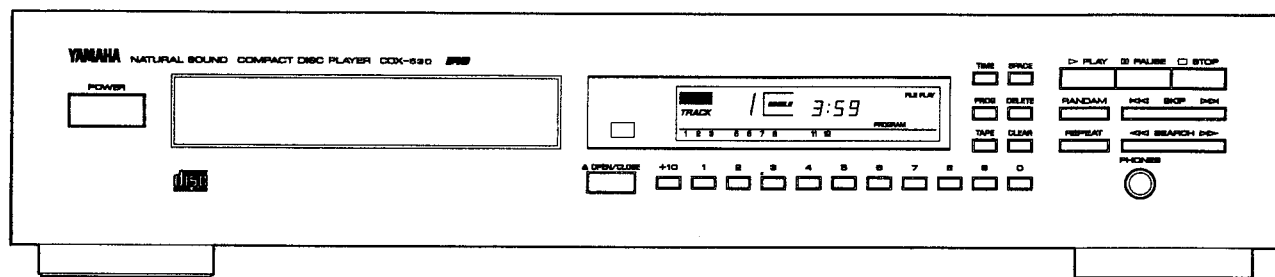




V09208

# COMPACT DISC PLAYER CDX-530/530E

## SERVICE MANUAL



### IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

**WARNING:** Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that all service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

**IMPORTANT:** The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

**WARNING:** Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

**IMPORTANT:** Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

### CONTENTS

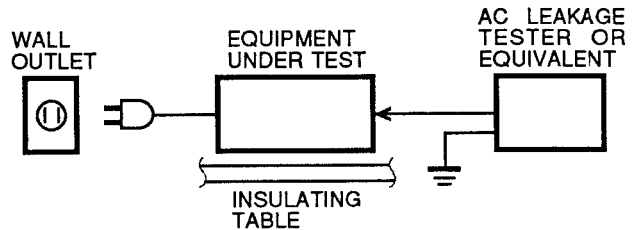
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CDX-530/530E

