AKAI SERVICE MANUAL

• The above illustration shows the AC-620 model.

COMPACT disc DIGITAL AUDIO

DOLBY B NR

DOLBY SURROUND PRO • LOGIC

MINI STEREO COMPONENT SYSTEM

MODEL **AC-420/423R/425K**

MODEL **AC-620/623R/625K**

MODEL **SR-425**

CONTENTS

SAFETY INSTRUCTIONS 2

INFORMATIONS 3

SPECIFICATIONS 4

CONTROLS 6

I. DISASSEMBLY 8

II. PRINCIPAL PARTS LOCATION 9

III. DISASSEMBLY OF MAIN COMPONENTS 11

IV. MECHANICAL ADJUSTMENT 16

V. ELECTRICAL ADJUSTMENT 17

VI. PARTS LIST 19

VII. ABBREVITIONS 35

SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol parts are critical for safety. Replace them only with parts whose numbers are specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selection switches, RF cables, noise-blocking capacitors, noise-blocking filters, etc.
3. Use specified internal Wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulating Tape
   2) PVC tubing
   3) Spacers (insulating barriers)
   4) Insulating sheets for transistors
   5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitor, etc.), wrap ends of wires securely about the terminals before soldering.

6. Make sure that wires do not contact heat generating parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)
7. Check if replaced wires do not contact sharply edged or pointed parts.
8. Also check areas surrounding repaired parts.
9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.
Please leave them at an appropriate depot

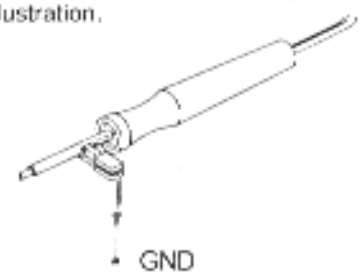
SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to check if exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts, (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohm paralleled with a 0.15 μF capacitor, under the unit's normal working condition.
The leakage-current should be less the 0.5mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch "ON" (if included). The resistance should be more than 2.2Mohms.

PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points

1. Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
2. When the base is removed for repair or adjustment. Make sure that there are no metal objects between the P.C board or the mecha parts and the base.
3. The Micro-Computer and the CD signal processing ICs may be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.



4. Do not loosen any screws in the pick-up block. Please refer to NOTE when replacing the pick up block.
5. To avoid hazardous invisible Laser Radiation, do not look at the Laser Beam (Objective lens) directly.
6. On model for some countries, laser warning labels are affixed on and inside of the unit as shown below. For your safety, read these labels carefully before repairing or adjusting the unit.

CAUTION

The use of controls or adjustments or the performance of procedures other than those specified herein may result in hazardous radiation.

[EUROPE, SCANDINAVIA, UK and AUSTRALIA]

Label affixed on the rear panel of the unit

Label affixed on the CD MECHA BLOCK

INFORMATION

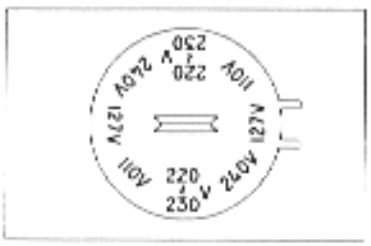
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbol	Principal Destination
[A]	USA
[B]	UK
[E]	Europe (except, UK)
[S]	Australia
[V]	Germany
[U]	Universal
[Y*]	Custom version

VOLTAGE CONVERSION([U] [Y] Model only)

Before connecting the power cord, set the VOLTAGE SELECTOR located on the rear panel of the AC-425K/625K so that the correct voltage for your area is indicated.



[U5,U8, Y6, Y7]

TEST MODE

Various kind of test modes are installed in this unit's microcomputer in order to test them on the production line. Following test modes among the various test modes can be used for adjustment, operation check or maintenance. To terminate the test mode, simply press the "POWER ON/STANDBY " button or disconnect the AC power cord from the AC outlet.

1. DECK TEST MODE

This test mode can be used for tape speed adjustment as well as bias oscillator frequency adjustment in TAPE DECK section.

While pressing and holding the "TAPE II" and "▶" (F) buttons, connect the AC power cord to AC outlet. The function turns to "TAPE I" and "DUBX1" as well as " "T P I 0 0 0 0" indicators on the FLD light when this mode is engaged

2. DECK CLEANING MODE

This test mode can be used for cleaning of the TAPE DECK mechanism

Because, this mode enables engaging of the playback, fast forward (FF), and rewind (RWD) modes without a cassette tape, it makes the cleaning (such as the capstan shaft, magnetic head, pinch roller etc.) easier.

While pressing and holding the "TAPE I" and "◀ II" (F) button, connect the AC power cord to the AC outlet. The tape run indicator lightwithout the cassette tape when this mode is engaged.

SPECIFICATIONS

[Tuner Section]

Frequency range

FM ..... 87.5-108MHz(50KHz step)
MW ..... 530-1710KHz(U8)
531-1602KHz (except U8)
LW ..... 144-288KHz(1KHz step) (E1/E2/E3/B1 only)
SW ..... 3.8-12.5MHz(5KHz step) (Y7 only)

USABLE SENSITIVITY

FM ..... 16.2dBf IHF,3%THD (except E1/E2/E3/B1)
20.2dBf IHF,3%THD (E1/E2/E3/B1)
MW 500uV/m
LW 800uV/m
SW 800uV/m

S/N Ratio(IHF)

FM ..... MONO 75dB, STEREO 65dB
MW 40dB
LW 30dB
SW 30dB
Stereo separation ..... 40dB(at 1KHz)

[AMPLIFIER Section]

Power output ..... (AC-420/423R/425K) 50W+50W(6ohms, 10%THD, EIAJ)
40W+40W (6ohms, 1%THD, DIN)
(AC-620/623R/625K) 30W+30W(6ohms, 10%THD, EIAJ)
25W+25W (6ohms, 1%THD, DIN)

Input sensitivity (AUX IN) 310mV/47KΩ

channel separation 70dB

Frequency response ..... 10Hz-100KHz(-3dB)

[DECK SECTION]

Track system ..... 4track, 2channel system
Frequency response ..... 40Hz-15KHz (Normal tape, ±3dB)
40Hz-16KHz(Cro2 tape, ±3dB)
Wow & Flutter ..... 0.09% (WRMS), 0.15%(DIN)
S/N ratio ..... Dolby B 63dB (5KHz)
Dolby off 53dB (Cro2 tape)
Total harmonic distortion ..... less than 0.5%(normal tape at 315Hz)
Channel separation 43dB

[CD SECTION]

Pick up system	3Beam Laser
Sampling frequency	44.1KHz
Error correction system	Cross interleave read solomon
Number of channels	2Channe
Frequency response	20Hz-20KHz
Wow & Flutter	Below measurable limits
S/N ratio	83dB
Total harmonic distortion	0.035% (at 1KHz)
Channel separation	73dB(at 1KHz)
Dynamic range	82dB (at 1KHz)

[GENERAL]

Power requirement	
E1/E2/E3/B1/S1	AC 220-230V/50Hz
U5/U8/Y6/Y7	AC110/127/220-230/240V, 50/60Hz
Power consumption	110W/AC-420/423R/425K, 130W/AC-620/623R/625K
Weight	8.2Kg/AC-420/423R/425K, 8.2Kg/AC-620/623R/625K

[SPEAKER SECTION]

ITEM	SR-425
System Constructions	3-way 3-speakers
Woofer Unit	135mm Cone type
Midrange Unit.	65mm Cone type
Tweeter Unit	20mm dome type (piezo)
System Impedance	6Ω
Maxium Power Input	80w
Sensitivity	more than 87dB/w/m
Frequency Response	60Hz-20KHz
Harmonic Distortion	less than 3%
Enclosure Type	bass reflex type
Units Layout	L/R mirror layout
Dimensison	200(W)X305(H)X265(D)
Net Weight	3.6Kg/pc

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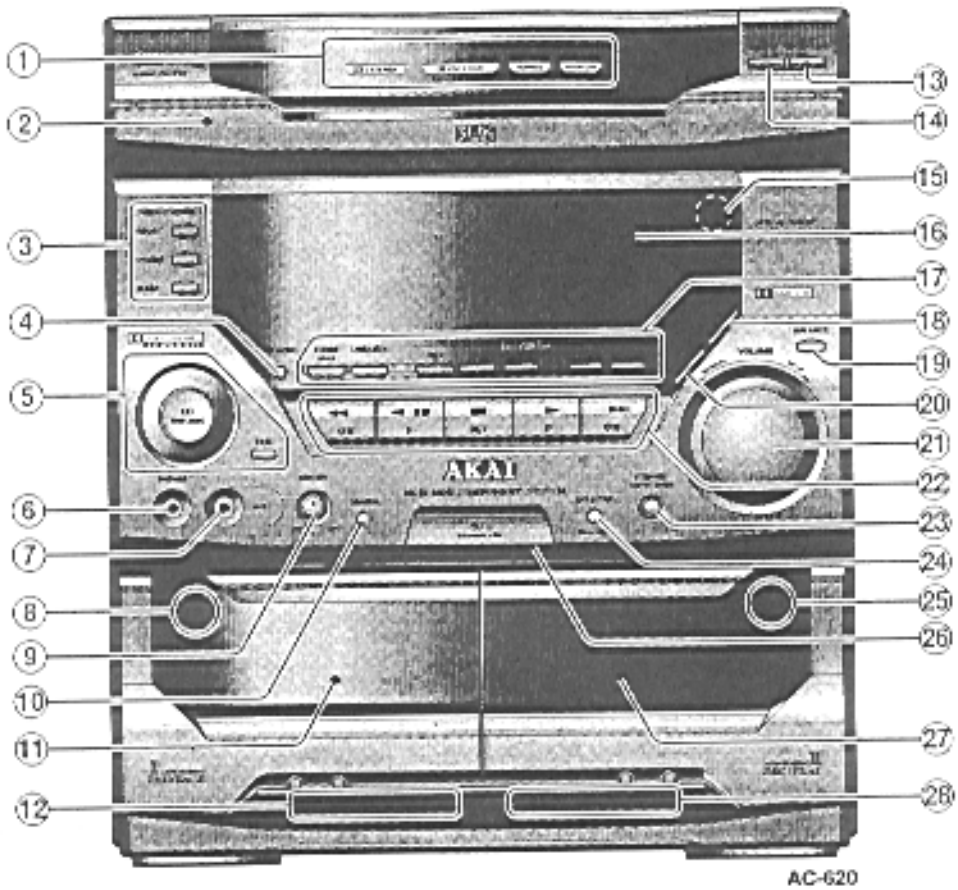
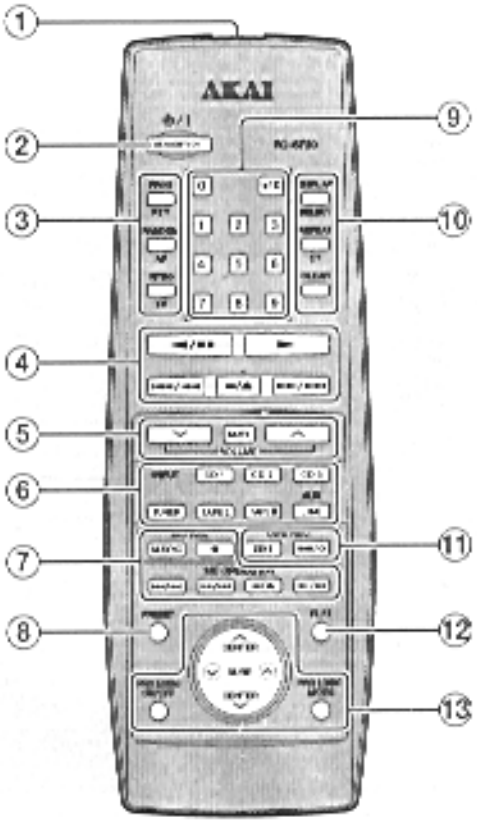
A MAIN UNIT



AC-620

1. PRO LOGIC mode indicators (AC-620/623R/625K)
   - 3 STEREO indicators
   - PRO LOGIC - NORMAL indicaators
   - PROG logic - PHANTOM indicators
2. Disc tray
3. TIMER CONTROL buttons
   - PROG button
   - ON/OFF button
   - SLEEP button
4. CH MEMO button
5. DOLBY PROG LOGIC operation buttons(AC-620/623R/625K only)
   - PROG LOGIC on/off button
   - TEST button
6. PHONES jack
7. MIC jack
8. Tape deck I PUSH OPEN button
9. Mixing control
10. Dimmer button
11. Tape deck I cassette compartment
12. Tape deck I direction indicator and transportation indicator
13. TRAY OPEN/CLOSE button
14. DISC CHANGE button
15. Remote sensor
16. System FL display
17. Input source select buttons(AUX is not included on the AC-420/423R/425K models) TUNER BAND, LINE/AUX, CD1, CD2, CD3, TAPE I, TAPE II
18. DUB SPEEDx1/x2 button
19. BALANCE button
20. REC button
21. Volume control
22. Multi-function buttons
23. DYNAMIC SUPER BASS button
24. DOLBY NR button
25. Tape deck II PUSH OPEN button
26. STANDBY/ POWER ON button
27. Tape deck II cassette compartment
28. Tape deck II direction indicator and transportation indicator

B Remote Control



RC-S720

When using the remote control for operation, make sure that it is pointing to the remote sensor window on the main unit.

1. Transmitting window
2. ⏻/I POWER ON/STANDBY button
3. CD operation buttons/RDS buttons
   (The RDS function is only available on the AC-423R/623R)
4. Multi-function buttons
5. VOLUME buttons
6. Input source select buttons
7. MD operation buttons
   - M-SYNC buttons
   - ● REC button
   - ⏮/◀◀ buttons
   - ▶▶/⏭ buttons
   - ■/⏏ buttons
   - ▶/❚❚ buttons
8. PRESET button
9. CD/TUNER 11 KEY buttons
10. CD operation buttons/RDS buttons
    (The RDS function is only available on the AC-423R/623R)
11. TAPE REC buttons
    - I●I/O REC/PAUSE button
    - EDIT button
12. FLAT button
13. PRO LOGIC operation buttons
    - PROG LOGIC ON/OFF buttons
    - PROG LOGIC MODE button
    - CENTER ^/v buttons
    - SURRound ^/v buttons

* These PROG LOGIC operation buttons are not included on the RC-S520 remote control (for AC-420/423R/425K model operation)
These MD operation buttons can only be used if you have connected the optional MD recorder (MD-720).

Note:
The remote control can not be used for some functions that require the combined pressing of two tape transportation buttons (intro scan or auto play for example). Please Use the Main unit's multi-function buttons for the operation of such functions.

