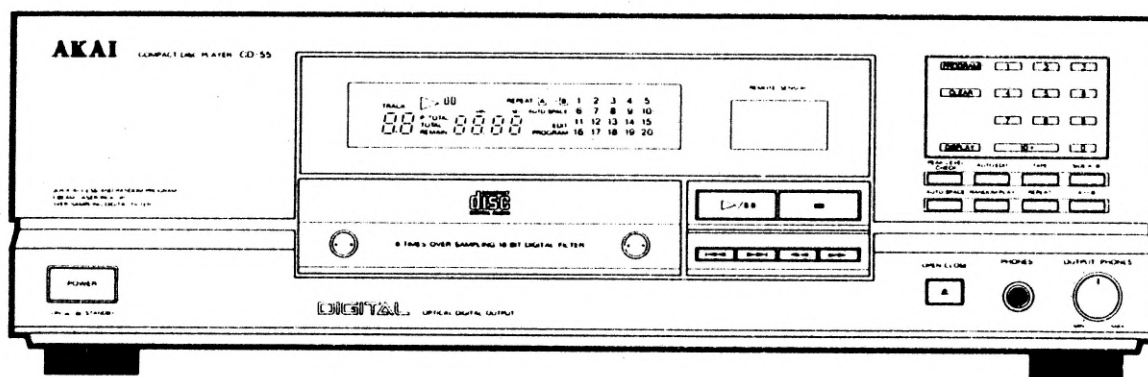


AKAI SERVICE MANUAL



COMPACT DISC PLAYER

MODEL **CD-55**

SPECIFICATIONS

Pick-up system	3 beam laser pick-up
Sampling frequency	44.1kHz
Digital filter	18 bit, 8 times over sampling
D/A converter	16 bit linear
Error correction system	Cross Interleave Reed Solomon
Number of channels	2 channels stereo
Frequency response	4Hz to 20kHz \pm 0.5dB
Dynamic range	96dB
S/N ratio	108dB
Total harmonic distortion	0.0028%
Wow & flutter	Less than measurable limits
Output level	
Analog output (line)	2V(0dB)
Digital output (coaxial)	0.5V p-p/750ohms
(optical)	-22dBm, wave length 660nm
Headphone output	70mW/32ohms
Power requirements	220V, 50Hz for Europe except UK 240V, 50Hz for UK and Australia 110V-120V/220V-240V, 50Hz/60Hz convertible for other countries
Dimensions	425(W) \times 141(H) \times 343(D)mm (16.7 \times 5.6 \times 13.5 inches)
Weight	4.2kg (7.9 lbs)

Standard accessories

Connection cord	X1
Remote control unit	X1
Batteries for the remote control unit	X2
Operator's manual	X1

* For improvement purposes, specifications and design are subject to change without notice.

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

- Parts identified by the \star symbol are critical for safety. Replace only with parts number specified.
- 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 selector switches, RF cables, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

- Use specified internal wiring. Note especially:
 - Wires covered with PVC tubing
 - Double insulated wires
 - High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - Insulation Tape
 - PVC tubing
 - Spacers (Insulating Barriers)
 - Insulation sheets for transistors
 - Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- Check that replaced wires do not contact sharp edged or pointed parts.
- Also check areas surrounding repaired locations.
- Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

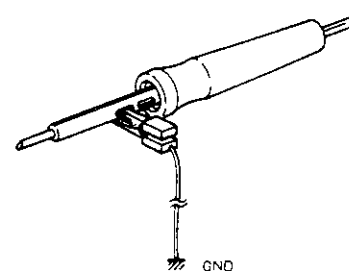
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 μ F capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

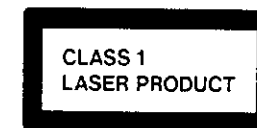
PRECAUTIONS IN REPAIRING

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

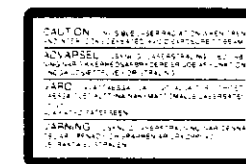
- Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
- When the base is removed for repair or adjustment, make sure that there are no metal objects in the narrow gap between the P.C. board or the mecha parts and the base.
- The Micro-Computer and the CD signal processing ICs can 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.



[DENMARK, UK, USA]



A Label affixed on the unit



A Label affixed inside of the unit

★ INFORMATION

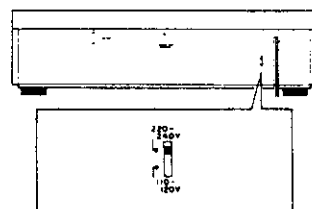
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

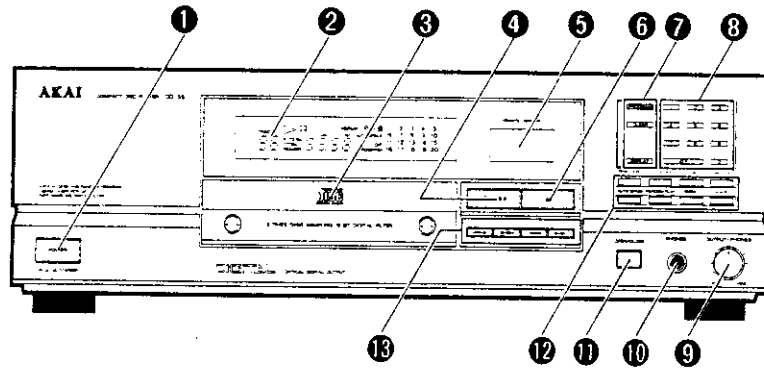
VOLTAGE CONVERSION (□ Model only)

Before connecting the power cord. Set the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



I. CONTROLS

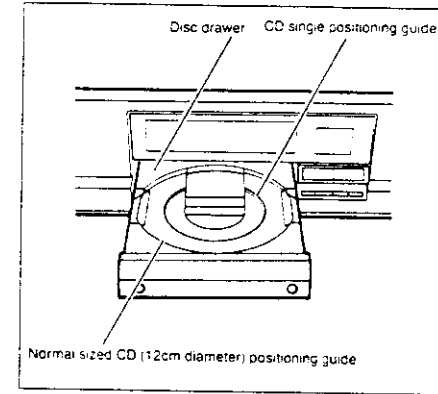
I-1. FRONT PANEL



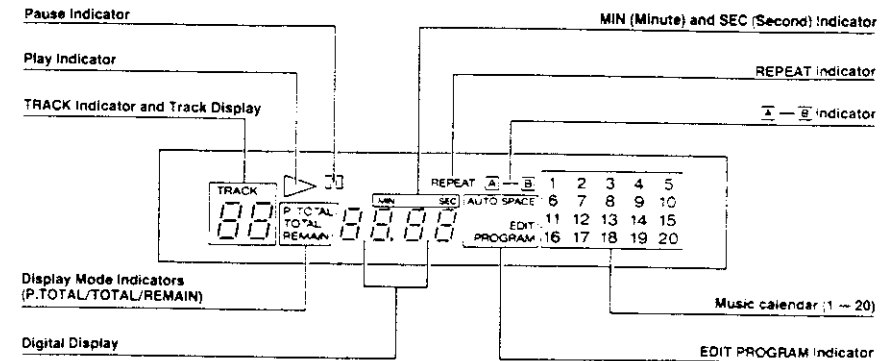
- 1 POWER Button (ON \square /STANDBY \blacksquare)**
To turn the power on and off.
Attention
The POWER button is not a primary power switch. Even when the POWER button is set to STANDBY \blacksquare , the power supply to this CD player is not completely turned off. If you wish to completely turn the power off, disconnect the power cord from the household AC outlet.
- 2 FL (Fluorescent) Display**
Tells you what the CD player is doing.
- 3 Disc Drawer**
Load a compact disc here.
- 4 PAUSE/PLAY/PAUSE Button**
To start and stop playback temporarily.
- 5 REMOTE SENSOR Window**
For reception of the remote control signal from the provided remote control unit RC-C55.
Keep away from strong light and direct sunlight as this will interfere with the remote control function.
- 6 ■ Button**
To stop playback.
- 7 PROGRAM Button**
To set the CD player to the random program mode.
CLEAR Button
To cancel all programmed tracks of the random program or the automatic edited program.
DISPLAY button
To display the total elapsed playback time or total remaining playback time on the digital display.
- 8 AUTO EDIT Button**
To set the CD player to the automatic edit program playback mode.
TAPE Button
To select the length of the cassette tapes for automatic edit program operation.
SIDE A/B Select Button
To select the programmed tracks after setting the automatic edit program mode.
- 9 A \square -B Repeat Button**
For repeat playback of a specific section of the CD.
REPEAT Button
For repeat playback of all tracks, random program playback or random playback.
RANDOM PLAY Button
To start random playback.
AUTO SPACE Button
To set the blank intervals between tracks to a specific time (approximately 4 seconds) for uniformity during random program playback.
- 10 << and >> Buttons**
For manual search during playback.
<<< and >>> Buttons
To skip tracks during playback.
- 11 OUTPUT/PHONES Level Control**
To adjust the PHONES jack output and VARIABLE OUTPUT jacks levels.
- 12 PHONES Jack**
For headphone listening.
- 13 OPEN/CLOSE Button**
To open and close the disc drawer.

On the disc drawer

The disc drawer of this CD player is capable of holding a CD single (8cm diameter CD) for playback. Place the CD single on the center of the disc drawer as shown in the following illustration.



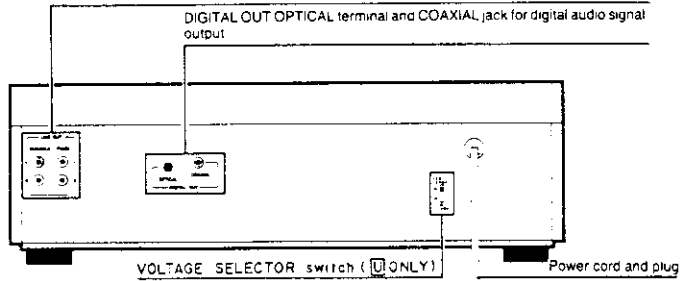
I-2. FL DISPLAY



1-3. REAR PANEL

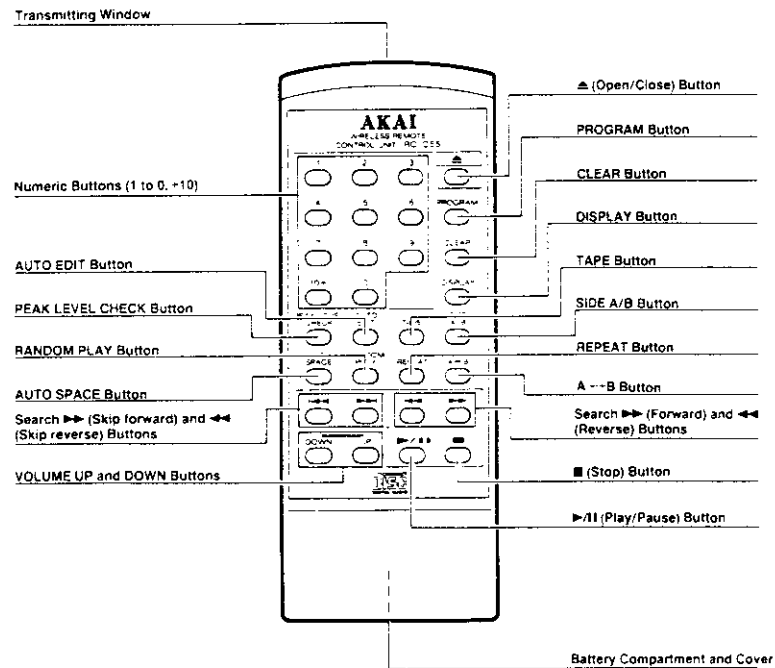
LINE OUT jacks for audio signal output.
 VARIABLE (Variable output level) jacks: Playback output levels are controlled by the OUTPUT/PHONES control and the UP or DOWN button on the provided remote control unit.