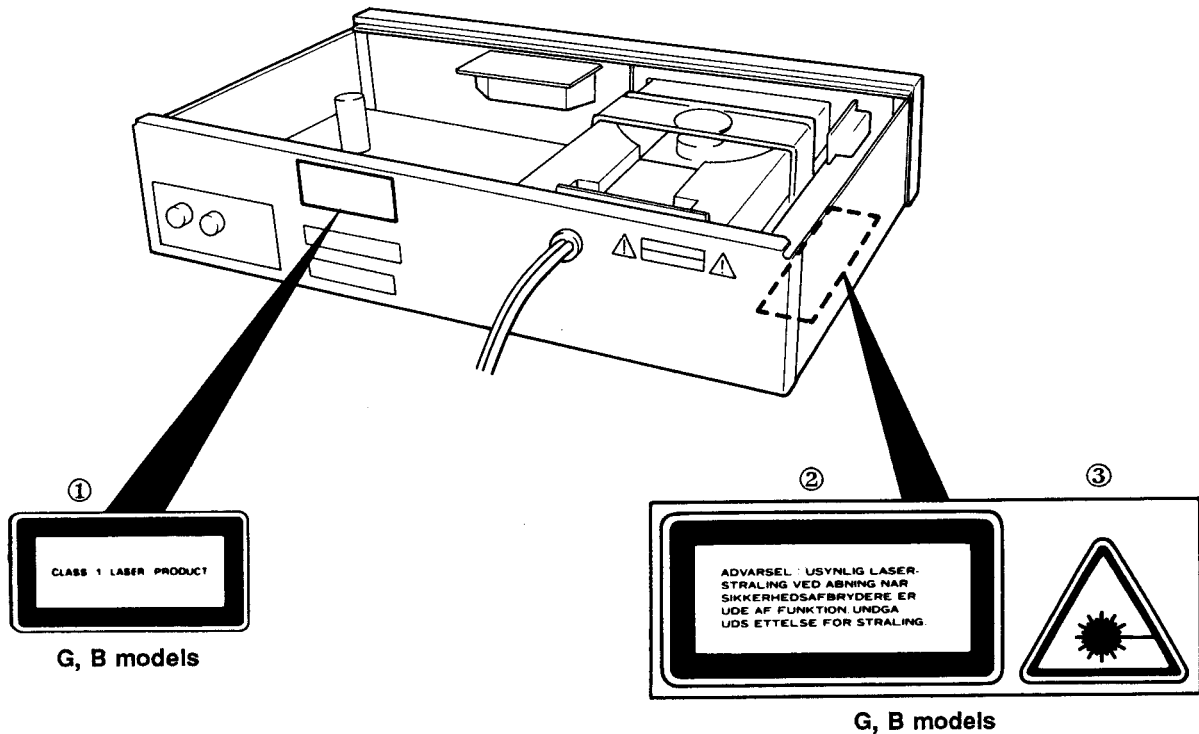
## ■ TO SERVICE PERSONNEL

1. Critical Components Information.  
Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Model Only).  
When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.
  - Meter impedance should be equivalent to 1500 ohm shunted by 0.15 $\mu$ F.
  - Leakage current must not exceed 0.5mA.
  - Be sure to test for leakage with the AC plug in both polarities.
  - **POLARIZATION (U, C models)**  
This CD player product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.



CAUTION-USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.



CDX-530/530E

**English**

- ① THIS LABEL (SEE POSITION SHOWN IN THE ILLUSTRATION) INFORMS THE USER THAT THE APPARATUS CONTAINS A LASER COMPONENT.
- ② THIS LABEL (SEE POSITION SHOWN IN THE ILLUSTRATION) WARNS THAT ANY FURTHER PROCEDURE WILL BRING THE USER INTO EXPOSURE WITH THE LASER BEAM.
- ③ THE RADIATION WARNING LABEL IS PLACED INSIDE THE UNIT AS SHOWN IN THE ILLUSTRATION, TO WARN AGAINST FURTHER MEASURES ON THE UNIT. THE EQUIPMENT CONTAINS A LASER COMPONENT RADIATING LASER RAYS EXCEEDING THE LIMIT OF CLASS 1 LASER PRODUCTS.  
CAUTION-USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**Swedish**

- ① PÅSKRIFTEN SITTER PÅ APPARATEM SOM VISAS SOM EN UPPMANING OM ATT APPARATEN OMFATTAR EN INBYGGD LASERKOMPONENT.
- ② TEXTSKYLTEN FÖR LASERN ÄR PLACERAD PÅ APPARATEN SOM EN UPPMANING OM ATT APPARATEN INNEHÅLLER EN LASERKOMPONENT.
- ③ VARNINGSSKYLTEN FÖR STRÅLNING HAR PLACERATS I APPARATEN, SOM BILDEN VISAR, SOM EN VARNING OM YTTERLIGARE INGREPP I APPARATEN. MATERIELEN INNEHÅLLER EN LASERKOMPONENT SOM AVGER LASERSTRÅLNING ÖVERSTIGANDE GRÄNSEN FÖR LASERKLASS 1.  
VARNING-INGREPP I APPARATEN BÖR ENDAST FÖRETAS AV FACKMAN MED KUNSKAP OM ATT RISK FÖRELIGGER FÖR RADIOAKTIV STRÅLNING.

**Danish**

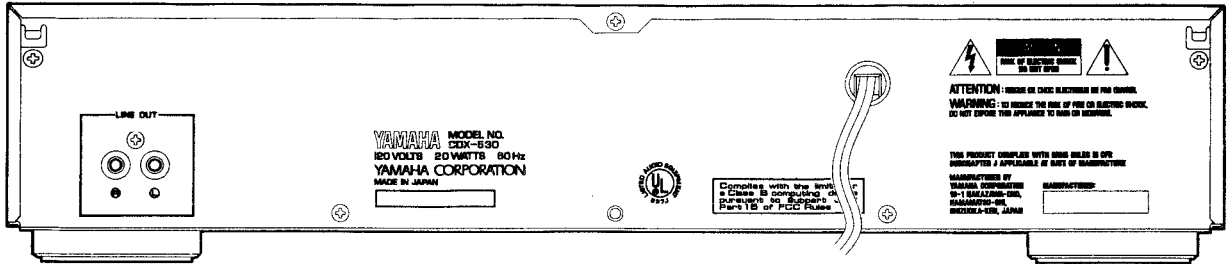
- ① DETTE MÆRKAT ER ANBRAGT SOM VIST I ILLUSTRATIONEN FOR AT ADVARE BRUGEREN OM AT APPARATET INDEHOLDER EN LASERKOMPONENT.
- ② DETTE MÆRKAT OM LASEREN ER ANBRAGT PÅ APPARATET SOM EN OPLYSNING OM AT APPARATET INDEHOLDER ET LASERKOMPONENT.
- ③ ADVARSELSKILTET OM STRÅLING ER PLACERET INDEN I APPARATET, SOM VIST I ILLUSTRATIONEN, SOM EN ADVARSEL OM YDERLIGERE INDGREB I APPARATET. APPARATET INDEHOLDER ET LASERKOMPONENT SOM AVGIVER LASESTRÅLING DER OVERSTIGER GÆNSEVERDIEN FOR LASERKLASSE 1.  
ADVARSEL! INDGREB BØR KUN FORETAGES AF EN FAGMAND DA DER ER RISIKO FOR RADIOAKTIV STRÅLING.

