4072	23T00149L33	ELY., 22μF/25V
C5001	23T00138L26	ELY., 4.7μF/25V
C5002	08T52714F17	CER., 0.022μF
C5005	23T00149L32	ELY., 10μF/25V
C5006	23T00149L32	ELY., 10μF/25V
C5007	08T57705F67	MYL., 0.01μF
C5008	08T57705F67	MYL., 0.01μF
C5009	08T57705F63	MYL., 4700pF
C5010	08T57705F63	MYL., 4700pF
C5011	23T00149L33	ELY., 22μF/25V
C5012	23T00149L33	ELY., 22μF/25V
C5013	08T57705F73	MYL., 0.033μF
C5014	08T57705F73	MYL., 0.033μF
C5015	23T00149L32	ELY., 10μF/25V
C5016	23T00149L32	ELY., 10μF/25V
C5017	08T57705F51	MYL., 470pF
C5018	08T57705F51	MYL., 470pF
C5051	23T00149L32	ELY., 10μF/25V
C5052	08T52714F17	CER., 0.022μF
C5053	23T00149L32	ELY., 10μF/25V
C5055	08T90316F25	TF., 0.047μF
C5056	08T90316F25	TF., 0.047μF
C5057	08S40805F05	CER., 470pF
C5058	08S40805F05	CER., 470pF
C5059	08S40805F04	CER., 330pF
C5060	08S40805F04	CER., 330PF
C5061	08T90316F29	TF., 0.1μF
C5062	08T90316F29	TF., 0.1μF
C5063	08T57705F71	MYL., 0.022μF

Symbol No.	Part No.	Description
C5064	08T57705F71	MYL., 0.022μF
C5065	08T57705F67	MYL., 0.01μF
C5066	08T57705F67	MYL., 0.01μF
C5067	21S40655F31	CER., 560pF
C5068	21S40655F31	CER., 560pF
C5069	23T00149L32	ELY., 10μF/25V
C5071	08T52714F17	CER., 0.022μF
C5101	23T00138L46	ELY., 2.2μF/50V
C5102	08T52714F17	CER., 0.022μF
C5103	08T52448F33	PP., 6800pF
C5104	08T52448F41	PP., 0.015μF
C5105	08T52448F25	PP., 3300pF
C5106	08T52448F25	PP., 3300pF
C5111	08T52448F33	PP., 6800pF
C5112	21S40655F11	CER., 10pF
C5121	23T74436F41	TAN., 10μF/25V
C5125	23T00149L33	ELY., 22μF/25V
C5128	08T52714F17	CER., 0.022μF
C6001	23T00149L16	ELY., 470μF/10V
C6002	08T52714F17	CER., 0.022μF
C6003	23T00149L51	ELY., 0.47μF/50V
C6004	08T61940F22	CER., 30pF
C6005	08T61940F22	CER., 30pF
C6006	23T00149L32	ELY., 10μF/25V
C6011	08S65480F37	CER., 100pF
C6012	08S65480F37	CER., 100pF
C6013	08S65480F37	CER., 100pF
C6014	08S65480F37	CER., 100pF
C6015	08S65480F37	CER., 100pF
C6016	08S65480F37	CER., 100pF
C6017	08S65480F37	CER., 100pF
C6018	08S65480F37	CER., 100pF
C6031	23T00149L32	ELY., 10μF/25V
C6051	08S65480F37	CER., 100pF
C6052	08S52714F17	CER., 0.022μF
C6062	23T00149L33	ELY., 22μF/25V
C6063	23T00149L33	ELY., 22μF/25V
C6065	23T00149L51	ELY., 0.47μF/50V
C6066	23T00149L51	ELY., 0.47μF/50V
C6071	23T00149L32	ELY., 10μF/25V
C6072	23T00140L37	ELY., (BP.) 2.2μF/50V
C6073	23T00149L32	ELY., 10μF/25V
C6074	23T00140L37	ELY., (BP.) 2.2μF/50V
C6075	23T00149L35	ELY., 47μF/25V
C6076	23T00149L35	ELY., 47μF/25V
C6078	08T52714F13	CER., 0.01μF
C6079	08T52714F13	CER., 0.01μF
C6081	23T00149L35	ELY., 47μF/25V
C6082	23T00149L35	ELY., 47μF/25V
C6101	23T00149L35	ELY., 47μF/25V
C6103	23T00149L32	ELY., 10μF/25V
C6104	23T00149L32	ELY., 10μF/25V

Symbol No.	Part No.	Description
C6105	23T00149L32	ELY., 10μF/25V
C6106	23T00149L32	ELY., 10μF/25V
C6107	08T57705F55	MYL., 1000pF
C6108	08T57705F71	MYL., 0.022μF
C6109	08T90316F29	TF., 0.1μF
C6110	23T00149L52	ELY., 1μF/50V
C6111	23T00149L35	ELY., 47μF/25V
C6115	23T00149L35	ELY., 47μF/25V
C6116	23T00149L35	ELY., 47μF/25V
C8001	23T00149L32	ELY., 10μF/25V
C8002	23T00149L32	ELY., 10μF/25V

Resistors

	R1037	06T92265F13	MF. 33ohm 3W
○	R6001	06S84854F06	Block 10Kohm ×8
△	R6001	06T52333F05	Block 10Kohm ×8
○	R6002	06S84854F06	Block 10Kohm ×8
△	R6002	06T52333F05	Block 10Kohm ×8
○	R6003	06S84854F02	Block 10Kohm ×4
△	R6003	06T52333F02	Block 10Kohm ×4
○	R6004	06S84854F02	Block 10Kohm ×4
△	R6004	06T52333F02	Block 10Kohm ×4
○	R6005	06S84854F02	Block 10Kohm ×4
△	R6005	06T52333F02	Block 10Kohm ×4
○	R6006	06S84854F02	Block 10Kohm ×4
△	R6006	06T52333F02	Block 10Kohm ×4
	R6061	06T92265F13	MF. 33ohm 3W
	R6062	06T92265F13	MF. 33ohm 3W
	R6076	06T92264F01	MF. 10ohm 2W
	R6086	06T92264F01	MF. 10ohm 2W
	VR2001	18T15356W15	Volume, RH0634C 22Kohm
	VR2002	18T15356W15	Volume, RH0634C 22Kohm
	VR2101	18T15356W15	Volume, RH0634C 22Kohm
	VR2102	18T15356W15	Volume, RH0634C 22Kohm
	VR5001	18T15356W17	Volume, RH0634C 47Kohm
	VR5002	18T15356W17	Volume, RH0634C 47Kohm
	VR6061	18T15356W13	Volume, RH0634C 10Kohm
	VR6062	18T15356W13	Volume, RH0634C 10Kohm
	VR6071	18T15355W12	Volume, RH064C 6.8Kohm
	VR6072	18T15355W11	Volume, RH064C 4.7Kohm
	VR6073	18T15355W12	Volume, RH064C 6.8Kohm
	VR6074	18T15355W11	Volume, RH064C 4.7Kohm
	VR8001	18T15356W17	Volume, RH0634C 47Kohm
	VR8002	18T15356W17	Volume, RH0634C 47Kohm