FIXED (fixed output level) jacks: Playback output levels are fixed at the specific output levels.
 DIGITAL OUT OPTICAL terminal and COAXIAL jack for digital audio signal output.



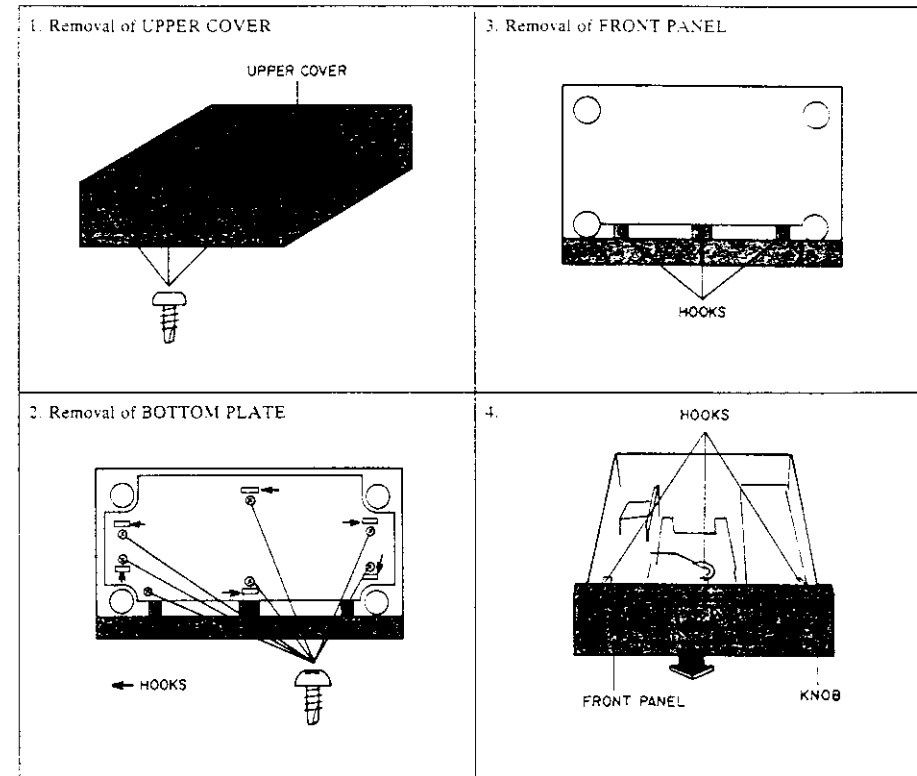
1-4. REMOTE CONTROL (RC-55)

The operation buttons on the remote control unit are the same as those on the CD player and can be used to conveniently control all the CD player's functions except power on/off.



II. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.



4-4. REMOVAL OF DISC DRAWER

- 1) Push the end of rail on the DISC DRAWER and set the DISC DRAWER to open position.
- 2) Turn the LEVER ③ while releasing the STOPPER ④ as shown Fig.4-4, and pull out the DISC DRAWER.
- 3) Reassemble in reverse order.

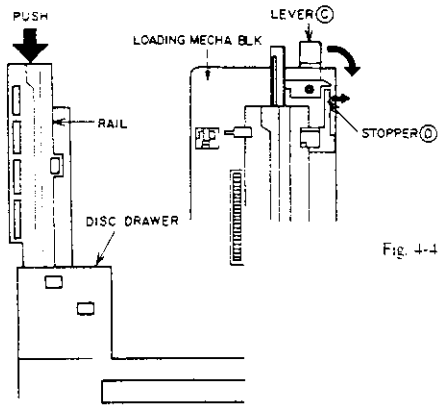


Fig. 4-4

4-5. REMOVAL OF LOADING MECHA BLOCK

- 1) Turn the LEVERS ③ while releasing the STOPPERS ④ as shown Fig.4-5.
- 2) Pull out the LOADING MECHA BLK.
- 3) Reassemble in reverse order.

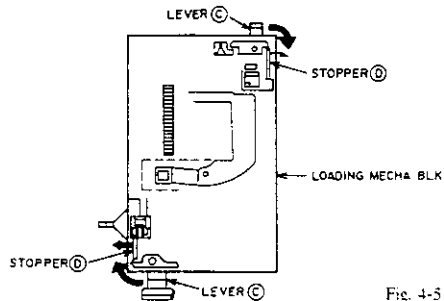


Fig. 4-5

4-6. REMOVAL OF PICK UP MECHA BLK

- 1) Turn the LEVERS ⑤ while releasing the STOPPERS ⑥ as shown Fig.4-6.
- 2) Pull out the PICK UP MECHA BLK.
- 3) Reassemble in reverse order.

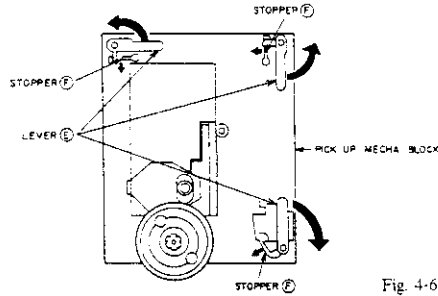


Fig. 4-6

4-7. REMOVAL OF LOADING MOTOR

- 1) Remove the LOADING BELT from MOTOR PULLEY.
- 2) Remove two SCREWS ⑤ and remove LOADING MOTOR.
- 3) Reassemble in reverse order.

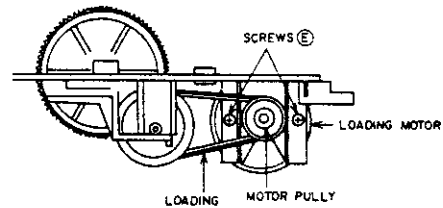


Fig. 4-7

4-8. REMOVAL OF PICK UP BLOCK

- 1) Push PICK UP SLED SHAFT while releasing the STOPPER ⑧ as shown Fig.4-8 and pull out the PICK UP SLED SHAFT, then remove PICK UP BLK.
- 2) Reassemble in reverse order.

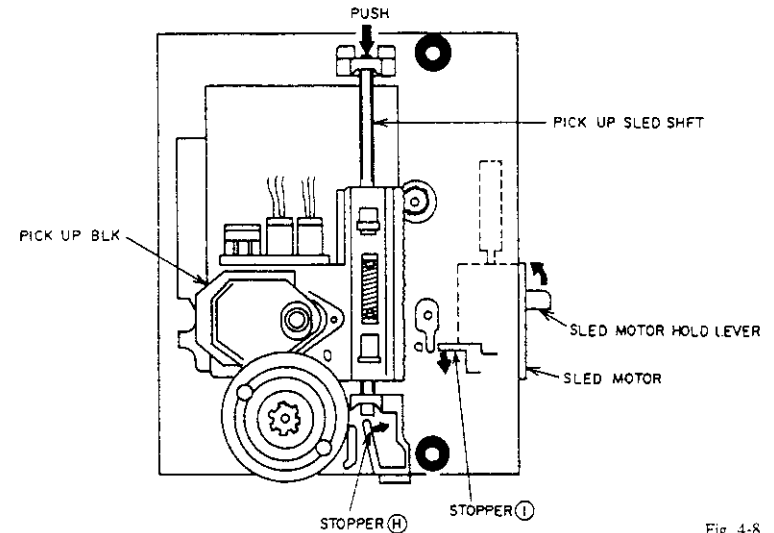


Fig. 4-8

4-10. REMOVAL OF SPINDLE MOTOR

- 1) Remove two fixation SCREWS ⑩ of the SPINDLE MOTOR through the hole on the TURN TABLE as shown Fig.4-9.
- 2) Reassemble in reverse order.

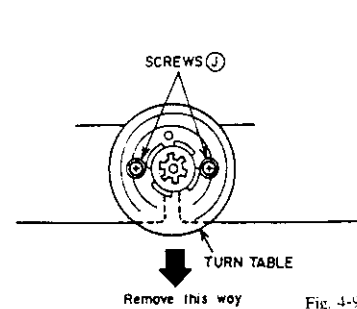


Fig. 4-9

V. ELECTRICAL ADJUSTMENT

[About the TEST mode]

- This TEST mode use for the adjustment or check.
- How to set into the TEST mode.
Turn the power on, while pressing the , and buttons on the front panel.
- How to change the TEST mode number.
Press the button, then advance a TEST mode number, when TEST mode number is returned to initial TEST mode number, press button.

STEP	ADJUSTMENT ITEM
1.	TEST DISC
2.	MODE or TEST mode
3.	TEST POINT and ADJ. part
4.	RESULT & REMARKS

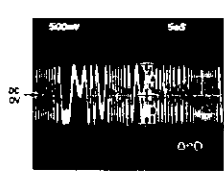
Test Point → ADJ. Part

4 FOCUS OFF-SET

- Test disc 5A(AT-751330)
- Test mode 2 and 1
- TP(FE), VR2
- Connect a digital DC voltmeter to TP(FE) and check voltage A in the test mode 2, then press STOP button and adjust VR2 so that the reading voltage B on the digital DC voltmeter is same as voltage A.