I. DISASSEMBLY

1-1. REMOVE OF MAIN COVER

1) Remove the seven screws on back and six screws on both sides.
2) Remove the MAIN COVER

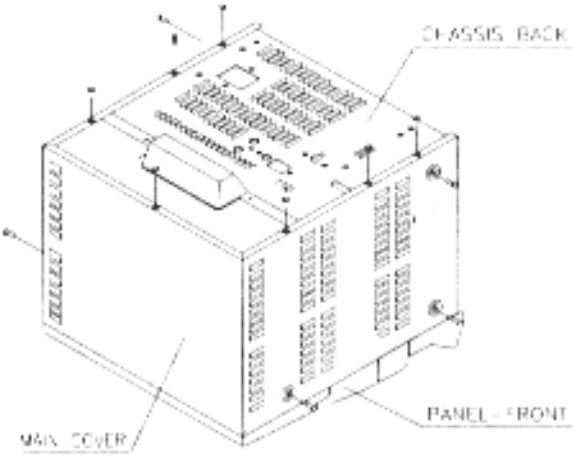


Fig. 1-1

1-2. REMOVE OF CD MECHA & FRONT PANEL

1) Remove the CD door
2) Remove the four screws (A) on both sides and disconnect three connectors and the flat cable from the TC-DK P.C.B
3) Remove the CD player block
4) Remove the three screws (B) and two screws (C) on both sides.
5) Remove the FRONT PANEL

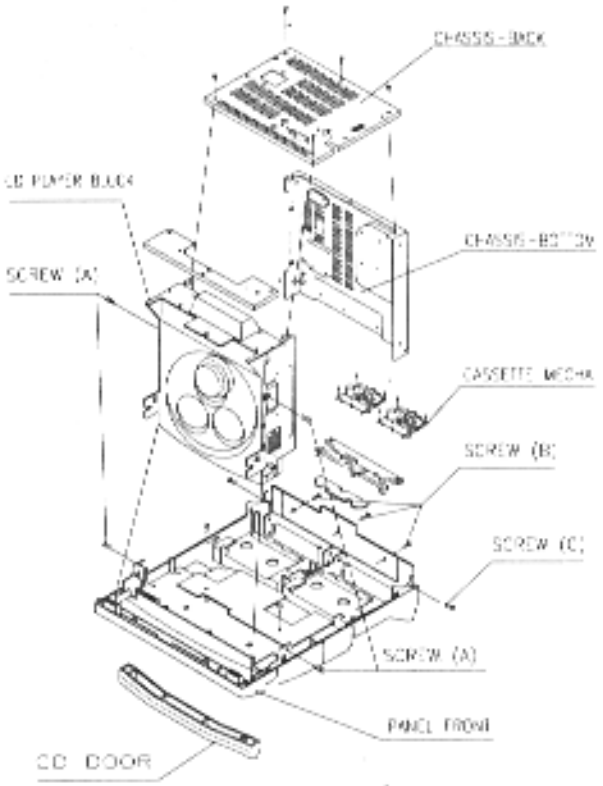


Fig. 1-2

II. PRINCIPAL PARTS LOCATION

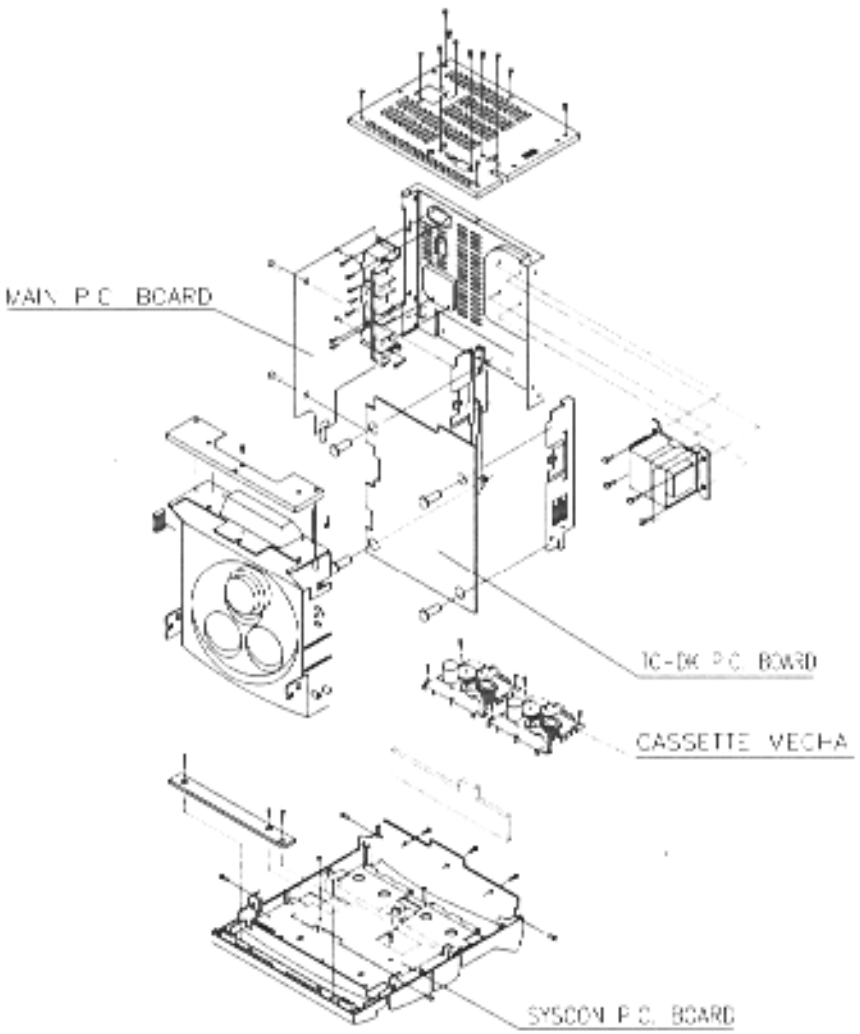


Fig. 2-1

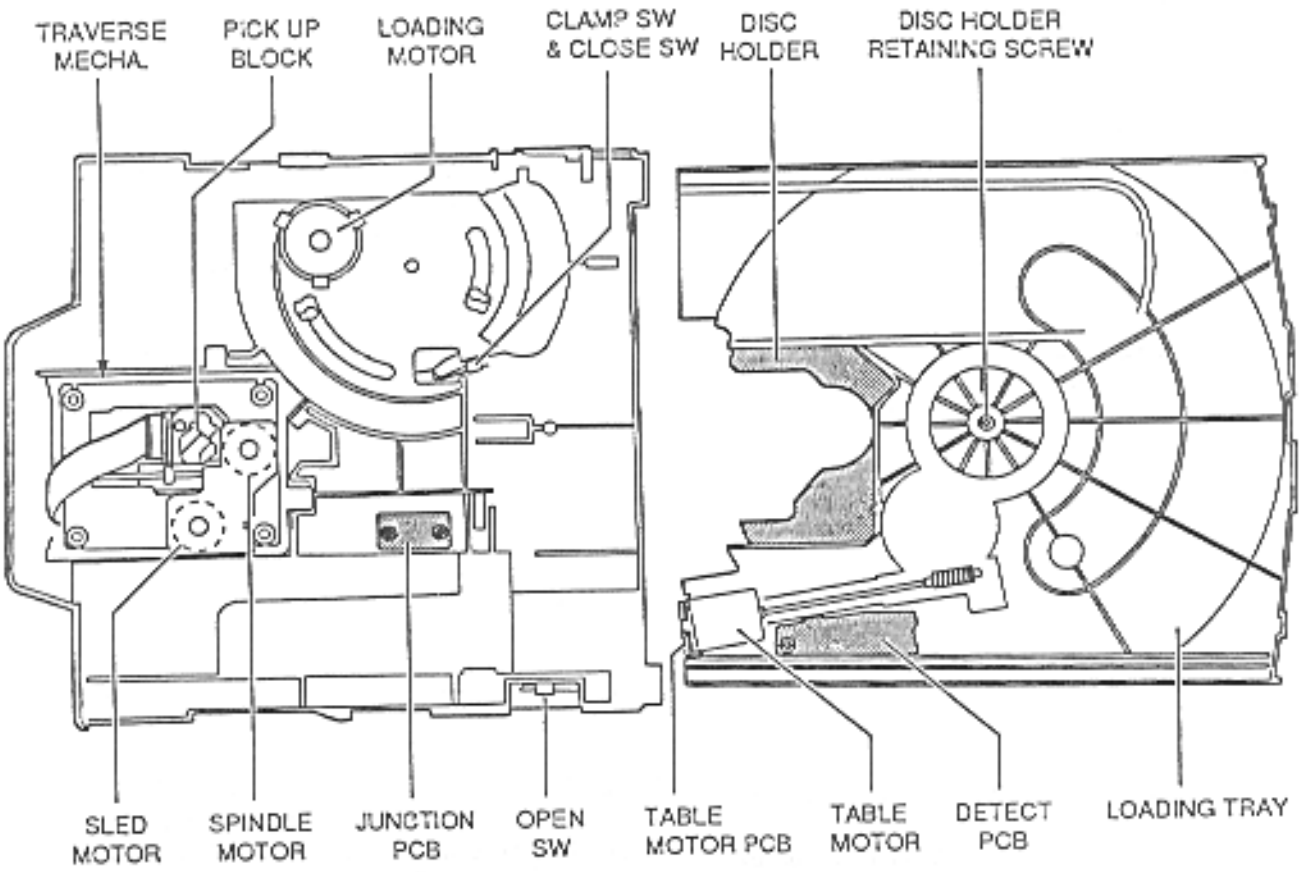


Fig. 2-2 CD PLAYER BLOCK

III. DISASSEMBLY OF THE MAIN COMPONENTS

3-1. CD PLAYER BLOCK

* Remove the CD PLAYER BLOCK before proceeding.

3-1-1. Removal of the TRAVERSE MECHA.

1) Remove the TRAVERSE COVER by releasing the two tabs in the direction of the arrow as shown in Fig. 3-1.

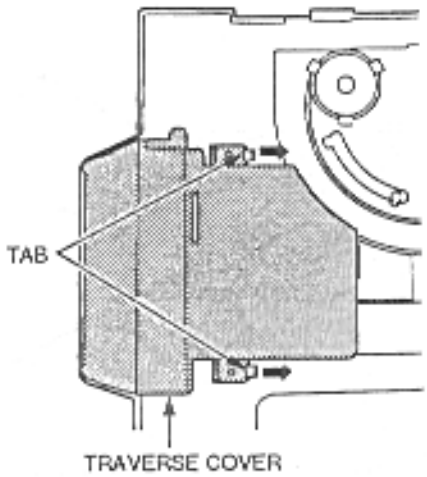


Fig. 3-1

2) Short the circuit on the PICK UP BLOCK with solder as shown in Fig. 3-2.

Note: To protect the laser diode from damage caused by high voltage static electricity, a part of the PCB on the PICK UP BLOCK has to be shorted before disconnecting the connectors. After replacement, be sure to connect the two connectors and then remove the solder of the shorted circuit before turning the power ON.

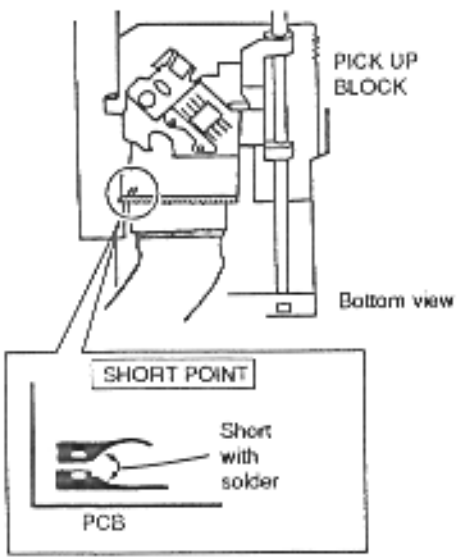


Fig. 3-2

3) Disconnect the two connectors carefully.

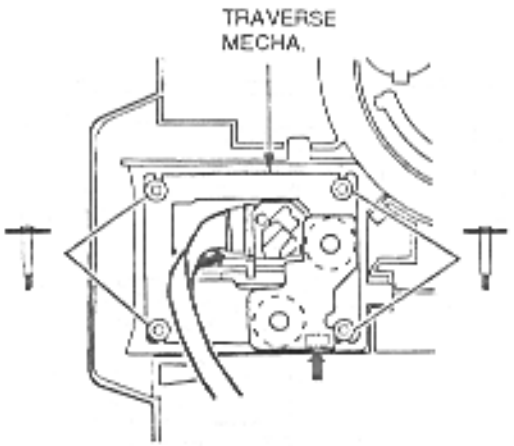


Fig. 3-3

4) Remove the four retaining screws, then remove the TRAVERSE MECHA.

5) Proceed in the reverse order for installation but never unsolder the shorted circuit before connecting the three connectors.

3-1-2. Replacement of the SLED MOTOR

1) Remove the TRAVERSE MECHA (refer to section 3-1-1).

2) Unsolder the leads of the SLED and SPINDLE MOTORs then remove the MOTOR PCB.

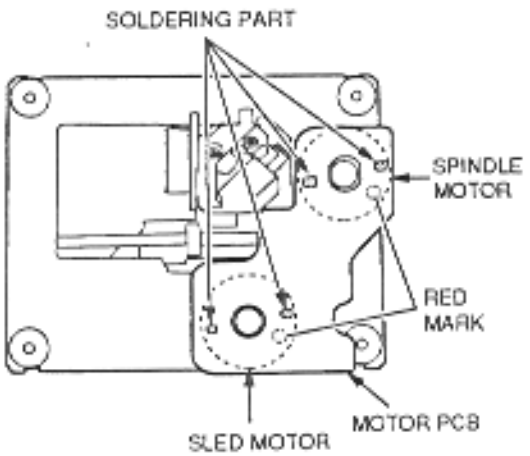


Fig. 3-4

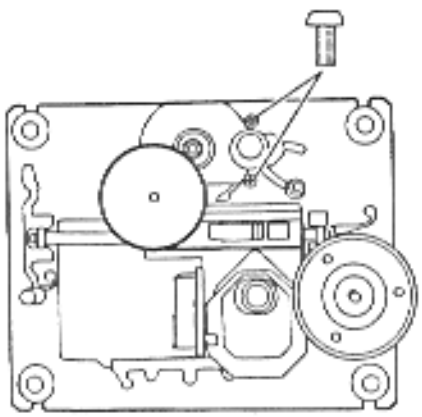


Fig. 3-5

3) Remove the two retaining screws, then remove the SLED MOTOR.
Next, extract the plastic gear from the motor shaft and attach it onto the new motor's shaft.
4) Reassemble in the reverse order.

About the SPINDLE MOTOR:
Replacement of the SPINDLE MOTOR itself is not recommended, because adjustment of the TURN TABLE height is quite critical and requires the use of a special jig.