○ : With Safety Regulations Version (AD) △ : Without Safety Regulations Version (EK)

Symbol No.	Part No.	Description
Coils / Filters		
L5003	24T81850F08	Inductor 3.9mH
L5004	24T81850F08	Inductor 3.9mH
L5005	24T81850F01	Inductor 1mH
L5006	24T81850F01	Inductor 1mH
L5051	24T72930F01	Coil, HX
L5052	24T72930F01	Coil, HX
L5101	24T70526F02	Coil, OSC
LF4001	24T70527F03	Filter, MPX
LF4002	24T70527F03	Filter, MPX
LF5001	24T70528F01	Filter, Bias
LF5002	24T70528F01	Filter, Bias
Ceramic Filter / Switch		
CF6001	91T70534F01	Ceramic Filter 4MHz
S6501	40T15334W01	Switch, Push (TIMER)
Jacks		
JK4001	09T15454W03	Plate, Phono 4P (LINE IN/OUT)
JK6051	09T15461W01	Mini., 2P (BUS LINE)
Dolby P. C. Board		
IC		
IC3001	51T73972F02	HA12088ANT
Transistors		
Q3001	48T81101F01	2SC1815
Q3002	48T81715F12	DTC114Y
Q3003	48T81715F12	DTC114Y
Q5071	48T81101F01	2SC1815
Q5072	48T81101F01	2SC1815
Q5073	48T81101F01	2SC1815
Q5074	48T81101F01	2SC1815
Q5075	48T81101F01	2SC1815
Q5076	48T81101F01	2SC1815
Q5201	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5202	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5203	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5204	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5205	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5206	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5207	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5208	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5209	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5210	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5211	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Q5212	48T57305F04	2SD1302
or	48T90183F04	2SD1996
Diodes		
D3001	48T15817W01	1SS108
D5071	48T44813F01	MA165TA
D5072	48T44813F01	MA165TA
D5073	48T44813F01	MA165TA
D5074	48T44813F01	MA165TA
D5075	48T44813F01	MA165TA
D5076	48T44813F01	MA165TA
D5201	48T44813F01	MA165TA
D5202	48T44819F01	1S1555
D5203	48T44813F01	MA165TA
D5204	48T43189F01	1S1555
D5205	48T44813F01	MA165TA
D5206	48T43189F01	1S1555
D5207	48T44813F01	MA165TA
D5208	48T44813F01	MA165TA
D5209	48T44813F01	MA165TA
D5210	48T44813F01	MA165TA
D5211	48T44813F01	MA165TA
D5212	48T44813F01	MA165TA
ZD3001	48T52739F47	Zener, HZ7B-2
ZD3002	48T52740F09	Zener, HZ12C-3
ZD3003	48T52739F43	Zener, HZ7A-1
Coils		
L3001	24T81850F22	Inductor 36mH
L3002	24T81850F22	Inductor 36mH

Symbol No.	Part No.	Description
Capacitors		
C3001	23T00181L21	ELY., 1000μF / 16V
C3003	23T00149L37	ELY., 220μF / 25V
C3004	23T00149L33	ELY., 22μF / 25V
C3005	23T00149L25	ELY., 100μF / 16V
C3007	23T00149L33	ELY., 22μF / 25V
C3011	23T42478F24	ELY., 1μF / 50V
C3012	23T42478F24	ELY., 1μF / 50V
C3013	23T42478F21	ELY., 0.33μF / 50V
C3014	23T42478F21	ELY., 0.33μF / 50V
C3015	23T00149L32	ELY., 10μF / 25V
C3016	23T00149L32	ELY., 10μF / 25V
C3017	23T00138L26	ELY., 4.7μF / 25V
C3018	23T00138L26	ELY., 4.7μF / 25V
C3019	08T57705F58	MYL., 1800pF
C3020	08T57705F58	MYL., 1800pF
C3021	08T57705F67	MYL., 0.01μF
C3022	08T57705F67	MYL., 0.01μF
C3023	23T00149L52	ELY., 1μF / 50V
C3024	23T00149L52	ELY., 1μF / 50V
C3025	08T57705F70	MYL., 0.018μF
C3026	08T57705F70	MYL., 0.018μF
C3027	23T42478F23	ELY., 0.68μF / 50V
C3028	23T42478F23	ELY., 0.68μF / 50V
C3029	23T00149L53	ELY., 2.2μF / 50V
C3030	23T00149L53	ELY., 2.2μF / 50V
C3031	08T57705F70	MYL., 0.018μF
C3032	08T57705F70	MYL., 0.018μF
C3033	08T57705F67	MYL., 0.01μF
C3034	08T57705F67	MYL., 0.01μF
C3035	08T90316F28	TF., 0.082μF
C3036	08T90316F28	TF., 0.082μF
C3037	23T42478F23	ELY., 0.68μF / 50V
C3038	23T42478F23	ELY., 0.68μF / 50V
C3039	23T00149L53	ELY., 2.2μF / 50V
C3040	23T00149L53	ELY., 2.2μF / 50V
C3041	23T00138L26	ELY., 4.7μF / 25V
C3042	23T00138L26	ELY., 4.7μF / 25V
C3045	23T00149L32	ELY., 10μF / 25V
C3046	23T00149L32	ELY., 10μF / 25V
C3047	23T00138L11	ELY., 47μF / 10V
C3048	23T00138L11	ELY., 47μF / 10V
C3049	08S40805F05	CER., 470pF
C3050	08S40805F05	CER., 470pF
C3051	08T52714F17	CER., 0.022μF
C5201	08T57705F63	MYL., 4700pF
C5202	08T57705F63	MYL., 4700pF
C5211	08T57705F63	MYL., 4700pF
C5212	08T57705F63	MYL., 4700pF
C5221	08T57705F62	MYL., 3900pF
C5222	08T57705F62	MYL., 3900pF