2 E-F BALANCE

- Test disc 5A(AT-751330)
- Test mode 3
- TP(TE), VR1
- Connect an oscilloscope to TP(TE)
* A=B

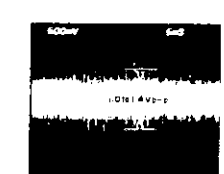


1 VCO

-
- 10 seconds after power is on.
- TP(WFCK), VR5
- Connect a frequency counter to TP(WFCK)
Connect TP (EFM) to GND by jumper wire.
* 7330 ± 10Hz

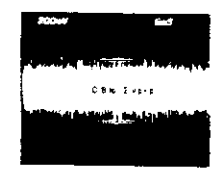
3 FOCUS SERVO GAIN

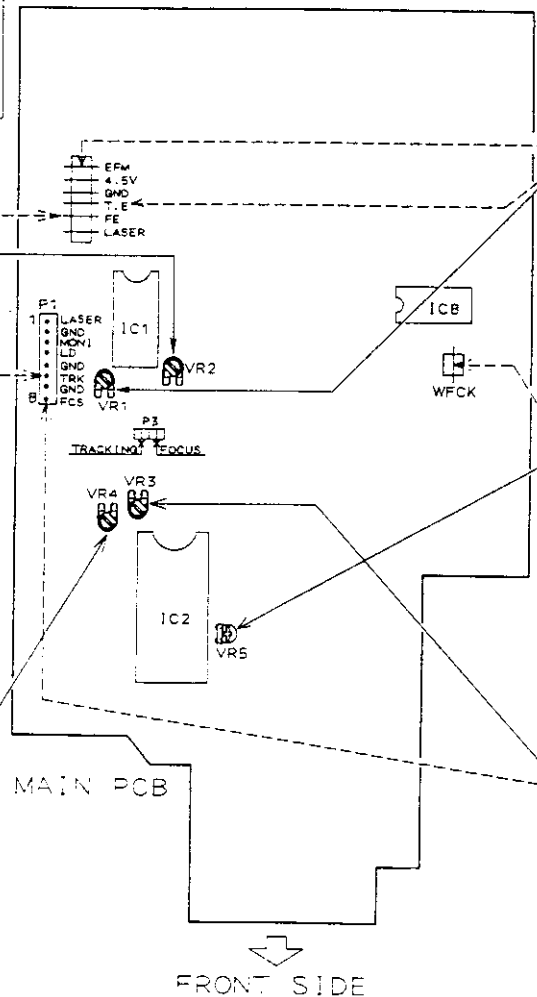
- Test disc 5A(AT-751330)
- PLAY
- Pin ⑥ of connector P1, VR3
- Connect an oscilloscope to pin ⑥ (FCS) of connector P1.
* 1.0 to 1.4Vp-p



5 TRACKING SERVO GAIN

- Test disc 5A(AT-751330)
- PLAY
- Pin ⑥ of connector P1, VR4
- Connect an oscilloscope to pin ⑥ (TRK) of connector P1.
* 1.0 to 1.2Vp-p





TEST mode condition and DISPLAY	
TRACK MIN SEC 1	Indicated that unit is set into the TEST mode.
TRACK MIN SEC 12	Indicated that the end of FOCUS SEARCH.
TRACK MIN SEC 123	Set into the CLV-S mode. Tracking servo gain is set to the same as "JUMP" mode.
TRACK MIN SEC 1234	Tracking servo is on.
TRACK MIN SEC 12345	Unit into the normal play mode except anti shock is "OFF". After this, track NO and time count become normal indication.
TRACK MIN SEC 123456	Anti shock is "ON" and unit is into normal condition. If press the button again, unit will enter the normal "power ON" mode.

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery 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.

HOW TO USE THIS PARTS LIST

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.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF NO.	PART NO.	DESCRIPTION
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R.F. PR4-8FL/C
3	ZS-477876	PAN20X03STL CMT
4	ZS-536488	BID20X08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

REF NO.	PART NO.	DESCRIPTION
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U]E B S
C1B	EC-350949	C MMY V 223M 250DC [U]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC XTAL NC-18C

Symbols for primary destination -

- [A] : AAL (U.S.A.)
- [S] : SAA (Australia)
- [B] : BEAR (England)
- [U] : U.T. (Universa Area)
- [C] : CSA (Canada)
- [E] : CEE (Europe)
- [V] : VDE (W. Germany)
- [J] : JPN (Japan)
- [Y] : Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

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

AVERTISSEMENT

Δ(*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	BM-730687T	MOTOR PC-050Y-10240
2	EM-730688T	MOTOR RF-31GT-11400
3	BM-730689T	MOTOR RF-500TB-12560
4	*BC-368598	PICK UP KSS-150A
5	*BT-730710T	TRANS PCW E1-48K (B.S) (B.S)
6	*BT-730709T	TRANS PCW E1-48K (E.V) (E.V)
7	*BT-730718T	TRANS PCW E1-48K (U) (U)
8	ED-307572	D SILICON - 1SS131
9	*ED-369840U	D SILICON 1SR139-100HS P10
10	ED-346627	D ZENER H-4Z39-2
11	ED-708301	D ZENER H-RD24E B
12	ED-324458	D ZENER H-RD51E B
13	ED-200967	D ZENER H-RD56E B2
14	ED-305442	D ZENER H-RD69E B
15	ED-381679U	DETECTOR A10H3011HO
16	*EF-358641	FUSE BET T 250V 800MA (E.V,B.S)
17	EI-391092U	IC AD1886N
18	EI-377857	IC BA6247N
19	EI-390112U	IC CXA1081S
20	EI-390120U	IC CXA1082BS
21	EI-388090U	IC CXD11250
22	EI-382251U	IC LC2517BS-15
23	EI-390122U	IC M50957-188SP P2057-1
24	EI-307644	IC NJM4556D
25	EI-723861U	IC NJM4556DD
26	EI-392838U	IC PD0050
27	EI-360039U1	IC TC74HC08AP
28	EI-371572	IC UPC7805H
29	EI-390149U	OSC CE CS7-4 23MGW 4 230MHZ
30	EI-374176	OSC XTAL AT-51 16.9344MHZ
31	EM-388559U	IND FL FV338G CHARACTER
32	ES-720694T	SW LEAF LSC-1223-31
33	ES-390127U	SW PUSH SPP912
34	ES-390128U	SW PUSH SPP12018A 02-02N
35	*ES-349464	SW SLIDE 00120319 01-2 (U)
36	ES-349474	SW TACT SKH1AM004A [SERCH FWD]
37	ET-356336	TR DT4114ES
38	ET-388653U	TR ZSA1209 S
39	ET-352726	TR ZSA1392 T.U
40	ET-356817	TR ZSB9891 Q.R
41	ET-730702T	TR ZSB909MR
42	ET-338410	TR ZSC2878 A,B
43	ET-378524J	TR ZSC3383 S.T.U
44	ET-398708	TR ZSC945L R
45	ET-354083	TR ZSD1189 Q.R
46	ET-730698T	TR ZSD1225MR
47	EY-731180T	VR 20KAX2 RK16Y12MR005-CP
48	MB-730693T	BELT

2. CD MECHANISM

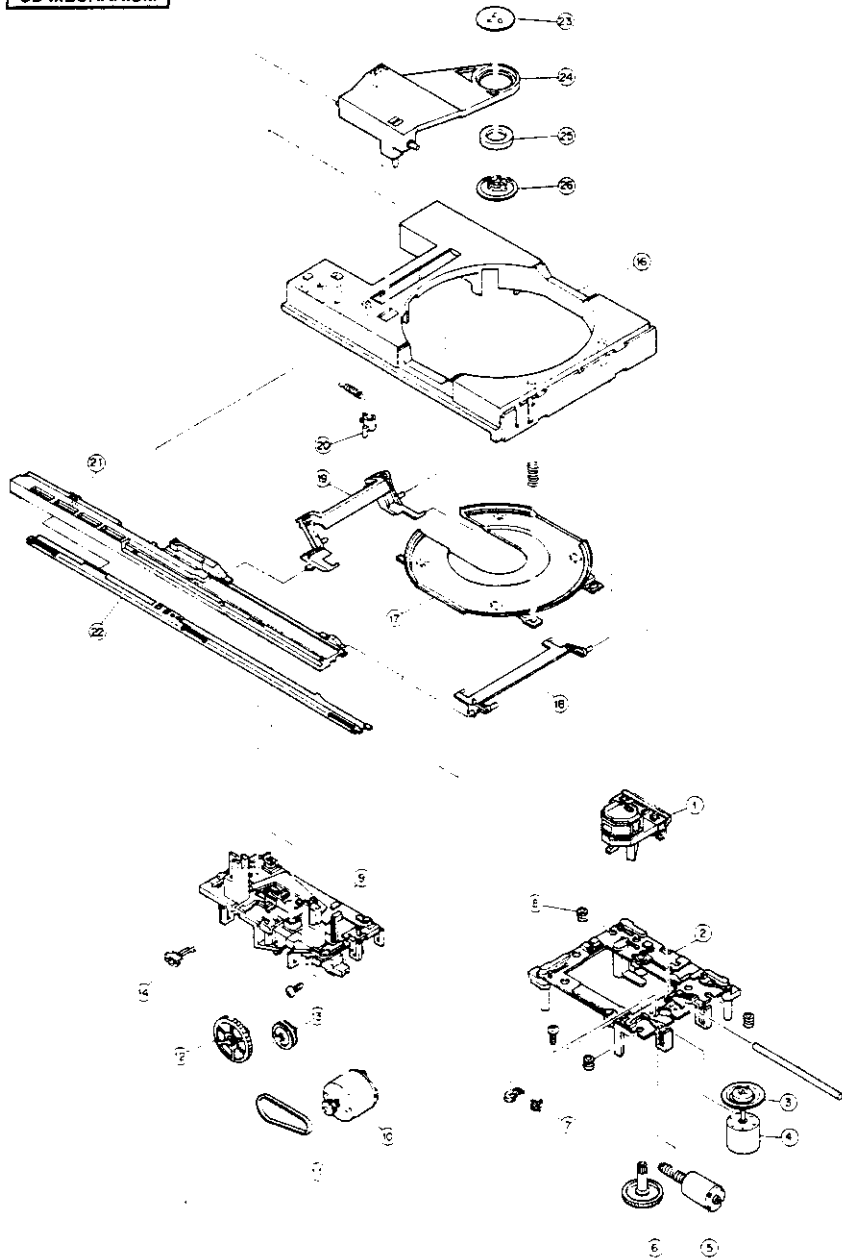
Ref. No.	Part No.	Description
1	*BC-368598	PICK UP KSS-150A
2	MA-731007T	CHASSIS OUTSERV
3	MZ-730688T	TURNABLE OUTSERV
4	SM-730688T	MOTOR RF-31GT-11400
5	EM-730687T	MOTOR PC-050Y-10240
6	MZ-731011T	GEAR WHEEL
7	ES-390127U	SW PUSH SPP912
8	MB-730688T	RUBBER OLSHON
9	MA-731008T	LOADING CHASSIS OUTSERV
10	SM-730695T	MOTOR RF-500TB-12560
11	MB-730693T	BELT
12	MZ-730691T	GEAR LOADING
13	MZ-730692T	GEAR LOADING PULLEY
14	ES-730694T	SW LEAF LSC-1223-31
15	SC-731017T	DISC TRAY
17	MZ-731016T	DISC HOLDER
18	ML-730678T	DISC HOLDER (F)
19	ML-730679T	DISC HOLDER (R)
20	MZ-730680T	LOCK LEVER
21	MZ-731019T	CAM LOADER
22	MZ-731018T	DISC TRAY GUIDE
23	MZ-731012T	CHUCKING PLATE
24	MZ-731015T	CLAMPER HOLDER
25	MZ-731014T	MAGNET 30X18X5
26	MZ-731013T	CLAMPING PLATE

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

3. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-731133T	PC MAIN BLK CD-55
2	BA-731184T	PC CONTROL BLK CD-55