3-1-3. Replacement of the PICK UP BLOCK

1) Remove the TRAVERSE MECHA (refer to section 3-1-1).
2) While pressing the Ⓐ stopper upwards, pull the SLIDE SHAFT to the right to remove the PICK UP BLOCK, then replace the PICK UP BLOCK.

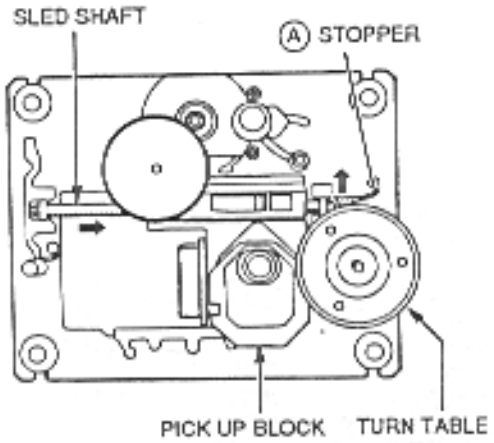


Fig. 3-6

3) Reassemble in the reverse order.

3-1-4. Replacement of the LOADING MOTOR

1) Slide the protruding part of the GEAR HOLDER PART in the direction of the arrow, then pull out the TRAY BLOCK.

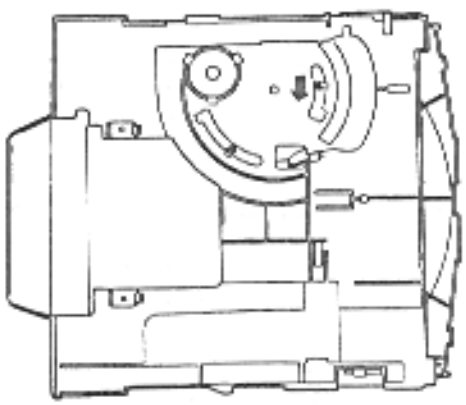


Fig. 3-7

2) Unhook the LOADING BELT with tweezers.

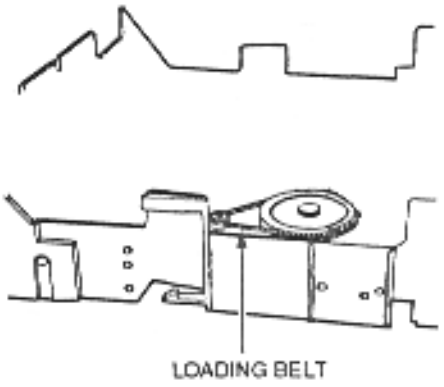


Fig. 3-8

3) Unsolder the lead wires of the LOADING MOTOR with a soldering iron.
4) While releasing the LOADING MOTOR's three retaining hooks, push the motor pully part down with your middle finger to remove the LOADING MOTOR, then replace it.

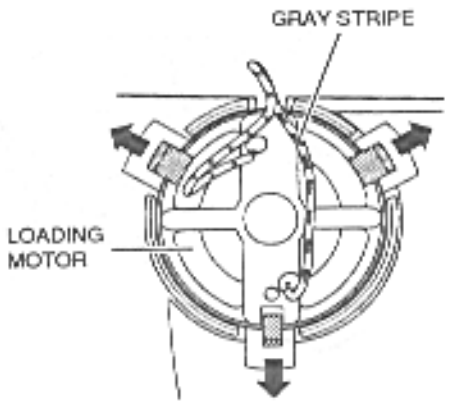


Fig. 3-9

5) Reassemble in the reverse order. Make sure that the wire with the gray stripe is connected to the motor's O marked terminal when soldering.

3-1-5. Removal of the TRAY BLOCK

1) If the TRAY BLOCK is in the "in" position, slide the protruding part of the GEAR HOLDER PART in the direction of the arrow and pull out the TRAY BLOCK slowly (refer to Fig. 3-7).
2) In order to disengage the two stoppers, carefully press the Ⓐ part of the TRAY BLOCK downwards while pulling the TRAY BLOCK out as shown in Fig. 3-10.

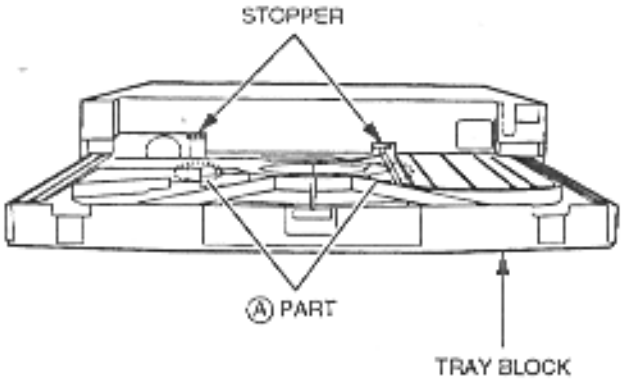


Fig. 3-10

4) Remove the TRAY BLOCK by pulling it out carefully.
5) Reassemble in the reverse order for installation. When reattaching the TRAY BLOCK to the chassis, carefully align the guides on both sides of the TRAY BLOCK with their corresponding rails on the chassis. Also, make sure that any one of the reference marks on the DISC HOLDER aligns with the reference mark on the LOADING TRAY.

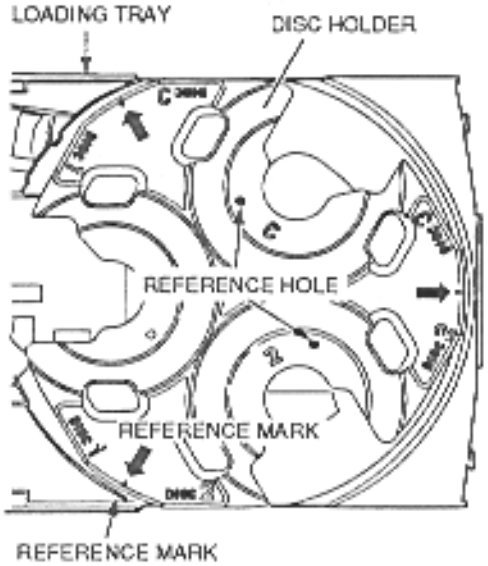


Fig. 3-11

Next, move the head of the GEAR HOLDER PART in the direction of the arrow before engaging the stoppers as shown in Fig. 3-12.

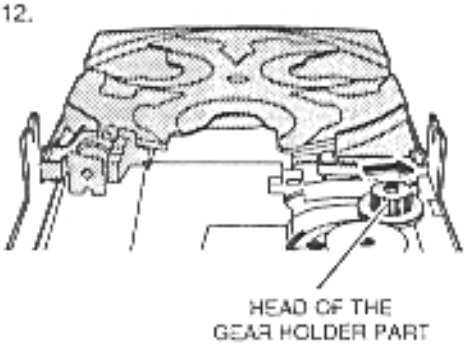


Fig. 3-12

3-1-6. Replacement of the TABLE MOTOR

1) Remove the TRAY BLOCK (refer to section 3-1-5).
2) Remove the DISC HOLDER retaining screw then remove the DISC HOLDER.

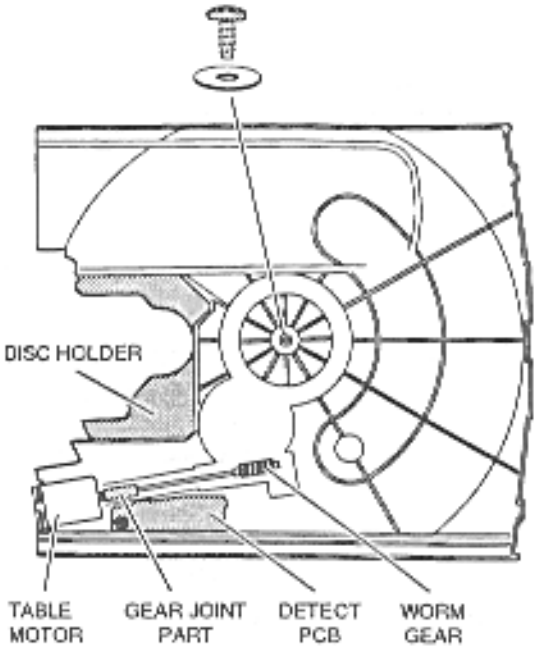


Fig. 3-13

3) Unsolder the leads of the TABLE MOTOR and remove the TABLE MOTOR PCB.

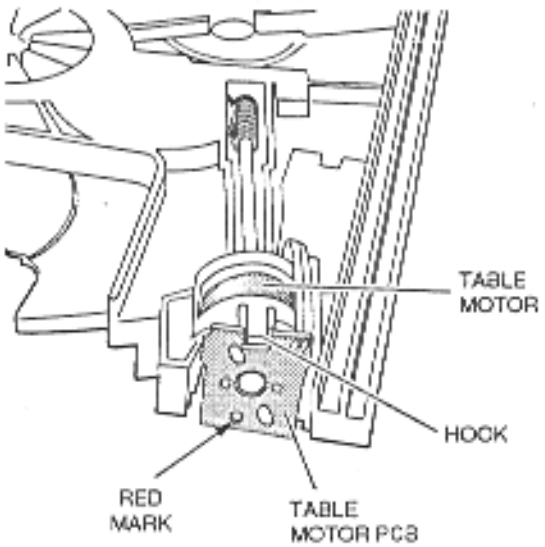


Fig. 3-14

4) Remove the TABLE MOTOR by pulling it out while opening the TABLE MOTOR retaining hook. Next, remove the WORM GEAR BLOCK by pulling the GEAR JOINT PART out and attach it to the new motor as shown in Fig. 3-13.
5) Reassemble in the reverse order.
   - When soldering the TABLE MOTOR PCB on the TABLE MOTOR, the TABLE MOTOR's red mark must be visible through the hole on the TABLE MOTOR PCB.
   - When attaching the DISC HOLDER on the LOADING TRAY, make sure to place the DISC HOLDER so that any one of the three reference marks aligns with the reference mark on the LOADING TRAY (any two reference holes on the DISC HOLDER align with the corresponding reference holes on the LOADING TRAY accordingly). (Refer to Fig. 3-11)

3-2. TAPE-I & TAPE-II MECHANISM BLOCK

* If CASSETTE MECHANISM BLOCK removal is intended, press both the "EJECT" buttons on the FRONT PANEL to open the CASSETTE HOLDERs and CASSETTE DOOR before proceeding (AC-600/603R/605K only).

3-2-1. Removal of the MECHANISM BLOCK

1) Remove the FRONT PANEL BLOCK.
2) Remove the four screws for each of the TAPE-I and TAPE-II MECHANISM BLOCKs then remove the MECHANISM BLOCKs from the FRONT PANEL BLOCK.

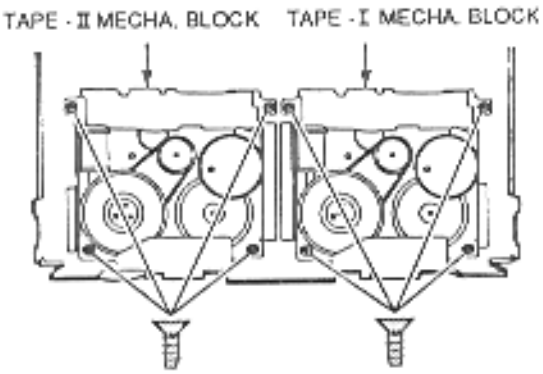


Fig. 3-15

3-2-2. Replacement of the CAPSTAN MOTOR

NOTE : After replacement, tape speed adjustment must be performed.

1) Unsolder the flat cable on the CAPSTAN MOTOR with a soldering iron.
2) While pressing the INTER-LOCK LEVER in the direction of the arrow, remove the two Ⓑ screws and then remove the CAPSTAN MOTOR.

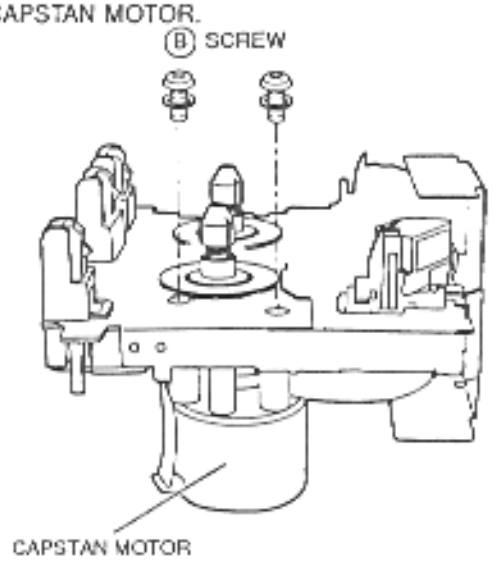


Fig. 3-16

3) Install a new motor and re-assemble in the reverse order for installation.

3-2-3. Replacement of the FR BELT

1) Unthread the MAIN BELT and replace the FR BELT as shown in Fig. 3-17.
2) Proceed in the reverse order for installation.

3-2-4. Replacement of the MAIN BELT

1) Remove the CAPSTAN MOTOR
2) Replace the MAIN BELT and re-assemble in the reverse order for installation.

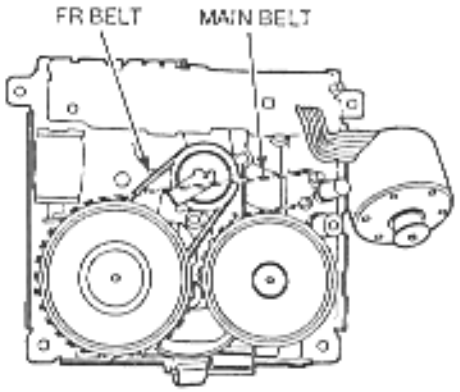


Fig. 3-17

3) After replacement, check the tape speed and if the result is not satisfactory, tape speed adjustment must be performed.

3-2-5. Replacement of the PINCH ROLLER BLOCK

1) Extract the PINCH ROLLER BLOCK upwards while releasing the pinch roller retaining hook in the direction of the arrow.

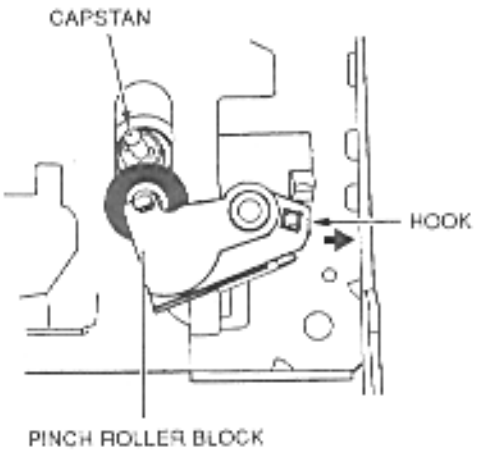


Fig. 3-18

2) Replace the PINCH ROLLER BLOCK and re-assemble in the reverse order. Attach the spring in the correct position when placing the PINCH ROLLER BLOCK.

