

Service Manual

QUARTZ Synthesizer MW/LW/FM
Stereo Radio with Double Cassette
Tape Deck and Record Player



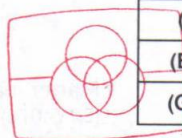
Stereo Music System
SG-HM30L

Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	(K)
(GN)	Oceania	(K)



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SPECIFICATIONS

■ AMPLIFIER SECTION

MPO	2 × 10 W (THD 10%, 4 Ω)
Input sensitivity and impedance	
CD	250 mV/18 kΩ
AUX	150 mV/12 kΩ
Graphic equalizer frequency	
	100 Hz, 330 Hz, 1 kHz, 3.3 kHz, 10 kHz, ±10 dB
Load impedance	4 Ω~16 Ω
Loudness control (volume at -30 dB)	100 Hz, +10 dB

■ FM TUNER SECTION

Frequency range	87.50~108.00 MHz (0.05 MHz steps)
Sensitivity	25.2 dBf, (5 μV, IHF'58)
S/N 26 dB	3.8 μV (40 kHz mod., 75 Ω)
Total harmonic distortion	
1 kHz MONO	0.3%
STEREO	0.5%
S/N	
MONO	60 dB (65 dB, IHF)
Image rejection at 98 MHz	35 dB
Stereo separation	
1 kHz	35 dB
Antenna terminals	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	
MW	522~1611 kHz (9 kHz steps)
	530~1620 kHz (10 kHz steps)
LW	155~353 kHz (9 kHz steps)
	153~351 kHz (-2 kHz shift)
Sensitivity (for 50 mW)	
MW	200 μV/m (999 kHz)
LW	500 μV/m (254 kHz)

■ CASSETTE DECK SECTION

Deck system	Full auto stop double cassette system
Track system	4-track, 2-channel
Heads	
(tape deck 1) Play	Solid permalloy head
(tape deck 2) Rec/play	Solid permalloy head
Erasing	Double-gap ferrite head
Motors	DC servo motor
Recording system	AC bias
Erasing system	AC erase
Tape speed	4.8 cm/sec. (1-7/8 ips)
Frequency response	
NORMAL	50 Hz~12 kHz (DIN)
S/N	50 dB (A-WTD)
Wow and flutter	0.15% (WRMS)

■ PHONO SECTION

Player system	Belt Drive Automatic Turntable
Phono motor	DC servo motor
Turntable size	28 cm (11")
Turntable speeds	33-1/3 rpm, 45 rpm
Cartridge type	Ceramic
Stylus	Sapphire
	(Part No. EPS-41ST)
Stylus pressure	5.5 g

■ GENERAL

Power consumption	51 W
Power supply	
For continental Europe	AC 50Hz/60Hz, 220V
For Great Britain and Oceania	AC 50Hz/60Hz, 240V
Dimensions (W × H × D)	360 × 323 × 370 mm
	(14-3/16" × 12-23/32" × 14-9/16")
Weight	5.5 kg (12.1 lb.)

Note: Specifications are subject to change without notice.
Weight and dimensions are approximate.

Panasonic®

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Central P.O. Box 288, Osaka 530-91, Japan

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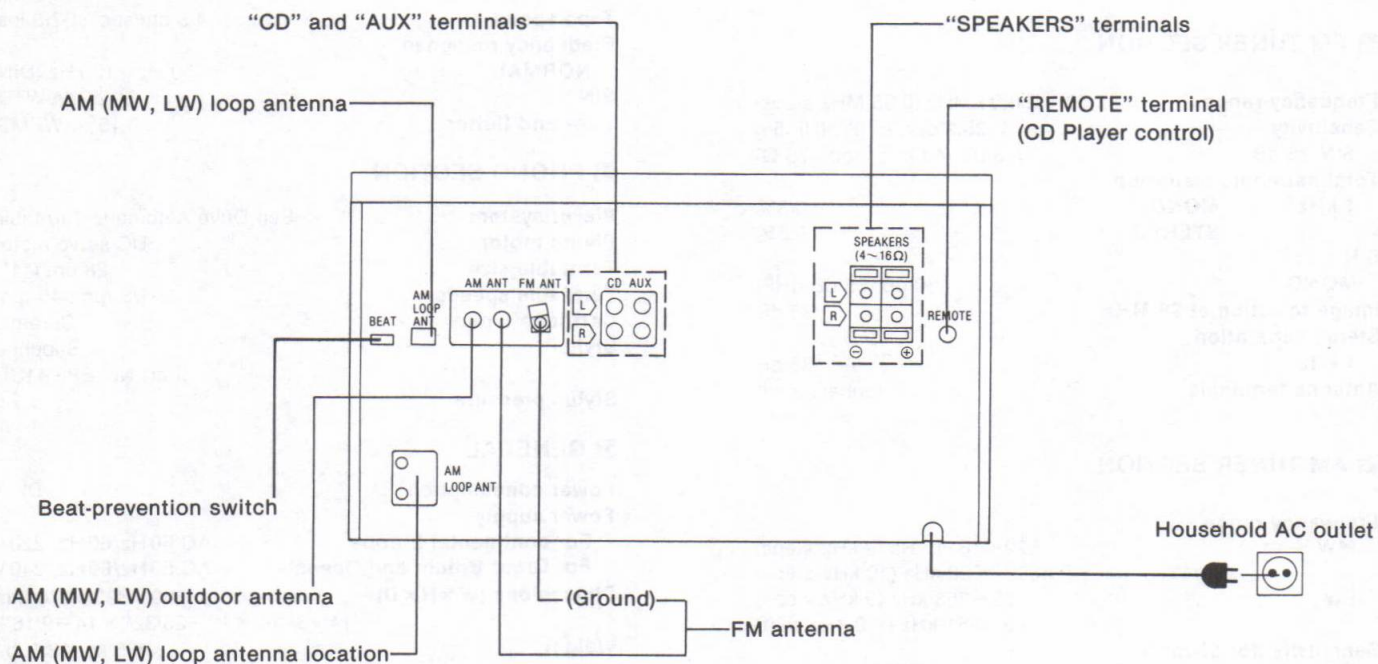
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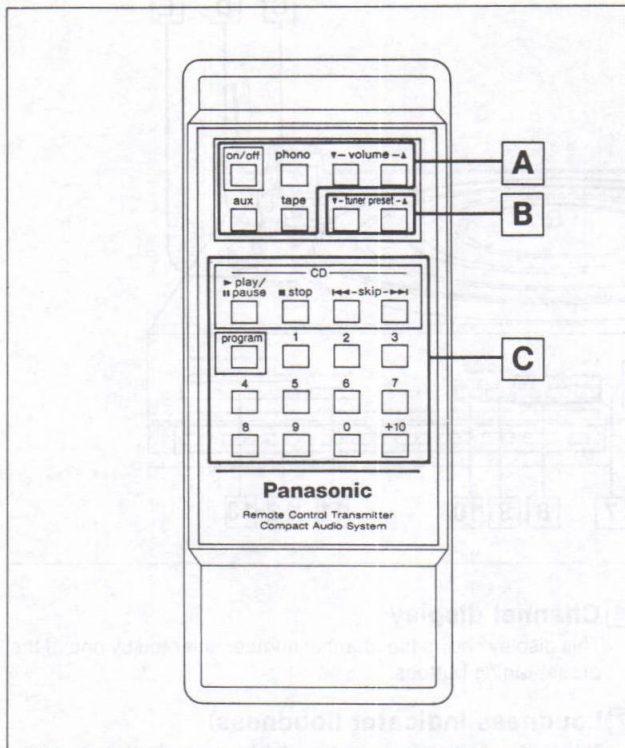
ACCESSORIES

• Dust cover and hinges..... 1 and 2 (SYE1130), (SBH9383)	• Platter mat..... 1 (SJY4076)	• FM indoor antenna..... 1 (SSA269)
• AM loop antenna..... 1 (SPB1163T)	• AM antenna holder..... 1 (SMA233-1M)	• Screws 2 (XTN3+10AFZ)
• Remote-control transmitter..... 1 (EUR64597)	• Batteries 2 (UM-3NEP-2P)	• 45-rpm adaptor..... 1 (SJY5018-1)

CONNECTIONS



REMOTE-CONTROL OPERATION



For detailed information concerning operation steps, etc., please refer to the appropriate page for each unit and the respective operation instructions. For this system, you can listen to tapes or compact discs, etc., by operating the remote-control transmitter without using the input selectors.

A Amplifier controls

on/off

Press this button to switch the unit ON or to the stand-by condition.

Note that there is no need to press this button if the unit's power is ON. (If it is pressed, the unit will be switched to the stand-by mode.)

▼-volume-▲

For adjustment of the volume level.

▲: To increase the volume level.

▼: To reduce the volume level.

phono, tape, aux

These buttons are used to select the program source (phono, tape, etc.)

phono: Press to listen to phono discs.

tape: Press to listen to tapes.

aux: Press to listen to sound from equipment connected to the "AUX" terminals of this unit.

B Tuner controls

▼-tuner preset-▲

To select a preset channel.

▲: Press to change to a higher channel.

▼: Press to change to a lower channel.

(If either button is pressed and held, the channel will change continuously.)

C Compact-disc controls

For a compact disc player manufactured by our company with a remote-control terminal. (Contact your dealer for details.)

▶ play/||| pause

Press this button to start disc play.

The pause mode will be activated when this button is pressed during play.

Note: The pause function may not be usable with some types of compact-disc players.

■ stop

Press this button to stop disc play.

Note:

Depending upon the compact disc player used, presettings may be erased when this button is pressed.

◀◀-skip▶▶

Press one of these buttons to select the desired track.

The search mode will be activated when this button is pressed and held.

◀◀: for a prior track

▶▶: for a track ahead

Note: The search function may not be usable with some types of compact-disc players.

program

Pressing this button initiates the programmed play mode. You can then enter specific tracks using the numeric button (1-0, +10.)

1-0, +10

To select the track numbers.

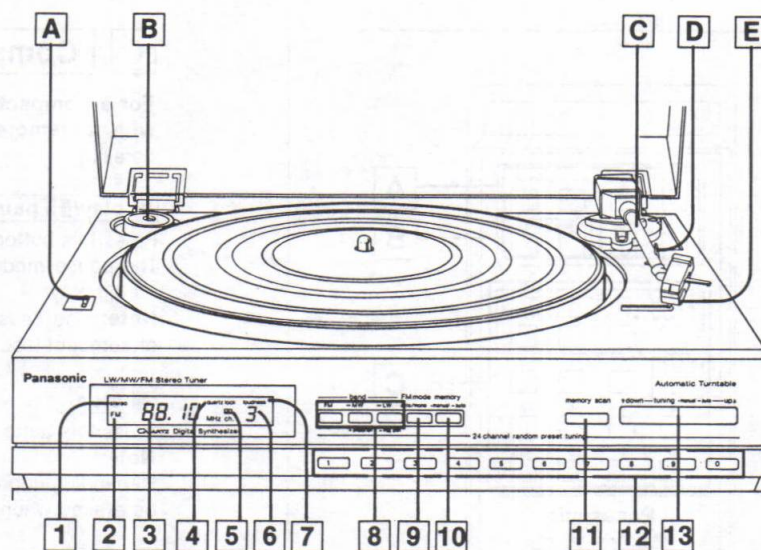
- **When the track number is specified after pressing the program button,** the selected track number will be programmed. (To play the selected track, press the play/pause button.)
- The play begins automatically from the selected track **when a track is selected while the unit is in the stop mode.**

To select the specific track number

- **Tracks 1-9:** Press the appropriate numeric button 1-9 directly.
- **Tracks 10 and up:** First press +10, then 1-0. (Press +10 twice and 0 for 20, +10 three times and 0 for 30, and so on.)

FRONT PANEL CONTROLS AND FUNCTIONS

The indication AM used here includes both MW and LW.



Turntable section

A Speed selector (SPEED)

This selector is used to set the turntable speed to agree with the speed of the phono disc to be played.

B 45-rpm disc adaptor

This adaptor should be used when playing a disc with a large center hole.

C Tonearm

D Arm rest

E Cartridge

Tuner section

1 FM stereo indicator (stereo)

This indicator automatically illuminates when an FM stereo broadcast is being received. It will not illuminate if the FM mode selector is set to the monaural mode.

2 Band indicator (FM, MW, LW)

This indicator indicates the band selected by using the band selector.

3 Digital frequency/input display

This display shows the sound source selected by pressing one of the input selectors. If the "tuner" input selector is pressed, there will be a change to the frequency after the source is indicated.

4 Quartz-lock indicator (quartz lock)

This indicator illuminates when the tuner is precisely tuned to a broadcast station.

5 Memory indicator (M)

This indicator illuminates when the memory button is pressed.

6 Channel display

This display shows the channel number selected by one of the preset-tuning buttons.

7 Loudness indicator (loudness)

This indicator illuminates when the loudness button is pressed.

8 Band selectors (band)

These selectors are used to select the band.

allocation: When the MW button is pressed for about 3 seconds, the MW frequency step will change to 10 kHz per step. (This unit is set to 9 kHz before shipment.) In order to return to the original frequency indication, press this button for about 3 seconds again.

freq shift: When the LW button is pressed for about 3 seconds during reception of an LW broadcast, the LW frequency will decrease by 2 kHz. In order to return to the original frequency indication, press this button for about 3 seconds again.

9 FM mode selector (FM mode)

This unit automatically switches to the stereo mode when an FM stereo broadcast is received. This selector is used to select the mode (stereo or monaural) of FM broadcast signals.

10 Memory button (memory)

This button can be used when presetting broadcast station frequencies to the memory.

11 Memory scan button (memory scan)

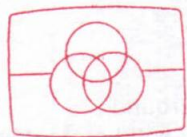
This button can be used to locate a desired broadcast station; each broadcast station is selected for about four seconds.

12 Preset-tuning buttons (1-0) (24 channel random preset tuning)

These buttons are used to preset broadcast frequencies into the memory of this unit, and are also pressed to recall the desired preset stations.

13 Tuning buttons (tuning)

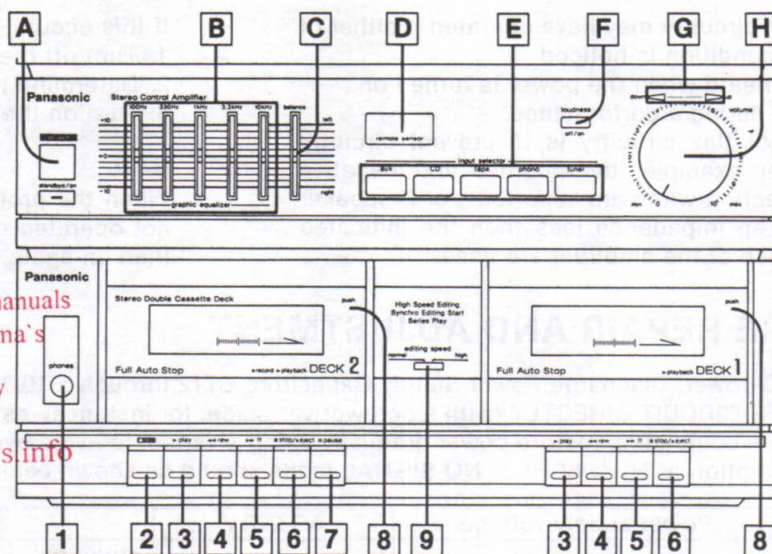
These buttons are used for tuning to the desired broadcast station.



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Amplifier section

A Power "standby ϕ /on" switch (power "standby ϕ /on")

This switch switches on and off the secondary circuit power only. The unit is in the stand-by condition when this switch is set to the "standby ϕ " position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

B Equalizer controls (graphic equalizer)

These controls are for compensation of tonal quality. By sliding the controls at each of the indicated frequencies in the "+" direction, the tonal quality is increased, and by sliding them in the "-" direction, the tonal quality is decreased.

C Balance control (balance)

This control can be used to adjust the balance of sound heard from the left and right speaker systems.

D Remote-control signal receptor (remote sensor)

Receives the signals from the remote-control transmitter.

E Input selectors (input selector)

These selectors are used to select the sound source to be heard, such as a phono disc, radio broadcast, etc.
(AUX/CD/TAPE/PHONO/TUNER)

F Loudness button (loudness)

This button is used when listening to music at a low volume level. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is in this position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

G Volume-level adjustment indicators

One of these indicators flashes continually to indicate when the sound volume level is being adjusted by using the volume controls on the remote-control transmitter.

up ($\triangleright$): When increasing the volume level.

down ($\triangleleft$): When reducing the volume level.

H Volume control (volume)

Cassette deck section

1 Headphones jack (phones)

2 Record button ($\bigcirc$ rec)

This button is used when making a recording (tape deck 2 only).

3 Playback button ($\blacktriangleright$ play)

4 Rewind button ($\blacktriangleleft\blacktriangleleft$ rew)

5 Fast-forward button ($\blacktriangleright\blacktriangleright$ ff)

6 Stop/eject button ($\blacksquare$ stop/ $\blacktriangle$ eject)

This button is used to open the cassette holder, and to stop tape movement.

7 Pause button ($\blacksquare\blacksquare$ pause)

This button is used to temporarily stop the tape playback or recording of tape deck 2 only.

8 Cassette holder

9 Edit-recording tape-speed selector (editing speed)

This selector is used to select the recording speed when a tape-to-tape recording is made.

PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following condition is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlined below.

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again.

Note:

When the protection circuitry functions, the unit will not operated unless the power is first turned off and then on again.

BEFORE REPAIR AND ADJUSTMENT

Disconnect AC power, Discharge Power Supply Capacitors C712 through a 10 Ω , 5W resistor to ground.