Symbol No.	Part No.	Description
C5231	08T57705F60	MYL., 2700pF
C5232	08T57705F60	MYL., 2700pF
C5233	08S40805F01	CER., 100pF
C5234	08S40805F01	CER., 100pF
C5241	08T57705F56	MYL., 1200pF
C5242	08T57705F56	MYL., 1200pF
C5243	21S40655F28	CER., 270pF
C5244	21S40655F28	CER., 270pF
C5251	08T57705F57	MYL., 1500pF
C5252	08T57705F57	MYL., 1500pF
C5253	08S40805F02	CER., 150pF
C5254	08S40805F02	CER., 150pF
C5261	23T00149L32	ELY., 10μF / 25V
C5262	23T00149L32	ELY., 10μF / 25V
C5263	23T00149L32	ELY., 10μF / 25V
C5264	23T00149L32	ELY., 10μF / 25V
C5267	08T57705F79	MYL., 0.1μF
C5268	23T57705F79	MYL., 0.1μF
Volume		
VR5071	18T15356W12	RH0634C 6.8Kohm
VR5072	18T15356W12	RH0634C 6.8Kohm
VR5073	18T15356W09	RH0634C 2.2Kohm
VR5074	18T15356W09	RH0634C 2.2Kohm
VR5075	18T15356W08	RH0634C 1.5Kohm
VR5076	18T15356W08	RH0634C 1.5Kohm
Key Switch P. C. Board		
IC's		
IC8101	15T51749F01	BA6124
IC8102	51T51749F01	BA6124
Diodes		
D6201	48T44813F01	MA165TA
D6202	48T44813F01	MA165TA
D6203	48T44813F01	MA165TA
D6204	48T44813F01	MA165TA
D6205	48T44813F01	MA165TA
D6221	48T43189F01	1S1555
D6222	48T43189F01	1S1555
D6223	48T43189F01	1S1555

Symbol No.	Part No.	Description
LED's		
LD6201	48T60488F01	SLR-54DU3 (ORG)
LD6202	48T60488F01	SLR-54DU3 (ORG)
LD6203	48T60488F01	SLR-54DU3 (ORG)
LD6204	48T60488F01	SLR-54DU3 (ORG)
LD8101	48T56898F03	SLJ-165DU3HLF (RED)
LD8102	48T56898F03	SLJ-165DU3HLF (RED)
Capacitors		
C8111	23T00149L32	ELY., 10μF/25V
C8113	23T00149L32	ELY., 10μF/25V
C8114	23T00149L32	ELY., 10μF/25V
Switches		
S6201	40T83324F15	Tact, SKHHPM (□)
S6202	40T83324F15	Tact, SKHHPM (◁◁)
S6203	40T83324F15	Tact, SKHHPM (▷▷)
S6204	40T83324F15	Tact, SKHHPM (◁)
S6205	40T83324F15	Tact, SKHHPM (▷)
S6206	40T83324F15	Tact, SKHHPM (A)
S6207	40T83324F15	Tact, SKHHPM (B)
S6208	40T83324F15	Tact, SKHHPM (POWER)
Dubbing Switch P. C. Board		
Diodes / LED's		
D6601	48T44813F01	MA165TA
D6602	48T44813F01	MA165TA
LD6601	48T72160F01	LED, SLR-40VR3F (RED)
LD6602	48T72160F01	LED, SLR-40VR3F (RED)
Switches		
S6601	40T83324F15	Tact, SKHHPM (DUB×1)
S6602	40T83324F15	Tact, SKHHPM (DUB×2)
REC Pause Switch P. C. Board		
Diodes / LED		
D6301	48T44813F01	MA165TA
D6302	48T44813F01	MA165TA
LD6301	48T72160F01	LED, SLR-40VR3F (RED)

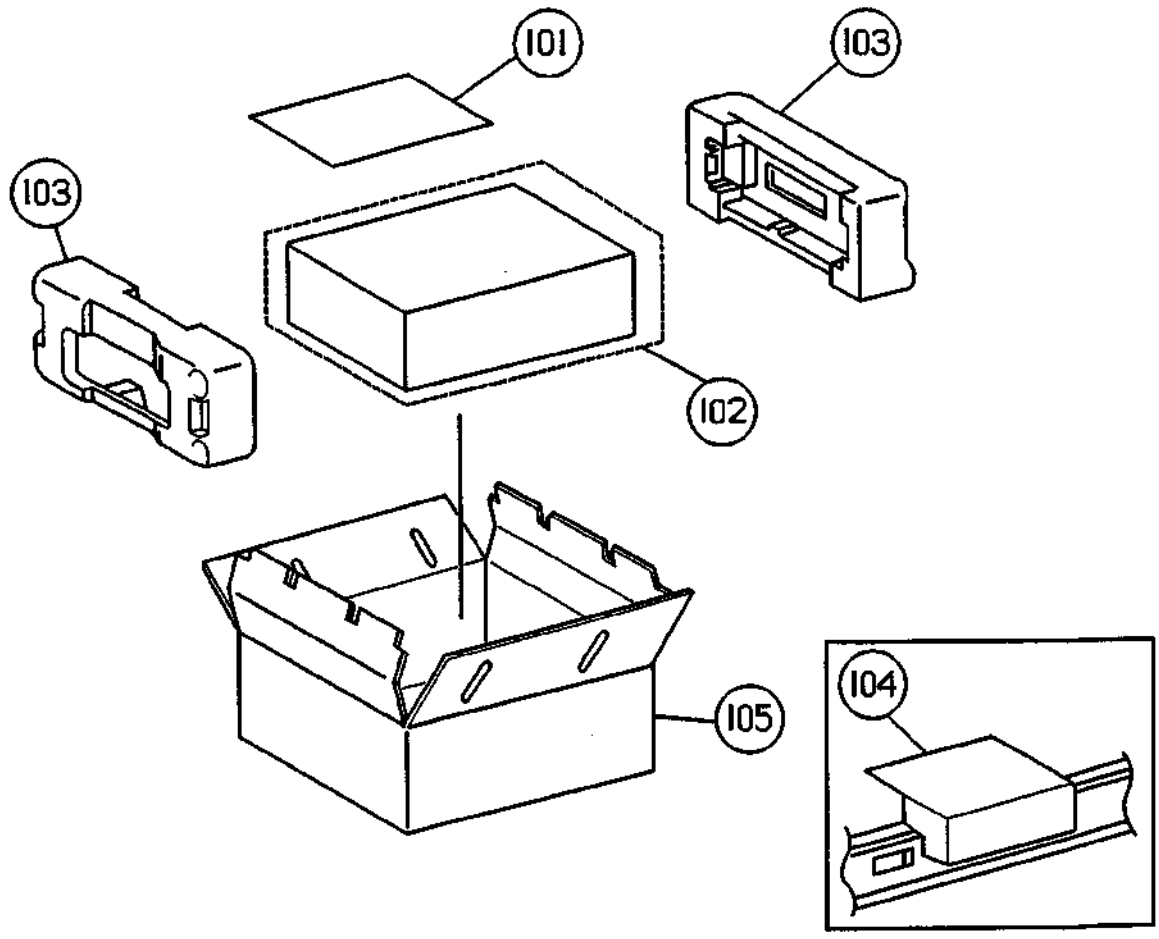
Symbol No.	Part No.	Description
Switches		
S6301	40T83324F15	Tact, SKHHPM (REC MUTE)
S6302	40T83324F15	Tact, SKHHPM (REC PAUSE)
REC Volume P. C. Board		
Volume		
VR4101	18T15339W01	Rotaly, RK097 50KMN (REC BALANCE)
VR4102	18T15338W01	Rotaly, RK097 50KB (REC LEVEL)
REV Mode Switch P. C. Board		
Diode		
D6701	48T44813F01	MA165TA
Switches		
S6701	40T15336W01	Rotaly, SRBM(2-4) (REVERSE MODE)
S6702	40T15337W01	Rotaly, SRBM(2-3) (DOLBY NR)
Miscellaneous		
F1001	65T42077U14	Fuse, Semko. 630mA
F1002	65T42077U19	Fuse, Semko. 2A
LD6401	48T60485F01	LED, SLR-34MG3 (GRN)
LD6402	48T60485F01	LED, SLR-34MG3 (GRN)
LD6403	48T60485F01	LED, SLR-34MG3 (GRN)
LD6404	48T60485F01	LED, SLR-34MG3 (GRN)
P1001	28T43812P02	Plug, AC Cord
S1001	40T80258F03	SW., Voltage Select
T1001	25T16185W01	Trans, Power