3-2-6. Replacement of the **PB HEAD** OR REC/PB HEAD

1) Remove the two Ⓐ screws and remove the HEAD SHIELD PLATE.

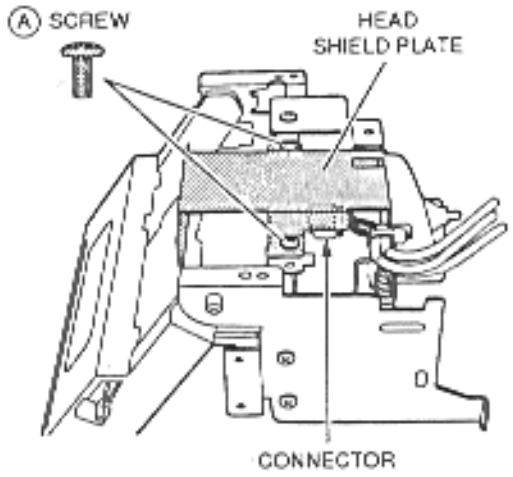


Fig. 3-19

2) Disconnect the connector on the CONNECTOR PCB and remove the PCB retaining screw.

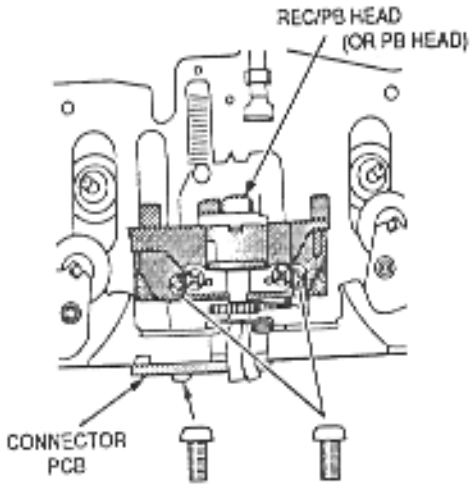


Fig. 3-20

3) Remove the two head retaining screws and remove the HEAD BLOCK.

4) Reassemble in the reverse order. After replacement, demagnetize the HEAD then perform head azimuth adjustment.

IV. MECHANICAL ADJUSTMENT

4-1. ADJUSTMENT OF THE HEAD AZIMUTH ALIGNMENT

1) Connect an oscilloscope to the L-ch and R-ch LINE terminals of the unit.

2) Play back a 10 kHz (–15 dB), HEAD AZIMUTH ALIGNMENT TEST TAPE (TF-106CH) then adjust the HEAD AZIMUTH ALIGNMENT Ⓐ (FWD PLAY) and Ⓑ (REV PLAY) SCREWs respectively so that the waveform level of both the L-ch and R-ch are at maximum and also they are in the same phase in both FWD and REV directions. (Use a sharp edge philips type screwdriver that is de-magnetized for adjustment.)
Perform the adjustment on both the TAPE-I and TAPE-II heads if necessary.

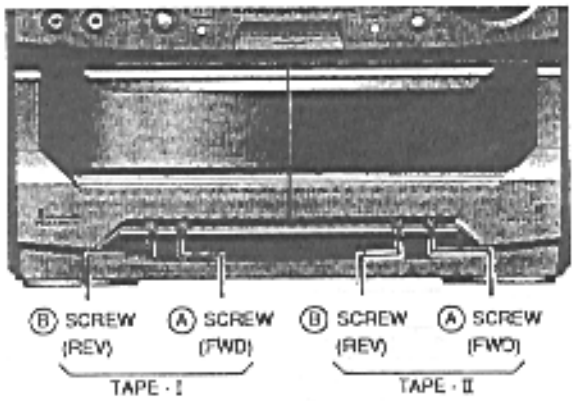


Fig. 4-1

V. ELECTRICAL ADJUSTMENT

5-1. TAPE DECK SECTION

NOTE :

1) The following adjustment should be performed in the "DECK test mode".
   To engage the DECK test mode, connect the AC power cord to the AC outlet while pressing the "TAPE-II" and "▶ (F)" buttons together.
   When the "DECK test mode" is engaged, the "DUBX1" indicator on the FL display will light.
2) When performing the tape speed adjustment, observe the following notes.
   - Adjustment should be started more than 30 seconds after the power is switched ON.
   - Adjustment should be made on X2 speed mode first then adjust the normal speed mode.
   - Adjustment should be made in the forward direction.
3) To disengage the "DECK test mode", press the "POWER" button or unplug the AC power cord from the AC outlet.

STEP	ADJUSTMENT
1.	Test tape/input signal
2.	Mode
3.	Check point, adjustment part
4.	Remarks (•) and result (✱)

Adjustment Part →
Test Point ←

1 TAPE-I (X2) TAPE SPEED

1. 3,150 Hz test tape (TF-110CT)
2. TAPE-I, PLAY
3. LINE OUT, VR3100
4. • Connect a frequency counter to the LINE OUT (L or R) and press the "DUBBING" button to engage double speed.
   ✱ 6,340 ± 20 Hz

2 TAPE-I NORMAL TAPE SPEED

1. 3,150 Hz test tape (TF-110CT)
2. TAPE-I, PLAY
3. LINE OUT, VR3101
4. • Connect a frequency counter to the LINE OUT and press the "▶ (F)" button again to resume normal tape speed.
   ✱ 3,150 ± 10 Hz

3 TAPE-II (X2) TAPE SPEED

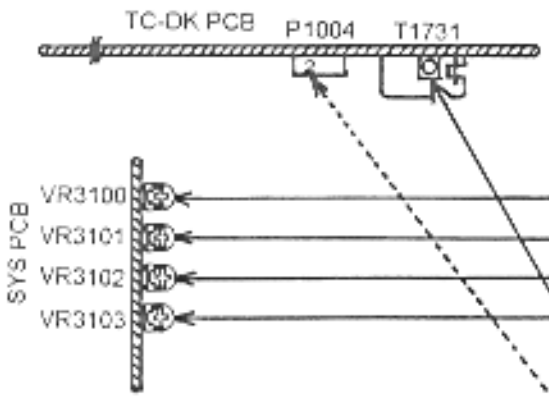
1. 3,150 Hz test tape (TF-110CT)
2. TAPE-II, PLAY
3. LINE OUT, VR3102
4. • Press the "TAPE-II" button and play back the test tape.
   • Connect a frequency counter to the LINE OUT and press the "DUBBING" button to engage double speed.
   ✱ 6,320 ± 20 Hz

4 TAPE-II NORMAL TAPE SPEED

1. 3,150 Hz test tape (TF-110CT)
2. TAPE-II, PLAY
3. LINE OUT, VR3103
4. • Connect a frequency counter to the LINE OUT and press the "▶ (F)" button again to resume normal tape speed.
   ✱ 3,140 ± 10 Hz

5 BIAS OSC FREQUENCY

1. CrO2 type blank tape
2. TAPE-II, REC
3. P1004 ② pin, T1731
4. • Connect a frequency counter between P1004 pin and GND. (10 : 1 probe should be used to avoid affecting the measurement.)
   • Start a recording (press the "REC" button then press the "▶" button).
   The "AUX" source indicator appears automatically.
   ✱ 100.0 ± 0.2 kHz



5-2.CD PLAYER SECTION

TEST MODE FOR CD PLAYER'S OPERATION

Some adjustments of the CD PLAYER section are automatically carried out by the micro computer.

If the CD player section is defective and it is necessary to partially check the operation, "CD TEST" mode can be used while repairing.

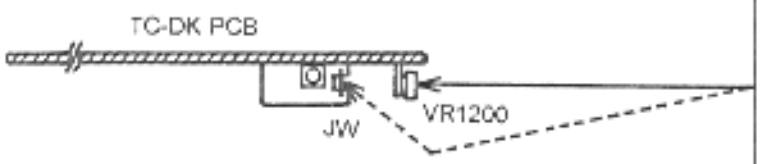
Engaging the "CD TEST" MODE

While pressing and holding both the "CD1" and "◀◀(F)" buttons, plug in the AC power cord to the AC outlet

Note :

- During "CD TEST" mode, only the DISC"1" ▲ open/close button can be used for loading. So, place a disc on "TRAY 1".
- Proceed testing by pressing the "CD1" button once for each testing step
- To disengage the "CD TEST" mode, press the "POWER ON/STANDBY" button or disconnect the AC power cord from the AC outlet.

DISPLAY	FUNCTION
T0 (TEST-0)	Initial condition of the "CD TEST" mode.
T1 (TEST-1)	Perform "focus search"
T2 (TEST-2)	Turn on the "focus servo".
T3 (TEST-3)	Mode of the "E-F balance" adjustment.
T4 (TEST-4)	E-F balance adjustment is carried out automatically and its data value is displayed on the FLD.
T5 (TEST-5)	Mode of the "Tracking gain" adjustment.
T6 (TEST-6)	Tracking gain adjustment is carried out automatically and its data value is displayed on the FLD.
T7 (TEST-7)	Normal playback mode is engaged.



1	FOCUS OFFSET
1. Test disc (SONY TYPE-III) 2. Play back 3. JW and VR1200 4. Connect the hot side probe of an AC milivoltmeter to JW on the BIAS OSC PCB and GND side probe to the chassis. Adjust the VR1200 on the TC-DK PCB until indication of the AC milivoltmeter is maximum.	

VI. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list the part No., Model No. and the description of each part. Otherwise, the nondelivery of the part or the delivery of a wrong part may result.
2. Please make sure that part No. is correct when ordering.
   If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in parts list of preliminary service manual may have been the subject of changes, please use this parts list for all future reference.

[NOTE]

1. This parts list lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked
2. The Recommended Spare Parts list shows those parts in the parts list which are considered particularly important for service.
3. Parts not shown in the parts list and "Common List for Service Parts" will not in principle be supplied.

WARNING

⚠ (*) INDICATED SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVEERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. REMOTE P.C. BOARD

REF. NO.	PARTS No.	DESCRIPTION
CF001	007-300455-46	RESONATOR CRK455 455KHz
IC001	033-806122-13	REMOTE TRANSMITTER UPD6122G-001
LED001	130-670303-00	INFRA RED EMITINT DIODE EL-1L1
PCB	090-010302-04	REMOTE BOARD T=1.6mm 94HB(46X119mm)
Q001	031-278050-03	TRANSISTOR NPN KTC8050C
D001-004	030-134148-00H	D SILICON IN4148
	210-010301-01S	REMOTE BATTERY COVER

2. SYS CON P.C. BOARD

REF. NO	PARTS No.	DESCRIPTION
D3001-3015/3080-3087	030-320131-01H	D SILICON H 1SS131T T52
D3102-3112/3121-3124		
D3016/3017/3120(for AC-620)	030-320131-01H	D SILICON H 1SS131T T52
D3113(AC-420/620 S1 AC-425K/625K Y7)	030-320131-01H	D SILICON H 1SS131T T52
D3114/3117(for AC-425/625K)	030-320131-01H	D SILICON H 1SS131T T52
D3115(for AC-420/620 S1)	030-320131-01H	D SILICON H 1SS131T T52
D3116(for AC-423/623RE1)	030-320131-01H	D SILICON H 1SS131T T52
D3119(AC-420/620 E1/E2/E3/B1/RE1)	030-320131-01H	D SILICON H 1SS131T T52
D3027-3031/3037/3038/3040-3044/3052/	030-560034-10	D LED MYB34C YELLOW
D3053/3055/3056		
D3026-3029/3036/3039/3042/3051/3054	030-540034-04	D LED MGB34D GREEN
D3200-3211		
D3020/3024/3025/3032-3035/3045-3049	030-560031-00	D LED MYB31CA YELLOW
D3021-3023	030-510031-00	D LED MSB31TA RED
D3301/3302/3305-3307	030-540034-04	D LED MGB34D GREEN
(for AC-620/623R/625K)		
D3303/3304(for AC-620/623R/625K)	030-560034-10	D LED MYB34C YELLOW
IC3001	034-B01901-12	IC M38197MA-173FP TX3-SYS74-1
IC3002	033-509121-29	IC PST-9121 T05
IC3003	033-002401-42	IC XL24C01AP
IC3004	033-202011-14	IC TA2011S
IC3005-3007/3200	034-304094-18	IC BU4094BCF
IC3301(for AC-620/623R/625K)	034-304094-18	IC BU4094BCF
IC3100	033-304094-18A	IC BU4094BC
IC3101(for AC-423/623R)	034-106579-33	IC SAA6579T-T
IC3102(for AC-423/623R)	034-307073-16	IC LC7073M
IN3001	035-131610-00	IND FL SVA-16MM1D
J 3401	061-121406-00	PHONE J HSJ1406-01-010 3.5
J 3402(for AC-425/625K)	061-121406-00	PHONE J HSJ1406-01-010 3.5
J 3003/3033	060-406123-99	SOCKET 00 6216 006 000 6P
J 3022	060-423124-99	SOCKET 00 6216 023 100 23P
J3906-3907	060-615125-07	SOCKET 15FE-BT-VK-N 15P
P 3301(AC-420/423R/425K)	060-103204-07	PLUG S3B-PH-K WHT 3P
P 3301A(AC-620/623R/625K)	060-108204-07	PLUG S8B-PH-K WHT 8P
P 3011	060-422124-99	PLUG TKC-V22P-A1 22P
PH3001	036-600446-01	DETECTOR SPS-446-1
SW3001	040-002410-20	SW ROTARY EC16B24304
SW3002	046-080001-00	SW PUSH VPS-800
TR3003-3005/3125-3126	031-440144-05V	DTR DTC144ES(47-47) T05
TR3101/3103/3113-3120/3122-3123	031-211048-25V	TR 2SA1048 Y,GR T05
TR3100/3102/3104-3106	031-224682-00V	TR 2SC4682
TR3111(for AC-423RE1/623RE1)	031-211048-25V	TR 2SA1048 Y,GR T05
TR3112(for AC-423RE1/623RE1)	031-440144-05V	DTR DTC144ES(47-47) T05
TS3001-3004/3011-3301	046-110201-00	SW TACT 1.T-1102A 160GM
TS3005/3009	046-110201-00	SW TACT 1.T-1102A 160GM
VR3001	011-202298-00	VR ROTARY RK11K1140 L17.5 B202
VR3101/3103	112-102311-05	R S-FIX V T05 EVND CAA 30.10W 102
VR3100/3102	112-222311-05	R S-FIX V T05 EVND CAA 30.10W 222