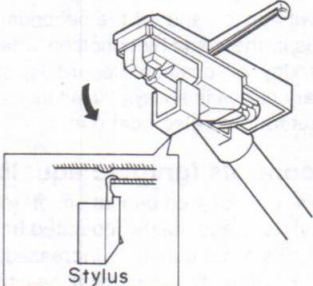
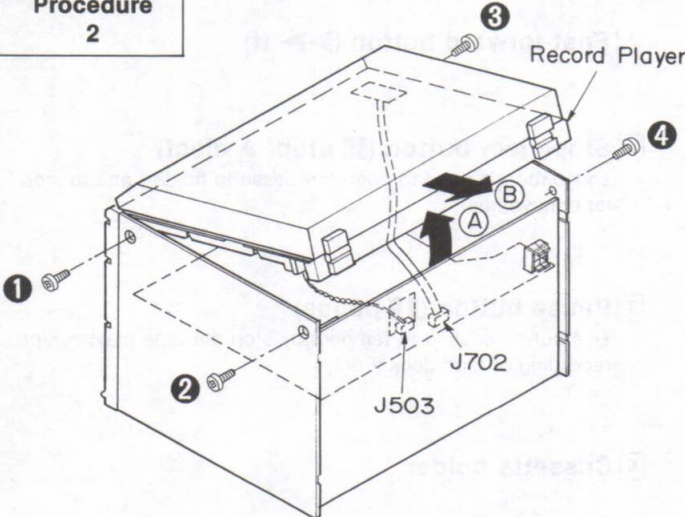
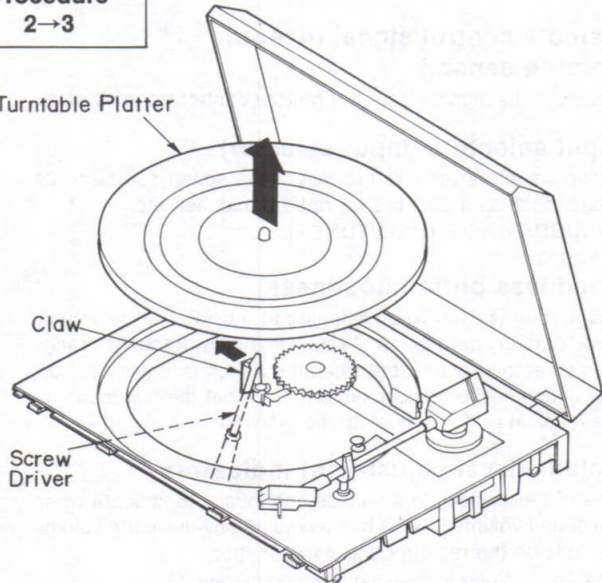
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

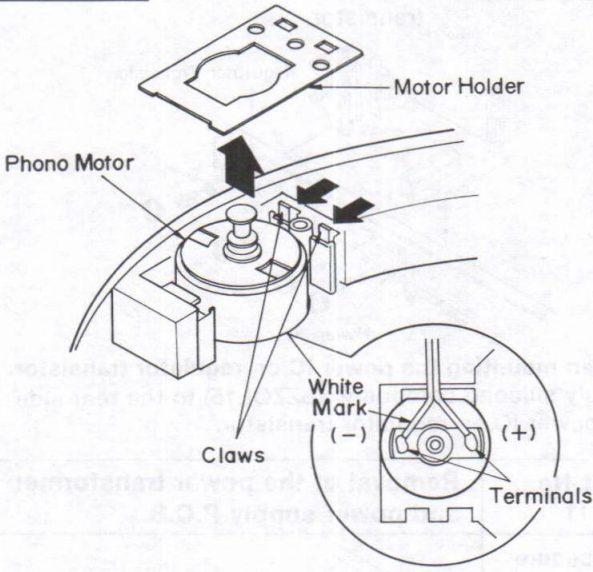
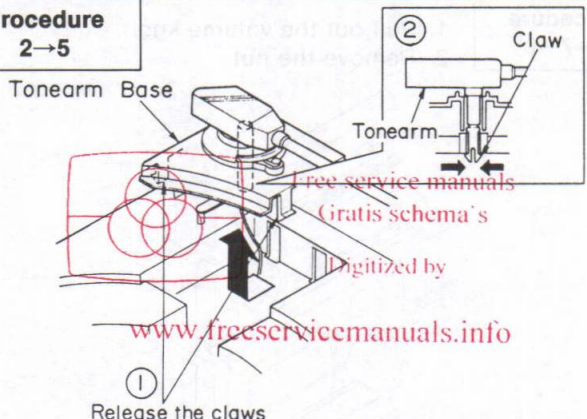
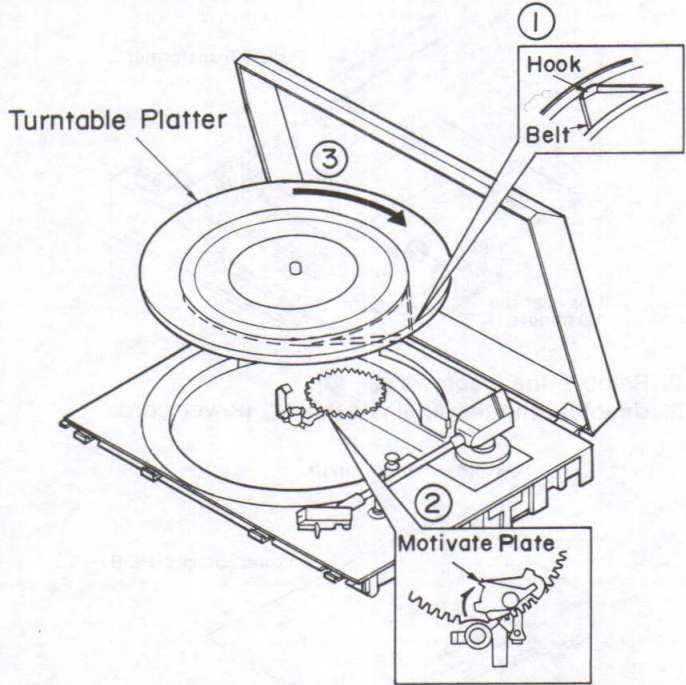
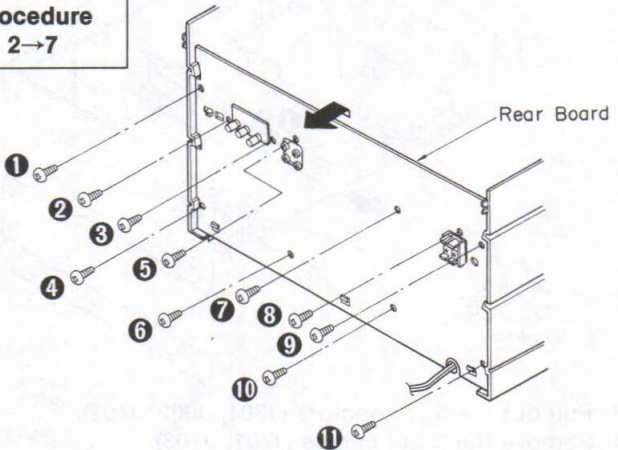
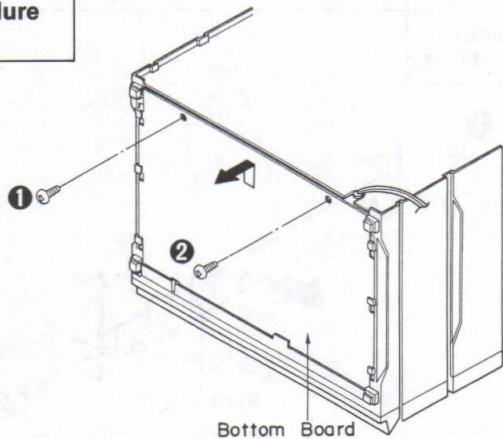
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

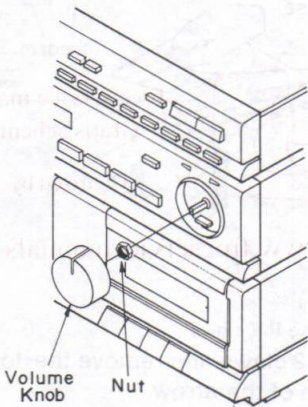
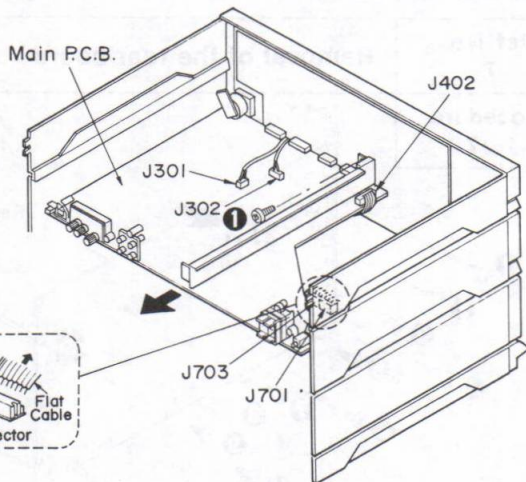
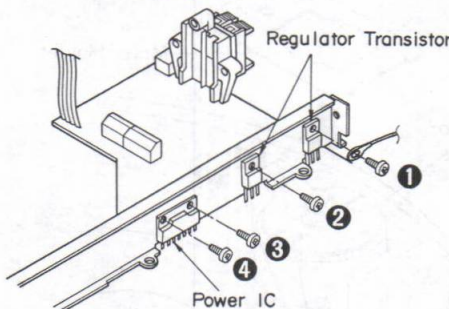
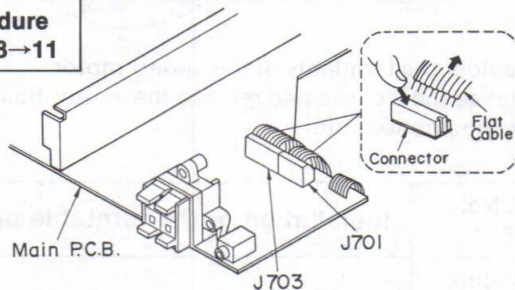
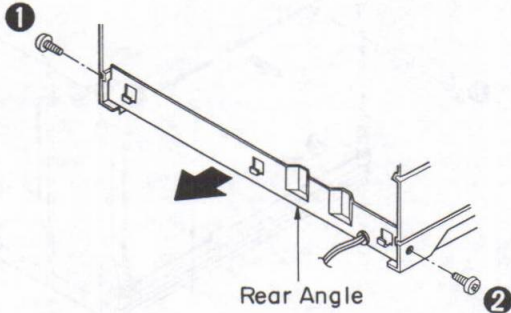
Current consumption at 50Hz/60Hz in NO SIGNAL mode should be shown below with respect to supply 220V/240V.

Power supply voltage	AC 220V	AC 240V	
Consumed current 50Hz	20~60mA	stand by	20~70mA
		power on	60~140mA
Consumed current 60Hz	100~160mA	—	

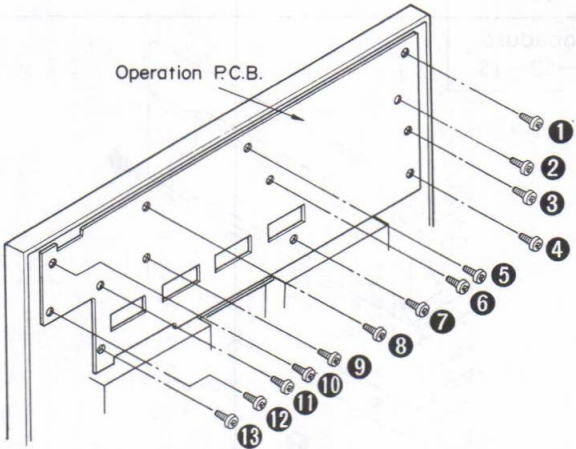
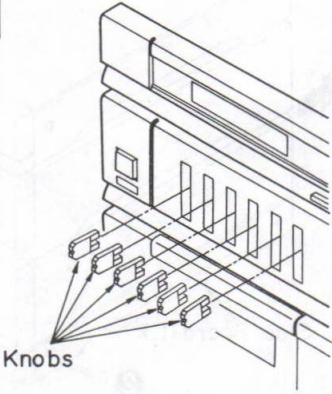
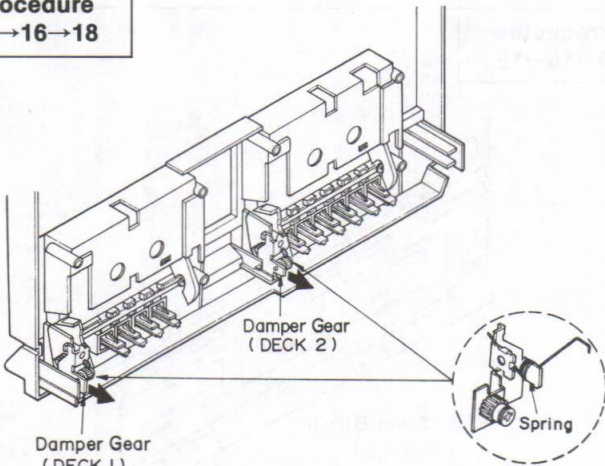
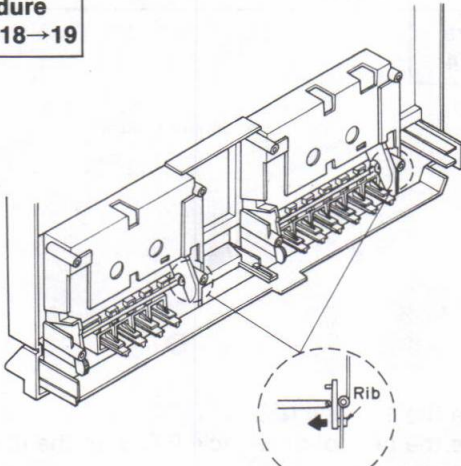
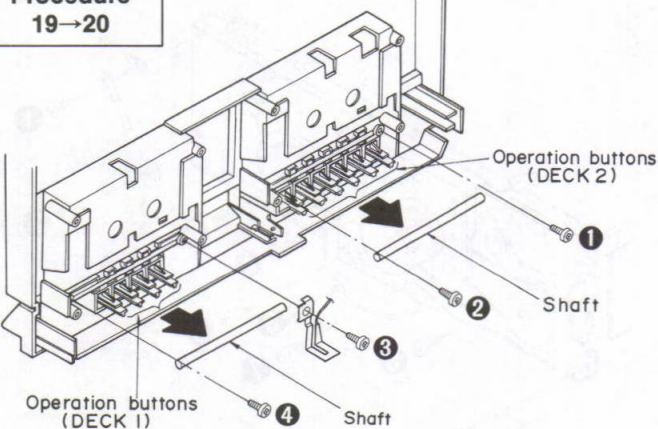
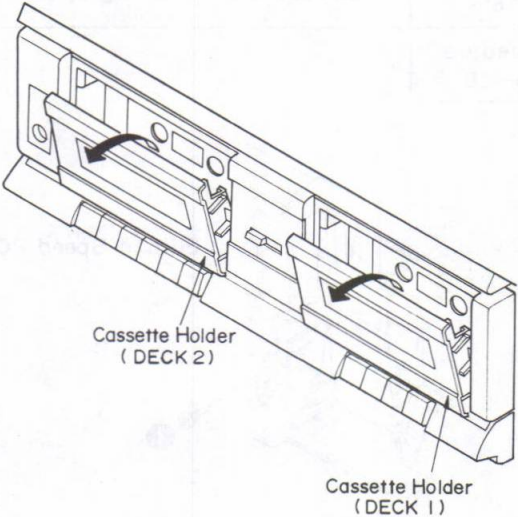
DISASSEMBLY INSTRUCTIONS

Ref. No. 1	Removal of the stylus	 Stylus	
Procedure 1	• Remove the stylus in the direction of the arrow.		
Ref. No. 2	Removal of the record player	Ref. No. 3	Removal of the turntable platter
Procedure 2	 1. Remove the 4 screws (①~④). 2. Lift the record player in the direction of the arrow ① and remove the 2 connector (J503, J702). 3. Remove the record player in the direction of arrow ②.	Procedure 2→3	 1. Release the claw by screwdriver from under side. 2. Lift the turntable platter.

Ref. No. 4	Removal of the phono motor	Ref. No. 5	Removal of the tonearm
Procedure 2→3→4	 1. Unsolder the terminals of the phono motor. 2. Release the 2 claws and remove the motor holder. 3. Lift the phono motor.	Procedure 2→5	 1. Release the 2 claws and remove the tonearm base in the direction of the arrow. 2. Release the claw and lift the tonearm.
Ref. No. 6	Installation of the turntable platter	Ref. No. 7	Removal of the rear board
Procedure 2→3→6	 1. Fix the belt to the hook. 2. Set the motivate plate in the direction of the arrow. 3. Install the turntable platter and turn the turntable platter in the direction of the arrow.	Procedure 2→7	 1. Remove the 11 screws (①~⑪). 2. Remove the rear board in the direction of the arrow.
Ref. No. 8	Removal of the bottom board	Procedure 8	 1. Remove the 2 screws (①, ②). 2. Remove the bottom board in the direction of the arrow.

Ref. No. 9	Removal of the main P.C.B.	Ref. No. 10	Removal of the power IC and regulator transistor
Procedure 2→7→9	1. Pull out the volume knob. 2. Remove the nut.	Procedure 2→7→9→10	1. Remove the 4 screws (❶~❹). 2. Unsolder the power or regulator transistor.
 Volume Knob Nut  Main P.C.B. J402 J301 J302 J703 J701 ❶ Flat Cable Connector 3. Pull out the 3 connectors (J301, J302, J402). 4. Remove the 2 flat cables (J701, J703). 5. Remove the 1 screw (❶). 6. Remove the main P.C.B. in the direction of the arrow.		 Regulator Transistor ❶ ❷ ❸ ❹ Power IC •When mounting the power IC or regulator transistor. Apply silicone compound (SZZOL15) to the rear side of power IC or regulator transistor.	
Ref. No. 11	Removal of the power transformer and power supply P.C.B.	Ref. No. 12	Removal of the rear angle
Procedure 2→7→8→11	 Main P.C.B. J701 J703 ❶ ❷ Power Transformer Unsolder the terminals Power Supply P.C.B. 4. Unsolder the terminals of the power transformer.	Procedure 2→7→8→11→12	 ❶ ❷ Rear Angle 1. Remove the 2 screws (❶, ❷). 2. Remove the rear angle in the direction of the arrow.