CD MECHANISM



PARTS LIST

4. MAIN P.C BOARD

Ref. No.	Part No.	Description
D1	*ED-389840J	D SILICON 1SR139-100HS F10
D2	*ED-389840J	D SILICON 1SR139-100HS F10
D3	*ED-389840J	D SILICON 1SR139-100HS F10
D4	*ED-389840J	D SILICON 1SR139-100HS F10
D5	*ED-389840J	D SILICON 1SR139-100HS F10
D6	*ED-389840J	D SILICON 1SR139-100HS F10
D7	ED-389840J	D SILICON 1SR139-100HS F10
D8	ED-389840J	D SILICON 1SR139-100HS F10
D9	ED-389840J	D SILICON 1SR139-100HS F10
D10	ED-389840J	D SILICON 1SR139-100HS F10
D11	ED-346627	D ZENER H HZ33 2
D12	ED-324458	D ZENER H RD5 1E B
D14	ED-305442	D ZENER H RD6 8E B
D15	ED-307572	D SILICON H 1S5131
D17	ED-307572	D SILICON H 1S5131
D18	ED-307572	D SILICON H 1S5131
D19	ED-307572	D SILICON H 1S5131
D20	ED-307572	D SILICON H 1S5131
D21	ED-307572	D SILICON H 1S5131
D24	ED-307572	D SILICON H 1S5131
D25	ED-307572	D SILICON H 1S5131
D26	ED-324458	D ZENER H RD5 1E B
D28	ED-389840J	D SILICON 1SR139-100HS F10
D30	ED-324458	D ZENER H RD5 1E B
D31	ED-706301	D ZENER H RD2 4E B
D32	ED-200967	D ZENER H RD5 6E B2
D33	ED-324458	D ZENER H RD5 1E B
D34	ED-200967	D ZENER H RD5.6E B2
D35	ED-307572	D SILICON H 1S5131
IC1	EI-390112J	IC CXA1081S
IC2	EI-390120J	IC CXA1382BS
IC3	EI-388090J	IC CXD11250
IC4	EI-382251J	IC LC3517BS-15
IC5	EI-390122J	IC M59957-188SP P2057-1
IC6	EI-360039J1	IC T274HC08AP
IC7	EI-377857	IC BA6247N
IC8	EI-392836J	IC P00050
IC9	EI-391092J	IC AD1856N
IC16	EI-723861J	IC NJM4558DD
IC11	EI-723861J	IC NJM4558DD
IC12	EI-371572	IC UPC7805H
J3	EJ-390116J	PIN J 76312-AAAA 1P
J4	EJ-731182T	PIN J 4P RCA ALC-035-ACB
OP1	EJ-374191	SOCKET OPTICAL T0TX172
T1	BT-368261	TRANS PULSE TC-1027-04
TR1	ET-336735	TR 2SA733A P.K
TR4	ET-398786	TR 2SC945L R
TR5	ET-336735	TR 2SA733A P.K
TR6	ET-336735	TR 2SA733A P.K
TR7	ET-354083	TR 2SD1189 Q.R
TR8	ET-356817	TR 2SB891 Q.R
TR9	ET-354083	TR 2SD1189 Q.R
TR10	ET-730702T	TR 2SB909MR
TR11	ET-354083	TR 2SD1189 Q.R
TR12	ET-356817	TR 2SB891 Q.R
TR13	ET-730698T	TR 2SD1225MR
TR14	ET-730702T	TR 2SB909MR
TR15	ET-398786	TR 2SC945L R
TR17	ET-336735	TR 2SA733A P.K
TR18	ET-398786	TR 2SC945L R
TR19	ET-336735	TR 2SA733A P.K
TR20	ET-398786	TR 2SC945L R
TR21	ET-398786	TR 2SC945L R
TR22	ET-378524J	TR 2SC3383 S.T.U
TR23	ET-352726	TR 2SA1392 T.U
TR24	ET-398786	TR 2SC945L R
TR25	ET-398786	TR 2SC945L R
TR26	ET-388853J	TR 2SA1209 S
TR27	ET-356817	TR 2SB891 Q.R
TR28	ET-336735	TR 2SA733A P.K
TR29	ET-356336	TR D7A114ES
TR30	ET-356336	TR D7A114ES
TR31	ET-336735	TR 2SA733A P.K
TR32	ET-356336	TR D7A114ES
VR1	EV-336848	R S-FIX H KV5F807U 0.10W 203 [E.F. BALANCE]

Ref. No.	Part No.	Description
VR2	EV-336848	R S-FIX H KV5F807U 0.10W 203 [FOCUS OFF SET]
VR3	EV-336848	R S-FIX H KV5F807U 0.10W 203 [FOCUS GAIN]
VR4	EV-336848	R S-FIX H KV5F807U 0.10W 203 [TRACKING GAIN]
VR5	EV-341232	R S-FIX H TM8KV2-1S 0.50W 102 [PLL]
X1	EI-374176	OSC X'TAL AT-51 16.9344MHZ
X2	EI-390149J	OSC CE CST4 23MGW 4.230MHZ

5. POWER P.C BOARD

Ref. No.	Part No.	Description
C201A	*EC-338496	C CE V DE7 FZ 472P 400AC [E.V.B.S]
C201B	*EC-338411	C CE V DE7 FZ 103P 400AC [U]
C202A	*EC-338496	C CE V DE7 FZ 472P 400AC [E.V.B.S]
C202B	*EC-338411	C CE V DE7 FZ 103P 400AC [U]
F101	*EF-358641	FUSE BET T 250V 800MA [E.V.B.S]
F102	*EF-358641	FUSE BET T 250V 800MA [E.V.B.S.U]
LF201	*EH-730701T	LINE FILTER LF-2217 [E.V.]
VS201	*ES-349464	SW SLIDE 00120319 01-2 [U]

PARTS LIST

6. CONTROL P.C BOARD

Ref. No.	Part No.	Description
D301	ED-307572	D SILICON H -SS131
D302	ED-307572	D SILICON H -SS131
D303	ED-307572	D SILICON H -SS131
D304	ED-307572	D SILICON H -SS131
D305	ED-307572	D SILICON H -SS131
D306	ED-307572	D SILICON H -SS131
D307	ED-307572	D SILICON H -SS131
D308	ED-307572	D SILICON H -SS131
INC1	EM-388559J	IND FL FV338G CHARACTER
RM301	ED-381879J	DETECTOR AIOH3011HO
TS1	ES-349474	SW TACT SKHAM004A [SERCH FWD]
TS2	ES-349474	SW TACT SKHAM004A [SERCH REV]
TS3	ES-349474	SW TACT SKHAM004A [SKIP FWD]
TS4	ES-349474	SW TACT SKHAM004A [SKIP REV]
TS5	ES-349474	SW TACT SKHAM004A [OPEN/CLOSE]
TS6	ES-349474	SW TACT SKHAM004A [STOP]
TS7	ES-349474	SW TACT SKHAM004A [PLAY/PAUSE]
TS8	ES-349474	SW TACT SKHAM004A [3]
TS9	ES-349474	SW TACT SKHAM004A [2]
TS10	ES-349474	SW TACT SKHAM004A [1]
TS11	ES-349474	SW TACT SKHAM004A [PROGRAM]
TS12	ES-349474	SW TACT SKHAM004A [6]
TS13	ES-349474	SW TACT SKHAM004A [5]
TS14	ES-349474	SW TACT SKHAM004A [4]
TS15	ES-349474	SW TACT SKHAM004A [CLEAR]
TS16	ES-349474	SW TACT SKHAM004A [9]
TS17	ES-349474	SW TACT SKHAM004A [8]
TS18	ES-349474	SW TACT SKHAM004A [7]
TS19	ES-349474	SW TACT SKHAM004A [0]
TS20	ES-349474	SW TACT SKHAM004A [-10]
TS21	ES-349474	SW TACT SKHAM004A [DISPLAY]
TS22	ES-349474	SW TACT SKHAM004A [SIDE A/B]
TS23	ES-349474	SW TACT SKHAM004A [TAPE]
TS24	ES-349474	SW TACT SKHAM004A [AUTO EDIT]
TS25	ES-349474	SW TACT SKHAM004A [PEAK LEVEL]
TS26	ES-349474	SW TACT SKHAM004A [A-B]
TS27	ES-349474	SW TACT SKHAM004A [REPEAT]
TS28	ES-349474	SW TACT SKHAM004A [RANDOM PLAY]
TS29	ES-349474	SW TACT SKHAM004A [AUTO SPACE]

7. POWER SW P.C BOARD

Ref. No.	Part No.	Description
S501	ES-390128J	SW PUSH SPUP12018A 02-02N

8. PHONE AMP P.C BOARD

Ref. No.	Part No.	Description
IC401	EI-307644	IC NJM4556D
J401	EJ-731181T	PHONE J 3P HTJ-064-03DG
TR401	ET-338410	TR 2SC2878 A,B
VR401	EV-731180T	VR 20KAX2 RK16Y12MR005-CP

9. FINAL ASSEMBLY

Ref. No.	Part No.	Description
1	SE-731194T	FRONT ESCUTCHEON CD-55B
2	SK-731196T	KNOB FUNCTION (BK)
3	SP-731190T	PANEL TRAY CD-55B
4	SC-731188T	TOP COVER CD-55B
5	SE-731193T	DISPLAY PLATE
6	SK-373236B	KNOB POWER-B
7	SA-731154T	RING FOOT
8	SA-731156T	SHEET FOOT (F)
9A	*BT-730709T	TRANS POW EI-48K (E.V) (E.V)
9B	*BT-730710T	TRANS POW EI-48K (B.S) (B.S)
9C	*BT-730716T	TRANS POW EI-48K (U) (U)
10A	*EW-336923	AC CORD 2C KP-419C/LTCE-2F-EV (E)
10B	*EW-727063T	AC CORD BS6500 (B) (B)
10C	*EW-347898	AC CORD 2 CORES VM-0436/LCFL 5 (S)
10D	*EW-731025T	AC CORD UL 6.5F BLK2 SPT2 (U)
11	*EZ-730703T	STRAIN RELIEF SR-4K-6
12	ZS-365702	PLX BID30X10STL BN1
13	SM-365756C	NAME PLATE AKAI(2)
15	SK-731189T	KNOB VR (BK)
16	SA-731155T	SHEET FOOT (R)
17	SE-731186T	SUB PLATE ASSY
18	SP-731187T	FRONT PANEL CD-55B
19	SK-731195T	KNOB O/C (BK)
20	SK-731197T	KNOB PRESET (BK)

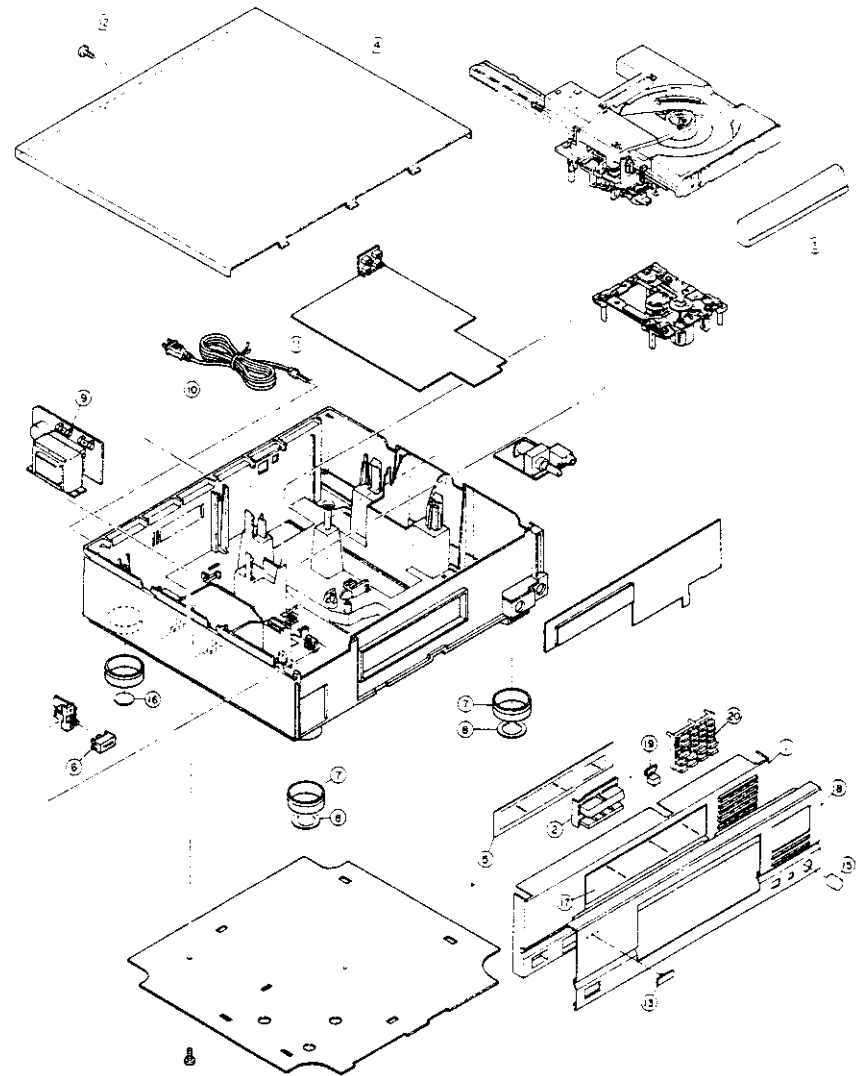
NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