Packing Assembly Parts List

Symbol No.	Part No.	Description
101-1	68P21552W03	Owner's, Manual
101-2	28T15331W02	Plug, Output
101-3	28T15332W02	Cord, Cont
102	56B13156W01	Packing, Sheet
103	56D11359W01	Tray, Packing
104	56B13077W01	Pad, Inner
105	56S10005W85	Carton, Packing

Symbol No.	Part No.	Description

Packing Method View



Cabinet Assembly Parts List

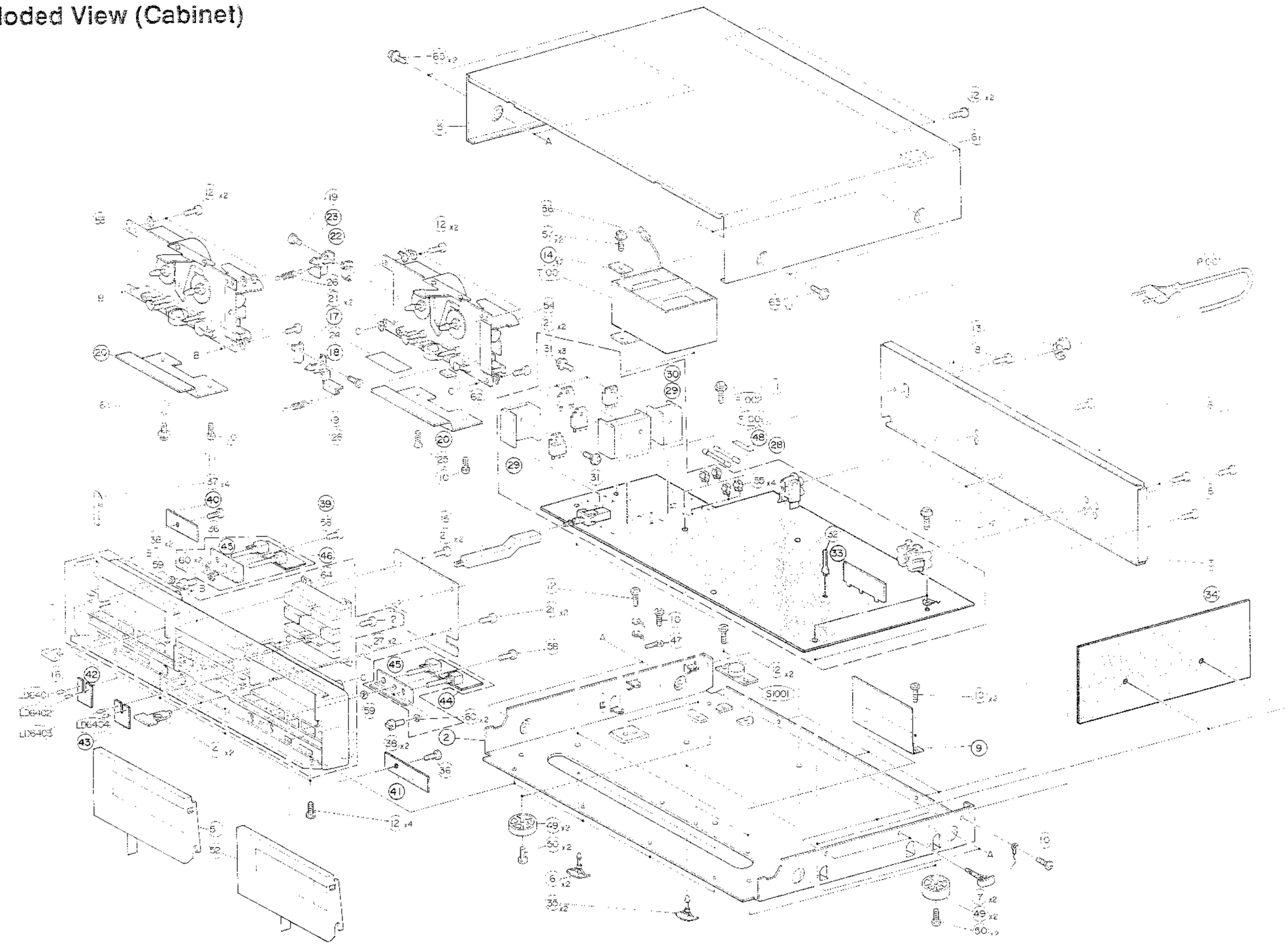
NOTE : The parts without part List are not supplied.