Ref. No. 13 Procedure 11→12→13	Removal of the side board (L)-(R)	Side board (R) 1 Side Board (L) 2 1. Remove the 1 screw (1). 2. Remove the side board (R) in the direction of the arrow. 3. Remove the 1 screw (2). 4. Remove the side board (L) in the direction of the arrow.	
Ref. No. 14 Procedure 9→13→14	Removal of the headphones jack P.C.B.	Ref. No. 15 Procedure 9→13→15	Removal of the cassette tape deck (DECK 1, DECK 2)
Headphones Jack P.C.B. 1 1. Remove the 1 screw (1). 2. Remove the headphones jack P.C.B. in the direction of the arrow.	Stop/Eject Button (DECK 2) Stop/Eject Button (DECK 1) 1. Push the stop/eject button.	Stop/Eject Button (DECK 2) Stop/Eject Button (DECK 1) 1. Push the stop/eject button.	Claws Editing Speed P.C.B. 1 1. Remove the 1 screw (1). 2. Release the 2 claws.
Ref. No. 16 Procedure 15→16	Removal of the editing speed P.C.B.	Ref. No. 17 Procedure 15→17	Removal of the cassette tape deck (DECK 1, DECK 2)
Claws Editing Speed P.C.B. 1 1. Remove the 1 screw (1). 2. Release the 2 claws.	Claws Editing Speed P.C.B. 1 1. Remove the 1 screw (1). 2. Release the 2 claws.	Stop/Eject Button (DECK 2) Stop/Eject Button (DECK 1) 1. Push the stop/eject button.	Stop/Eject Button (DECK 2) Stop/Eject Button (DECK 1) 1. Push the stop/eject button.

Ref. No. 17 Procedure 15→16→17	Removal of the operation P.C.B.	 Operation P.C.B.	
 Knobs		1. Pull out the 6 knobs. 2. Remove the 13 screws (①~⑬).	
Ref. No. 18 Procedure 15→16→18	Removal of the damper gear (DECK 1, DECK 2)	Ref. No. 19 Procedure 15→16→18→19	Removal of the cassette holder (DECK 1, DECK 2)
 Damper Gear (DECK 2) Damper Gear (DECK 1) Spring		 Rib	
• Pull out the damper gear in the direction of the arrow.		1. Remove the rib in the direction of the arrow.	
Ref. No. 20 Procedure 19→20	Removal of the operation buttons (DECK 1, DECK 2)		
 Operation buttons (DECK 2) ① ② Shaft ③ ④ Shaft Operation buttons (DECK 1)		 Cassette Holder (DECK 2) Cassette Holder (DECK 1)	
1. Remove the 4 screws (①~④). 2. Remove the shaft. 3. Remove the operation buttons.		2. Pull out the cassette holder in the direction of the arrow.	

MEASUREMENTS AND ADJUSTMENTS

• MW/LW/FM section

Control positions and equipment used

- AM and FM signal generator (AM and FM-SG)
- Stereo modulator
- Distortion analyser
- Oscilloscope
- AF Oscillator

- AC and DC electronic voltmeter (EVM)
- Digital frequency counter
- Choke coil (100 μ H)
- Resistor (330k Ω , 1k Ω , 1M Ω)

Note: For T201 (MW-IFT), L203 (MW OSC coil), and L210 (LW OSC coil) they are supplied as adjusted parts. So, do not turn the cores of the parts.

MW-RF ADJUSTMENT

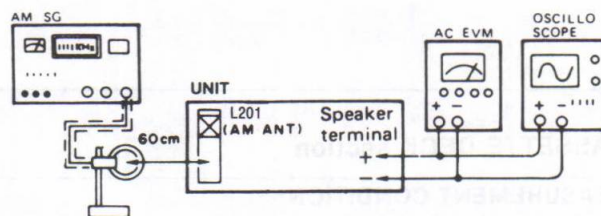
1. Test equipment connection is shown in figure.
2. Set the unit to "MW" position.
3. Place the radio dial and signal generator setting to 612kHz.
4. Adjust L202 for maximum output.
5. Place the radio dial and signal generator setting to 1503kHz.
6. Adjust CT201 for maximum output.
7. Repeat steps 3~6.

Note:

Antenna input level must be as low as possible being free from AGC.

AM SIGNAL GENERATOR CONDITION

Modulation.....30%
Modulation frequency.....400Hz



LW-RF ADJUSTMENT

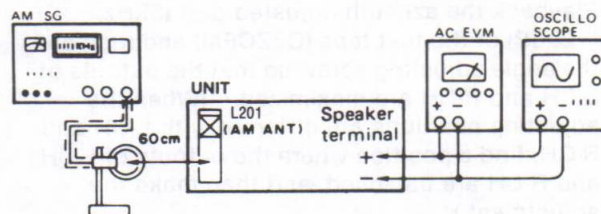
1. Test equipment connection is shown in figure.
2. Set the unit to "LW" position.
3. Place the radio dial and signal generator setting to 155kHz.
4. Adjust L209 for maximum output.
5. Place the radio dial and signal generator setting to 353kHz.
6. Adjust CT202 for maximum output.
7. Repeat steps 3~6.

Note:

Antenna input level must be as low as possible being free from AGC.

AM SIGNAL GENERATOR CONDITION

Modulation.....30%
Modulation frequency.....400Hz



FM MONO DISTORTION ADJUSTMENT

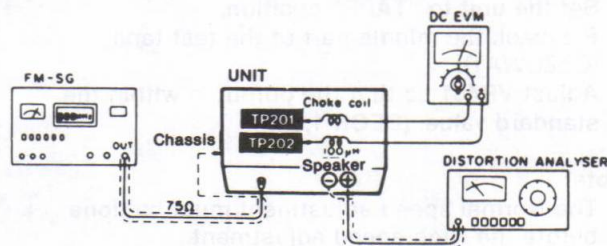
1. Test equipment connection is shown in figure.
2. Set the unit to "FM" position.
3. Place the radio frequency display and signal generator setting to 100.10MHz.
4. Adjust T202 core so that voltage measured in signal mode is 0mV (0 $\pm$ 30mV) in 300mV range.
5. Adjust T203 so that the distortion factor of Lch is minimized.
6. Repeat steps 4 and 5.
7. Make sure that the distortion factors of Lch and Rch are nearly the same with each other to minimum.

Note:

The adjusting screwdriver used should be made of resin.

FM SIGNAL GENERATOR CONDITION

Modulation.....100%
Modulation frequency.....1kHz
Output level.....66dB



MPX VCO ADJUSTMENT

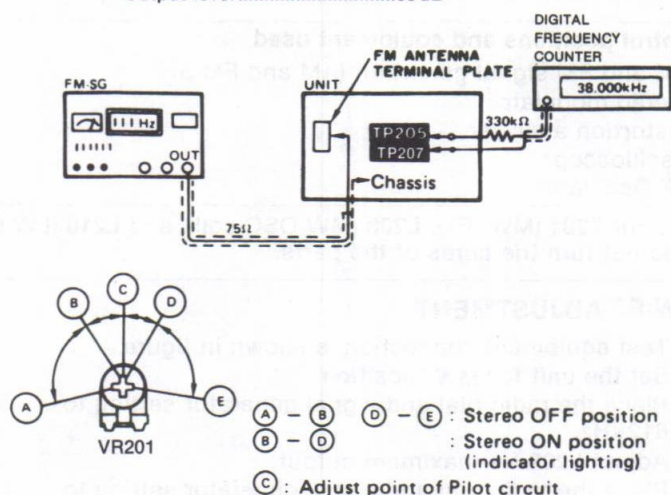
1. Test equipment connection is shown in figure.
2. Set the unit to "auto" position.
3. Place the radio dial and signal generator setting to **100.10 MHz**.
4. Adjust **VR201** for **38 kHz $\pm$ 0.05 kHz** on frequency counter reading.

★USING ALTERNATE SYSTEM

1. Apply stereo signal from generator or receive the stereo broadcast.
2. Adjust **VR201** until stereo indicator lights up. Cement arm of **VR201** as shown in figure.

FM SIGNAL GENERATOR CONDITION

Modulation.....0% (non-modulation)
Output level66 dB

**• CASSETTE DECK section****MEASUREMENT CONDITION:**

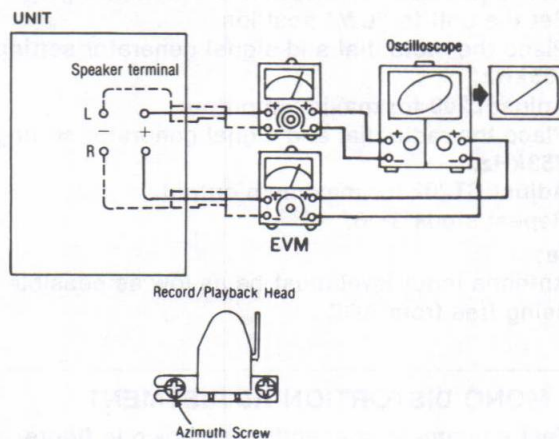
- Make sure heads are clean
- Make sure capstan and pressure roller are clean

TEST TAPE:

- Head azimuth adjustment (8 kHz, -20 dB): QZZCFM
- Tape speed adjustment (3 kHz, -10 dB): QZZCWAT
- Normal reference blank: QZZCRA

HEAD AZIMUTH ADJUSTMENT (DECK 1, 2)

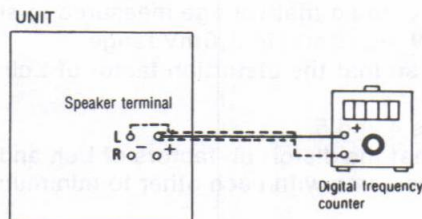
1. Test equipment connection is shown in figure.
2. Playback the azimuth adjusted part (8 kHz, -20 dB) of the test tape (QZZCFM) and regulate the angle adjusting screw so that the outputs of L-CH and R-CH are maximized. (When the adjusting positions are different with L-CH and R-CH, find a position where the outputs of L-CH and R-CH are balanced, and then make the adjustment.)
3. At the same time, draw a lissajous waveform and eliminate phase deflection.
4. After the adjustment, apply screw-lock to the angle adjusting value.

**TAPE SPEED ADJUSTMENT (DECK 1, 2)**

1. Test equipment connection is shown in figure.
2. Set the unit to "TAPE" position.
3. Playback the middle part of the test tape (QZZCWAT).
4. Adjust **VR401** so that the output is within the standard value. (DECK 1, 2)

Note:

The Normal speed adjustment must be done before the High speed adjustment.

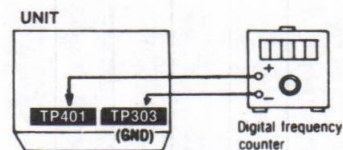


DECK 1 Standard value: 2980~3020 Hz (Normal)
DECK 2 Standard value: 2955~3045 Hz (Normal)

Standard value: 5340~5910 Hz (High)

BIAS OSC FREQUENCY ADJUSTMENT (DECK 2)

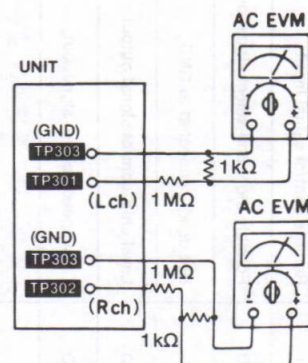
1. Test equipment connection is shown in figure.
2. Set the unit to "TAPE" position.
3. Place cassette deck into REC mode.
4. Adjust **L401** for 74~83kHz (BEAT PROOF: A) [78~89kHz (BEAT PROOF: B)] on frequency counter reading.



RECORDING BIAS ADJUSTMENT (DECK 2)

1. Test equipment connection is shown in figure.
2. Insert the normal tape.
3. Place cassette deck into REC mode.
4. Adjust **VR305** so that the output between **TP301** (L-CH) { **TP302** (R-CH) } and **TP303** (GND) is within the standard value.

DECK 2 Standard value: 10~14.5mV

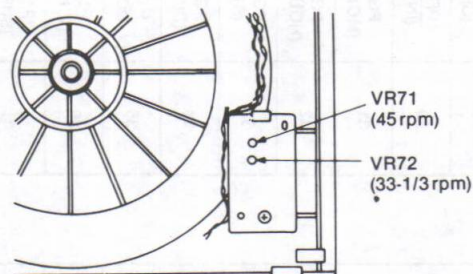


• PLAYER section

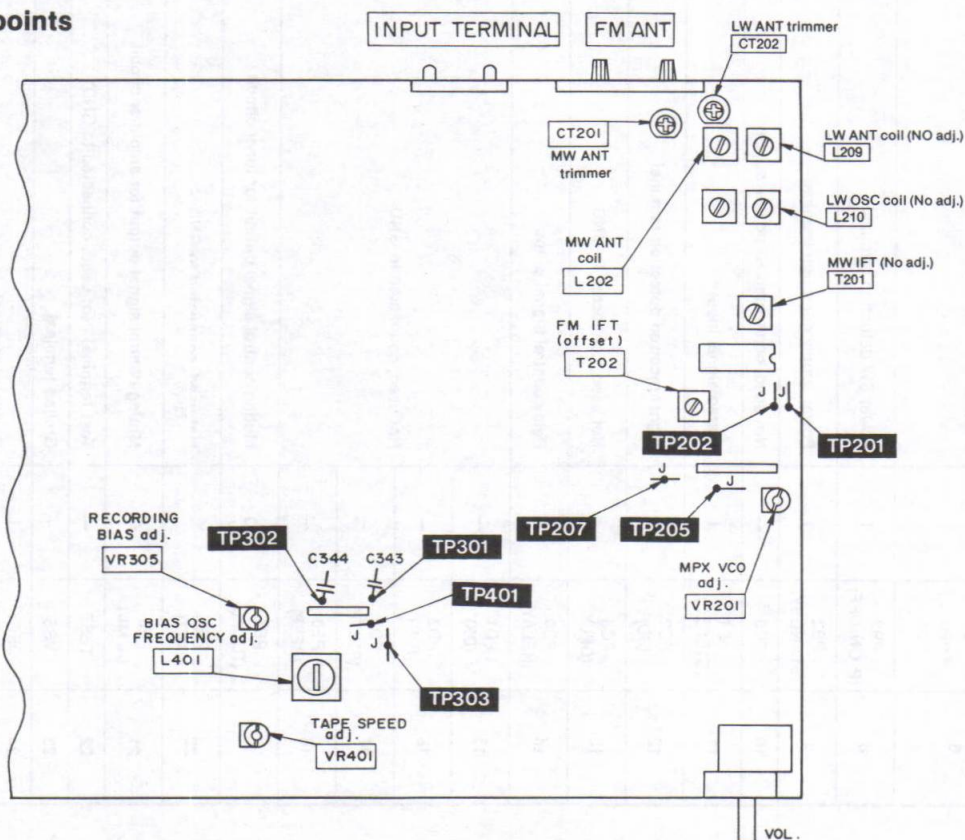
ROTATING SPEED ADJUSTMENT

1. Set the speed selector to "33".
2. Turn the power switch "on" and press the start button.
3. Adjust **VR72** so that turntable platter rotates at the rated speed. (33-1/3 rpm)
4. Set the speed selector to "45".
5. Adjust **VR71** so that turntable platter rotates at the rated speed. (45 rpm)

Note: Be sure to adjust 33-1/3 rpm first.



• Adjustment points



FUNCTION OF IC TERMINAL

• IC901 (LC8554H-4082): Microcomputer

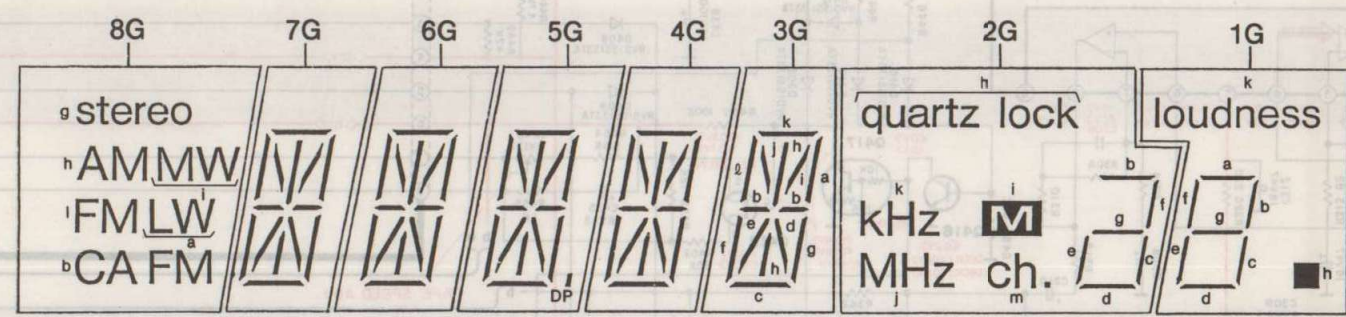
PIN NO.	MARK	I/O	DESCRIPTION OF TERMINAL
1	PP0	O	Segment signal output for FL display
2 3 4 5 6 7	PA0 } PA3 • PB0 PB1	I	Input terminal for key return signal from external key matrix
8	PB2 (P.ON/OFF)	I	Power SW detection terminal
9	PB3 (STANDBY)	I	Power supply detection terminal
10	PC0	—	Not used, connected to power supply
11	PC1 (STEREO)	I	Stereo signal input
12	PC2 (SD)	I	Signal received detection terminal
13	PC3 (DPLY)	—	Not used, connected to GND
14	PD0 (RELAY)	O	Relay control signal output
15	PD1 (DK)	—	Not used, connected to GND
16	PD2 (P. ST)	—	
17	PD3 (P. STP)	—	
18	PE0 (BEEP)	—	Muting control signal output for tuner circuit
19	PE1 (TU. MU)	O	
20	PE2 (ATT)	—	Not used, connected to GND
21	PE3 (A. MU)	O	Muting control signal output for amplifier circuit
22	TEST	—	Test terminal (Not used, connected to GND)
23	VSS	—	Ground terminal
24	OSC1	I	Oscillator terminal
25	OSC2	O	
26	RES	I	Reset signal input
27	PF0 (DATA)	O	Serial data output terminal
28	PF1 (CL)	O	Clock signal terminal for signal data