W 3001(AC-420/423R/425K)	063-552701-03	WA PH-SAN L270 3P
W 3001A(AC-620/623R/625K)	063-552701-03	WA PH-SAN L270 3P
W 3007	077-622107-16	WF 2468#26 P2.0 C09 L100 16P
W 3008	077-622107-15	WF 2468#26 P2.0 C09 L100 15P
W 3011	077-622107-05	WF 2468#26 P2.0 C09 L100 5P
W 3401	078-125021-00	WA EARTH LUG L=200
X 3001	007-208000-06	OSC CE CST8.00MTW 8 000MHZ
X 3002	037-032768-10M	OSC X'TAL C-002RX 32.768KHZ
X 3100(for AC-423/623R)	007-204000-06	OSC CE CST4.00MGW 4.000MHZ
X 3101(for AC-423/623R)	037-004332-10Z	OSC X'TAL HC-49/U-S 4.33200MHZ

3. MAIN P.C. BOARD

REF. NO.	PARTS No.	DESCRIPTION
D 001(AC-620/623R/625K)	⚠ 030-310040-02	D SILICON DBF40C 200/4.0A
D 002(AC-620/623R/625K)	⚠ 030-310040-02	D SILICON DBF40C 200/4.0A
D 003-004/025(AC-620/623R/625K)	030-410056-30H	D ZENER MTZJ5.6C T52
D 005-008(AC-620/623R/625K)	⚠ 030-310152-06	D SILICON RL152M11S15 100/1.5A
D 006-009(AC-420/423R/425K)	⚠ 030-310152-06	D SILICON RL152M11S15 100/1.5A
D 021/023/081/086/087/	030-314002-10H	D SILICON 1N4002-F T52 100/1A
D 231/232(AC-420/423R/425K)		
D 021/023/081-083/141(AC-620/623R/625K)	030-314002-10H	D SILICON 1N4002-F T52 100/1A
D 001/022/024/042/044/046/083/	030-320131-01H	D SILICON H 1SS131T T52
D 121-124/141-143/221/724		
(AC-420/423R/425K)		
D 022/024/041-042/047/130-131/135-136	030-320131-01H	D SILICON H 1SS131T T52
D 133/142/153-154/156-157		
D 322/724(AC-620/623R/625K)		
D 025/063/066/145/721-723/	030-410062-10H	D ZENER MTZJ6.2A T52
D 751-753(AC-420/423R/425K)		
D 043/062/721-723(AC-620/623R/625K)	030-410062-10H	D ZENER MTZJ6.2A T52
D 041	030-410075-10H	D ZENER MTZJ7.5C T52
D 044/151-152(AC-620/623R/625K)	030-410075-10H	D ZENER MTZJ7.5C T52
D 004/005/043/085/144	030-410051-20H	D ZENER MTZJ5.1B T52
(AC-420/423R/425K)		
D 045(AC-620/623R/625K)	030-410051-20H	D ZENER MTZJ5.1B T52
D 046(AC-620/623R/625K)	030-410015-03H	D ZENER MTZJ15B T52
D 084	030-410330-00H	D ZENER MTZJ33B T52
D 085(AC-620/623R/625K)	030-410056-20H	D ZENER MTZJ5.6A T52
D 132/134(AC-620/623R/625K)	030-410220-00H	D ZENER MTZJ22D T52
D 155(AC-620/623R/625K)	030-410051-10H	D ZENER MTZJ5.1A T52
D 531-533/551-554(for AC-625K)	030-320131-01H	D SILICON H 1SS131T T52
D 551-554(for AC-425K)	030-320131-01H	D SILICON H 1SS131T T52
F1(for AC-420/423R/425K)	⚠ 082-221600-06	FUSE TIME 218 250V 1.6A
F2(for AC-425K)	⚠ 082-221600-06	FUSE TIME 218 250V 1.6A
F1(for AC-620/623R/625K)	⚠ 082-222000-06	FUSE TIME 218 250V 2.00A
F2(for AC-625K)	⚠ 082-222000-06	FUSE TIME 218 250V 2.00A
F3(for AC-620/623R/625K)	⚠ 082-225000-06	FUSE TIME 218 250V 5.00A
F4(for AC-620/623R/625K)	⚠ 082-225000-06	FUSE TIME 218 250V 5.00A
IC 021	033-507805-00B	IC ML7805FA 5V/1A
IC 201(AC-420/423R/425K)	030-404142-16	IC STK4142-2
IC 202/203/204(AC-620/623R/625K)	033-218751-38	IC SI18751
IC 501	033-K65843-12	IC M65843AFP
IC 581	033-904558-30A	IC NJM4558L
IC 602(for AC-620/623R/625K)	034-K02177-74	IC NJM2177AFB3
IC 701	034-262422-12	IC M62422FP
IC 751/761 (for AC-620/623R/625K)	033-209412-14	IC TC9412P
IC 761 (for AC-420/423R/425K)	033-209260-14	IC TC9260P
IC 101(for AC-420/423R/425K)	033-304094-18A	IC BU4094BC
IC 801	033-304094-18A	IC BU4094BC

IC 802 (for AC-620/623R/625K)	033-304094-18A	IC BU4094BC
J 011	060-422122-99	SOCKET TKC-V22X-A1 22P
J 201	061-123000-00	PHONE J HSJ3000-01-010 3.5
J 301(only for AC-620/623R/625K)	061-780243-00	PIN J HSP-243V-06 3P
L 201/251(AC-420/423R/425K)	004-285103-08	COIL 202AK018K COILS
L 281(AC-420/423R)	0844-070410-00	COIL BALUM OPW/S-8-14-5H2
L 202(for 620/623R)	084-070410-00	COIL BALUM OPW/5-8-14-5H2
L 203(for AC-620/623R)	084-070410-00	COIL BALUM OPW 15-8-14-5H2
L 801	002-300002-09	COIL LF LF-4D-102 102UH
P 006(for AC-420/423R/425K)	060-112204-07	PLUG S12B-PH-K WHT 12P
P 006(for AC-620/623R/625K)	060-116204-07	PLUG S16B-PH-K WHT 16P
P 012(AC-420/423R/425K)	060-102045-20	PLUG B2P-3-VH P7.92 2P
P 012(for AC-620/623R/625K)	060-107204-07	PLUG S7B-PH-KWHT 7P
P 013(for AC-420/423R/425K)	060-403001-17	PLUG RB-115-3P 3P
P 013(for AC-620/623R/625K)	060-107045-20	PLUG PS2438-7 7P
P 014(AC-420/423R/425K)	060-104205-27	PLUG B4B-PH-K WHT 4P
P 801(AC-620/623R/625K)	060-102045-20	PLUG B2P-3-VH P7.92 2P
P 902(AC-420/423R/425K)	060-403001-17	PLUG RTB-1.5-SP 3P
R 004-005/043	⚠ 013-478205-75	R OMF H S10FLR ERG12SP1/2WR47J
R 021/103/106/109/112	⚠ 013-109205-75	R OMF H S10FLR ERG12SP1/2W1R0J
R 060(AC-620/623R/625K)	⚠ 013-109205-75	R OMF H S10FLR ERG12SP1/2W1R0J
R 061(AC-420/423R/425K)	⚠ 013-478205-75	R OMF H S10FLR ERG12SP1/2WR47J
R 047-048	⚠ 013-221205-75	R OMF H S10FLR ERG12SP1/2W221J
R 060-063(AC-620/623R/625K)	⚠ 013-392205-75	R OMF H S10FLR ERG12SP1/2W392J
R 061/062-064(AC-420/423R/425K)	⚠ 013-102205-2A	R OMF H S10FLR ERG12SP1/2W102J
R 132/135-136/141(AC-620/623R/625K)	⚠ 013-151205-75	R OMF H S10FLR ERG12SP1/2W151J
R 137(AC-620/623R/625K)	⚠ 013-478205-75	R OMF H S10FLR ERG12SP1/2W562J
R 213/263/233/283 (for AC-620/623R/625K)	⚠ 013-479305-75	R OMF H S12 FLR ERG1SP 1W 4R7J
R 209/210/259/260(AC-420/423R/425K)	013-478205-075	R OEM H SLOFER ERG15P 1W 100J
RL001	⚠ 066-110212-04	RELAY POW OSA-SS 212DM5 TV-3
TM 201	061-780401-00	TERMINAL PUSH CJ-9007-060 4P
TR 022/024/026/043	031-440114-05V	DTR DTC114ES(10-10) T05
TR 131(AC-620/623R/625K)	031-440114-05V	DTR DTC114ES(10-10) T05
TR 221(AC-420/423R/425K)	031-440114-05V	DTR DTC114ES(10-10) T05
TR 023(for AC-420/423R/425K)	031-221443-00V	TR 2SB1443 TV2
TR 023(for AC-620/623R/625K)	031-220621-00V	TR2SB621 R,S T05
TR 025	031-220621-00V	TR 2SB621 R,S T05
TR 021/041/082/101-104	031-211048-25V	TR 2SA1048 Y,GR T05
TR 130/132(AC-620/623R/625K)	031-211048-25V	TR 2SA1048 Y,GR T05
TR 044/081	031-221375-00	TR 2SB1375
TR 061(AC-620/623R/625K)	031-440114-60V	DTR DTC114TS(10) T05
TR 121-124(AC-420/423R/425K)	031-440114-60V	TR DTC114JS107 T05
TR 134(for AC-610/613R/615K)	031-241785-00	TR 2SD1785
TR 045/135/151/152/154/155/201/251 TR 221/271(AC-620/623R/625K)	031-232458-25V	TR 2SC2458 Y,GR T05
TR 045/141/201-203/251-253 (for AC-420/423R/425K)	031-232458-25V	TR 2SC2458 Y,GR T05
TR 137(for AC-620/623R/625K)	031-221258-00	TR 2SB1258
TR 153(for AC-620/623R/625K)	031-430114-19V	DTR DTA114TS(10) T05
TR 158(for AC-620/623R/625K)	031-440114-60V	DTR DTC114TS(10) T05
TR 320/321(for AC-620/623R/625K)	031-430114-05V	DTR DTA114ES(10-10) T05
TR 322(for AC-620/623R/625K)	031-440114-60V	DTR DTC114TS(10) T05
TR 531(for AC-625K)	031-430114-19V	DTR DTA114TS(10) T05
TR 532/533/535/536/539-541 (for AC-625K)	031-440144-60	DTR DTC144TS(47) T05
TR 534/537/538(for AC-625K)	031-440114-60V	DTR DTC114TS(10) T05
TR 551/552(for AC-425K/625K)	031-440114-60V	DTR DTC114TS(10) T05

TR 601-604(AC-620/623R/625K)	031-430114-19V	DTR DTA114TS(10) T05
W 014(AC-420/423R/425K)	063-552301-04	WA SAN-PH #24 C230 4P
W 801(for AC-425K/625K)	063-502401-11	WA SDN L200 6P
W 913(for AC-620/623R/625K)	063-553201-07	WA SDN-VH #22 L320 7P
X 501(only for AC-620/623R/625K)	007-002000-40	OSC CE CSA2.00MG 2.000MHZ
X 551(for AC-425K/625K)	007-200400-03	OSC CE DCRK400 400.000KHZ

4. TC-DK P.C. BOARD

REF. NO.	PARTS No.	DESCRIPTION
D 1300-1304	030-314002-10H	D SILICON 1N4002-F T52 100/1A
D 1400/1401/1721	030-320131-01H	D SILICON H 1SS131T T52
D 1501	030-410051-10H	D ZENER MTZJ5.1A T52
FL1611/1621/1661/1671	007-100100-09	COIL TUN 1 100Z-121 100.00KHZ
IC1001	033-314052-21	IC MC14052BCP
IC1002/1210	033-904558-30A	IC NJM4558L
IC1003(for AC-620/623R/625K)	033-314053-21	IC MC14053BCP
IC1100	033-601782-64Q	IC CXA1782BQ
IC1200	033-K02508-64	IC CXD2508AQ
IC1300	033-209258-61	IC KA9258D
IC1400	033-206247-18	IC BA6247
IC1601	034-101897-64	IC CXA1897Q
IC1701/1702	034-304094-18	IC BU4094BCF
J 1001(for AC-420/423R/425K)	061-782441-00	PIN J HSP-244V1-05 2P
J 1001A(for AC-620/623R/625K)	061-782441-00	PIN J HSP-244V1-05 2P
J 1002	060-423123-99	SOCKET 00 6216 023 000 23P
J 1100	060-416109-99	SOCKET 00 6232 016 006 16P
L 1501(S1/U5/U8/Y6/Y7/A3)	005-229056-01H	COIL FIX 1 LAP02TA T26 2R2J
L 1721	005-101056-00H	COIL FIX 1 LAP02TA T26 101J
P 1004	060-108205-27	PLUG B8B-PH-K WHT 8P
P 1005	060-103205-27	PLUG B3B-PH-K WHT 3P
P 1200	036-400032-01	SOCKET OPTICAL GPIF32T
P 1400	060-105204-27	PLUG S5B-PH-K WHT 5P
P 1401	060-107204-29	PLUG S7B-PH-K WHT 7P
P 1402	060-106206-27	PLUG S6B-PH-K WHT 6P
T 1731	002-800002-09	COIL OSC 1 C1047
TM1501	061-480312-00	TERMINAL LEVER HSP-312V-02
TR1100/1400/1102/1743	031-211048-25V	TR 2SA1048 Y,GR T05
TR1300/1301	031-221425-00V	TR 2SB1425 S,E T05
TR1302/1601/1621/1651/1671/ TR1741/1721/1742/1751/1752/1756	031-440114-05V	DTR DTC114ES(10-10) T05
TR1401/1501/1611/1612/1661-1662/1701	031-232458-25V	TR 2SC2458 Y,GR T05
TR1502(for AC-423R/623R)	031-250304-06V	TR FET 2SK304 E,F T05
TR1613/1663	031-241012-06V	TR 2SD1012-V-SPA-AC F,G,H T05
TR1010/1060/1631/1685/1642/1101/ TR1035/1681/1692	031-440114-60V	DTR DTC114TS(10) T05
TR1641/1643/1691/1693 (for AC-620/623R/625K)	031-440114-60V	DTR DTC114TS(10) T05
TR1723-1725	031-231815-26V	TR 2SC1815 Y,GR T05
TR1726(E1/E2/B1/RE1/E3)	031-211048-25V	TR 2SA1048 Y,GR T05
TR1731-1732(E1/B1/RE1/E3)	031-232458-25V	TR 2SC2458 Y,GR T05
TU1501(E1/E2/B1/RE1/E3)	103-146601-04	TUNER TFCB3E720A FM/MW/LW
TU1501A(S1/U5/U8/Y6)	103-146401-04	TUNER TFCB1U717A FM/AM
TU1501B(Y7)	103-146101-04	TUNER TFCB1S713A FM/MW/SW
VR1200	112-103311-05	R S-FIX V T05EVNDCAA3 0.10W103
W 1006	063-B01001-12	WA PH L100 12P
W 1400/1401	077-322087-09	WF 2468#26 P2.0 C09 L80 9P
X 1200	037-169344-30J	OSC X'TAL HO-49/U16934.400KHz
W900	077-955168-16	CORD FFC P1.0 L150 16P
W1500	072-122008-50	WD 1007#22 CO 180