Symbol No.	Index	Part No.	Description
1	4-A	64C21454W01	Assy., Front Panel
△ 3	3-G	15C11356W14	Cover, Rear
○ 3	3-G	15C11356W16	Cover, Rear
4	4-B	36B11370W01	Knob, Eject
5	1-C	15C11357W02	Cover, Top
6	5-D	15T84846F03	LSR-10R
7	5-F	15T84846F01	LSR-6R
8		03A82468F01	Screw, Bind (M3×10)
10		03A44642J03	Screw, Bind (M3×5)
11		03S71677F38	Screw, Flange (M3×6)
12		03S71031F04	Screw, Bind (M3×8)
13	2-F	43B41625J02	Support, Cord
15	3-C	45A11371W01	Lever, SW.
16	4-A	36A11347W01	Knob, Push
19		03T11377W01	Screw, Lever Eject (M3×3.7)
21		03S71031F11	Screw, Bind (M3×10)
24	2-C	14S94461F47	Insulator, Cover CU
25	3-C	03S44205G16	Screw, Countersink (M3×6)
26		41A45559F05	Spring, Eject
27	4-C	14A13052W01	Insulator, Cover
31		03D40121T17	Screw, W/Double Washer (M3×8)
32	3-E	29C41045P06	Lug, Board-In 50mm
35	5-D	07A12980W01	Spacer, P.C.Board
36		03S71031F02	Screw, Bind (M2.6×8)
37	3-B	41T11376W01	Spring, Cassette
38		36A11350W02	Knob, Volume
47	4-D	29C41045P02	Lug, Warp Alound
49		75T11325W01	Trannleg Assy.
50		03S44205G82	Screw, Bind (M4×10)
51	5-B	15B21455W02	Cover, Cassette Assy.
52	5-B	15B21456W01	Cover, Cassette Assy.
53	2-B	81T15108W01	Cassette, Deck FP77E010
54	2-D	81T15109W01	Cassette, Deck FP87E010
55	3-E	09T51410F01	Holder, Fuse
56	2-D	09T47688F01	Connector, Wire Joint
57	2-D	03S40036U01	Screw, W/Washer (M4×8)
58		03S71252F05	Screw, Pan (M3×10)
59		04A66026F04	Washer, Flat (M3.2)
60		02S40000G10	Nut, Hex (M7)
61	1-F	75S92415F11	Cushoin, Rubber
62	2-C	75S62361F43	Cushion, Rubber
63	3-B	41A22359W01	Spring, Holder Shield
64	3-C	36C11384W01	Assy., Knob Logic
65		03S40036U04	Screw, W/Washer (M3×6)

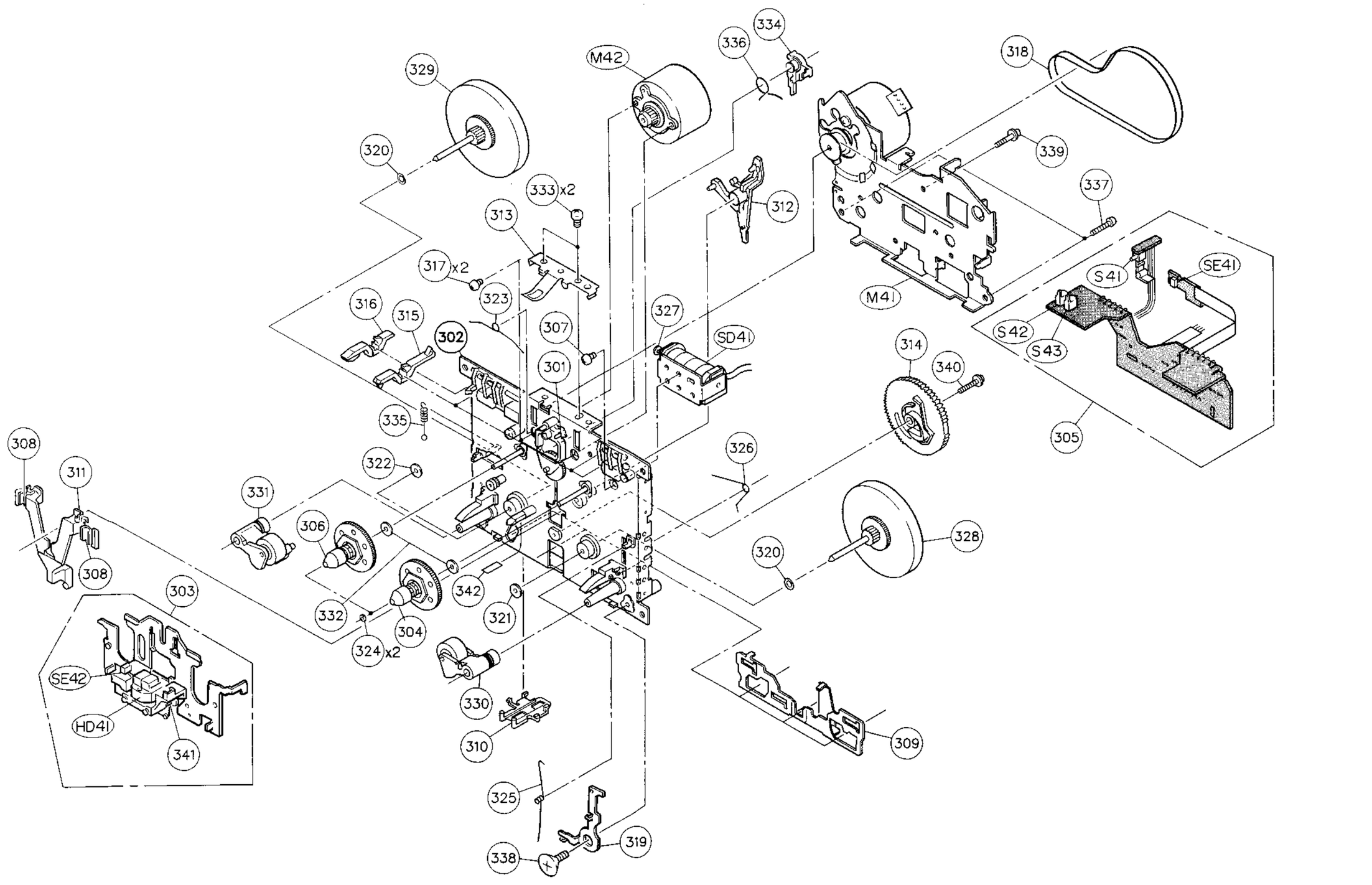
Symbol No.	Index	Part No.	Description

○ : With Safety Regulations Version (AD) △ : Without Safety Regulation Version (EK)

Exploded View (Cabinet)



Exploded View (A-Deck)



Mechanism Assembly Parts List (A - Deck Mech.)