PIN NO.	MARK	I/O	DESCRIPTION OF TERMINAL
29	PF2 (CE)	O	Chip enable terminal
30	PF3 (INT)	I	Remote control signal input
31	PG0 (MONO)	O	Forcible monaural select signal output
32	PG1 (HOUSE)	—	Not used, connected to GND
33	PG2 (ST)	O	Level shift control signal output
34	PG3 (DUB)	O	Tape speed control signal output
35	P10 (V. DOWN)	O	LED drive signal output
36	P11 (V. UP)		
37	P12 (SURR)	—	Not used, connected to GND
38	P13 (LOUD)	O	Loudness control signal output
39	PJ0 (V.M.D)	O	Volume motor control UP/DOWN signal output
40	PJ1 (V.M.U)		
41	PJ2	—	Not used, connected to GND
42	PJ3 (NOUSE)	—	Not used, connected to GND
43	VP	I	Power supply terminal (negative voltage)
44 47	PK0 } PK3	O	Segment signal output for FL display
48 51	PL0 } PL3	O	Segment signal output for FL display
52 55	PM0 } PM3	O	Segment signal output for FL display
56	VDD	I	Power supply terminal (positive voltage)
57 60	PN0 } PN3	O	Key scan signal and digit signal for FL display
61 64	PO0 } PO3	O	Key scan signal and digit signal for FL display

INTERNAL CONNECTION OF FL

BLOCK DIAGRAM

Grid connection diagram

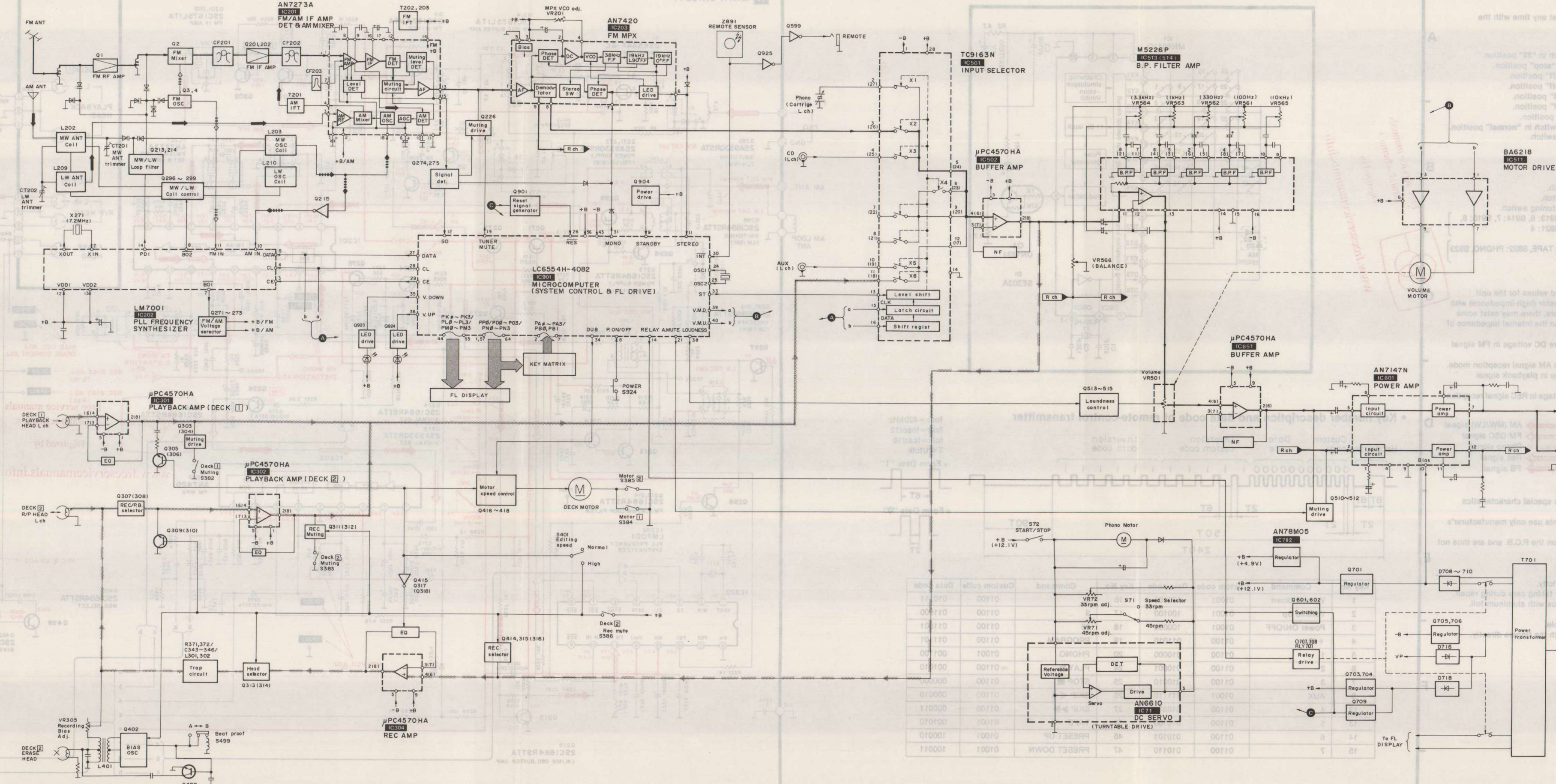


Pin connection table

PIN NO.	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
CONNECTION	N P	F 2	N P	N P	d	e	g	f	b	a	l	i	h	j	k	N P	N P	N P	N P	N P	N P	2 G	1 G	8 G	7 G	6 G	5 G	4 G	3 G	m	N P	N P	F 1	N P

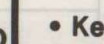
Anode connection table

	8G	7G	6G	5G	4G	3G	2G	1G
a	LW	a	a	a	a	a	-	a
b	CAFM	b	b	b	b	b	b	b
c	-	c	c	c	c	c	c	c
d	-	d	d	d	d	d	d	d
e	-	e	e	e	e	e	e	e
f	-	f	f	f	f	f	f	f
g	stereo	g	g	g	g	g	g	g
h	AM	h	h	h	h	h	quartz lock	
i	MW	i	i	i	i	i	M	-
j	-	j	j	j	j	j	MHz	-
k	-	k	k	k	k	k	kHz	loudness
l	FM	l	l	l	l	l	-	-
m	-	-	-	DP	-	-	ch.	-

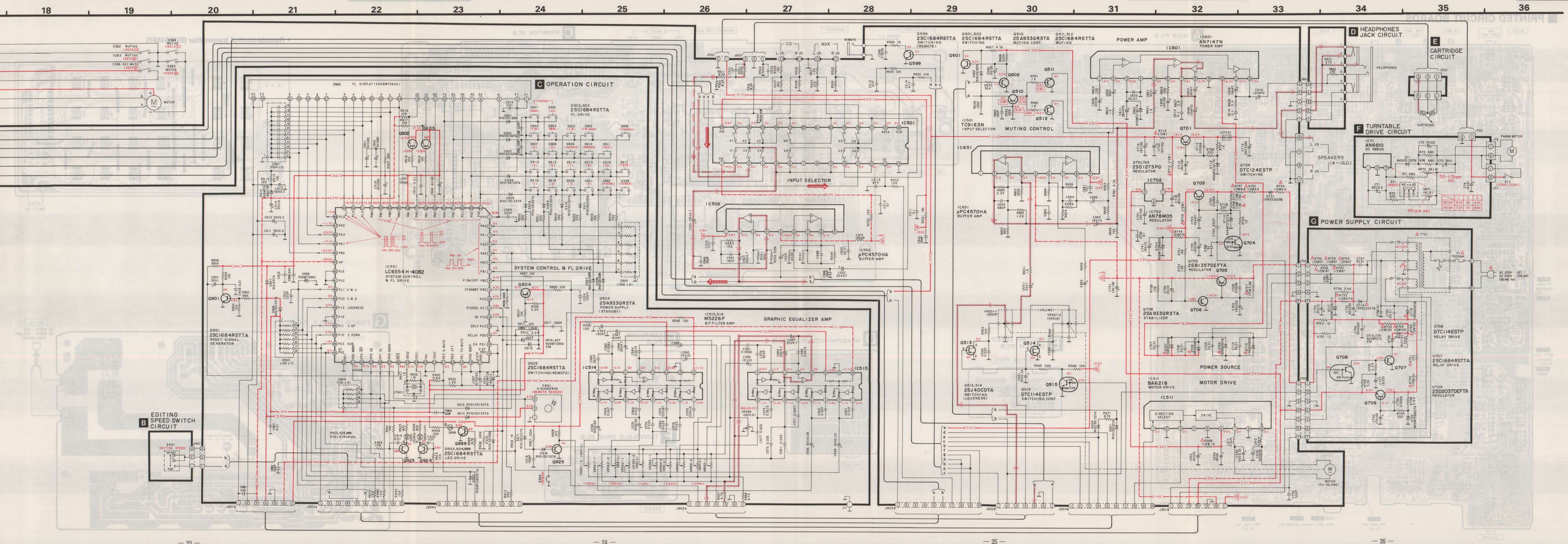


- Remote-control transmitter

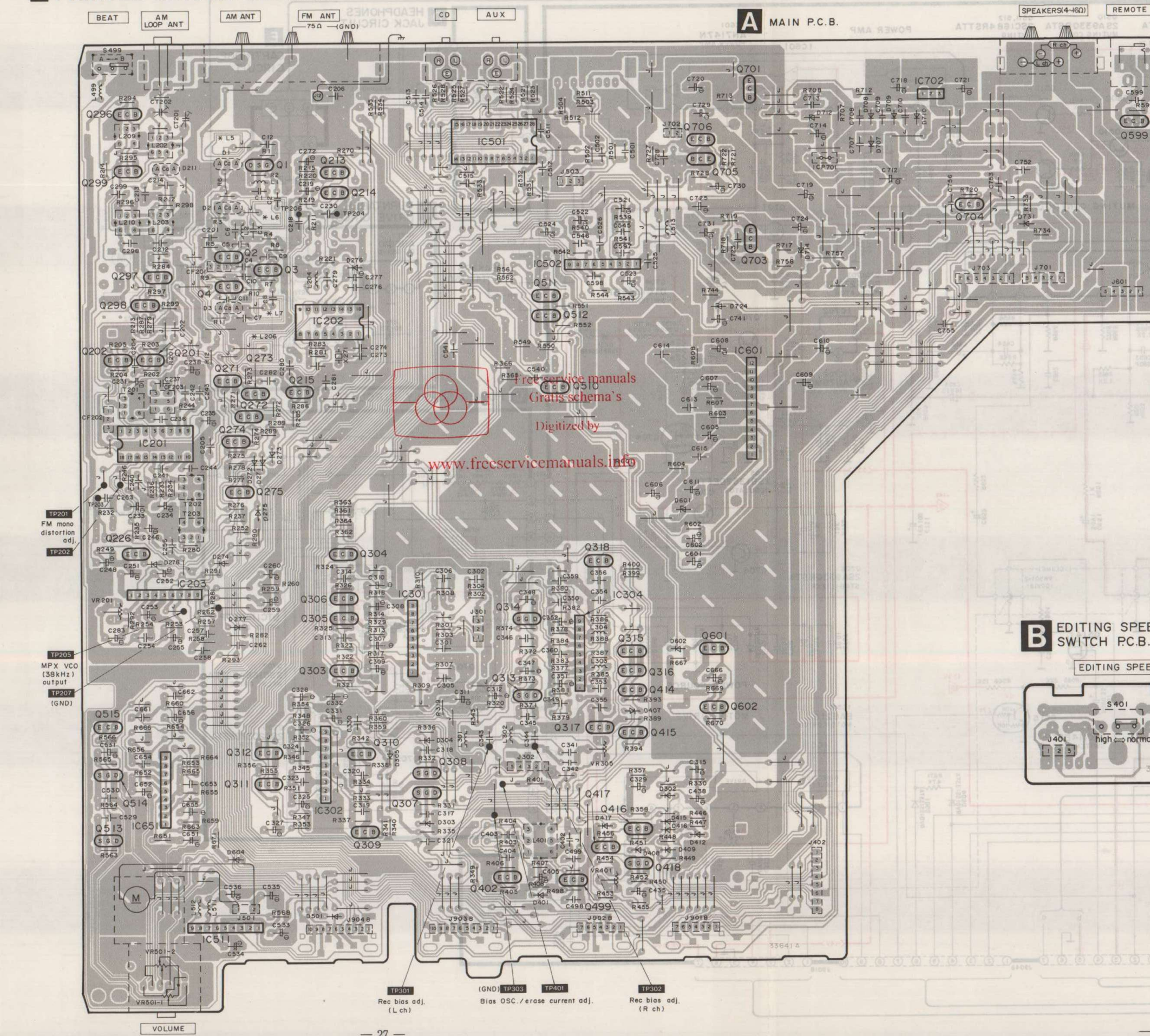
- Ke



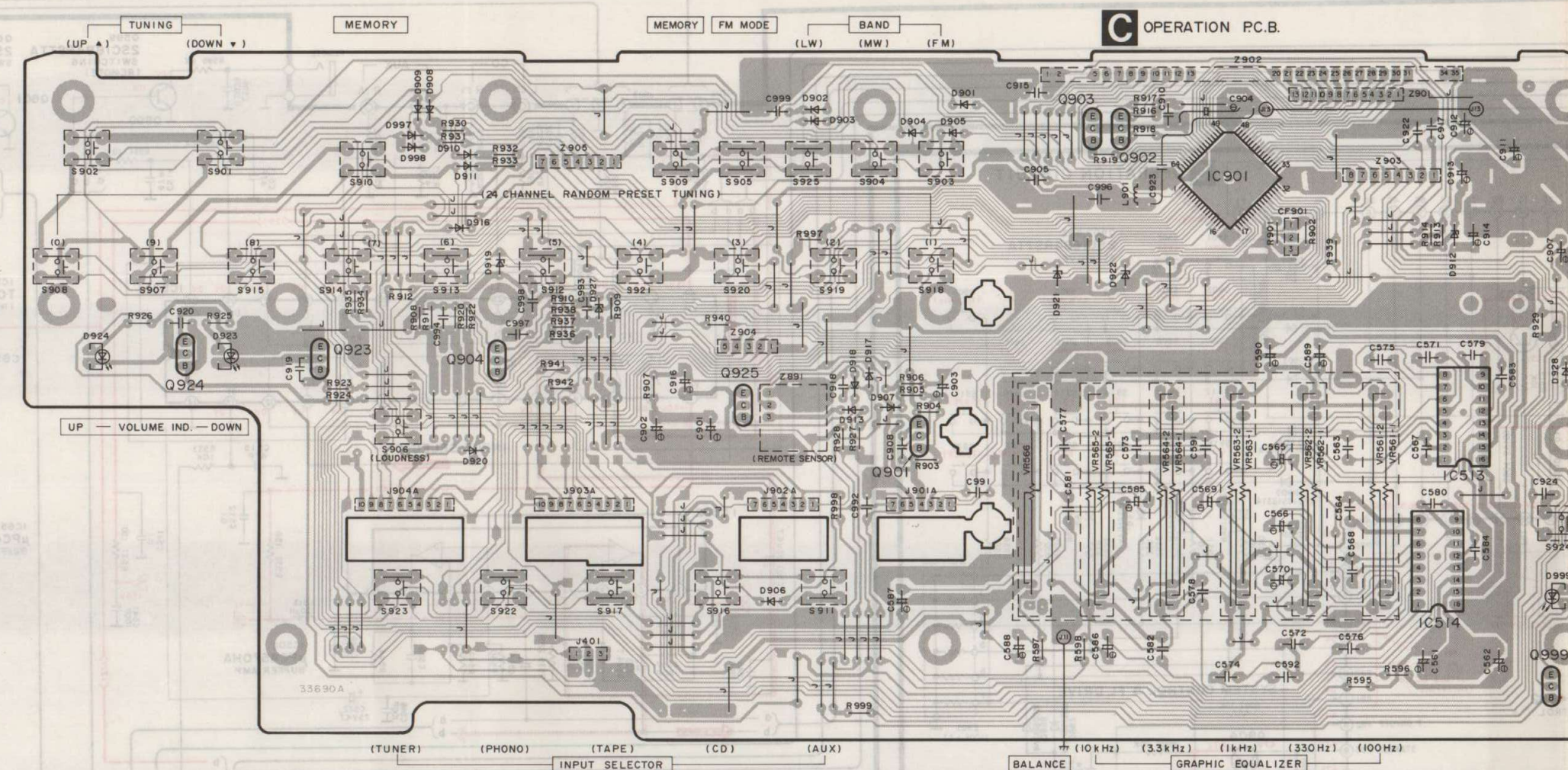
- Ke



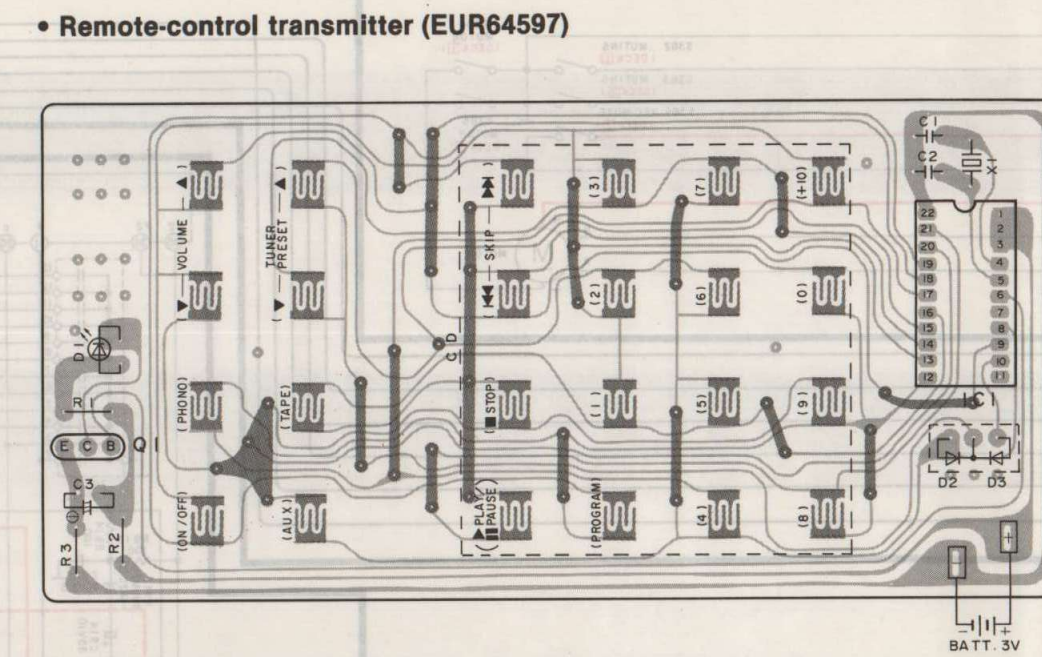
■ PRINTED CIRCUIT BOARDS



A MAIN P.C.E.