10. ACCESSORY

Ref. No.	Part No.	Description
1	AX-731192T	REMOTE TRANSMITTER ASSY RC-55 (B)
2	EW-387930J	CORD R-237P P.P. 2P

FINAL ASSEMBLY BLOCK



INDEX

Part No	Ref. No	Part No	Ref. No	Part No	Ref. No	Part No	Ref. No
AX-7311927	10-1	EI-377657	1-16	ET-356336	1-37		
BA-7311837	3-1	EI-377857	4-C7	ET-356336	4-TR29		
BA-7311847	3-2	EI-382251	1-22	ET-356336	4-TR30		
BM-7306877	1-1	EI-382251J	4-C4	ET-356336	4-TR32		
BM-7306877	2-5	EI-38609C	1-21	ET-356817	1-40		
BM-7306887	1-2	EI-38809C	4-C3	ET-356817	4-TR8		
BM-7306887	2-4	EI-390112	1-19	ET-356817	4-TR12		
BM-7306957	1-3	EI-390112	4-C11	ET-356817	4-TR27		
BM-7306957	2-10	EI-390120	1-20	ET-378524J	1-43		
BO-368598	1-4	EI-390120J	4-C2	ET-378524J	4-TR22		
BO-368598	2-1	EI-390122J	1-23	ET-388853J	1-38		
BT-368261	4-T1	EI-390122J	4-C5	ET-388853J	4-TR26		
BT-730708T	1-6	EI-390149	1-29	ET-398788	1-44		
BT-730709T	9-9A	EI-390149J	4-X2	ET-398788	4-TR4		
BT-730710T	1-5	EI-391092J	1-17	ET-398788	4-TR15		
BT-730710T	9-9B	EI-391092J	4-C9	ET-398788	4-TR18		
BT-730716T	1-7	EI-392836	1-26	ET-398788	4-TR20		
BT-730716T	5-9C	EI-392836J	4-C8	ET-398788	4-TR21		
EC-338411	5-C201B	EI-723611	1-25	ET-398788	4-TR24		
EC-338411	5-C202B	EI-723611J	4-C10	ET-398788	4-TR25		
EC-338496	5-C201A	EI-723611J	4-C11	ET-730698T	1-46		
EC-338496	5-C202A	EJ-374191	4-OP1	ET-730698T	4-TR13		
ED-200967	1-13	EJ-390116J	4-J3	ET-730702T	1-41		
ED-200967	4-D32	EJ-7311817	6-J401	ET-730702T	4-TR10		
ED-200967	4-D34	EJ-7311827	4-J4	ET-730702T	4-TR14		
ED-305442	1-14	EW-305559	1-31	EV-336849	4-VR1		
ED-305442	4-D14	EW-388559J	6-IN301	EV-336849	4-VR2		
ED-307572	1-8	ES-349464	1-35	EV-336849	4-VR3		
ED-307572	4-D15	ES-349464	5-V5201	EV-336849	4-VR4		
ED-307572	4-D17	ES-349474	1-36	EV-341232	4-VR5		
ED-307572	4-D18	ES-349474	6-TS1	EV-731180T	1-47		
ED-307572	4-D19	ES-349474	6-TS2	EV-731180T	8-VR401		
ED-307572	4-D20	ES-349474	6-TS3	EW-336923	9-10A		
ED-307572	4-D21	ES-349474	6-TS4	EW-347898	9-10C		
ED-307572	4-D24	ES-349474	6-TS5	EW-387830J	10-2		
ED-307572	4-D25	ES-349474	6-TS6	EW-731063T	9-10B		
ED-307572	4-D35	ES-349474	5-TS7	EW-731025T	9-10D		
ED-307572	6-D301	ES-349474	6-TS8	EZ-730703T	9-11		
ED-307572	6-D302	ES-349474	6-TS9	MA-731007T	2-2		
ED-307572	6-D303	ES-349474	6-TS10	MA-731008T	2-9		
ED-307572	6-D304	ES-349474	6-TS11	MB-730686T	2-8		
ED-307572	6-D305	ES-349474	6-TS12	MB-730693T	1-46		
ED-307572	6-D306	ES-349474	6-TS13	MB-730693T	2-11		
ED-307572	6-D307	ES-349474	6-TS14	ML-730678T	2-18		
ED-307572	6-D308	ES-349474	6-TS15	ML-730679T	2-19		
ED-324458	1-12	ES-349474	6-TS16	ML-730680T	2-20		
ED-324458	4-D12	ES-349474	6-TS17	MZ-730655T	2-3		
ED-324458	4-D26	ES-349474	6-TS18	MZ-730691T	2-12		
ED-324458	4-D30	ES-349474	6-TS19	MZ-730692T	2-13		
ED-324458	4-D33	ES-349474	6-TS20	MZ-731011T	2-6		
ED-346627	1-10	ES-349474	6-TS21	MZ-731012T	2-23		
ED-346627	4-D11	ES-349474	6-TS22	MZ-731013T	2-26		
ED-381879J	1-15	ES-349474	6-TS23	MZ-731014T	2-25		
ED-381879J	6-RM301	ES-349474	6-TS24	MZ-731015T	2-24		
ED-389840J	1-9	ES-349474	6-TS25	MZ-731016T	2-17		
ED-389840J	4-D1	ES-349474	6-TS26	MZ-731018T	2-22		
ED-389840J	4-D2	ES-349474	6-TS27	MZ-731019T	2-21		
ED-389840J	4-D3	ES-349474	6-TS28	SA-731154T	9-7		
ED-389840J	4-D4	ES-349474	6-TS29	SA-731155T	9-16		
ED-389840J	4-D5	ES-390127	1-33	SA-731156T	9-8		
ED-389840J	4-D6	ES-390127J	2-7	SC-731017T	2-16		
ED-389840J	4-D7	ES-390128	1-34	SC-731188T	9-4		
ED-389840J	4-D8	ES-390128J	7-5501	SE-731186T	9-17		
ED-389840J	4-D9	ES-7306947	1-32	SE-731193T	9-5		
ED-389840J	4-D10	ES-7306947	2-14	SE-731194T	9-1		
ED-389840J	4-D28	ET-336735	4-TR1	SK-373236B	9-6		
ED-708301	1-11	ET-336735	4-TR5	SK-731189T	9-15		
ED-708301	4-D31	ET-336735	4-TR6	SK-731195T	9-19		
EF-358641	1-16	ET-336725	4-TR17	SK-731196T	9-2		
EF-358641	5-F101	ET-336725	4-TR19	SK-731197T	9-20		
EF-358641	5-F102	ET-336735	4-TR26	SM-365756C	9-13		
EH-730701T	5-LF201	ET-336725	4-TR31	SP-731187T	9-18		
EI-307644	1-24	ET-336410	1-42	SP-731190T	9-3		
EI-307644	6-IC401	ET-336410	6-TR401	ZS-365702	9-12		
EI-360039J	1-27	ET-352726	1-39				
EI-360039J	4-IC5	ET-352726	4-TR20				
EI-371572	1-28	ET-254062	1-45				
EI-371572	4-IC12	ET-254062	4-TR7				
EI-374176	1-30	ET-254382	4-TR9				
EI-374176	4-X1	ET-254382	4-TR11				

ABBREVIATIONS (COMPACT DISC)

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

AKAI

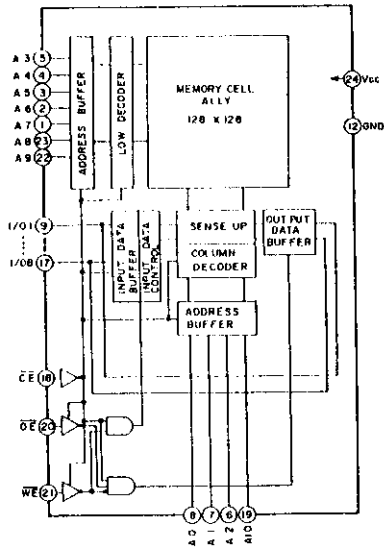
MODEL CD-55

SCHEMATIC DIAGRAMS AND PC BOARDS

TABLE OF CONTENTS

1. BLOCK DIAGRAM	3
2. SCHEMATIC DIAGRAM	4
3. MAIN AND OTHER PC BOARDS	5
4. INFORMATION OF ICs	6

LC3517BS-15 (16K BIT S-RAM)



PD0050 (DIGITAL FILTER)

Pin No.	Symbol	I/O	Description
1	XIN	I	Crystal OSC input or external OSC input
2	XOUT	O	Crystal OSC output
3	MODE 1	I	Master clock (XIN) and CKOUT Select *
4	CKOUT	O	External clock output *
5	TRK	I	TR clock input
6	DATA	I	Serial data input
7	CLK	I	Bit clock for input data
8	VSS		GND
9	MODE 2	I	"H" level output of 18 bit data "L" level output of 10 bit data
10	SHOUT	O	Sample and hold plus output
11	LDOUT	O	1.5k data output
12	RDOUT	O	1.5k data output
13	MODE 3	I	Master clock (XIN) and CKOUT select *
14	WDOUT	O	WDRP clock output
15	BDOUT	O	Bit clock output for LDOUT, RDOUT
16	VDD		+5V power supply

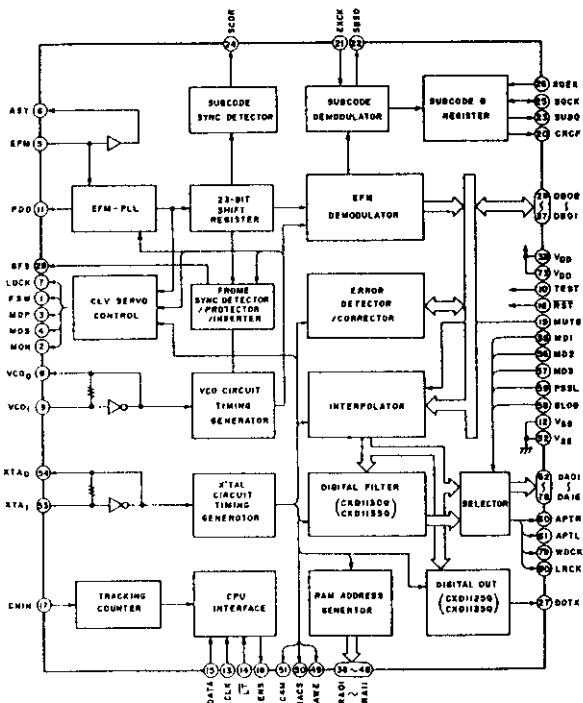
* Master clock frequency can be selected by MODE 1 and MODE 3 condition as shown below