5. P.C. BOARD BLOCK

REF. NO.	PARTS No.	DESCRIPTION
1-a(AC-420/423R)	771-AC42001-01	MAIN P.C. BOARD
1-b(AC-425K)	771-AC42001-46	MAIN P.C. BOARD
1-c(AC-420/423R)	771-AC42001-02	PRI. P.C. BOARD
1-d(AC-425K)	771-AC42001-47	PRI. P.C. BOARD
1-e(AC-420/423R/425K)	771-AC42001-03	SEC. P.C. BOARD
2-a(AC-420 B1/E1/E3)	771-AC42001-04	TC-TU/CD/DK P.C. BOARD
2-b((AC-420/425K)	771-AC42001-27	TC-TU/CD/DK P.C. BOARD
2-c(AC-423R)	771-AC42001-38	TC-TU/CD/DK P.C. BOARD
2-d(AC-425K Y7)	771-AC42001-82	TC-TU/CD/DK P.C. BOARD
2-e((AC-420/423R)	771-AC42001-05	TC-OSC P.C. BOARD
2-f(AC-420/425K)	771-AC42001-28	TC-OSC P.C. BOARD
2-g(AC-420/423R/425K)	771-AC42001-06	TC-RELAY P.C BOARD
3-a(AC-420/423R/425K)	771-AC42001-07	SYS-SYS FLD P.C. BOARD
3-b(AC-420 B1/E1/E3)	771-AC42001-08	SYS-MECH CON P.C. BOARD
3-c(AC-420 S1)	771-AC42001-31	SYS-MECH CON P.C. BOARD
3-d(AC-423R)	771-AC42001-42	SYS-MECH CON P.C. BOARD
3-e(AC-425K U5/U8/Y6)	771-AC42001-53	SYS-MECH CON P.C BOARD
3-f(AC-420/425R/425K)	771-AC42001-09	SYS-MECH CON P.C BOARD
3-g(AC-420/423R/425K)	771-AC42001-10	SYS-MECH CON P.C BOARD
3-h(AC-420/423R)	771-AC42001-11	SYS-MIC JACK P.C. BOARD
3-i(AC-425K)	771-AC42001-56	SYS-MIC JACK P.C. BOARD
4a(AC-420)	790-010301-01	REMOTE P.C. BOARD
4b(AC-620)	790-010302-01	REMOTE P.C. BOARD
5-a(AC-620/623R)	771-AC62001-01	MAIN P.C. BOARD
5-b(AC-625K)	771-AC62001-46	MAIN P.C. BOARD
5-c(AC-620/623R)	771-AC62001-02	PRI. P.C. BOARD
5-d(AC-625K)	771-AC62001-47	PRI. P.C. BOARD
5-e(AC-620/623R/625K)	771-AC62001-03	PRI. P.C. BOARD
6-a(AC-620 B1/E1/E3)	771-AC62001-04	TC-TU/CD/DK P.C. BOARD
6-b((AC-620 S1 AC-625K U5/U8/Y6/Y7)	771-AC62001-27	TC-TU/CD/DK P.C. BOARD
6-c(AC-623R)	771-AC62001-38	TC-TU/CD/DK P.C. BOARD
6-d(AC-625K Y7)	771-AC62001-82	TC-TU/CD/DK P.C. BOARD
6-e(AC-620/623R)	771-AC62001-05	TC-OSC P.C. BOARD
6-f (AC-620/623R)	771-AC62001-28	TC-OSC P.C. BOARD
6-g (AC-620/623R/625K)	771-AC62001-06	TC-RELAY P.C. BOARD
7-a(AC-620/623R/625K)	771-AC62001-07	SYS-SYS LED P.C. BOARD
7-b(AC-620 B1/E1/E3)	771-AC62001-08	SYS-MECH CON P.C. BOARD
7-c(AC-620 S1)	771-AC62001-31	SYS-MECH CON P.C. BOARD
7-d(AC-623R)	771-AC62001-42	SYS-MECH CON P.C. BOARD
7-e(AC-625K U5/U8/Y6)	771-AC62001-53	SYS-MECH CON P.C. BOARD
7-f(AC-625K Y7)	771-AC62001-86	SYS-MECH CON P.C. BOARD
7-g(AC-620/623R/625K)	771-AC62001-09	SYS-DECK LED P.C. BOARD
7-h(AC-620/623R/625K)	771-AC62001-10	SYS-CDOPE P.C. BOARD
7-i(AC-620/623R)	771-AC62001-11	SYS-MIC JACK P.C. BOARD
7-j(AC-625K)	771-AC62001-56	SYS-MIC JACK P.C. BOARD

6.YMC03 P.C. BOARD

REF.NO.	PARTS NO.	DESCRIPTION
D4410	030-600048-00	D LED GL4800
TR4410	031-594800-00	TR PHOTO PT4800
J4410	060-405124-99	SOCKET 0062160051005 5P
J4411	060-405123-99	SOCKET 0062160051005 5P
W4401	077-622077-02	WF2468# P I O C09L072P
W4412	063-555301-05	WA SAN-PHL 530 5P

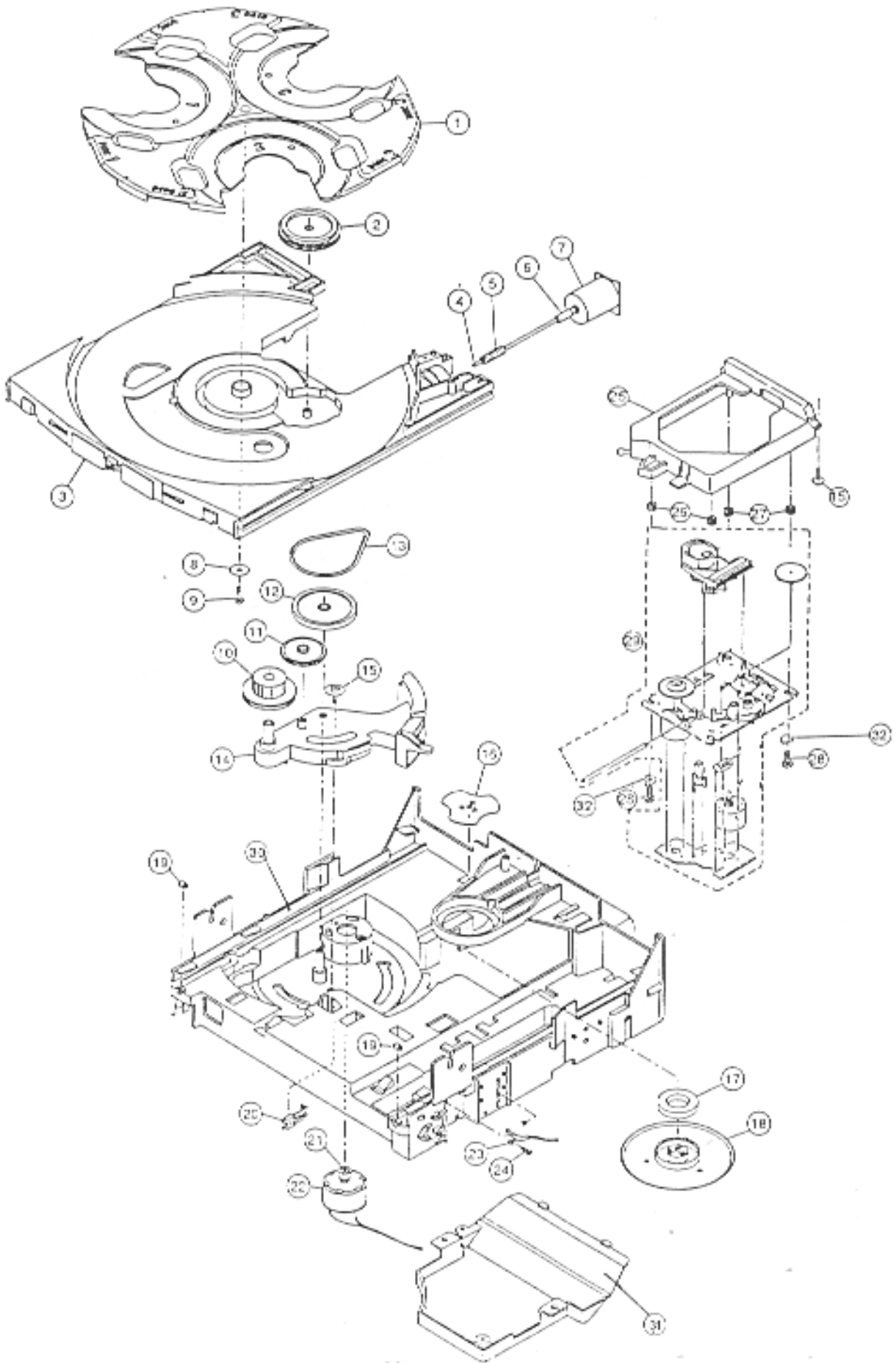
7. ACCESSARYREF. NO.

	PARTS. No.	DESCRIPTION
1	790-010301-01	REMOCON RC-S520
2	790-010302-01	REMOCON RC-S720

8. CD MECHANISM

REF. NO.	PARTS NO.	DESCRIPTION
1	229-385602-01S	HOLDERDISC
2	288-385601-01Z	GEAR WORMWHEEL TABLE
3	220-385602-01S	TRAY LOADING
4	438-385601-01	SHAFT
5	288-385604-01Z	WORM
6	239-385601-01Z	JOINT
7	743-037012-54	MOTOR PF-370CA-15370 12V
8	634-150030-08	PW30X150X080 THK
9	619-300208-00	TAPING SCREW 3X1 25X8mm
10	288-385605-01Z	GEAR LOADING (A)
11	288-385606-01Z	GEAR LOADING(B)
12	288-385602-01Z	PULLEY GEAR
13	334-385604-01	BELT LOADING
14	288-385603-01S	HOLDER GEAR
15	615-300308-00	BW/T 3X8mm
16	428-385603-01	PLATE CLAMPER
17	489-383801-01	MAGNET DISC CLAMP
18	229-385606-01S	CLAMPER
19	259-385602-01Z	ROLLER
20	047-102127-00	LEAF SWITCH LSA-2127E
21	243-385601-01Z	PULLEY
22	743-050009-54	MOTOR RF-500TB-14415 D/V
23	047-101119-01	LEAF SWITCH ISA-1119H
24	610-260208-10	R/T 2.6X8mm
25	220-385601-01S	HOLDER TRAVERSE
26	334-385606-01	INSULATOR
27	334-385606-01	INSULATOR
28	610-200216-00	SELF-SCREW TAPING B/T 2.0X16
29	747-021301-02	MECHA TRAVERSE KSM213CCM
30	220-385603-01R	CHASSIS MAIN
31	219-385601-01Z	CD MECH COVER
32	634-100027-05	METAL WASHER 10X2.7X0.5