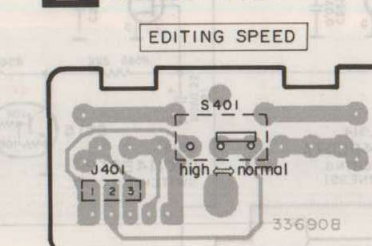


C OPERATION P.C.

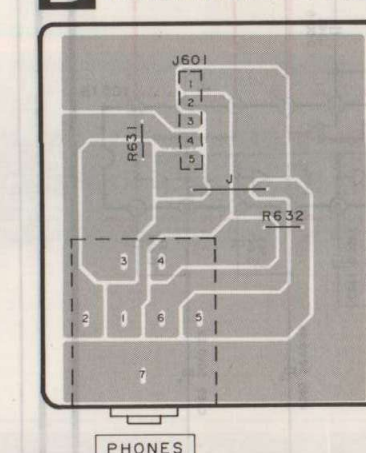


- Remote-control transmitter (EUR64597)

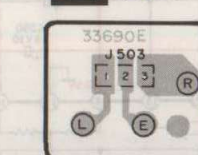
B EDITING SPEED SWITCH P.C.B.



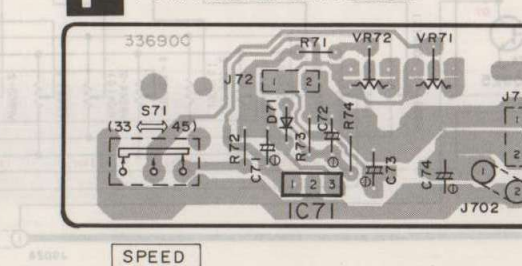
HEADPHONES JACK P.C.B.



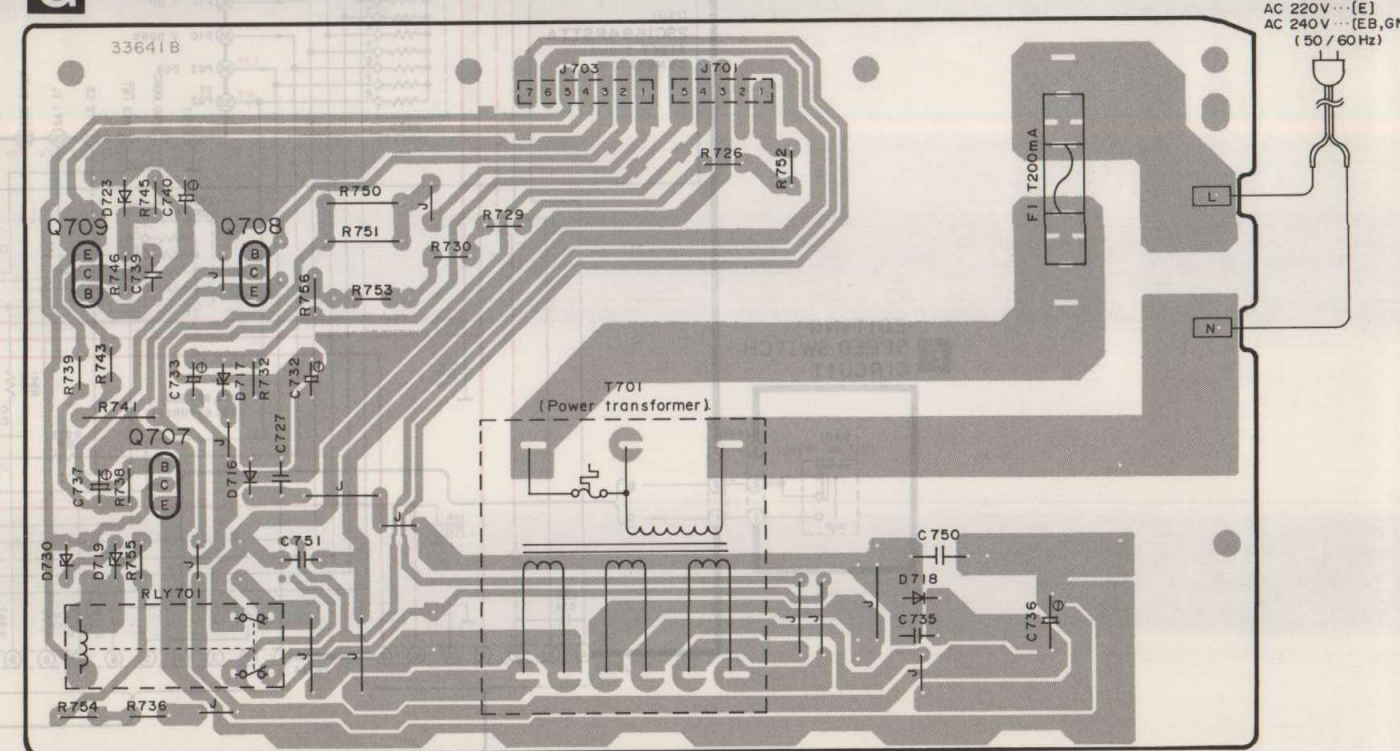
E CARTRIDGE
P.C.B.



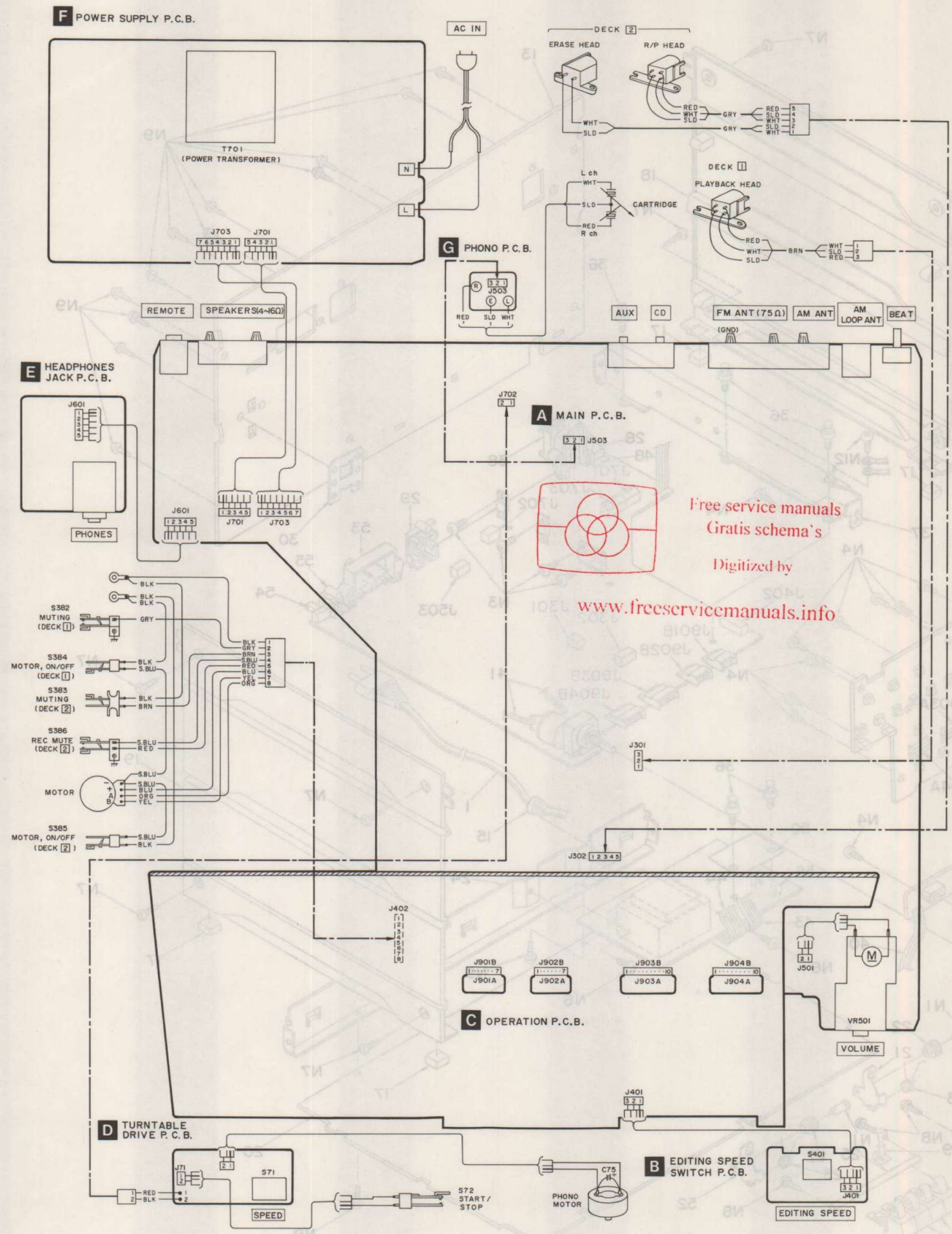
F TURNTABLE DRIVE P.C.B.



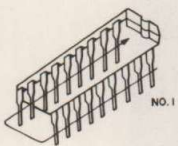
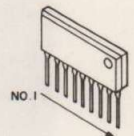
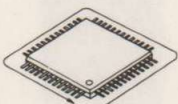
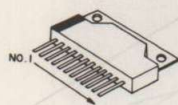
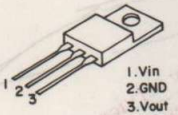
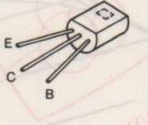
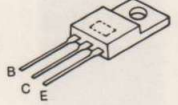
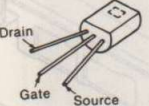
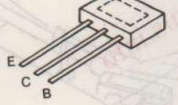
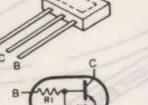
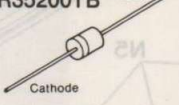
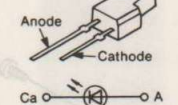
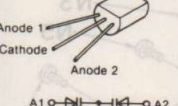
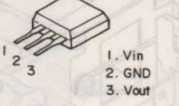
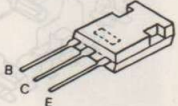
G POWER SUPPLY P.C.B.



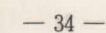
WIRING CONNECTION DIAGRAM



TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

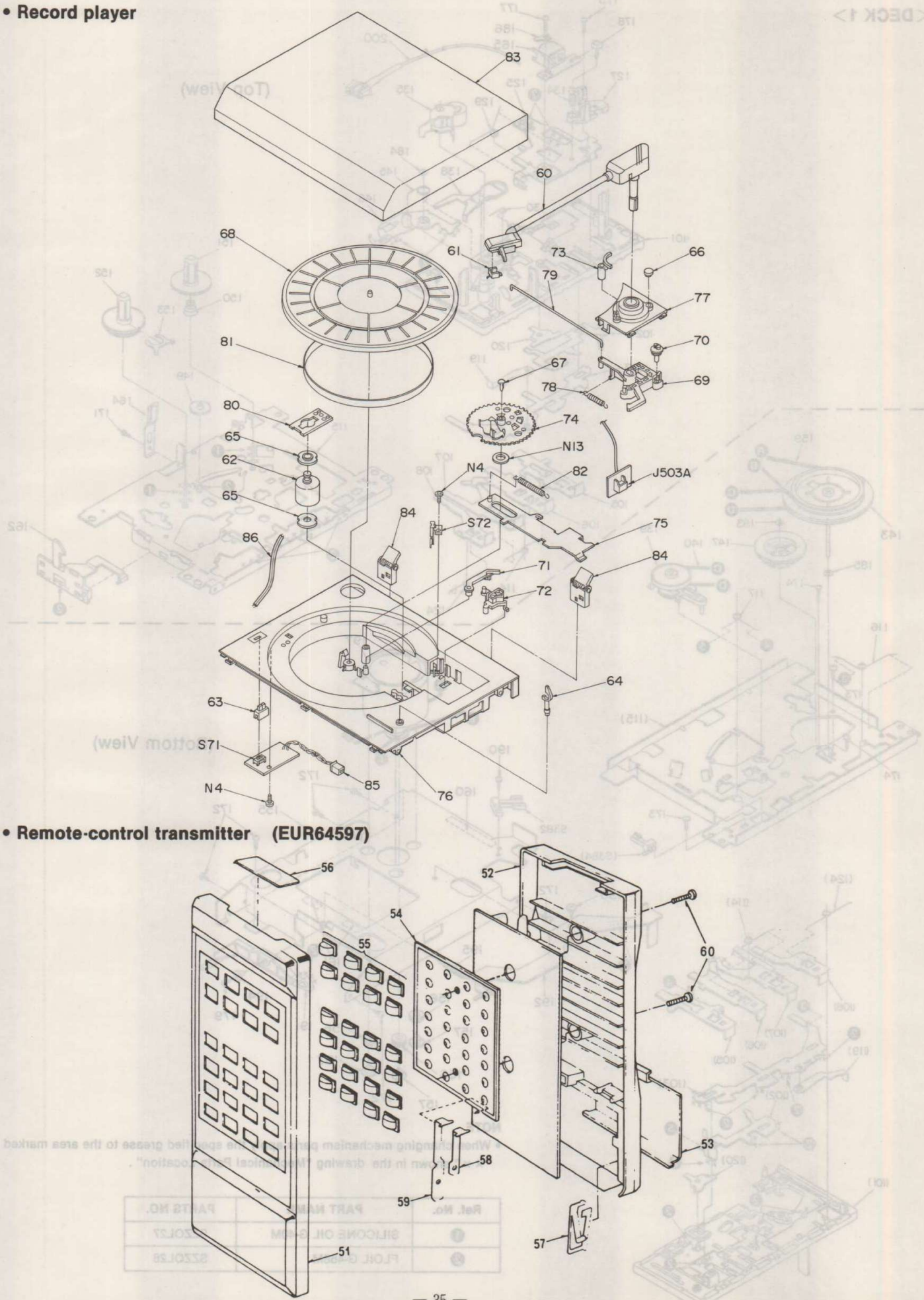
<table border="1"><tr><td>TC9163N</td><td>28 PIN</td></tr><tr><td>M5226P</td><td>16 PIN</td></tr><tr><td>LM7001</td><td>8 PIN</td></tr><tr><td>AN7273A</td><td>18 PIN</td></tr></table> 	TC9163N	28 PIN	M5226P	16 PIN	LM7001	8 PIN	AN7273A	18 PIN	<table border="1"><tr><td>AN7420</td><td rowspan="3">9 PIN</td></tr><tr><td>BA6218</td></tr><tr><td>UPC4570HA</td></tr></table> 	AN7420	9 PIN	BA6218	UPC4570HA	<table border="1"><tr><td>LC6554H-4082</td><td>64 PIN</td></tr></table> 	LC6554H-4082	64 PIN
TC9163N	28 PIN															
M5226P	16 PIN															
LM7001	8 PIN															
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AN7420	9 PIN															
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LC6554H-4082	64 PIN															
<table border="1"><tr><td>AN7147N</td><td>12 PIN</td></tr></table> 	AN7147N	12 PIN	<table border="1"><tr><td>AN78M05</td></tr></table>  1. Vin 2. GND 3. Vout	AN78M05	<table border="1"><tr><td>2SC1674MTA 2SC1675LITA 2SC1384RS 2SC1684RSTTA 2SC2001KTA</td></tr></table>  E C B	2SC1674MTA 2SC1675LITA 2SC1384RS 2SC1684RSTTA 2SC2001KTA	<table border="1"><tr><td>2SD1273PQ</td></tr></table>  B C E	2SD1273PQ								
AN7147N	12 PIN															
AN78M05																
2SC1674MTA 2SC1675LITA 2SC1384RS 2SC1684RSTTA 2SC2001KTA																
2SD1273PQ																
<table border="1"><tr><td>2SJ40CDTA 2SK381CDTA 2SK544F-AC</td></tr></table>  Drain Gate Source	2SJ40CDTA 2SK381CDTA 2SK544F-AC	<table border="1"><tr><td>2SA933QRSTA</td></tr></table>  E C B	2SA933QRSTA	<table border="1"><tr><td>DTC114ESTP DTC124ESTP</td></tr></table>  E C B	DTC114ESTP DTC124ESTP	<table border="1"><tr><td>RVD1SS133TA MA165TA 1SR35200TB</td></tr></table>  Anode Cathode Ca	RVD1SS133TA MA165TA 1SR35200TB	<table border="1"><tr><td>SVGLB74UR3HL</td></tr></table>  Anode Cathode Ca	SVGLB74UR3HL							
2SJ40CDTA 2SK381CDTA 2SK544F-AC																
2SA933QRSTA																
DTC114ESTP DTC124ESTP																
RVD1SS133TA MA165TA 1SR35200TB																
SVGLB74UR3HL																
<table border="1"><tr><td>RVDMTZ12CTA RVDMTZ15CTA RVDMTZ16CTA RVDMTZ20CTA RVDMTZ5R6BTA RVDMTZ6R2CTA RVDMTZ8R2CTA</td></tr></table>  Anode Cathode Ca	RVDMTZ12CTA RVDMTZ15CTA RVDMTZ16CTA RVDMTZ20CTA RVDMTZ5R6BTA RVDMTZ6R2CTA RVDMTZ8R2CTA	<table border="1"><tr><td>SVC211SPA-AL SVC342LMTP</td></tr></table>  Anode 1 Cathode Anode 2 A1 A2 Ca	SVC211SPA-AL SVC342LMTP	<table border="1"><tr><td>AN6610</td></tr></table>  1. Vin 2. GND 3. Vout	AN6610	<table border="1"><tr><td>2SB1357EFTA 2SD2037EFTA</td></tr></table>  B C E	2SB1357EFTA 2SD2037EFTA									
RVDMTZ12CTA RVDMTZ15CTA RVDMTZ16CTA RVDMTZ20CTA RVDMTZ5R6BTA RVDMTZ6R2CTA RVDMTZ8R2CTA																
SVC211SPA-AL SVC342LMTP																
AN6610																
2SB1357EFTA 2SD2037EFTA																