**Finnish**

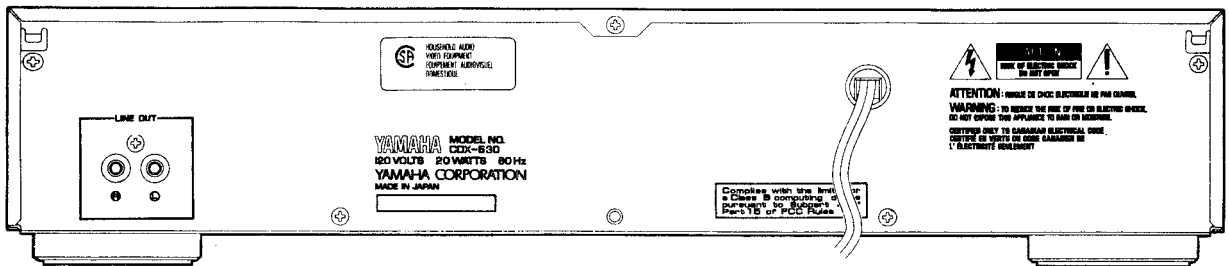
- ③ \*VAROITUS! LAITE SISÄLTÄÄ LASERDIODIN, JOKA LÄHETTÄÄ (NÄKYMÄTÖNTÄ) SILMILLE VAARALLISTA LASERSÄTEILYÄ.\*