MODE 1	MODE 3	MASTER CLOCK (XIN)	CKOUT
H	H	896k	896k
L	H	192k	192k
H	L	392k	196k
L	L	196k	196k

MS0957-188SP (SYSTEM CONTROL, MI-COM)

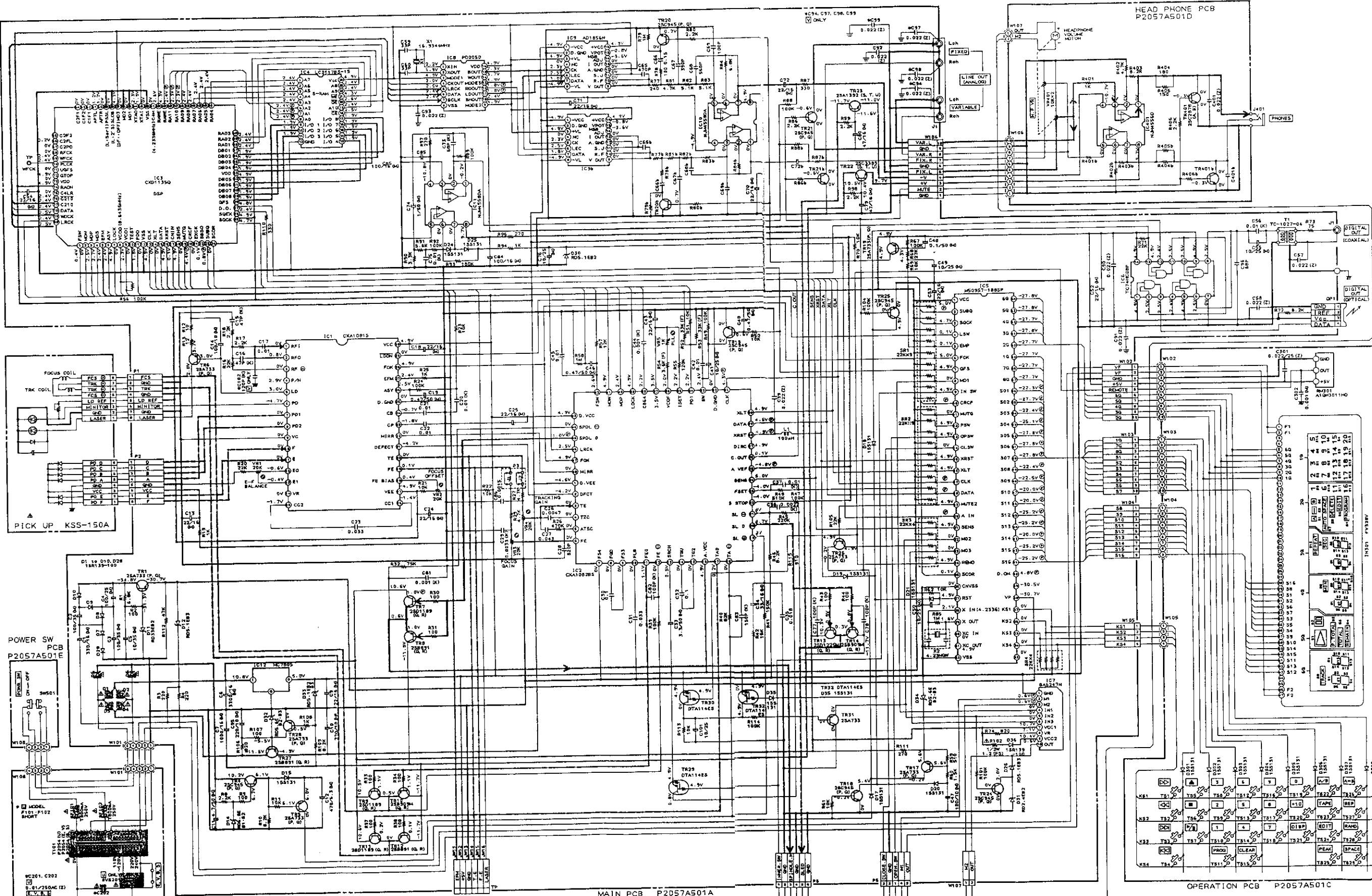
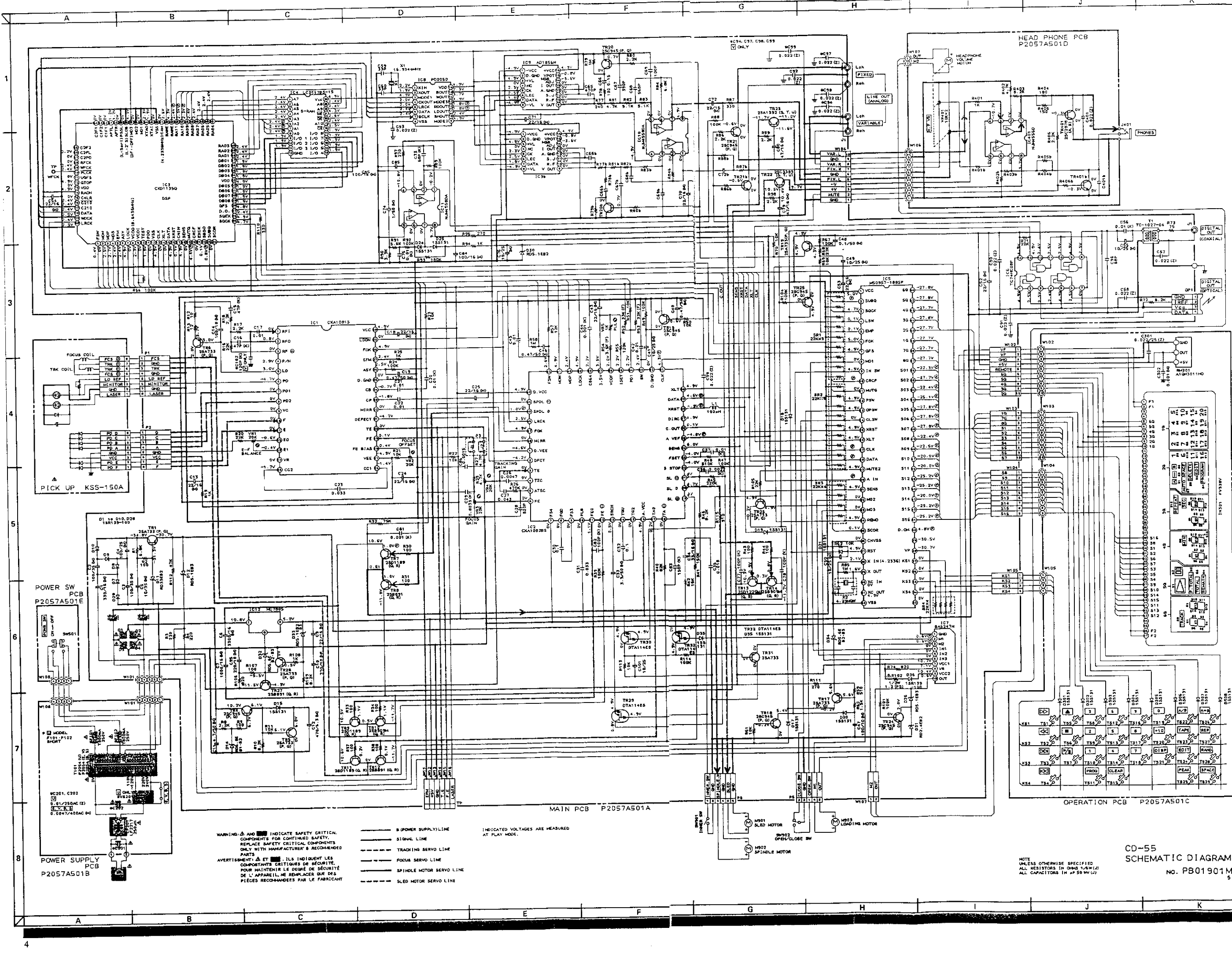
Pin No.	Symbol	I/O	Description
1	Vcc		+5V power supply
2	SIHQ	I	Sub-code Q data input
3	SOCK	O	Reading clock output of sub-code Q data
4	LSW	O	Laser diode ON/OFF control output
5	EMP	O	De-emphasis ON/OFF control output
6	FOK	I	Focus lock detection input H: Focus lock
7	GFS	I	PLL (Frame sync) condition detect signal input ("H": PLL lock, "L": PLL unlock)
8	MO1	O	Motor angle control output for LOADING and OUTPUT VOI LUME motors (Refer to pin 22 and 23)
9	SLSW	I	Innermost position ON/OFF detection input of SLED motor
10	CRCF	I	Result input of CRC (Error) check from LSI (CXD1135)
11	MUTG	O	Muting control output for LSI (CXD1135)
12	PSW	I	Input of power ON/OFF detect signal
13	IPSW	I	Input of disc tray open detect signal
14	CLSW	I	Input of disc tray close detect signal
15	XRST	O	Reset signal output of data transfer to LSI (CXD1135)
16	XLT	O	Latch signal output of data transfer to LSI (CXD1135)
17	CLK	O	Clock signal output of data transfer to LSI (CXD1135)
18	DATA	O	Command data output to LSI (CXD1135) for serial data
19	MUTE 2	O	Mute control output during peak level search
20	A1N	I	Rectified audio signal input for peak level detection
21	SENS	I	Auto sequence end detection input
22	MO2	O	Motor control output for LOADING and OUTPUT VOI LUME motors
23	MO3	O	Motor control output for LOADING and OUTPUT VOI LUME motors
24	REMO	I	Remote control receive serial data input
25	SCOR	I	Input of sub-code sync
26	CNV2		GND
27	RST	I	Reset signal input
28	XIN	I	Xtal connection terminal input
29	XOUT	O	Xtal connection terminal output
30	XCIN	I	Not used
31	XCOU	O	Not used
32	Vss		GND
33			Not used
34	KS4	I	
35	KS3	I	
36	KS2	I	
37	KS1	I	
38	Yp	I	+30 V pul down voltage of FLD
39			Not used
40	DGM		Not used
41	S16	O	
42	S15	O	
43	S14	O	
44	S13	O	
45	S12	O	
46	S11	O	
47	S10	O	
48	S09	O	
49	S08	O	
50	S07	O	
51	S06	O	
52	S05	O	
53	S04	O	
54	S03	O	
55	S02	O	
56	S01	O	
57	RS	O	
58	7G	O	Digit output for key scan FLD not used
59	1G	O	
60	2G	O	
61	3G	O	
62	4G	O	
63	5G	O	
64	6G	O	

CXD1135Q (DIGITAL SIGNAL PROCESSOR)