- **Cabinet and chassis**



Record player

Remote-control transmitter (EUR64597)



REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
* Parts without these indications can be used for all areas.
* Remote Control Ass'y:
Supply period for three years from termination of production.
* $\square$ Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS					
1	SFDAB31E01	POWER CORD	(E) Δ	38	SJF5406	TERMINAL, SPEAKER	
1	SFDAB31G01	POWER CORD	(EB) Δ	39	SMC1314	GEQ SHIELD PLATE	$\square$
1	SJA190	POWER CORD	(GN) Δ	40	W3FCK10FF	FLAT CABLE J401	$\square$
2	SBN1132	KNOB, EDITING		41	W2FCK12FF	FLAT CABLE J501	$\square$
3	SBC1068	BUTTON, TUNING		42	W5FCK26FF	FLAT CABLE J601	$\square$
4	SBC1069-1	BUTTON, TUNING PRESET	$\square$	43	W5FCK20FR	FLAT CABLE J701	$\square$
5	SBC1070	BUTTON, BAND SELECTOR		44	W7FCK20FR	FLAT CABLE J703	$\square$
6	SBC1072	BUTTON, CASSETTE		45	SMN2106	FL HOLDER	$\square$
7	SBC1077	BUTTON, INPUT SELECTOR	$\square$	46	SMC1315	UCOM SHIELD PLATE	$\square$
8	SBC1076	BUTTON, POWER	$\square$	48	SHR8015	SPACER	$\square$
9	RBD248YAB-0	KNOB, GEQ BALANCE	$\square$	49	SNE1005	BRACKET	$\square$
10	SBN1254	KNOB, MAIN VOLUME		50	SHR8016	INSULATION SHEET	$\square$
11	SBC1074	BUTTON, SUPER BASS	$\square$	51	SMC6482	FL SHIELD PLATE	$\square$
12	SBC1075	BUTTON, MEMORY SCAN	$\square$	52	SMQ30056	BRACKET	$\square$
13	SGPGHM30L-E	REAR PANEL ASS'Y	(E) $\square$	53	SJF4317	TERMINAL, ANTENNA	
13	SGPGHM30L-GN	REAR PANEL ASS'Y	(GN) $\square$	54	SSS153	SWITCH, BEAT PROOF	
13	SGP7560A	REAR PANEL	(EB) $\square$	55	SJS208	TERMINAL, LOOP ANTENNA	
14	SGYGHM30L-E	FRONT PANEL ASS'Y	$\square$	56	RJF282A	FUSE CLIP	
15	SHR129	SPACER, POWER CORD	(EB)	57	SMC6481	REMOTE SENSOR SHIELD PLATE	$\square$
15	SHR127	SPACER, POWER CORD	(E, GN)	60	SFAB27Z	PICK UP	$\square$
16	SHR301	CLAMPER		61	EPS-41ST	STYLUS	
17	SHS3276	FOOT	$\square$	62	MMNGD16-KM5	PHONO MOTOR	$\square$
18	SKM7840U	SIDE PANEL (L)	$\square$	63	SBN1132	KNOB, SPEED SELECTOR	
19	SKM7840-2U	SIDE PANEL (R)	$\square$	64	SJY5218	PICK UP REST	
20	SKU11930	BOTTOM BOARD	$\square$	65	SHG1660	RUBBER	$\square$
21	SMQ30030	BRACKET		66	SHG9246-1	RUBBER CAP	
22	SMQ4096	GEAR		67	SHR417	RIVET	
23	SMQ60028	SPRING	$\square$	68	SJYGW7CD-KN2	TURN TABLE ASS'Y	
24	SLW3144-1	BRACKET	$\square$	69	SJY5220	PICK UP FIXING ARM	
25	SLX102	SHAFT		70	SJY5221	PICK UP CAM	
26	SLW3145	BRACKET	$\square$	71	SJY5222	DRIVE LEVER	
27	SJJ138	JACK, HEADPHONES		72	SJY5223	PLATE	
28	SJJ139B	JACK, CD REMOTE	$\square$	73	SJY5224-3	LIFTER	
29	SJF3071NJ	TERMINAL, INPUT		74	SJYGD16-KM	MAIN GEAR ASS'Y	$\square$
30	SLW3007-1	BRACKET		75	SJYGH10-KP	PLATE	
31	SGL271	PANEL LIGHT	$\square$	76	SJYGHM30L-E	PLAYER BOARD ASS'Y	$\square$
32	SGL270	PANEL LIGHT	$\square$	77	SKM7860	ARM BASE	$\square$
33	RFKLGHM30LAK	CASSETTE LID ASS'Y	$\square$	78	SUS786	SPRING	
34	RFKLGHM30LBK	CASSETTE LID ASS'Y	$\square$	79	SJY90455	LEVER SPOKE	
35	SDU371	FL FILTER	$\square$	80	SJY90456	BRACKET	
36	SHR9094	LATCH		81	SJY90080-2	BELT	
37	SLW3143	BRACKET	$\square$	82	SJY90406	SPRING	
				83	SYE1130	DUST COVER	$\square$
				84	SBH9383	HINGE	
				85	SWKGD16M1	CONNECTOR ASS'Y J702	$\square$

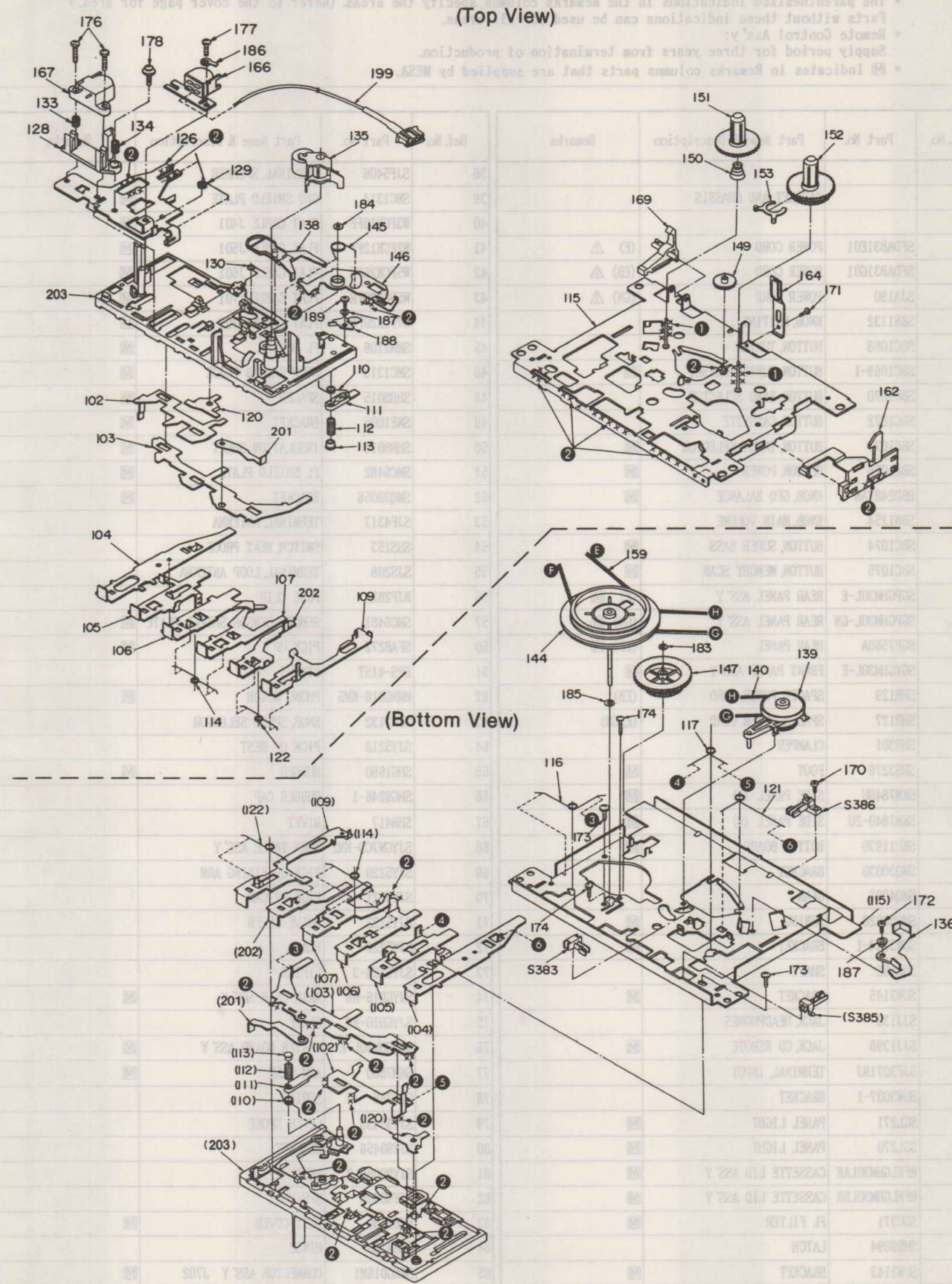
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
86	W2FCK36F	FLAT CABLE J71, 72	$\square$	117	RFS816ZA	COIL SPRING	
J301	SJT3319	CONNECTOR (3P)		119	RFY844ZA	LEVER (DECK 1)	
J302	SJT3511	CONNECTOR (5P)		120	RFX175ZA	SPACER	
J402	SJT3809	CONNECTOR (8P)		121	RFS817ZA	COIL SPRING (DECK 2)	
J503A	SJS50378JQ	SOCKET (3P)		122	RFS818ZA	COIL SPRING (DECK 2)	
J503	SJT3321	CONNECTOR (3P)		124	RFS842ZA	SPRING (DECK 1) $\square$	
J701	SJT30543V	CONNECTOR (5P)	$\square$	125	RFU157ZA	CHASSIS (DECK 1)	
J702	SJT3213	CONNECTOR (2P)	$\square$	126	RFU175ZA	CHASSIS (DECK 2) $\square$	
J703	SJT30743V	CONNECTOR (7P)	$\square$	127	RFU168ZA	CHASSIS (DECK 1)	
J901A	SJT30747WL	CONNECTOR (7P)		128	RFU167ZA	HEAD PANEL (DECK 2)	
J901B	SJS50780WL	SOCKET (7P)		129	RFS830ZA	SPRING	
J902A	SJT30747WL	CONNECTOR (7P)		130	RFS820ZA	COIL SPRING	
J902B	SJS50780WL	SOCKET (7P)		133	RFS578ZA	SPRING (DECK 2)	
J903A	SJT31047WL	CONNECTOR (10P)		134	RFS447Z	AZMUTH SPRING	
J903B	SJS51080WL	SOCKET (10P)		135	RFR57ZA	ROLLER	
J904A	SJT31047WL	CONNECTOR (10P)		136	RFY909ZA	REC ARM (DECK 2) $\square$	
J904B	SJS51080WL	SOCKET (10P)		138	RFY884ZA	LEVER	
		SCREWS, NUTS AND WASHERS		139	RFQ61ZA	PULLEY	
				140	RFB99ZA	BELT	
N1	SNE2120	NUT		143	RFF70ZA	FLYWHEEL ASS'Y (DECK 1) $\square$	
N2	SNE4060	U NUT		144	RFF71ZA	FLYWHEEL ASS'Y (DECK 2) $\square$	
N3	XTB3+8J	SCREW		145	RFS822ZA	COIL SPRING	
N4	XTB3+10G	SCREW		146	RFY874ZA	LEVER	
N5	XTB3+10GFR	SCREW		147	RFG136ZA	GEAR	
N6	XTB4+8F	SCREW		149	RFG110ZA	GEAR	
N7	XTB4+12JFZ	SCREW		150	RFS708ZA	COIL SPRING	
N8	XTW3+8T	SCREW		151	RFJ89ZA	REEL ASS'Y $\square$	
N9	XTW3+10T	SCREW		152	RFJ90ZA	REEL ASS'Y $\square$	
N10	XTW3+10Q	SCREW		153	RFY875ZA	LEVER	
N11	XNS7B	SCREW		155	RFD404ZA	MOTOR BRACKET $\square$	
N12	XTBS3+8JFZ1	SCREW		156	RF127ZA	MOTOR RUBBER	
N13	XWE8D14	WASHER		157	RFE213ZA	SCREW	
		MECHANISM PARTS LIST		159	RFB102ZA	MAIN BELT $\square$	
				160	RF155ZA	RUBBER SPACER	
				161	RF156ZA	RUBBER SPACER	
				162	RFY889ZA	LEVER	
101	RFU154ZA	CHASSIS (DECK 1)		164	RFS467ZA	SPRING	
102	RFY905ZA	SWITCH PLATE	$\square$	165	RFH21ZA	P HEAD (DECK 1)	
103	RFY906ZA	SWITCH PLATE	$\square$	166	RFH22ZA	R/P HEAD (DECK 2) $\square$	
104	RFY868ZA	LEVER (DECK 2)		167	RFH23ZA	E HEAD (DECK 2) $\square$	
105	RFY869ZA	LEVER		169	RFY716ZA	LEVER (DECK 2)	
106	RFY870ZA	LEVER		170	RFE475ZA	SCREW (DECK 2)	
107	RFY871ZA	FF BUTTON LEVER		171	XTN2+3B	SCREW	
108	RFY872ZA	LEVER (DECK 1)		172	XTN2+4B	SCREW	
109	RFY907ZA	LEVER (DECK 2) $\square$		173	XSN2+4	SCREW	
110	RFS837ZA	SPRING (DECK 2)		174	RFE496ZA	SCREW	
111	RFY908ZA	LEVER (DECK 2) $\square$		175	XSN2+6	SCREW (DECK 1)	
112	RFS813ZA	COIL SPRING (DECK 2)		176	RFE506ZA	SCREW (DECK 2) $\square$	
113	RFX174ZA	SPACER (DECK 2)		177	RFE498ZA	SCREW	
114	RFS814ZA	COIL SPRING		178	RFE230ZA	SCREW	
115	RFU155ZA	CHASSIS		179	RFE454ZA	SCREW	
116	RFS815ZA	COIL SPRING		183	RFN83ZA	WASHER	

Ref. No.	Part No.	Part Name & Description	Remarks
184	RFN2142A	WASHER	
185	RFN1222A	WASHER	
186	RFE2282A	TERMINAL	
187	RFY8772A	COLLER (DECK 2)	
188	RFD3962A	CHASSIS (DECK 2)	
189	RFE4972A	SCREW (DECK 2)	
190	RFE4532A	SCREW	
191	RFY9102A	LEVER	[M]
192	RFY9112A	LEVER	[M]
193	RFE2392A	SCREW	
194	RFX1342A	COLLER	
195	RFS6872A	SPRING	
197	RFM1622A	MOTOR ASS'Y	[M]
199	SWNGH30P2	LEAD WIRE (DECK 2)	[M]
200	SWNGH30P3	LEAD WIRE (DECK 1)	[M]
201	RFY9242A	LEVER (DECK 2)	[M]
202	RFY9252A	LEVER (DECK 2)	[M]
203	RFU1782A	CHASSIS (DECK 2)	
		PACKING MATERIAL	
P1	SPG6476	CARTON BOX (EB)	[M]
P1	SPG6485	CARTON BOX (E, GN)	[M]
P2	SPS5314	PAD (UNDER FRONT)	[M]
P3	SPS5315	PAD (UNDER REAR)	[M]
P4	SPS5312	PAD (TOP FRONT)	[M]
P5	SPS5313	PAD (TOP REAR)	[M]
P6	SPS5316	RAD (T. T. SHEET)	[M]
P9	SPS5084	REMOTE CONTROL BOX	[M]
P10	SPP761	PROTECTION COVER	[M]
P12	SHE154	ARM BAND	
P13	XZB28X35A01	POLY SHEET	[M]
P14	SPP746	VINYL BAG	[M]
		ACCESSORIES	
A1	SQX54944	INSTRUCTION MANUAL (EB, GN)	[M]
A1	SQXGHM30L-E	INSTRUCTION MANUAL (E)	[M]
A2	SJY5018-1	EP ADAPTOR	
A3	SSA269	FM ANTENNA	
A4	SPB1163T	LOOP ANTENNA	
		REMOTE CONTROL ASS'Y	
RC1	EUR64597	REMOTE CONTROL UNIT	[M]
		** REMOTE CONTROL PARTS **	
		INTEGRATED CIRCUIT	
IC1	MN6013D	I. C. MICROCOMPUTER	