## REAR PANELS

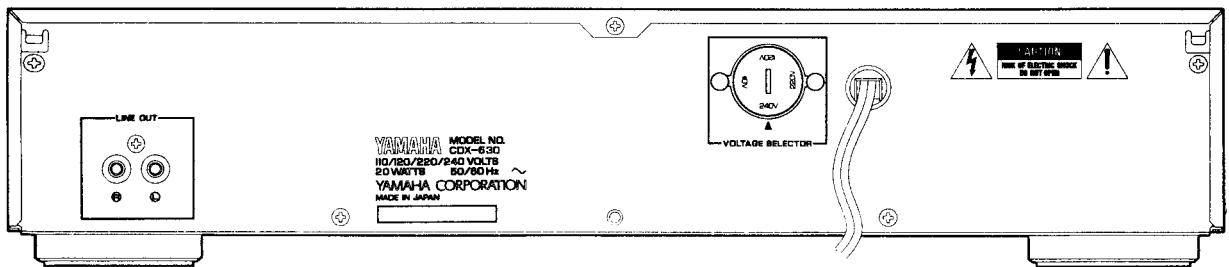
### U model



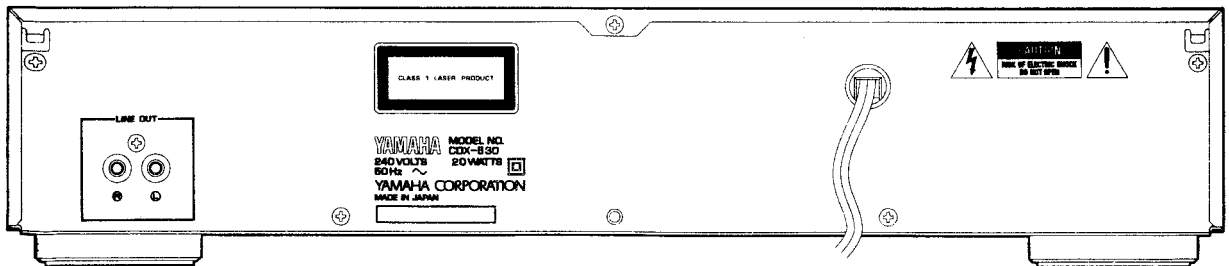
### C model



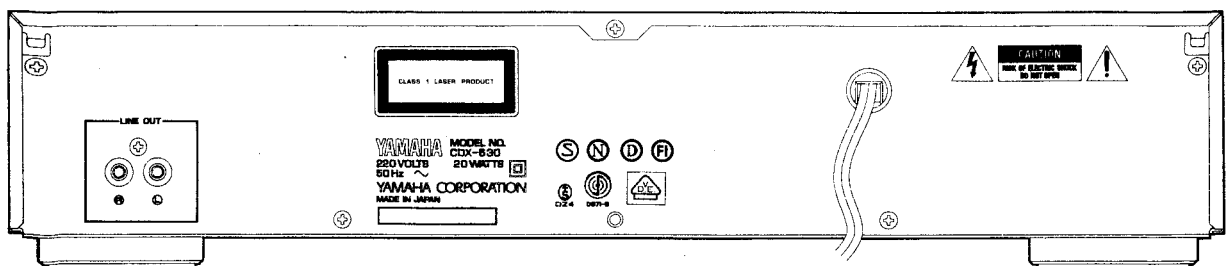
### R model



### A, B models



### G model



CDX-530/530E

## ■ INTERLOCK OPERATION

The Digital Compact Disc Player reads the disc signals by laser beam detection. The human body must directly exposed to the laser beam. Human eyes are especially not be damaged by the laser beam. This unit is therefore equipped with an interlock to prevent unnecessary laser output.

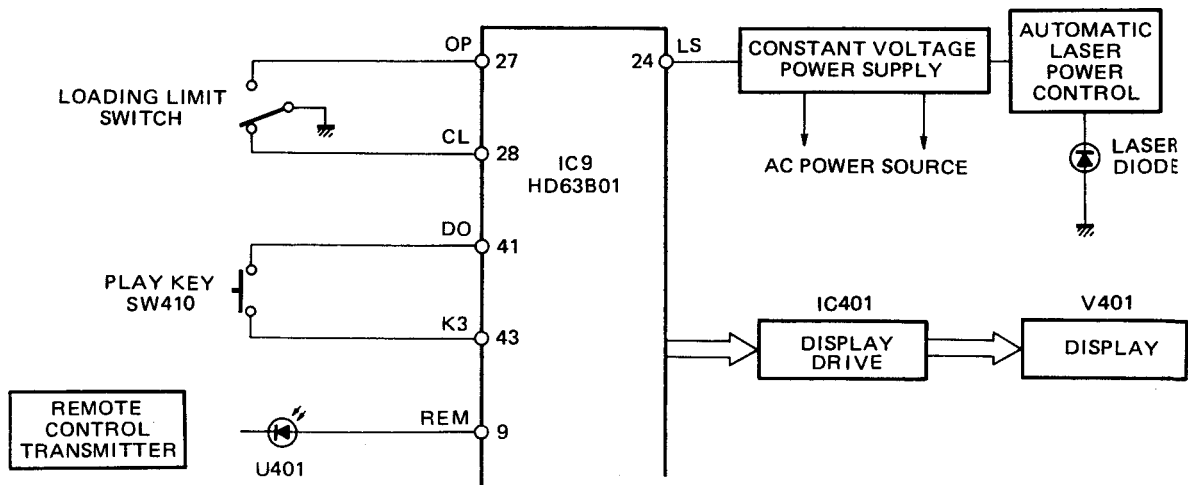
Laser output is controlled by the injection or cutoff of the constant voltage source to the laser diode at Pin 24 (LS) of IC9 (HD63B01), and also by Automatic Laser Power Control Circuit. When Pin 24 is in "H" (High) level, the laser emits the beam. When Pin 24 is in "L" (Low) level, the laser does not emit the beam.

Pin 24 is set in "H" level when the unit is loaded with a disc and reads the index signals or when the unit is set in the play mode. When the unit reads the index signals and the following two conditions are met, the laser emits the beam.

- 1) When the Loading Limit Switch is set in "CL" side. (The disc tray is closed.)
- 2) When the pickup is located at the area of minimum internal circumference.

After the above conditions are met and the index signals have been read, the laser emits the beam when the following two conditions are met.

- 1) When the PLAY key (SW410) or that of Remote Control Transmitter is pressed.
- 2) When TIMER PLAY is ON.