CXD1135Q

No.	Symbol	I/O	Description
1	PSW	O	Spindle motor filter switching control
2	MON	O	Spindle motor ON/OFF control
3	MPD	O	Spindle motor speed and phase control
4	MDS	O	Spindle motor speed control
5	EFM	I	EFM signal input
6	ASY	O	EFM signal slice level control
7	LOCK	O	Slide motor over track guard signal output
8	VCOO	O	VCO output (f=8.0436 MHz)
9	VCOI	I	VCO input
10	TEST	I	OV (OHM)
11	PDO	O	Phase comp output
12	VSS		GND (OV)
13	CLK	I	Clock signal from CPU
14	LT	I	Lock signal from CPU
15	DATA	I	Serial data from CPU
16	RST	I	RESET input "L" reset
17	CNIN	I	Tracking pulse input (5V)
18	SENS	O	Output of CPU interface
19	MUTG	I	Mute control signal input
20	CRCF	O	CRC check output of the subcode Q "L" detect error
21	EXCK	I	NOT USE
22	SB80	O	NOT USE
23	SUBQ	O	Subcode Q output
24	SCOR	O	Subcode sync detection output
25	SOCK	I/O	Clock signal for subcode Q
26	SQCK	I	Select input of COCK (+5V)
27	DOTK	O	Digital output
28	GFS	O	"H" frame sync lock "L" frame sync select
29	DB08	I/O	Data 8 (MSB) Data Bus line for the EXT RAM (LC3517AS-15)
30	DB07	I/O	Data 7 Data Bus line for the EXT RAM (LC3517AS-15)
31	DB06	I/O	Data 6 Data Bus line for the EXT RAM (LC3517AS-15)
32	DB05	I/O	Data 5 Data Bus line for the EXT RAM (LC3517AS-15)
33	VDD		+5V
34	DB04	I/O	Data 4 Data Bus line for the EXT RAM (LC3517AS-15)
35	DB03	I/O	Data 3 Data Bus line for the EXT RAM (LC3517AS-15)
36	DB02	I/O	Data 2 Data Bus line for the EXT RAM (LC3517AS-15)
37	DB01	I/O	Data 1 (LSB) Data Bus line for the EXT RAM (LC3517AS-15)
38	RA01	O	ADDR01 (LSB) Address signal output for the EXT. RAM (LC3517AS-15)
39	RA02	O	ADDR02 Address signal output for the EXT. RAM (LC3517AS-15)
40	RA03	O	ADDR03 Address signal output for the EXT. RAM (LC3517AS-15)



WARNING: Δ AND \square INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ ET \square ILS INDICENT LES COMPOSANTS CRITIQUES DE SECURITE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL. NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT.

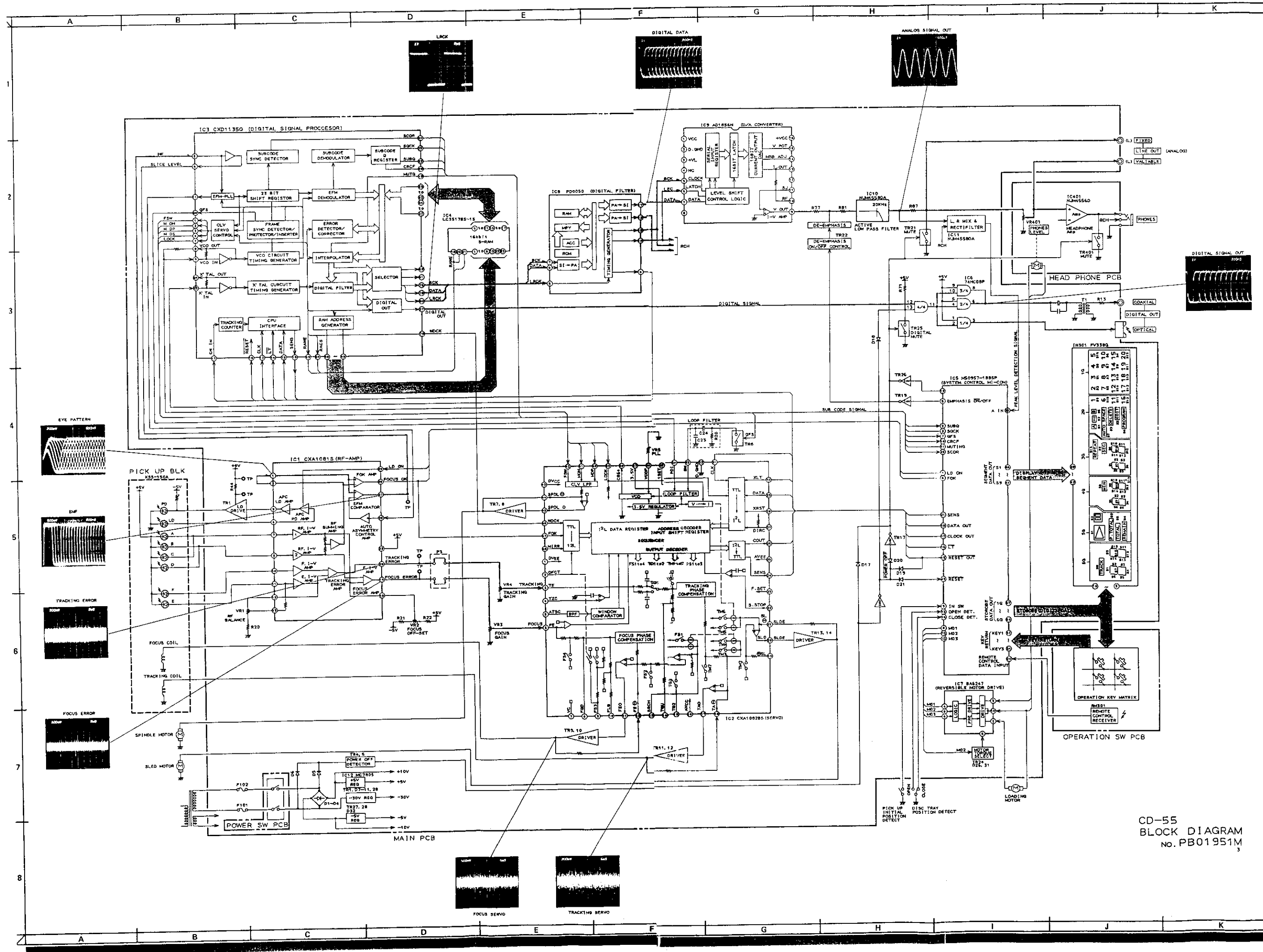
INDICATED VOLTAGES ARE MEASURED AT PLAY MODE.

——— POWER SUPPLY LINE
 ——— SIGNAL LINE
 - - - TRACKING SERVO LINE
 - - - FOCUS SERVO LINE
 - - - SPINDLE MOTOR SERVO LINE
 - - - SLED MOTOR SERVO LINE

POWER SW PCB P2057A501E
 PICK UP KSS-150A
 HEAD PHONE PCB P2057A501D
 MAIN PCB P2057A501A
 OPERATION PCB P2057A501C
 POWER SUPPLY PCB P2057A501B

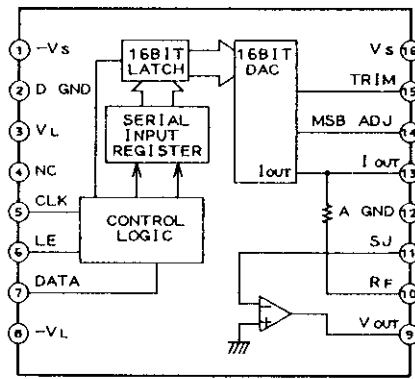
CO-55
 SCHEMATIC DIAGRAM
 NO. PB01901M

NOTE: UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS (W/W)
 ALL CAPACITORS IN PF (W/W)



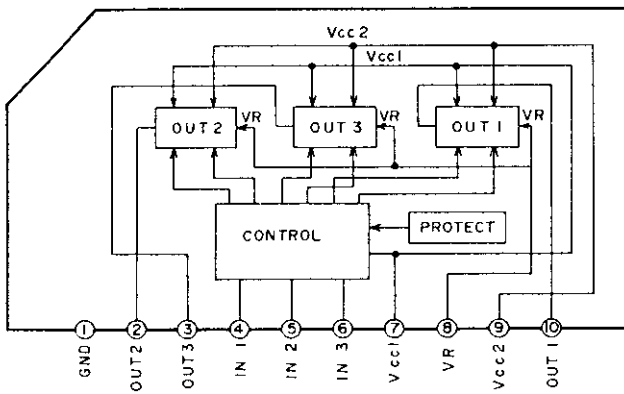
CD-55
BLOCK DIAGRAM
No. PB01951M
3

AD1856N (D/A CONVERTER)



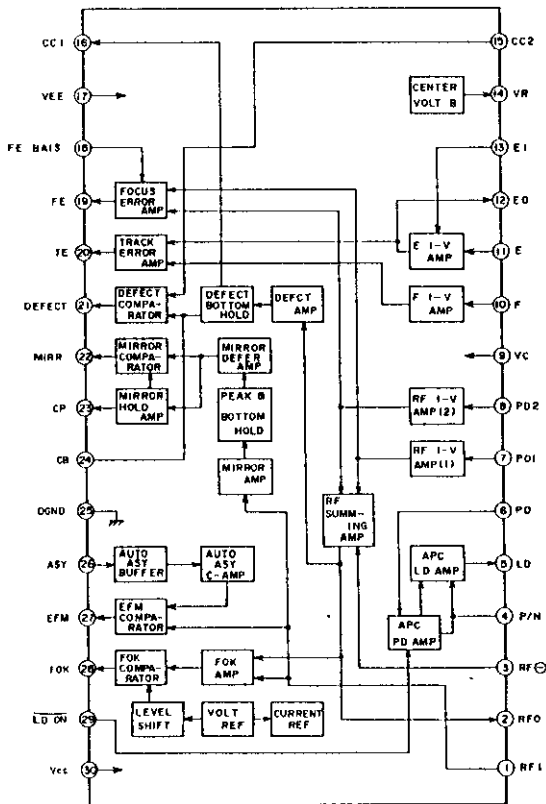
Pin No.	Symbol	Description
1	-Vs	Analog power supply
2	DGND	Digital GND
3	Vl	Logic power supply
4	NC	No connection
5	CLK	Bit clock input
6	LE	Latch enable input
7	DATA	Serial data input
8	-Vi	Logic power supply
9	Vout	Voltage output
10	Rf	Feed back resistor terminal
11	SJ	Summing junction
12	AGND	Analog GND
13	Iout	Current output
14	MSB ADJ	MSB adjustment terminal
15	TRIM	MSB trimpot terminal
16	Vs	Analog power supply

BA6247N (REVERSIBLE MOTOR DRIVE)