EXPLODED VIEWS

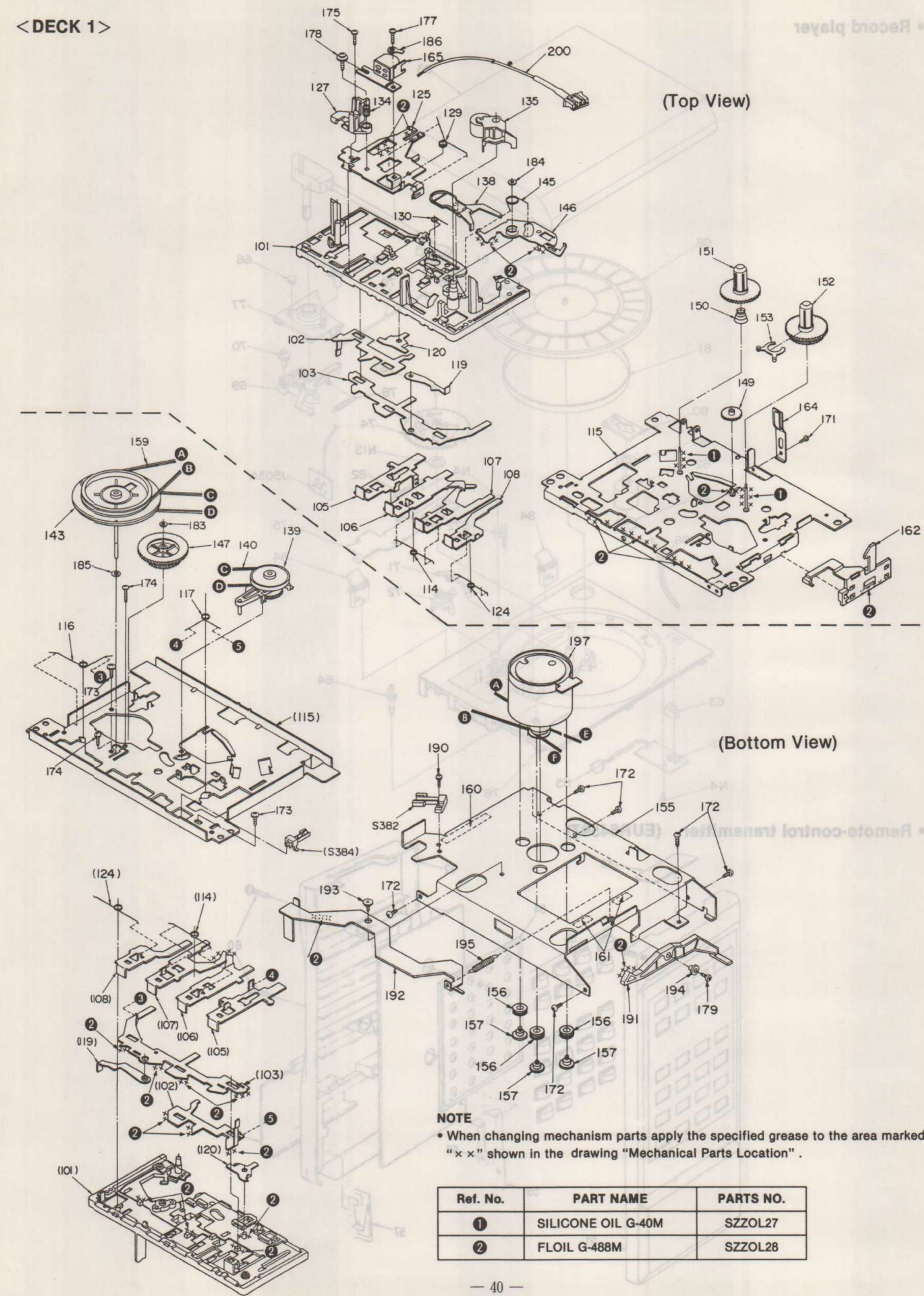
• Cassette deck

< DECK 2 >



REPLACEMENT PARTS LIST

< DECK 1 >



REPLACEMENT PARTS LIST

Notes : * Important safety notice:

- Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
- The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
- Parts without these indications can be used for all areas.
- [M] Indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS		Q511, 512	2SC1684RSTTA	TRANSISTOR	[M]
				Q513, 514	2SJ40CD	TRANSISTOR	
				Q515	DTC114ESTP	TRANSISTOR	
IC71	AN6610	I. C, DC SERVO		Q599	2SC1684RSTTA	TRANSISTOR	[M]
IC201	AN7273A	I. C, FM/AM IF AMP&MIXER		Q601, 602	2SC1684RSTTA	TRANSISTOR	[M]
IC202	LM7001	I. C, PLL FREQ. SYNTHESIZER		Q701	2SD1273-Q	TRANSISTOR	
IC203	AN7420	I. C, FM MPX		Q704	DTC124EST	TRANSISTOR	
IC301	UPC4570HA	I. C, P. B. AMP.	[M]	Q703	2SD1273-Q	TRANSISTOR	
IC302	UPC4570HA	I. C, P. B. AMP.	[M]	Q705	2SB1357DEFTA	TRANSISTOR	[M]
IC304	UPC4570HA	I. C, REC AMP.	[M]	Q706	2SA933QRSTA	TRANSISTOR	[M]
IC501	TC9163N	I. C, INPUT SELECTOR		Q707	2SC1684RSTTA	TRANSISTOR	[M]
IC502	UPC4570HA	I. C, BUFFER AMP.	[M]	Q708	DTC114ESTP	TRANSISTOR	
IC511	BA6218	I. C, MOTOR DRIVE		Q709	2SD2037DEFTA	TRANSISTOR	
IC513	M5226P	I. C, B. P. F. AMP.		Q901-903	2SC1684RSTTA	TRANSISTOR	[M]
IC514	M5226P	I. C, B. P. F. AMP.		Q904	2SA933QRSTA	TRANSISTOR	[M]
IC601	AN7147N	I. C, REGULATOR		Q923-925	2SC1684RSTTA	TRANSISTOR	[M]
IC651	UPC4570HA	I. C, BUFFER AMP	[M]	Q999	2SC1684RSTTA	TRANSISTOR	[M]
IC702	AN78M05	I. C, REGULATOR					
IC901	LC6554H-4082	I. C, MICROCOMPUTER	[M]			DIODES	
		TRANSISTORS					
				D1, 3	SVC211SPA-AL	DIODE	
Q1	2SK544F-AC	TRANSISTOR		D71	1SS133	DIODE	
Q2	2SC1674M	TRANSISTOR		D211	SVC342LMTP	DIODE	
Q3, 4	2SC1675L1TA	TRANSISTOR	[M]	D271-278	1SS133	DIODE	
Q201, 202	2SC1675L1TA	TRANSISTOR	[M]	D302-305	1SS133	DIODE	
Q213-215	2SC1684RSTTA	TRANSISTOR	[M]	D401	1SS133	DIODE	
Q226	2SC1684RSTTA	TRANSISTOR	[M]	D407-409	1SS133	DIODE	
Q271, 272	2SA933QRSTA	TRANSISTOR	[M]	D412	1SS133	DIODE	
Q273, 274	2SC1684RSTTA	TRANSISTOR	[M]	D415-417	1SS133	DIODE	
Q275	2SA933QRSTA	TRANSISTOR	[M]	D501	1SS133	DIODE	
Q296-298	2SC1684RSTTA	TRANSISTOR	[M]	D601	RVDMTZ16CTA	DIODE	[M]
Q299	2SA933QRSTA	TRANSISTOR	[M]	D602	1SS133	DIODE	
Q303, 304	2SC2001KTA	TRANSISTOR		D604	1SS133	DIODE	
Q305, 306	2SC1684RSTTA	TRANSISTOR	[M]	D707-710	SVD1SR35200A	DIODE	[M]
Q307, 308	2SJ40CD	TRANSISTOR		D714	RVDMTZ15CTA	DIODE	
Q309-312	2SC2001KTA	TRANSISTOR		D712	RVDMTZ12CTA	DIODE	
Q313, 314	2SK381CD	TRANSISTOR		D716	SVD1SR35200A	DIODE	
Q315-318	2SC1684RSTTA	TRANSISTOR	[M]	D717	RVDMTZ20CTA	DIODE	[M]
Q402	2SC1384RS	TRANSISTOR		D718	SVD1SR35200A	DIODE	
Q414, 415	DTC114ESTP	TRANSISTOR		D719	RVDMTZ12C	DIODE	
Q416	2SC1684RSTTA	TRANSISTOR	[M]	D723	RVDMTZ6R2CTA	DIODE	[M]
Q417	DTC114ESTP	TRANSISTOR		D724	RVDMTZ5R6BTA	DIODE	
Q418	2SK381CD	TRANSISTOR		D730	RVDMTZ12CTA	DIODE	
Q499	2SC1684RSTTA	TRANSISTOR	[M]	D731	SVD1SR35200A	DIODE	
Q510	2SA933QRSTA	TRANSISTOR	[M]	D901-906	1SS133	DIODE	
				D907	MA165	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D908-911	ISS133	DIODE	
D912	RVDMTZ6R2CTA	DIODE	[M]
D913	ISS133	DIODE	
D916-918	ISS133	DIODE	
D919	RVDMTZ8R2CTA	DIODE	[M]
D920	ISS133	DIODE	
D921, 922	RVDMTZ8R2CTA	DIODE	[M]
D923, 924	SVGLB74UR3HL	DIODE	
D927, 928	RVDMTZ8R2CTA	DIODE	[M]
D997, 998	ISS133	DIODE	
D999	SVGLB74UR3HL	DIODE	
		I. C. PROTECTOR	
ICP701	SRUF25	IC PROTECTOR	
		VARIABLE RESISTORS	
VR71	RVNCA13B1T-A	V. R. (45 RPM)	
VR72	RVNCA23B1T-A	V. R. (33 RPM)	
VR201	RVNCA53B1T-A	V. R. MPX VCO ADJ.	[M]
VR304	RVNCA24B1T-A	V. R. P. B. GAIN ADJ.	[M]
VR305	RVNCA15B1T-A	V. R. REC BIAS ADJ.	[M]
VR401	RVNCA53B1T-A	V. R. TAPE SPEED ADJ.	[M]
VR501	EUVWUGF20B15	V. R. VOLUME CONTROL	[M]
VR561	EWAHQ2C95G15	V. R. EQ CONT. /100Hz	
VR562	EWAHQ2C95G15	V. R. EQ CONT. /330Hz	
VR563	EWAHQ2C95G15	V. R. EQ CONT. /1kHz	
VR564	EWAHQ2C95G15	V. R. EQ CONT. /3.3kHz	
VR565	EWAHQ2C95G15	V. R. EQ CONT. /10kHz	
VR566	EWAHV2C95G15	V. R. BALANCE CONTROL	[M]
		VARIABLE CAPACITORS	
CT201	ECRLA010A53R	V. C. MW ANT TRIMMER	
CT202	ECRLA020E53R	V. C. LW ANT TRIMMER	
		COILS AND TRANSFORMERS	
L1, 2	RLQZP1R2MT-Y	COIL	[M]
L202	SLA2B3-P	ANTENNA COIL	
L203	SL02B9R-M	OSCILLATOR COIL	[M]
L204	RLQZP1R2MT-Y	COIL	[M]
L209	SLA1B7R-P	COIL	
L210	SL01B5-M	COIL	[M]
L301, 302	SLQX303-1KT	CHOKE COIL	
L303, 304	QLQX2722D	COIL	
L401	SL09C27-M	COIL	[M]
L499	RLQZP2R2MT-Y	MPX COIL	
L511, 512	RLQZP2R2MT-Y	MPX COIL	
L513	RLQZP101KT-Y	MPX COIL	
L901	RLQZP101KT-Y	MPX COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
T201	SLI2B101-M	I. F. T	
T202	SLI4B511-Z	I. F. T	
T203	SLI4B513-Z	I. F. T	
T701	SLT5L296-K	POWER TRANSFORMER	(EB, GN) △ [M]
T701	SLT5L297-K	POWER TRANSFORMER	(E) △ [M]
		COMPONENT COMBINATIONS	
Z891	A1QH3029HD	COMBINATION PART	
Z901	EXFP12331MF	COMBINATION PART	
Z903	EXBP87103J-R	COMBINATION PART	
Z904	EXBP84103JR	COMBINATION PART	
Z905	EXBP86104J-R	COMBINATION PART	[M]
		FILTERS	
CF201, 202	SVFE107MS2-A	FILTER	
CF203	SVFSF2450F7L	FILTER	
CF901	RVBCST4R00MT	FILTER	
		OSCILLATOR	
X271	SVQ49U722-D	CRYSTAL OSCILLATOR	
		DISPLAY	
FL1	SAD8MT36GK	FL DISPLAY TUBE	[M]
		FUSES	
F1	XBA2C02TB0	FUSE	△
		SWITCHES	
S71	SSS167	SW. SPEED	
S72	SSP66	SW. START/STOP	
S382	RFA95ZA	SW. MUTING (DECK 1)	[M]
S383	RFA96ZA	SW. MUTING (DECK 2)	[M]
S384	RFA91ZA	SW. MOTOR (DECK 1)	
S385	RFA91ZA	SW. MOTOR (DECK 2)	
S386	RFA94ZA	SW. REC MUTING (DECK 2)	[M]
S401	SSS167	SW. EDITING SPEED	
S901	SSG13	SW (DOWN)	
S902	SSG13	SW (UP)	
S903	SSG13	SW (FM)	
S904	SSG13	SW (MW)	
S905	SSG13	SW (MODE)	
S906	SSG13	SW (LOUDNESS)	
S907	SSG13	SW (No9)	
S908	SSG13	SW (No0)	
S909	SSG13	SW (MEMORY)	

Ref. No.	Part No.	Part Name & Description	Remarks
S910	SSG13	SW (MEMORY SCAN)	
S911	SSG13	SW (VIDEO)	
S912	SSG13	SW (No5)	
S913	SSG13	SW (No6)	
S914	SSG13	SW (No7)	
S915	SSG13	SW (No8)	
S916	SSG13	SW (CD)	
S917	SSG13	SW (TAPE)	
S918	SSG13	SW (No1)	
S919	SSG13	SW (No2)	

Ref. No.	Part No.	Part Name & Description	Remarks
S920	SSG13	SW (No3)	
S921	SSG13	SW (No4)	
S922	SSG13	SW (PHONO)	
S923	SSG13	SW (TUNER)	
S924	SSG13	SW (POWER)	
S925	SSG13	SW (LW)	
		RELAY	
RLY701	SSY134	RELAY	

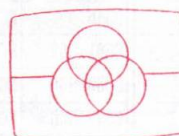
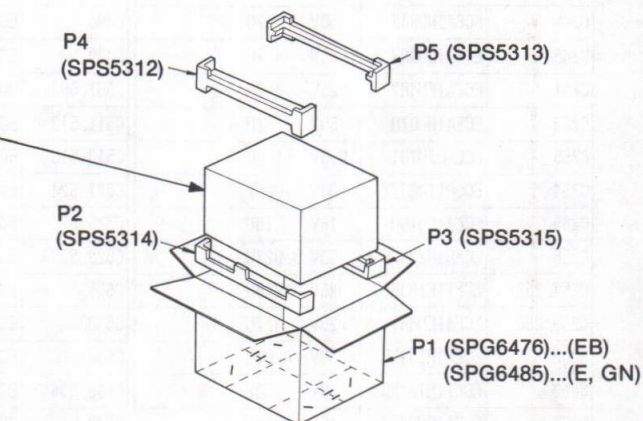
RESISTORS & CAPACITORS

Notes : * Capacity value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS	R236	ERDS2TJ102	1/4W 1.2K	R296	ERDS2TJ472	1/4W 4.7K
			R237	ERDS2TJ332	1/4W 3.3K	R297	ERDS2TJ223	1/4W 22K
			R244	ERDS2TJ103	1/4W 10K	R298	ERDS2TJ103	1/4W 10K
R1	ERDS2TJ104	1/4W 100K	R246	ERDS2TJ153	1/4W 150K	R299	ERDS2TJ473	1/4W 47K
R2	ERDS2TJ470	1/4W 47	R249	ERDS2TJ104	1/4W 100K	R301, 302	ERDS2TJ101	1/4W 100
R3	ERDS2TJ104	1/4W 100K	R252	ERDS2TJ472	1/4W 4.7K	R303, 304	ERDS2TJ104	1/4W 100K
R4	ERDS2TJ824	1/4W 820K	R253	ERDS2TJ224	1/4W 220K	R307, 308	ERDS2TJ394	1/4W 390K
R5	ERDS2TJ391	1/4W 390	R254	ERDS2TJ103	1/4W 100K	R309, 310	ERDS2TJ163	1/4W 16K
R6	ERDS2TJ104	1/4W 100K	R257, 258	ERDS2TJ332	1/4W 3.3K	R313, 314	ERDS2TJ820	1/4W 82
R7	ERDS2TJ684	1/4W 680K	R259, 260	ERDS2TJ272	1/4W 2.7K	R317, 318	ERDS2TJ472	1/4W 4.7K
R8	ERDS2TJ122	1/4W 1.2K	R261, 262	ERDS2TJ273	1/4W 270K	R319, 320	ERDS2TJ221	1/4W 220
R9	ERDS2TJ224	1/4W 220K	R270	ERDS2TJ391	1/4W 390	R321, 322	ERDS2TJ103	1/4W 10K
R10	ERDS2TJ391	1/4W 390	R271	ERDS2TJ104	1/4W 100K	R323, 324	ERDS2TJ472	1/4W 4.7K
R11	ERDS2TJ272	1/4W 2.7K	R272	ERDS2TJ103	1/4W 10K	R325, 326	ERDS2TJ224	1/4W 220K
R12	ERDS2TJ391	1/4W 390	R273	ERDS2TJ104	1/4W 100K	R329	ERDS2TJ223	1/4W 22K
R71	ERDS2TJ681	1/4W 680	R274	ERDS2TJ824	1/4W 8.2K	R330	ERDS2TJ473	1/4W 47K
R72	ERDS2TJ271	1/4W 270	R275	ERDS2TJ471	1/4W 470	R331-334	ERDS2TJ101	1/4W 100
R73, 74	ERDS2TJ681	1/4W 680	R276	ERDS2TJ822	1/4W 8.2K	R335, 336	ERDS2TJ225	1/4W 2.2M
R201	ERDS2TJ102	1/4W 1.2K	R277	ERDS2TJ333	1/4W 33K	R337, 338	ERDS2TJ224	1/4W 220K
R202	ERDS2TJ824	1/4W 820K	R278	ERDS2TJ104	1/4W 100K	R340	ERDS2TJ224	1/4W 220K
R203	ERDS2TJ122	1/4W 1.2K	R279, 280	ERDS2TJ122	1/4W 1.2K	R341, 342	ERDS2TJ103	1/4W 10K
R204	ERDS2TJ824	1/4W 820K	R281	ERDS2TJ103	1/4W 10K	R343	ERDS2TJ473	1/4W 47K
R205	ERDS2TJ391	1/4W 390	R282	ERDS2TJ104	1/4W 100K	R345, 346	ERDS2TJ394	1/4W 390K
R211	ERDS2TJ472	1/4W 4.7K	R283	ERDS2TJ103	1/4W 10K	R347, 348	ERDS2TJ163	1/4W 16K
R212	ERDS2TJ104	1/4W 100K	R284	ERDS2TJ470	1/4W 470	R349	ERDS2TJ102	1/4W 1K
R213	ERDS2TJ101	1/4W 100	R285	ERDS2TJ103	1/4W 10K	R351, 352	ERDS2TJ820	1/4W 82
R214	ERDS2TJ122	1/4W 1.2K	R286	ERDS2TJ684	1/4W 680K	R353, 354	ERDS2TJ472	1/4W 4.7K
R215	ERDS2TJ822	1/4W 8.2K	R287, 288	ERDS2TJ102	1/4W 1K	R355, 356	ERDS2TJ103	1/4W 10K
R219	ERDS2TJ562	1/4W 5.6K	R289	ERDS2TJ471	1/4W 470	R357	ERDS2TJ473	1/4W 47K
R220	ERDS2TJ222	1/4W 2.2K	R290	ERDS2TJ103	1/4W 10K	R358	ERDS2TJ102	1/4W 1K
R221	ERDS2TJ102	1/4W 1.2K	R291	ERDS2TJ470	1/4W 47	R359, 360	ERDS2TJ221	1/4W 220
R232	ERDS2TJ153	1/4W 15K	R292	ERDS2TJ102	1/4W 1K	R361-364	ERDS2TJ223	1/4W 22K
R233	ERDS2TJ561	1/4W 560	R293	ERDS2TJ103	1/4W 10K	R365, 366	ERDS2TJ332	1/4W 3.3K
R234	ERDS2TJ822	1/4W 8.2K	R294	ERDS2TJ222	1/4W 2.2K	R371, 372	ERDS2TJ103	1/4W 10K
R235	ERDS2TJ471	1/4W 470	R295	ERDS2TJ103	1/4W 10K	R373, 374	ERDS2TJ155	1/4W 1.5M