NOTE : The parts without part list are not supplied.

Symbol No.	Index	Part No.	Description
301	3-D	F517-047	Idler Block
303	4-B	F513-469	Plate Head Block
304	4-C	F623-037	Reel Base Block
305	3-F	F567-217	Control P.C.Board Block
306	4-C	F623-127	Reel Base Block
307	3-D	FG114-15	Screw, Pan (M2.6×4)
308		FF16N-13	Rubber, Brake
309	5-F	FC47B-15	Plate, Slide
310	5-C	FD31Y-41	Holder, Lead
311	3-A	FD36H-12	Lever, Hold (B)
312	2-E	FD38M-22	Arm, Play (F)
313	2-C	FC40N-32	Spring, Cassette Holder
314	3-F	FD39C-52	Gear, Cam (G)
315	3-C	FD39S-21	Lever, Cr02 Detector
316	3-C	FD38T-12	Lever, PACK Detector
317	2-C	FG114-20	Screw, Pan (M2.6×6)
318	1-F	FF16M-11	Belt, Main
319		FC39M-63	Arm, EJECT Prevention (R)
320		FJ111-30	Washer, Polyslider (M2.6)
321	4-C	FJ141-11	Washer, Oil (M2.6)
322	3-C	FJ141-14	Washer, Oil (M2.6)
323	3-C	FK22E-13	Spring, Hold
324	4-C	FJ111-17	Washer, Polyslider (M1.7)
325	5-C	FK22V-15	Spring, EJECT Prevention (R)
326	3-E	FK25T-13	Spring, Slide
327	3-D	PL366-11	Plunger
328	4-F	FR18M-41	Assy., Flywheel
329	1-C	FR19T-21	Assy., Flywheel
330	5-C	FR20L-21	Assy., Pinchroller
331	3-B	FR20M-21	Assy., Pinchroller
332	4-C	UJ12V-11	Washer, Polyslider (M2.1)
333	2-D	KG194-11	Screw, Pan (M3×5)
334	1-E	FD35N-12	Arm, Direction
335	3-C	FK22N-12	Spring, Turn
336	1-E	FK25U-13	Spring, Direction
337	2-G	UG12H-14	Screw, Pan (M2.6×8)
338	5-C	UG15S-11	Screw, special (M3×4)
339		UG17H-11	Screw, W/Washer (M2.6×23.5)
340	3-F	UG17L-11	Screw, W/Washer (M2×15)
341	5-B	F769-016	Housing, Head Block
342	4-C	UT11R-11	Plate, Reflector

Symbol No.	Index	Part No.	Description
Miscellaneous			
HD41	5-A	FU18L-11	Head
M41	2-F	F525-252	Main Motor Block
M42	1-D	F564-258	Reel Motor Block
S41	2-G	UE16D-12	SW., Leaf (DIR)
S42	3-F	UE16E-11	SW., Push (HALF)
S43	3-F	UE16E-11	SW., Push (Cr02)
SD41	3-E	F756-252	Solenoid Block
SE41	2-G	AZ15S-00	Sensor, Reel
SE42	4-A	AZ13P-00	Sensor, Leader Tape

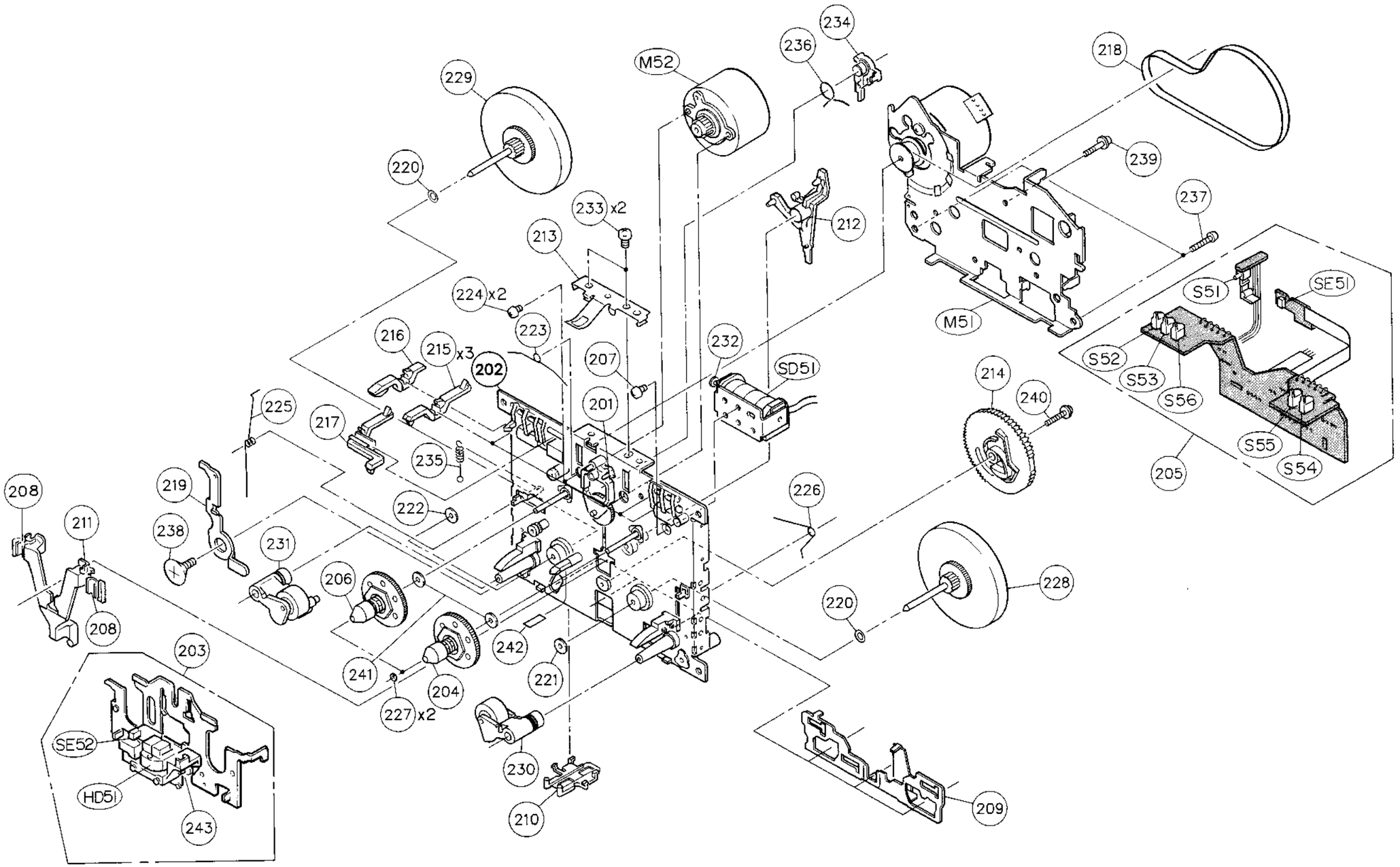
Mechanism Assembly Parts List (B - Deck Mech.)