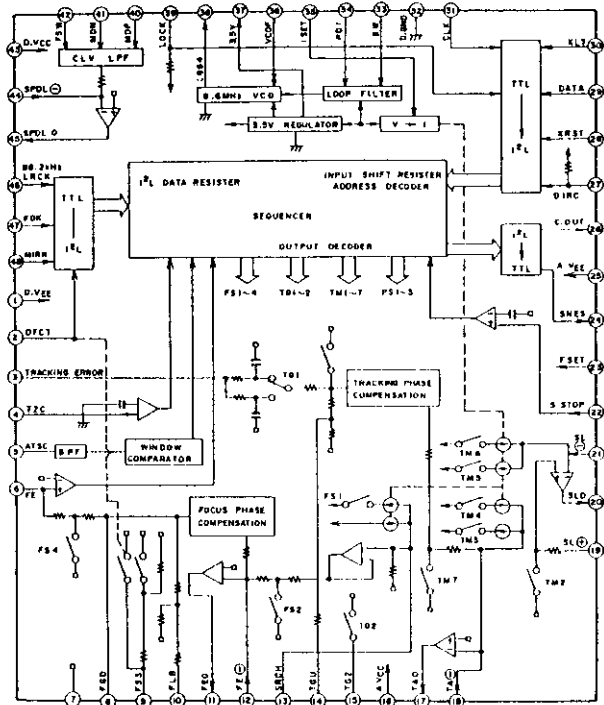


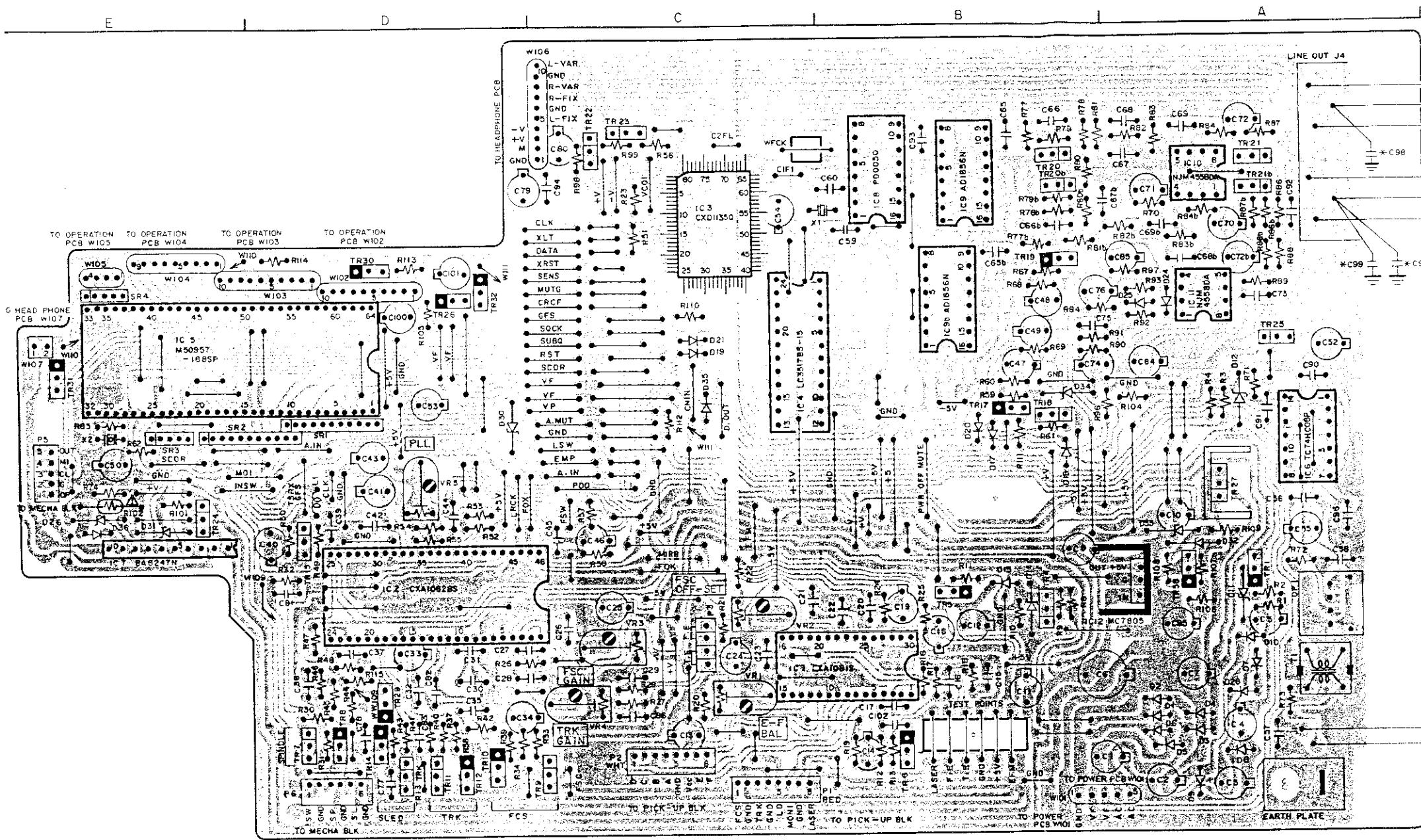
IN PUT			OUT PUT		
IN1	IN2	IN3	OUT1	OUT2	OUT3
L	L	L	L	L	L
H	L	L	H	L	OPEN
H	L	H	L	H	OPEN
L	H	L	H	OPEN	L
L	H	H	L	OPEN	H
H	H	L	L	L	L
H	H	H	L	L	L

CXA1081S (RF-AMP)



CXA1082BS (SERVO CONTROL)





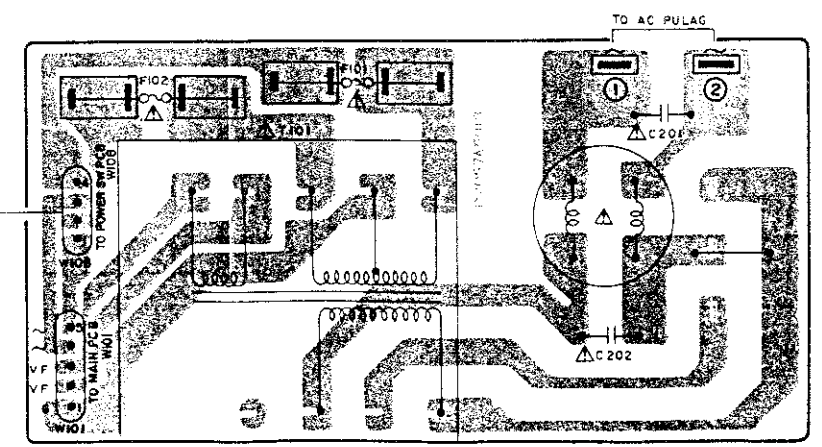
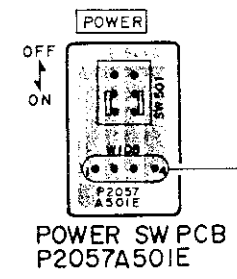
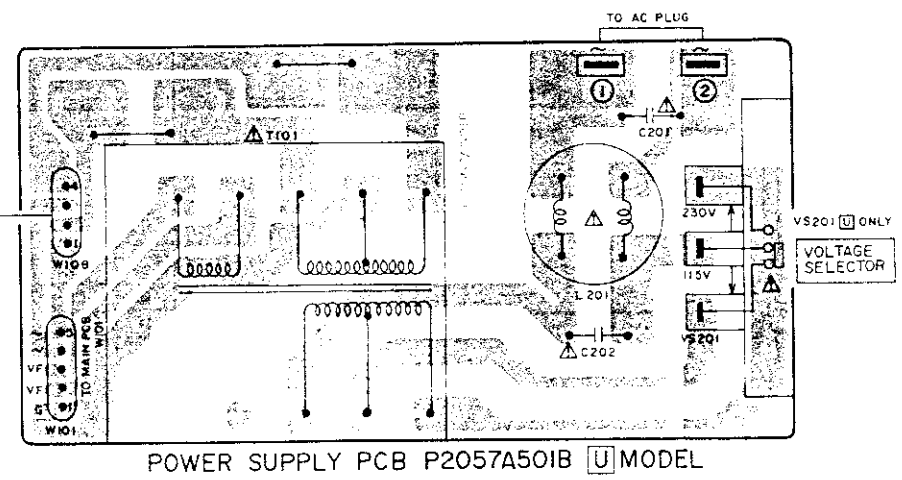
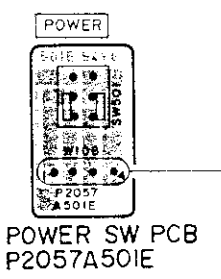
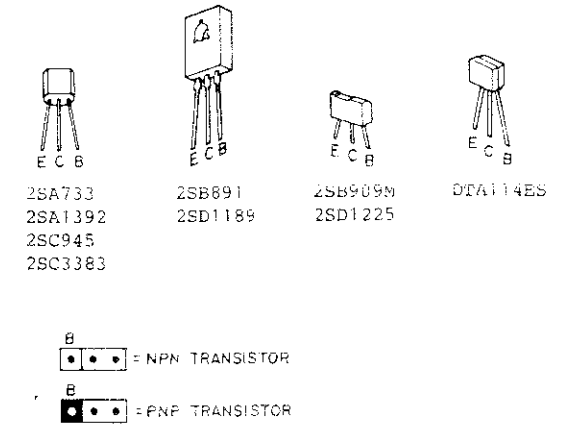
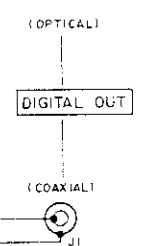
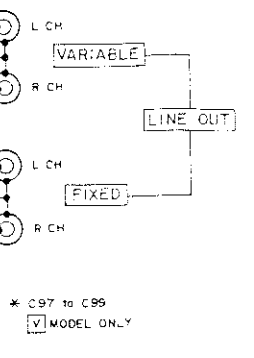
MAIN PCB P2057A501A

LOCATION OF COMPONENTS

ICs	TRANSISTORS
IC1.....B,C4	TR1.....A3
IC2.....D3	TR4.....B2
IC3.....C1,2	TR5.....B3
IC4.....C2	TR6.....B4
IC5.....D,E2	TR7.....D4
IC6.....A1,2	TR8.....D4
IC7.....B3	TR9.....C4
IC8.....B1	TR10.....D4
IC9.....B1	TR11.....D4
IC9b.....B2	TR12.....D4
IC10.....A1	TR13.....D4
IC11.....A2	TR14.....D4
IC12.....A3	TR15.....D3
	TR17.....B2
	TR18.....B2
	TR19.....B2
	TR20.....B1
	TR20b.....B1
	TR21.....A1
	TR21b.....A1
	TR22.....C1
	TR23.....C1
	TR24.....E3
	TR25.....A2
	TR26.....D2
	TR27.....A3
	TR28.....A3
	TR29.....D4
	TR30.....D2
	TR31.....E2
	TR32.....D2

CONNECTORS & WIRES

P1.....C4	TR18.....B2
P2.....C4	TR19.....B2
P3.....C4	TR20.....B1
P5.....E3	TR20b.....B1
P6.....B4	TR21.....A1
J1.....A4	TR21b.....A1
J4.....A1	TR22.....C1
W101.....A,B4	TR23.....C1
W102.....D2	TR24.....E3
W103.....D,E2	TR25.....A2
W104.....E2	TR26.....D2
W105.....E2	TR27.....A3
W106.....C1	TR28.....A3
W107.....E2	TR29.....D4
	TR30.....D2
	TR31.....E2
	TR32.....D2



WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUÉ DES PIÉCES RECOMMANDÉES PAR LE FABRICANT.