**■ SPECIFICATIONS**

**■ AUDIO SECTION**

Frequency Response	2Hz~20kHz +0.5dB, -1.0dB
De-Emphasis Equalization	±0.5dB (EIAJ)
Harmonic Distortion+Noise	Less than 0.005%, 1kHz (EIAJ)
S/N Ratio	106dB (EIAJ)
Dynamic Range	More than 94dB (EIAJ)
Wow & Flutter	Unmeasurable
Channel Separation	More than 90dB, 1kHz (EIAJ)
Output Voltage	2V (EIAJ)
Output Impedance	2.2kΩ
Headphone Output (-20dB)	110mV/150Ω

**■ INTERNAL SYSTEM**

Optical Pick-up	3-beam laser
Error Correction System	CIRC
D/A Conversion	18-bit linear
Filter	Hi-Bit 8-Fold Oversampling Digital filter 3rd Order New Active Filter

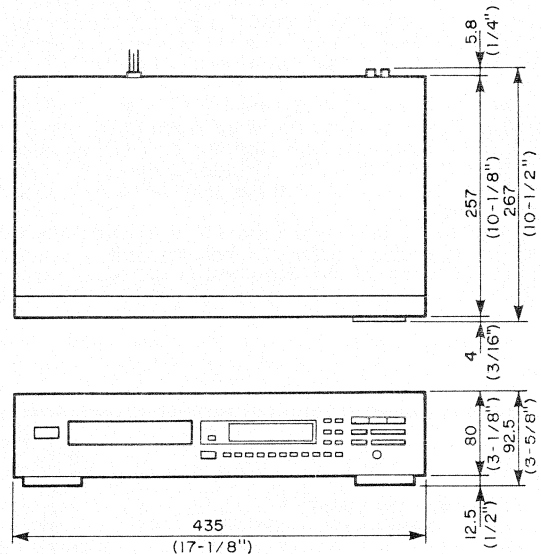
**■ GENERAL**

Power Requirements	
U, C models	120V AC 60Hz
G model	220V AC 50Hz
A, B models	240V AC 50Hz
R, P models	110/120/220/240V AC 50/60Hz
Power Consumption	20W
Dimensions (WxHxD)	435 x 92.5 x 267 mm (17-1/8"x3-5/8"x10-1/2")
Weight	3.7kg (8 lbs 2 oz)
Accessories	Pin plug code Remote control transmitter Dry-cell: x2 (Sise "AAA", R03)

\*Specifications are subject to change without notice.

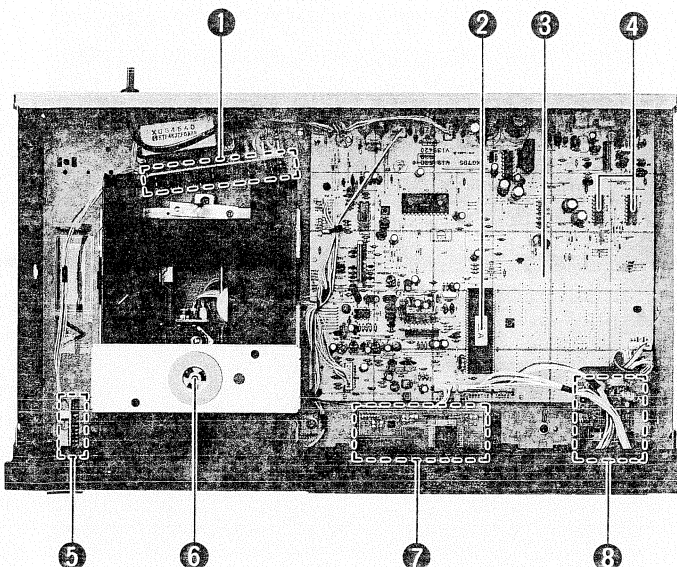
- U ..... U. S. A. model
- C ..... Canadian model
- B ..... British model
- A ..... Australian model
- G ..... European model
- R ..... General model
- P ..... PX model

**● DIMENSION**



Unit : mm (inch)