NOTE : The parts without part list are not supplied.

Symbol No.	Index	Part No.	Description
201	3-D	F517-047	Idler Block
203	4-B	F513-468	Plate Head Block
204	4-C	F623-037	Reel Base Block
205	3-F	F567-217	Control P.C.Board Block
206	4-B	F623-127	Reel Base Block
207	3-D	FG114-15	Screw, Pan (M2.6×4)
208		FF16N-13	Rubber, Brake
209	5-E	FC47B-15	Plate, Slide
210	5-C	FD31Y-41	Holder, Lead
211	3-A	FD36H-12	Lever, Hold (B)
212	2-E	FD38M-22	Arm, Play (F)
213	2-C	FC40N-32	Spring, Cassette Holder
214	3-F	FD39C-52	Gear, Cam (G)
215	3-C	FD38S-21	Lever, REC Detector
216	2-C	FD38T-12	Lever, PACK Detector
217	3-B	FD38U-12	Lever, METAL Detector
218	1-F	FF16M-11	Belt, Main
219	3-B	FC39L-63	Arm. EJECT Prevention (L)
220		FJ111-30	Washer, Polyslider (M2.6)
221	4-C	FJ141-11	Washer, Oil (M2.6)
222	3-C	FJ141-14	Washer, Oil (M2.6)
223	2-C	FK22E-13	Spring, Hold
224	2-C	FG114-20	Screw, Pan (M2.6×6)
225	3-B	FK22P-16	Spring, EJECT Prevention (L)
226	3-E	FK25T-13	Spring, Slide
227	4-C	FJ111-17	Washer, Polyslider (M1.7)
228	4-F	FR18M-41	Assy., Flywheel
229	1-C	FR19T-21	Assy., Flywheel
230	4-C	FR20L-21	Assy., Pinchroller
231	3-B	FR20M-21	Assy., Pinchroller
232	3-D	PL366-11	Plunger
233	2-D	KG194-11	Screw, Pan (M3×5)
234	1-E	FD35N-12	Arm, Direction
235	3-C	FK22N-12	Spring, Turn
236	1-E	FK25U-13	Spring, Direction
237	2-F	UG12H-14	Screw, Pan (M2.6×8)
238	3-B	UG15S-11	Screw, Special (M3×4)
239	2-F	UG17H-11	Screw, W/Washer (M2.6×23.5)
240	3-F	UG17L-11	Screw, W/Washer (M2×15)
241	4-B	UJ12V-11	Washer, Polyslider (M2.1)
242	4-C	UT11R-11	Plate, Reflector
243	5-B	F769-016	Housing, Head Block

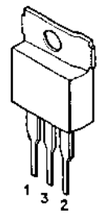
Symbol No.	Index	Part No.	Description
			Miscellaneous
HD51	5-A	FU18D-11	Head
M51	2-E	F525-252	Main Motor Block
M52	1-D	F564-258	Reel Motor Block
S51	2-F	UE16D-12	SW., Leaf (DIR)
S52	3-F	UE16E-11	SW., Push (HALF)
S53	3-F	UE16E-11	SW., Push (FWD)
S54	3-F	UE16E-11	SW., Push (REV)
S55	3-G	UE16E-11	SW., Push (Cr02)
S56	3-G	UE16E-11	SW., Push (METAL)
SD51	3-E	F765-252	Solenoid Block
SE51	2-G	AZ15S-00	Sensor, Reel
SE52	4-A	AZ13P-00	Sensor, Leader Tape

Exploded View (B-Deck)