CD MECHANISM BLOCK



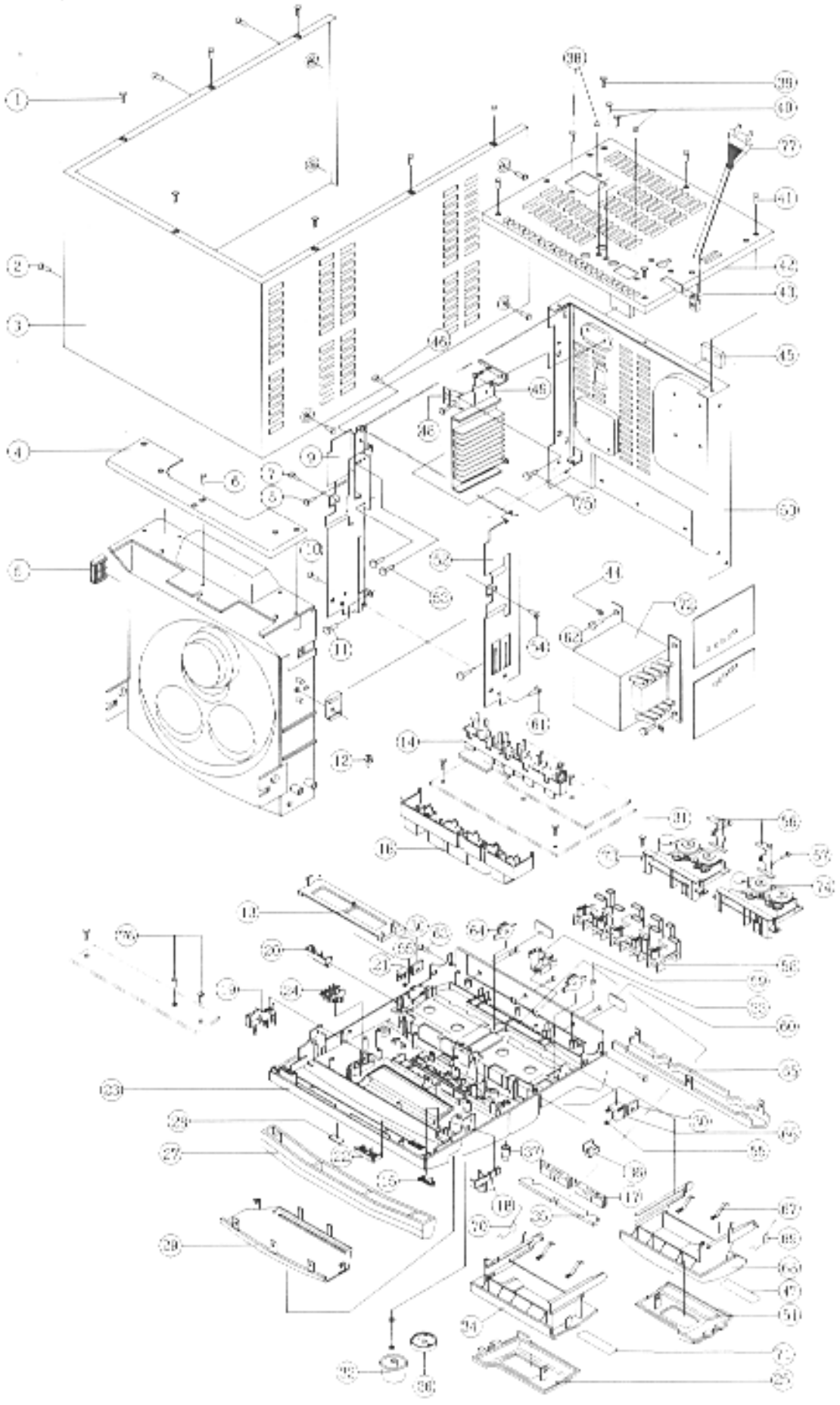
9. AC-420/423R/425K

REF. NO.	PARTS NO.	DESCRIPTION
1	606A301208-00	TAPING SCREW P TYPE BID H 3X1.25PX8MM
2	606A301208-00	TAPING SCREW P TYPE BID H 3X1.25PX8MM
3	402-385002-02	MAIN COVER SILVER
4	495-385017-01	REAR CABINET SUB
5	284-385001-01R	MECH SPACER BLACK HI-PS
6	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
7	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
8	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
9	428-385001-01	CD BRACKET 'L'
10	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
11	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
12	292-AA0302-01S	DOBLY BUTTON
13	229-AA0301-01S	FLD BRACKET HI-PS
14	291-AA0302-01S	FUNCTION BUTTON ABS
15	291-AA0303-01Z	BALANCE BUTTON GRAY
16	291-AA0306-01Z	OP BUTTON (AC-420)
17	250-AA0301-01S	LAMP HOLDER WHITE ABS
18	292-AA0301-01S	REC BUTTON RED (P-96014) ABS
19	291-AA0501-01S	CH BUTTON DARK GREY (P-92008) ABS
20	291-AA0305-01S	POWER BUTTON DARK GREY (P-92008) W/MET GREY(T-96008HB) SP. SILK'S RED(S-88011) LETT. ABS
21	229-AA0314-01Z	LATCH BRACKET (L) POM
22	291-AA0301-01S	DISC BUTTON DARK GREY (P-92006)
23-a(AC-420)	200-AA0311-01R	FRONT CABINET HI-PS
23-b(AC-423R)	200-AA0311-02R	FRONT CABINET HI-PS
23-c(AC-425K)	200-AA0312-01R	FRONT CABINET HI-PS
24	275-AA0301-01S	TIMER BUTTON DARK GREY (P-92008) ABS
25	261-AA0301-01K	CASS DOOR LENS (L) SMOKE
26	273-AA0302-01S	VOLUME RING DARK GREY (P-92008) W/PLATTING ABS
27	219-AA0311-01R	CD DOOR HI-PS
28	286-385001-02S	NAME PLATE 'AKAI'
29	263-AA0301-02K	DISPLAY LENS AS
30	229-385016-01Z	LATCH BRACKET BLACK POM
31	619-300210-00	TAPPING SCREW P TYPE BID H 3X10MM BLACK
32	273-AA0301-01S	VOLUME KNOB ABS
33	619-300210-00	TAPING SCREW P TYPE BID H 3X10MM BLACK
34	211-AA0301-01S	CASS DOOR (L) HI-PS
35	418-AA0301-01	OVERLAY CLEAR SILK'S WHITE(S-96001) COLOR PVC
36	291-AA0304-01S	BASS BUTTON MILKY WHITE (CL-301) ABS
37	273-AA0303-01S	DARK GRAY ABS
38	606A301208-00	TAPING SCREW P TYPE BID H 3X1.25PX8MM
39	606A301208-00	TAPING SCREW P TYPE BID H 3X1.25PX8MM
40	614-300208-00	SELF-TAPPING SCREW B/T 3X8MM BLACK
41	606A301208-00	TAPING SCREW P TYPE BID H 3X1.25PX8MM
42-a(AC-420 E/B)	495-AA0301-01	PANEL REAR
42-b(AC-420 S)	495-AA0301-02	PANEL REAR
42-c(for AC-423R(E))	495-AA0301-03	PANEL REAR
42-d(AC-425K U5,Y6)	495-AA0302-01	PANEL REAR
42-e(AC-425K U8,Y7)	495-AA0302-01	PANEL REAR
43	650-381301-01	CORD BUSHING
44	663-076040-10S	SPRING WASHER 7.6X4X1MM THK SIL CMT
45	207-385101-01Z	REAR FOOT (PLASTIC) BLACK EVA
46	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK

47	211-AA0502-02S	CASS DOOR PALTE (R)-B BLACK
48	428-385101-01	HOLDER BRACKET (H)
49	481-385102-01	HEAT SINK (H-2)
50	493-385112-01	METAL BOTTOM CABINET (H) 1MM
51	261-AA0302-01K	CASS DOOR LENS (R) SMOKE
52	428-385002-01	CD BRACKET 'R'
53	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
54	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
55	477-385011-01	LATCH PUSH SPRING
56	483-AA0301-01	SHIELD HEAD
57	604-264501-00A	TAPPING SCREW C TYPE BID 2.6X5MM
58	299-AA0312-01S	LID BRACKET TX-3 WHITE ABS
59	229-AA0303-01S	LID BRACKET BLACK ABS
60	330-385001-01	FRONT CUSHION FOOT
61	619-300208-00	TAPING SCREW P TYPE BID H 3X8MM BLACK
62	602-407008-60A	TAPPING SCREW P TYPE WASHER H 4X8MM
63	619-300212-00	TAPPING SCREW P TYPE BID H 3X12MM
64	703-385002-01	DAMPER DA-60W/W (105) ASSEMBLY
65	263-AA0303-01K	DECK DIR LENS AS
66	229-AA0315-01Z	LATCH BRACKET (R) POM
67	470-AA0321-01	CASS DOOR SPRING SHEET
68	211-AA0302-01S	CASS DOOR (R) HI-PS
69	471-AA0302-01	CASS DOOR SPRING WIRE (R)
70	471-AA0301-01	CASS DOOR SPRING WIRE (L)
71	211-AA0501-02S	CASS DOOR PALTE (L)-B BLACK
72-a(AC-420/423R)	001-86AA03-22	POWER TRANSFORMER C1058-E
72-b(AC-425K)	001-86AA03-B2	POWER TRANSFORNER C1058-U
73	741-495300-09	LOGICAL CONTROL DECK MECHA GT-E5300 (P/B)
74	741-495600-09	LOGICAL CONTROL DECK MECHA GT-E5600(R/P)
75	606A301208-00	TAPING SCREW P TYPE BID H 3X1 25PX8MM
76	619-300210-00	TAPINET SCREW P TYPE BID H 3X10MM BLACK
77-a(except,B1,Y6,S1)	071-669078-00A	AC LINE CORD VDE
77-b(B1,Y6)	071-449078-20	AC LINE CORD BS
77-c(S1)	071-559078-10	AC LINE CORD SAA

FINAL ASSEMBLY BOX

MODEL AC-423/4232/4254



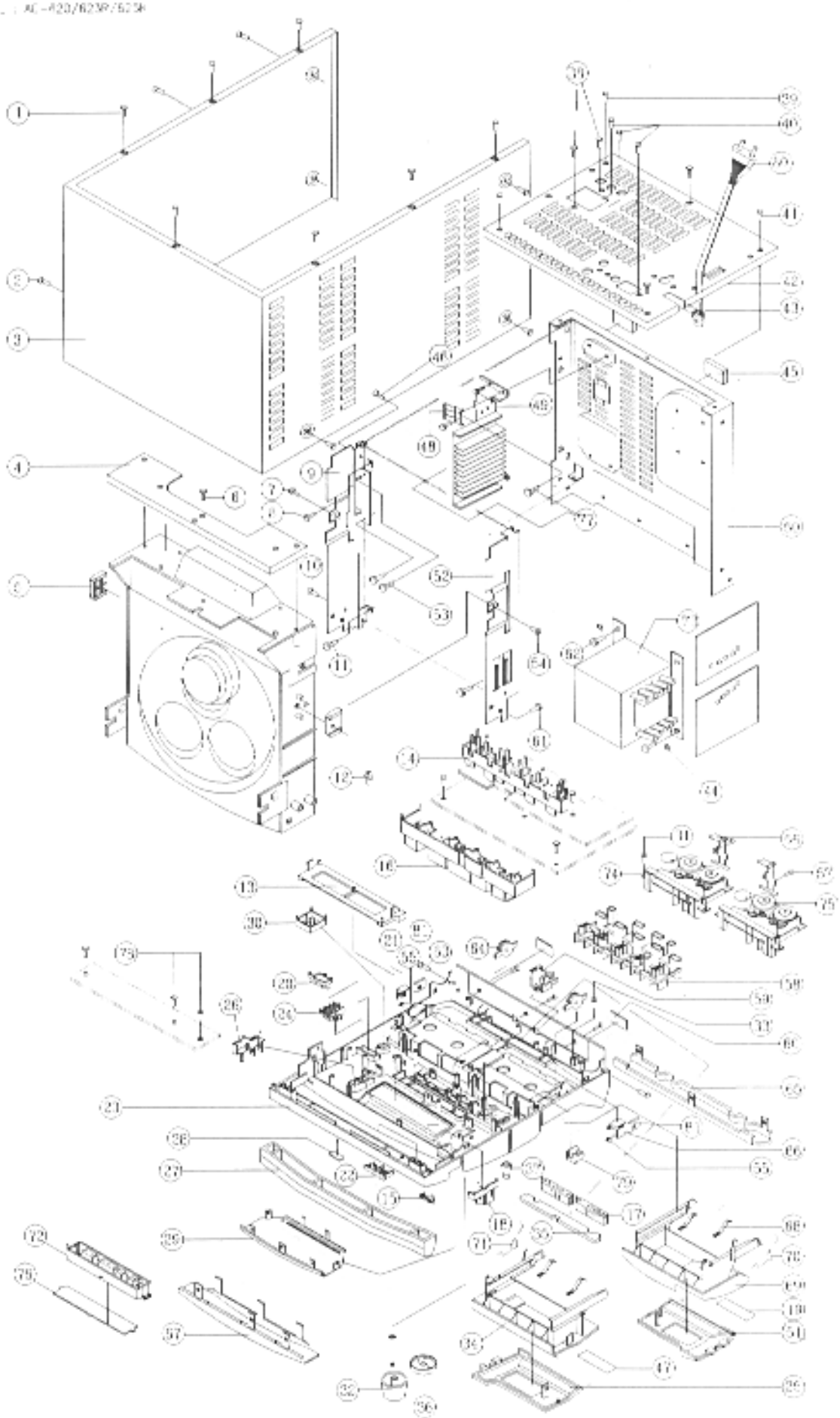
10. AC-620/623R/625K

REF. NO.	PARTS NO.	DESCRIPTION
1	606A301208-00	TAPPING SCREW P TYPE BID H 3X1.25PX8MM
2	606A301208-00	TAPPING SCREW P TYPE BID H 3X1.25PX8MM
3	402-385002-02	MAIN COVER SILVER
4	495-385027-01	REAR CABINET SUB
5	248-385001-01R	MECH SPACER BLACK HI-PS
6	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
7	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
8	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
9	428-385001-01	CD BRACKET 'L'
10	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
11	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
12	292-AA0302-01S	DOBLY BUTTON
13	229-AA0301-01S	FLD BRACKET HI-PS
14	291-AA0302-01S	FUNCTION BUTTON ABS
15	291-AA0303-01S	BALANCE BUTTON GRAY
16	291-AA0306-02Z	OP BUTTON (AC-620)
17	250-AA0301-01S	LAMP HOLDER WHITE ABS
18	292-AA0301-01S	REC BUTTON RED (P-96014) ABS
19	211-AA0502-01S	CASS DOOR PLATE (R)-B BLACK
20	291-AA0305-01S	POWER BUTTON DARK GREY (P-92008) W/MET GREY(T-96008HB) SP. SILK'S RED(S-88011) LETT. ABS
21	229-AA0314-01Z	LATCH BRACKET(L) POM
22	291-AA0301-01S	DISC BUTTON DARK GREY
23-a(AC-620)	200-AA0513-01R	FRONT CABINET HI-PS
23-b(AC-623R)	200-AA0513-02R	FRONT CABINET HI-PS
23-c(AC-625K)	200-AA0514-01R	FRONT CABINET HI-PS
24	275-AA0301-01S	TIMER BUTTON DARK GREY (P-92008) ABS
25	261-AA0301-01K	CASS DOOR LENS (L) SMOKE
26	291-AA0501-01S	CH BUTTON DARK GREY (P-92008) ABS
27	219-AA0311-01R	CD DOOR HI-PS
28	286-385001-02S	NAME PLATE 'AKAI'
29	263-AA0301-02K	DISPLAY LENS AS
30	292-AA0501-01S	ON/OFF BUTTON DARK GREY
31	619-300210-00	TAPPING SCREW P TYPE BID H 3X10MM BLACK
32	273-AA0301-01S	VOLUME KNOB ABS
33	619-300210-00	TAPING SCREW P TYPE BID H 3X10MM BLACK
34	211-AA0301-01S	CASS DOOR (L) HI-PS
35	418-AA0301-01	OVERLAY CLEAR SILK'S WHITE(S-96001) COLOR PVC
36	273-AA0302-01S	VOLUME RING DARK GREY (P-92008) W/PLATTING ABS
37	273-AA0303-01S	MIC KNOB DARK GREY ABS
38	606A301208-00	TAPINET SCREW TYPE BID H 3X1.25PX8MM
39	606A301208-00	TAPINET SCREW P TYPE BID H 3X1.25PX8MM
40	614-300208-00	SELF-TAPPING SCREW B/T 3X8MM BLACK
41	606A301208-00	TAPINET SCREW P TYPE BID H 3X1.25PX3MM
42-a(AC-620 E/B)	495-AA0305-01	PANEL REAR
42-b(AC-620 S)	495-AA0305-02	PANEL REAR
42-c(AC-623R(E))	495-AA0305-03	PANEL REAR
42-d(AC-620 U5,Y6)	495-AA0306-01	PANEL REAR
42-e(AC-620 U8,Y7)	495-AA0306-02	PANEL REAR
43	650-381301-01	CORD BUSHING
44	663-076040-10S	SPRING WASHER 7.6X4X1MM THK SIL CMT
45	330-385002-01	REAR CUSHION FOOT
46	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK

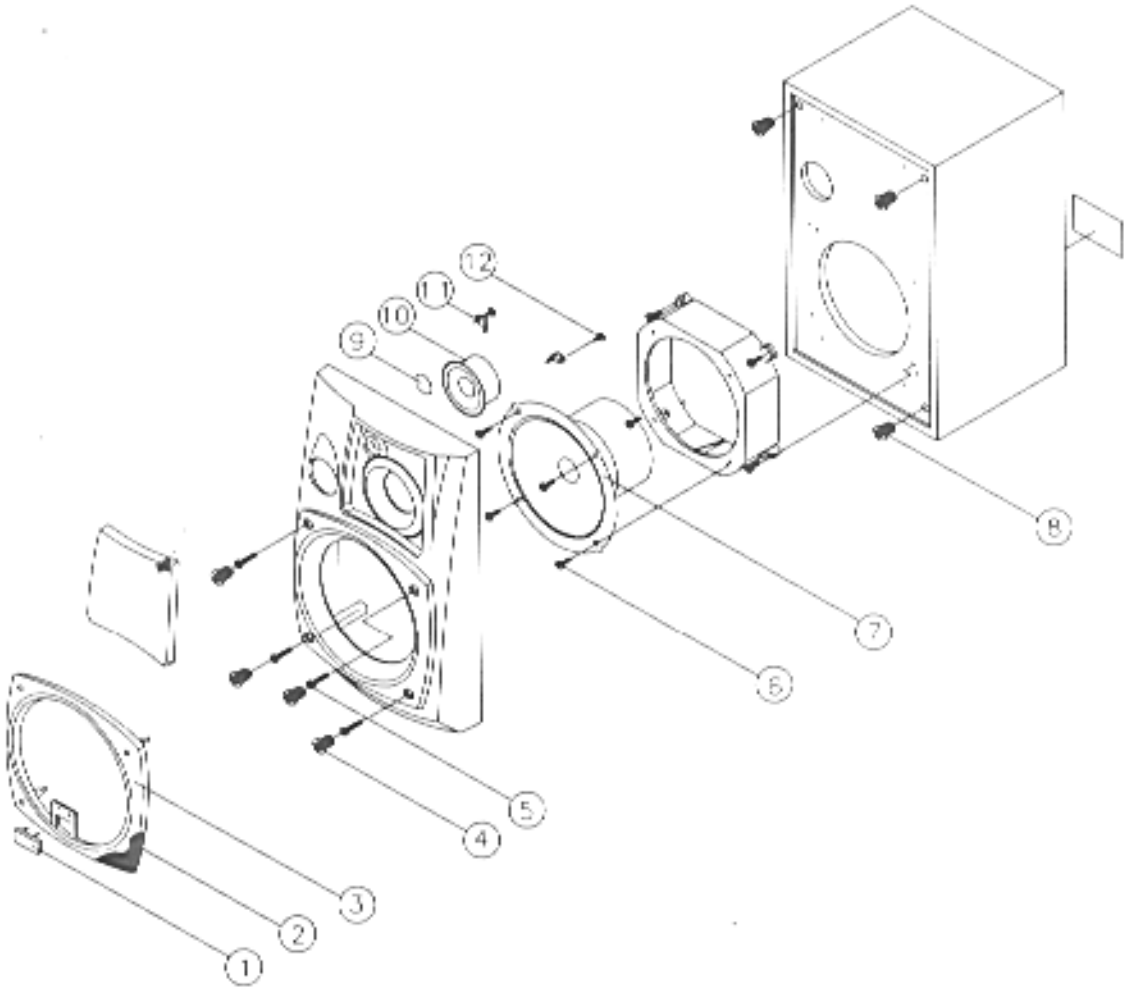
47	211-AA0501-01S	CASS DOOR PLATE (L)-B BLACK
48	428-AA0501-01	HOLDER BKT TR-4
49	481-AA0501-01	HEAT SINK 620
50	493-385021-01	METAL BOTTOM CAB 0.8MM
51	261-AA0302-01K	CASS DOOR LENS (R) SMOKE
52	428-385002-01	CD BRACKET 'R'
53	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
54	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
55	477-385011-01	LATCH PUSH SPRING
56	483-AA0301-01	SHIELD HEAD
57	604-264501-00A	TAPPING SCREW C TYPE BID H 2.6X5MM
58	299-AA0312-01S	LID BRACKET WHITE TX-3 ABS
59	229-AA0303-01S	LID BRACKET BLACK ABS
60	330-385001-01	FRONT CUSHION FOOT
61	619-300208-00	TAPPING SCREW P TYPE BID H 3X8MM BLACK
62	602-407008-60A	TAPPING SCREW P TYPE WASHER H 4X8MM
63	619-300212-00	TAPING SCREW P TYPE BID H 3X12MM BLACK
64	703-385002-01	DAMPER DA-60W/W (105) ASSEMBLY
65	263-AA0303-01K	DECK DIR LENS AS
66	229-AA0315-01Z	LATCH BRACKT(R) POM
67	263-AA0501-02K	PROG DISPLAY LENS GREY SMOKE (P-96011)AS
68	470-AA0321-01	CASS DOOR SPRING SHEET
69	211-AA0302-01S	CASS DOOR (R) HI-PS
70	471-AA0302-01	CASS DOOR SPRING WIRE (R)
71	471-AA0301-01	CASS DOOR SPRING WIRE (L)
72	229-AA0501-01S	PRO LED BRACKET WHITE ABS
73-a(AC-620/623R)	001-873855-42	POWER TRANSF ORMER C1050-E
73-b(AC-625K)	001-873855-02	POWER TRANSFORMER C1050-U
74	741-495300-09	LOGICAL CONTROL DECK MECHA GT-E5300 (P/B)
75	741-495600-09	LOGICAL CONTROL DECK MECHA GT-E5600 (R/P)
76	418-AA0501-01S	OVERLAY CLEAR SILK'S MILKY WHITE COLOR PVC
77	606A301208-00	TAPING SCREW P TYPE BID H 3X1.25PX8MM
78	619-300210-00	TAPPING SCREW P TYPE BID H 3X10MM BLACK
79	291-AA0304-01S	BASS BUTTON MILKY WHITE (CL-301) ABS
80-a(except,B1,Y6,S1)	071-669078-00A	AC LINE CORD VDE
80-b(B1,Y6)	071-449078-20	AC LINE CORD BS
80-c(S1)	071-559078-10	AC LINE CORD SAA
81	229-385016-01Z	LATCH BRACKET BLACK POM

MAL ASSEMBLY BOOK

MODEL : AC-A20/B23P/S23A



11. SPEAKER SYSTEM (SR-425)

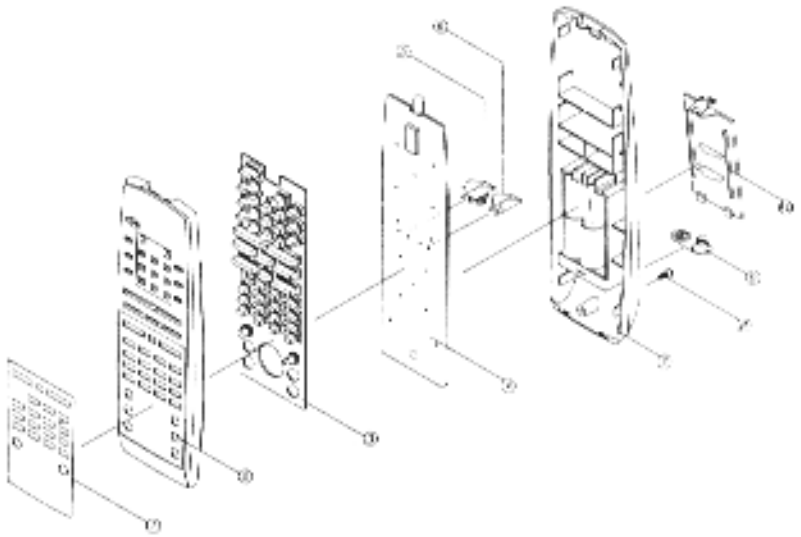


REF. NO	PART NO	DESCRIPTION
1	286-385002-01S	NAME PLATE FOR AKAI
2	583-051501-01	SPEAKER CLOTH
3	239-051501-01R	FRAME NET (R)
4	259-050201-01Z	CUSHION FOR SPEAKER BOX BLK S B.R
5	610-350220-10	SELF-TAPPING SCREW R/T 3.5X20MM
6	614-400216-30	SELF-TAPPING SCREW R/T 4.0X16MM BLACK
7	066-953254-WT	WOOFER SPEAKER
8	259-381301-01	CUSHION
9	070-100027-02Z	27MM PIEZO
10	066-283220-WT	MIDRANGE SPEAKER
11	462-333202-01	SPEAKER CLIP
12	612-300210-10	SELF-TAPPING SCREW 3X10MM

12. REMOTE EXPLODED DIAGRAM AND PARTS LIST

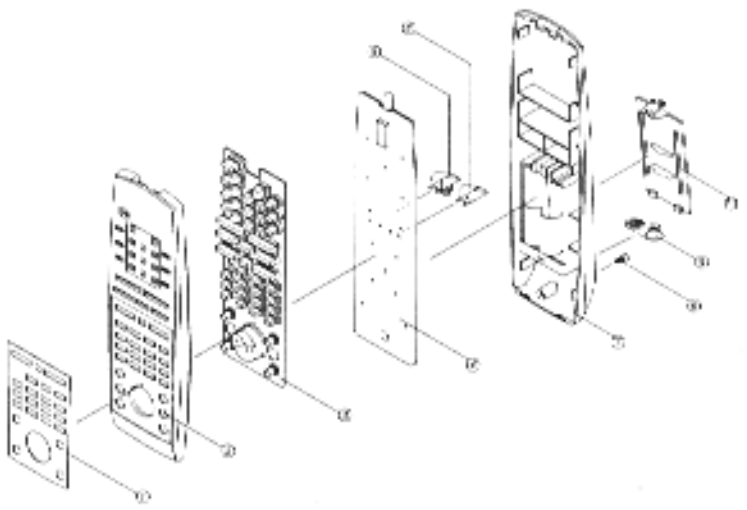
RC-S520

REF. NO	PART NO	DESCRIPTION
*	790-010301-01	REMOTE CONTROL HANDSET RC-S520
*	411-010301-01	REMOTE NAME PLATE
2	201-010302-01S	REMOTE CAB TOP
3	334-010311-01	REMOTE CONTATIVE RUBBER (46 KEYS)
4	090-010302-03	PCB REMOTE BOARD
5	473-010311-01	BATT CONTACT SPRING SHEET-VE
6	472-010311-01	BAT CONTACT PLATE +VE
7	203-010311-01S	REMOTE CABINET BOTTOM
8	610-260206-10	SELF-TAPPING SCREW K/T 2.6X6
9	474-010101-01	BAT CONTACT SPRING WIRE +/-VE
10	210-010301-01S	REMOTE BATTERY COVER



RC-S720

REF. NO	PART NO	DESCRIPTION
*	790-010302-01	REMOTE CONTROL HANDSET RC-S720
1	411-010302-01	REMOTE NAME PLATE
2	201-010301-02S	REMOTE CAB TOP
3	334-010312-01	REMOTE CONTATIVE RUBBER (46 KEYS)
4	090-010302-03	PCB REMOTE BOARD
5	473-010311-01	BATT CONTACT SPRING SHEET-VE
6	472-010311-01	BAT CONTACT PLATE +VE
7	203-010311-01S	REMOTE CABINET BOTTOM
8	610-260206-10	SELF-TAPPING SCREW K/T 2.6X6
9	474-010101-01	BAT CONTACT SPRING WIRE +/-VE
10	210-010301-01S	REMOTE BATTERY COVER



XII. ABBREVIATIONS

TUNER

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	MultiPleX
ANT	ANTenna	MW	Medium Wave(frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BuFFer	OSC	OSCillator
COMP	COMParator	PCB	Printed Circuit Board
DET	DETect(DETector)	PLL	Phase Locked Loop
FLD	FLuorescent Display	Q.D	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institute of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	Switch: Short Wave(frequency)
LCH	Left CHannel	THD	Total Harmonic Distortion
LED	Light Emitting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
XTAL	Crystal		

COMPACT DISC

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
A-D	Analog to Digital(Converter)	Mb	Mega Bits
ADC	Analog Code Decimal (Converter)	MDA	Motor Drive Amplifier
BCD	Binary Code Decimal	MFM	Modified Frequency Modulation
BPI	Bits Per Inch	MW	Mono-stable Multivibrator
CD	Compact Disc	M2FM	Modified Modified Frequency Modulation
CIRC	Cross Interleaving & Reed Solomon Coding	MOD2	Module 2 (Addition)
		MP	Microprocessor
CLV	Constant Linear Velocity	MSB	Most Significant Bit
CP	Clock Pulses	NA	Numerical Aperture
CRCC	Cyclic Redundancy Check Codes	NRZ	Non Return to Zero
D Level	Decision Level	NRZ-I	Non Return to Zero Inverted
D-A	Digital to Analog(Converter)	P	Parity Data
DAC	Digital to Analog(Converter)	PAM	Pulse Amplitude Modulation
DAD	Digital Audio Disc	PCM	Pulse Code Modulation
DEM	Dynamic Element Matching	PD	Phase Detector
DPD	Differential Phase Detection	PE	Phase Encode
DSV	Digital sum Value	PLL	Phase locked Loop
EFM	Eight to Fourteen Modulation	PNM	Pulse Number Modulation
EX-OR	Exclusive OR	PPM	Pulse Phase Modulation
FCI	Flux Changes per Inch	PWM	Pulse Width Modulation
FIR	Finite Impulse Response	Q	Parity Data
FP	Front Pulse	R,R1,R2,ect.	Data for Right Channel
FPG	Front Pulse Gate	RAM	Random Access Memory
F	Frequency of Sampling	RPG	Rear Pulse Gate
GF	Galois Field	SCOOP	Self Coupled Optical Pick-up
H&V(Parity)	Horizontal & Vertical	S&H	Sample & Hold
IIR	Infinite Impulse Response	S/N	Signal to Noise Ratio
KB	Kilo Bits	SSG	Standard Signal Generator
L,L1,L2,ect.	Data for Left Channel	SYSCON	SYStem CONtrol
LPF	Low Pass Filter		
LSB	Least Significant Bit		

CASSETTE

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AC	Alternating Current	MIN	Minute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	MultiPlex
AR	Anti Recording	NC	Not connected (No Connection)
ATBIAS	Auto Turning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEFB	and Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAPM	CAPstan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuance	RCH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECord (RECording)
		REV	REVerse
CS	Chip Select	ROT	ROTation
D/A	Digital/Analog	REW	REWind
DC	Direct Current	SEC	SECond
DET	DETector	SELE	SELEctor
DISCRI	DISCRIminator	SENS	SENSitivity
DUB	DUBbing	SEPP	Single Ended Push Pull
EQ	EQualizer	SIG	SIGnal
FF or (F.FWD)	Fast Forward	SPECT	SPECTrum
FLD	FLuorescent Display	STD	STanDard
FREQ	FREQuency	SW	SWitch
FWD	ForWarD	SYSCON	SYStem CONtrol
GND	GrouND	TP	TEST Point
H	High	TRIG	TRIGa
HPF	High Pass Filter	VCA	Voltage Control Attenuator
IND	INDicator	VOL	Volume
IPLS	Instant Program Location System	VOLT	VOLTage
L	Low	VR	Variable Resistor
LCH	Left Channel	XTAL	crysTAL
LED	Light Emitting Diode	X1	Normal speed
MEMO	MEMOry	X2	Double speed
MICOM	MIcroCOMputer		

TX-420/620
(AC-420/423R/426K)
(AC-620/623R/626K)

AKAI

AKAI ELECTRIC CO., LTD.

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