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R377, 378	ERDS2TJ123	1/4W 12K	R631, 632	ERDS2TJ271	1/4W 270	R912	ERDS2TJ331	1/4W 330
R379, 380	ERDS2TJ273	1/4W 27K	R651, 652	ERDS2TJ102	1/4W 1K	R913, 914	ERDS2TJ101	1/4W 100
R381, 382	ERDS2TJ682	1/4W 6.8K	R653, 654	ERDS2TJ821	1/4W 820	R916-919	ERDS2TJ103	1/4W 10K
R383, 384	ERDS2TJ562	1/4W 5.6K	R655, 656	ERDS2TJ222	1/4W 2.2K	R920	ERDS2TJ562	1/4W 5.6K
R385, 386	ERDS2TJ560	1/4W 56	R659, 660	ERDS2TJ103	1/4W 10K	R922	ERDS2TJ122	1/4W 1.2K
R387, 388	ERDS2TJ821	1/4W 820	R663, 664	ERDS2TJ224	1/4W 220K	R923, 924	ERDS2TJ103	1/4W 10K
R389, 393	ERDS2TJ472	1/4W 4.7K	R665, 666	ERDS2TJ122	1/4W 1.2K	R925, 926	ERDS2TJ821	1/4W 820
R394	ERDS2TJ122	1/4W 1.2K	R667	ERDS2TJ472	1/4W 4.7K	R927	ERDS2TJ104	1/4W 100K
R399, 400	ERDS2TJ822	1/4W 8.2K	R669	ERDS2TJ224	1/4W 220K	R928, 929	ERDS2TJ103	1/4W 10K
R401	ERDS2TJ1R0	1/4W 1	R670	ERDS2TJ563	1/4W 56K	R930-935	ERDS2TJ331	1/4W 330
R403	ERDS2TJ100	1/4W 10	R671	ERDS2TJ472	1/4W 4.7K	R936	ERDS2TJ222	1/4W 1.2K
R404	ERDS2TJ562	1/4W 5.6K	R707	ERDS2TJ102	1/4W 1K	R937	ERDS2TJ103	1/4W 10K
R405	ERDS2TJ100	1/4W 10	R708	ERDS2TJ221	1/4W 220	R938	ERDS2TJ104	1/4W 100K
R406	ERDS2TJ152	1/4W 1.5K	R712, 713	ERDS1FVJ1R0T	1/2W 1	R939-942	ERDS2TJ103	1/4W 10K
R407	ERDS2TJ151	1/4W 150	R717	ERDS1FJ152	1/2W 1.5K	R997	ERDS2TJ103	1/4W 10K
R408	ERDS2TJ681	1/4W 680	R718	ERDS2TJ221	1/4W 220	R998	ERDS2TJ472	1/4W 4.7K
R410	ERDS2TJ102	1/4W 1K	R719	ERDS1FVJ1R0T	1/2W 1	R999	ERDS2TJ221	1/4W 220
R446, 447	ERDS2TJ103	1/4W 10K	R720	ERDS2TJ100	1/4W 10			
R448, 449	ERDS2TJ472	1/4W 4.7K	R721	ERDS2TJ153	1/4W 15K			CAPACITORS
R450	ERDS2TJ104	1/4W 100K	R722	ERDS2TJ182	1/4W 1.8K			
R451	ERDS2TJ473	1/4W 47K	R726	ERDS1FJ470	1/2W 47	C1	RCBS1H102KBY	50V 1000P [M]
R452	ERDS2TJ103	1/4W 10K	R727	ERDS1FJ562	1/2W 5.6K	C2-4	RCBS1H3R3KCY	50V 3.3P
R453	ERDS2TJ183	1/4W 18K	R728	ERDS2TJ153	1/4W 15K	C5	RCBS1H180JLY	50V 18P
R454	ERDS2TJ562	1/4W 5.6K	R729, 730	ERDS1FJ470	1/2W 47K	C6	RCBS1H181KBY	50V 180P
R455	ERDS2TJ102	1/4W 1K	R731	ERDS2TJ103	1/4W 10K	C7	ECBS1H1R0MLY	50V 1P
R456	ERDS2TJ222	1/4W 2.2K	R732	ERDS1FJ272	1/4W 2.7K	C8	RCBS1H5R6KCY	50V 5.6P
R498	ERDS2TJ472	1/4W 4.7K	R733, 734	ERDS1FVJ3R9T	1/2W 3.9	C9	RCBS1H102KBY	50V 1000P [M]
R501, 502	ERDS2TJ824TR	1/4W 820K	R736	ERDS1FJ101	1/2W 100	C10	RCBS1H3R3KCY	50V 3.3P
R503, 504	ERDS2TJ822	1/4W 8.2K	R738	ERDS2TJ222	1/4W 2.2K	C11	RCBS1H180JCY	50V 18P
R511, 512	ERDS2TJ822	1/4W 8.2K	R739	ERDS2TJ332	1/4W 3.3K	C12	RCBS1H6R8KCY	50V 6.8P
R521, 522	ERDS2TJ123	1/4W 12K	R741	ERD2FCG151	1/4W 150	C71	ECEA1HU3R3	50V 3.3U
R523, 524	ERDS2TJ471	1/4W 470	R743	ERDS1FJ151	1/2W 150	C72	ECEA1CU220	16V 22U
R525, 526	ERDS2TJ183	1/4W 18K	R744	ERDS1FJ271	1/2W 270	C73	ECEA1HU010	50V 1U
R527, 528	ERDS2TJ391	1/4W 390	R745	ERDS2TJ221	1/4W 220	C74	ECEA1CU470	16V 47U
R531, 532	ERDS2TJ151	1/4W 150	R746	ERDS2TJ562	1/4W 5.6K	C201, 202	ECKF1H103ZF	50V 0.01U
R533-535	ERDS2TJ103	1/4W 10K	R750, 751	ERD2FCG120	1/4W 12	C204	RCBS1H181KBY	50V 180P
R539, 540	ERDS2TJ224	1/4W 220K	R752, 753	ERDS1FVJ470	1/2W 47	C205	ECKF1H103ZF	50V 0.01U
R541, 542	ERDS2TJ821	1/4W 820	R754, 755	ERDS1FJ101	1/2W 100	C206	ECFT1E104MD	25V 0.1U
R543, 544	ERDS2TJ103	1/4W 10K	R756	ERDS2TJ562	1/4W 5.6K	C212	ECFT1E473KDY	25V 0.047U
R549, 550	ERDS2TJ104	1/4W 100K	R757	ERDS1FJ6R8	1/2W 6.8	C213	RCBS1H180JCY	50V 18P
R551, 552	ERDS2TJ102	1/4W 1K	R758	ERDS1FJ152	1/4W 1.5K	C214	ECQP1471JZT	100V 470P
R561, 562	ERDS2TJ472	1/4W 4.7K	R901	ERDS2TJ102	1/4W 1K	C218	ECKF1H103ZF	50V 0.01U
R563, 564	ERDS2TJ103	1/4W 10K	R902	ERDS2TJ105	1/4W 1M	C219	ECEA50M1	50V 1U
R565	ERDS2TJ223	1/4W 22K	R903	ERDS2TJ563	1/4W 56K	C230	ECKF1H103ZF	50V 0.01U
R566	ERDS2TJ153	1/4W 15K	R904	ERDS2TJ123	1/4W 12K	C231	ECEA1CU100	16V 10U
R568	ERDS1FJ100	1/2W 10	R905	ERDS2TJ103	1/4W 10K	C233	ECEA1HU010	50V 1U
R595, 596	ERDS2TJ151	1/4W 150	R906	ERDS2TJ394	1/4W 390K	C234	ECEA1CU100	16V 10U
R597, 598	ERDS2TJ472	1/4W 4.7K	R907	ERDS2TJ681	1/4W 680	C235	ECEA0JU101	6.3V 100U
R599	ERDS2TJ102	1/4W 1K	R908	ERDS2TJ104	1/4W 100K	C236	RCBS1H8R2KCY	50V 8.2P
R601, 602	ERDS2TJ102	1/4W 1K	R909	ERDS2TJ102	1/4W 1K	C237	RCBS1H470JLY	50V 47P
R603, 604	ERDS2TJ331	1/4W 330	R910	ERDS2TJ222	1/4W 2.2K	C238	ECEA1EU4R7	25V 4.7U
R607, 608	ERDS2TJ3R9	1/4W 3.9	R911	ERDS2TJ103	1/4W 10K	C240	RCBC1H101KBY	50V 100P

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C241	RCBS1C103MY	16V 0.01U	C408	ECEA1HU010	50V 1U	C718-721	ECEA1CU101	16V 100U
C242, 243	ECKD1H223PF	50V 0.022U	C435	ECEA1CU330	16V 33U	C723	ECKT1H682KB	50V 6800P
C244	RCBS1C103MY	16V 0.01U	C438	ECEA1CU101	16V 100U	C724	ECEA1CU470	16V 47U
C246	ECEA1HUR47	50V 0.47U	C498	ECFT1E104MD	25V 0.1U	C725	ECEA1CU101	16V 100U
C248	ECEA1EU47	25V 4.7U	C499	ECQP1272JZ	100V 2700P	C727	ECKR2H103ZU	500V 0.01U
C251	ECEA1EU47	25V 4.7U	C501, 502	RCBC1H120JCY	50V 12P	C728	ECKT1H682KB	50V 6800P
C252	ECEA1HU010	50V 1U	C511, 512	ECFT1E104MD	25V 0.1U	C729	ECEA1CU101	16V 100U
C253	ECEA0JU101	6.3V 100U	C513-515	RCBC1H470JLY	50V 47P	C730	ECEA1CU100	16V 10U
C254	ECQP1102JZT	100V 1000P	C521-524	ECEA1EU47	25V 4.7U	C731	ECEA1CU101	16V 100U
C255	ECEA1CU100	16V 10U	C525, 526	ECKF1H103ZF	50V 0.01U	C732	ECEA1HU331B	50V 330U
C256	ECKD1H223PF	50V 0.022U	C529, 530	ECFT1E333KDY	25V 0.033U	C733	ECEA1VU100	35V 10U
C257, 258	ECFT1E183KDY	25V 0.018U	C531	ECEA1HSR33	50V 0.33U	C735	ECKR2H103ZU	500V 0.01U
C259, 260	ECEA1EU47	25V 4.7U	C533	ECEA0JU101	6.3V 100U	C736	ECEA1HS102	50V 1000U
C262	ECKF1H103ZF	50V 0.01U	C534	ECEA1CU100	16V 10U	C737	ECEA1CU330	16V 33U
C263	ECKT1H151KBY	50V 150P	C535, 536	ECEA1HSR33	50V 0.33U	C739	ECKT1H682KB	50V 6800P
C272	ECEA1CU330	16V 33U	C540	RCBC1H101KBY	50V 100P	C740	ECEA1AU101	10V 100U
C273, 274	RCBS1H150JCY	50V 15P	C541	RCBC1H101KBY	50V 100P	C741	ECEA1CU100	16V 10U
C276	RCBS1H102KBY	50V 1000P [M]	C545	RCBC1H101KBY	50V 100P	C750	ECQM1104KZW	100V 0.1U
C277	ECEA1CU330	50V 33U	C546	RCBC1H101KBY	50V 100P	C751	ECQM1H473JZ	100V 0.047U
C278	RCBS1H102KBY	50V 1000P [M]	C561, 562	ECEA1CK470	16V 47U	C752	ECFT1E104MD	25V 0.1U
C279	RCBS1H181KBY	50V 180P	C563, 564	ECFT1E473KDY	25V 0.047U	C753	ECFD1H104MDY	50V 0.1U
C280, 281	ECKF1H103ZF	50V 0.01U	C565, 566	ECEA1HCR68	50V 0.68U	C755	RCBS1H331KBY	50V 330P
C282	RCBS1H180JLY	50V 180P	C567, 568	ECFT1E153KDY	25V 0.027U	C756	RCBS1H331KBY	50V 330P
C283	ECEA1HU3R3	50V 3.3U	C569, 570	ECEA1HCR22	50V 0.22U	C901, 902	ECEA0JU102E	6.3V 1000U
C298	RCBS1C103MY	16V 0.01U	C571, 572	ECFT1E472KDY	25V 4700P	C903	ECEA1HU010	50V 1U
C299	ECQP1391JZ	100V 390P	C573, 574	ECFD1E333KD	25V 0.033U	C904	ECEA0JU101	6.3V 100U
C301, 302	RCBC1H561KBY	50V 560P	C575, 576	ECKD1H152KB	50V 1500P	C905	RCBS1H331KBY	50V 330P
C305, 306	ECFT1E822KDY	25V 8200P	C577, 578	ECFT1E223KDY	25V 0.022U	C907	ECEA0JK221B	6.3V 220U
C307, 308	ECEA1CU470	16V 47U	C579, 580	RCBC1H561KBY	50V 560P	C908	RCBS1C103MY	16V 0.01U
C309, 310	ECEA1EU47	25V 4.7U	C581, 582	ECFT1E822KDY	25V 8200P	C910	RCBS1C103MY	16V 0.01U
C311, 312	ECEA1CU470	16V 47U	C583, 584	RCBS1C152MXY	16V 1500P	C911-913	ECEA1HK3R3	50V 3.3U
C313, 314	ECFT1E103KDY	25V 0.01U	C585-588	ECEA1EK47	25V 4.7U	C914	ECEA1VK100B	35V 10U
C315	ECEA1EU47	25V 4.7U	C589, 590	ECEA1CKS100	16V 10U	C915	ECKF1H103ZF	16V 22U
C317, 318	ECKD1H122KB	50V 1200P	C591, 592	ECFD1E333KD	25V 0.033U	C916	ECEA0JS102	6.3V 1000U
C319, 320	RCBS1H681KBY	50V 680P	C597, 598	RCBS1H181KBY	50V 180P	C917, 918	RCBS1H102KBY	50V 1000P [M]
C321	ECKF1H103ZF	50V 0.01U	C599	ECFT1E392KDY	25V 3900P	C919, 920	RCBS1C103MY	16V 0.01U
C323, 324	ECFT1E822KDY	25V 8200P	C601, 602	ECEA1HU010B	50V 1U	C922	RCBS1H331KBY	50V 330P
C325, 326	ECEA1CU470	16V 47U	C605, 606	ECEA1AU101	10V 100U	C923	ECQV1H105JZ	50V 1U
C327-329	ECEA1EU47	25V 4.7U	C607, 608	ECEA1CU470	16V 47U	C924	RCBS1H331KBY	50V 330P
C330	ECKT1H103ZF	50V 0.01U	C609, 610	ECEA1AU471	10V 470U	C991	RCBS1C103MY	16V 0.01U
C331, 332	ECEA1CU470	16V 47U	C611	ECEA1EU471B	25V 470U	C992	RCBC1H101KBY	50V 100P
C341, 342	RCBS1H820KBY	50V 82P	C613, 614	ECFT1E104MD	25V 0.1U	C993	RCBS1C103MY	16V 0.01U
C343, 344	ECKT1H121KB	50V 120P	C615	ECKF1H103ZF	50V 0.01U	C994	RCBC1H101KBY	50V 100P
C345, 346	RCBS1H102KBY	50V 1000P [M]	C651, 652	ECEA1HU010	50V 1U	C996	RCBS1C103MY	16V 0.01U
C347, 348	ECEA1HU010	50V 1U	C653, 654	RCBS1H681KBY	50V 680P	C997	RCBS1C103MY	16V 0.01U
C349, 350	ECFT1E272KDY	25V 2700P	C655, 656	ECEA1CU100	50V 10U	C998	RCBC1H101KBY	50V 100P
C351, 352	ECEA1HSR33	50V 0.33U	C661, 662	ECKF1H103ZF	50V 0.01U	C999	RCBC1H101KBY	50V 100P
C353-356	ECFT1E153KDY	25V 0.015U	C666	ECEA0JU101	6.3V 100U			
C359, 360	ECKF1H103ZF	50V 0.01U	C707-710	ECKF1H103ZF	50V 0.01U			
C402	ECQP1183JZT	100V 0.018U	C712	ECEA1ES332	25V 3300U			
C403	ECQP1472JZT	100V 4700P	C713	ECKT1H682KB	50V 6800P			
C404	ECFT1E272KDY	25V 2700P	C714	ECEA1CU101	16V 100U			



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