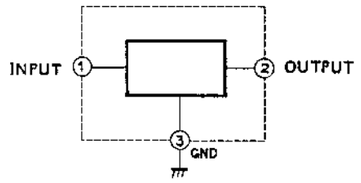


Semi - Conductor Lead Identifications

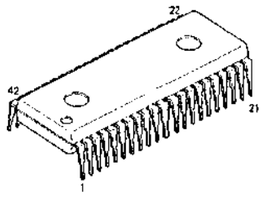
µPC7805H : IC1001

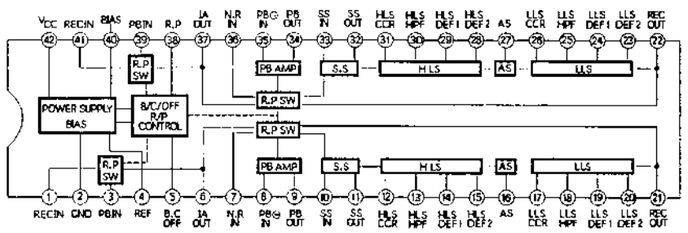


1: INPUT
2: OUTPUT
3: GND

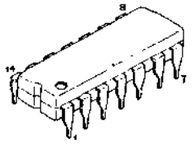


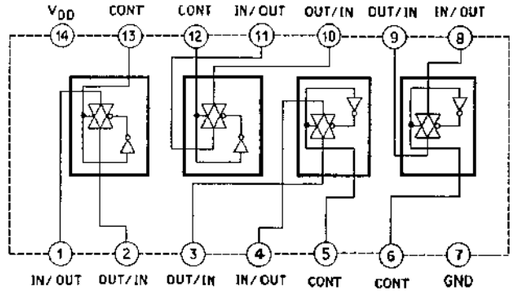
HA12088ANT : IC3001



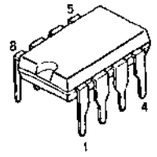


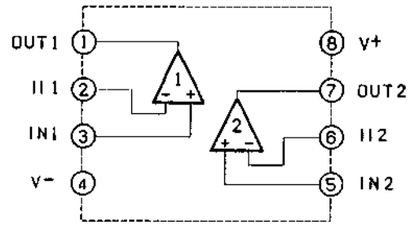
TC4066BP : IC4001, 4002



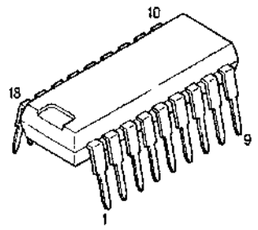


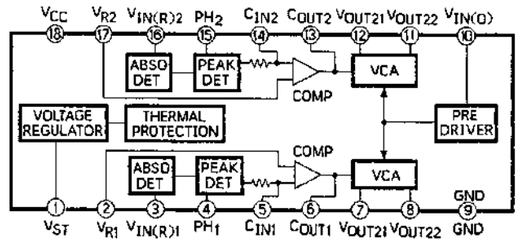
M5238P : IC5001



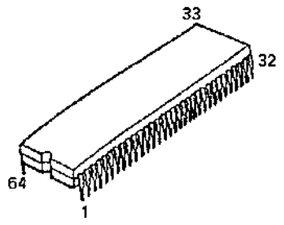


µP1297CA : IC5051



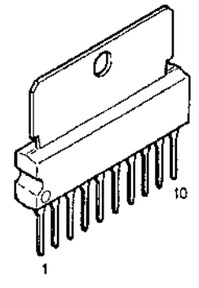


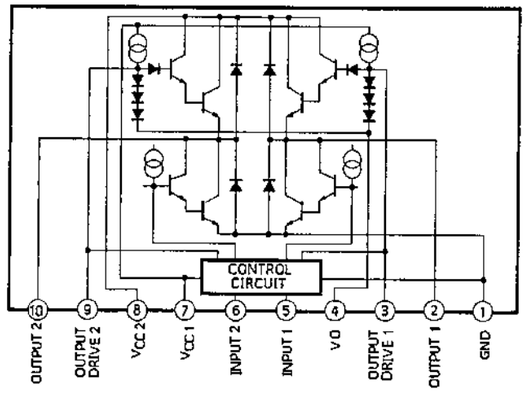
96291F01 : IC6001



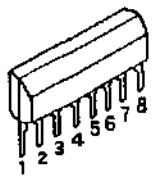
PIN NO.	CORD ADDRESS		PIN NO.	CORD ADDRESS		PIN NO.	CORD ADDRESS	
1	VAPEF		23	B-RM1	O	45	K00	I
2	VASS		24	B-RM2	O	46	K01	I
3	B-RPC	I/O	25	B-CPM	O	47	K02	I
4	B-MMS	I/O	26	B-SOL	O	48	K03	I
5	B-L.TA	I/O	27	REC BIAS	O	49	RESET	I
6	B-R.SE	I/O	28	REC MUTE	O	50	X-IN	I
7	A-RPC	I/O	29	PB	O	51	X-OUT	O
8	A-MMS	I/O	30	REC	O	52	HOLD	I/O
9	A-L.TA	I/O	31	TEST	I	53	R80	I/O
10	A-R.SE	I/O	32	V_{SS}		54	R81	I/O
11	B-NOR	I/O	33	P20	O	55	S-I	I/O
12	B-CrO_2	I/O	34	P21	O	56	S-O	I/O
13	B-METAL	I/O	35	P22	O	57	R90	I/O
14	A-CrO_2	I/O	36	P23	O	58	R91	I/O
15	B-DUBx2	I/O	37	P30	O	59	R92	I/O
16	A-DUBx1	I/O	38	P31	O	60	A-RM1	I/O
17	DUB ON/OFF	I/O	39	P32	O	61	A-RM2	I/O
18	OUTPUT MUTE	O	40	P33	O	62	A-CPM	I/O
19	MUSIC SEARCH	I/O	41	PB0	I/O	63	A-SOL	I/O
20	POWER OFF	I/O	42	PB1	I/O	64	V_{DD}	I/O
21	DECK A/B	I/O	43	PB2	I/O			
22	POWER ON/OFF	I/O	44	PB3	I/O			

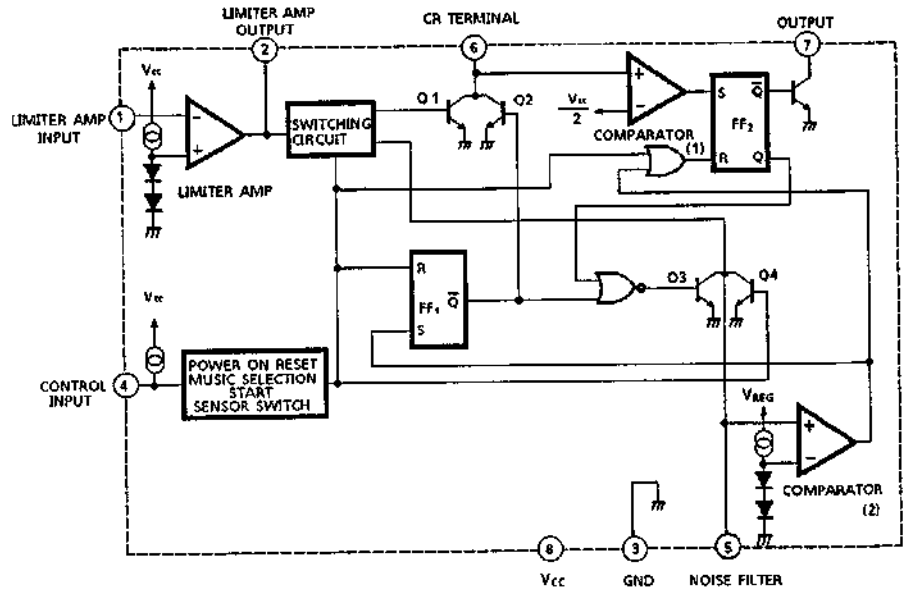
BA6229 : IC6071, 6072





M51143AL : IC6101





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