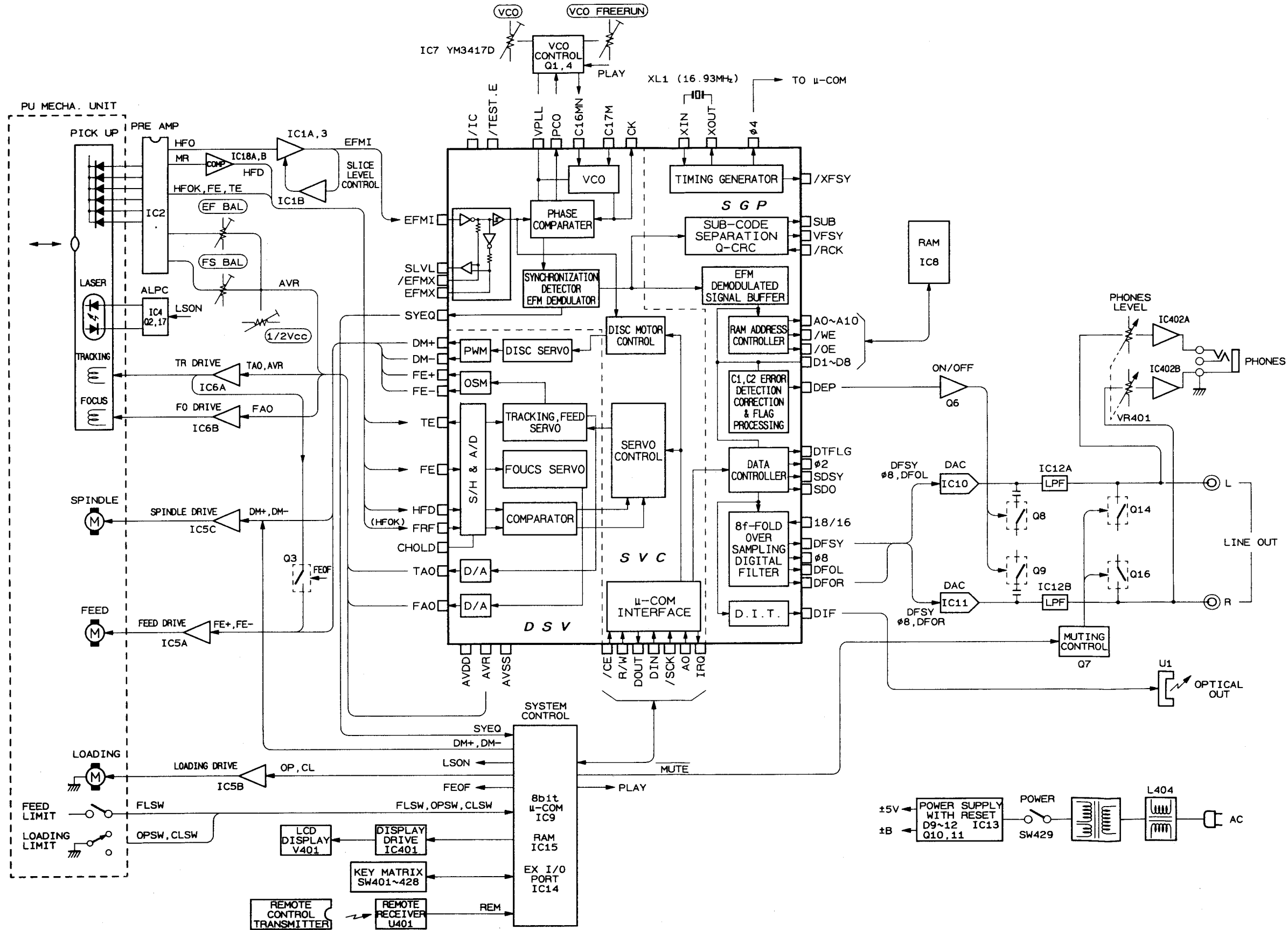
**■ INTERNAL VIEW**



- ① TRANSFORMER CIRCUIT BOARD (1)
- ② IC9 : HD63B01YORL30P
- ③ MAIN CIRCUIT BOARD (1)
- ④ IC10, 11 : PCM61PJ
- ⑤ OPERATION CIRCUIT BOARD (3)
- ⑥ PU MECHANISM UNIT (KSL-150AFM)
- ⑦ OPERATION CIRCUIT BOARD (4)
- ⑧ OPERATION CIRCUIT BOARD (2)

CDX-530/530E

■ BLOCK DIAGRAM



## DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered.)

### 1. Removal of Top Cover

- Remove 5 screws (①) in Fig. 1.
- Lift the Top Cover to the back side and move it rearward slantingly.

### 2. Removal of Front Panel

- Remove 6 screws (②) in Fig. 1.
- Press the Levers in Fig. 1, and pull the Front Panel forward.

### 3. Removal of PU Mechanism Unit

- Remove 3 screws (③) in Fig. 1.

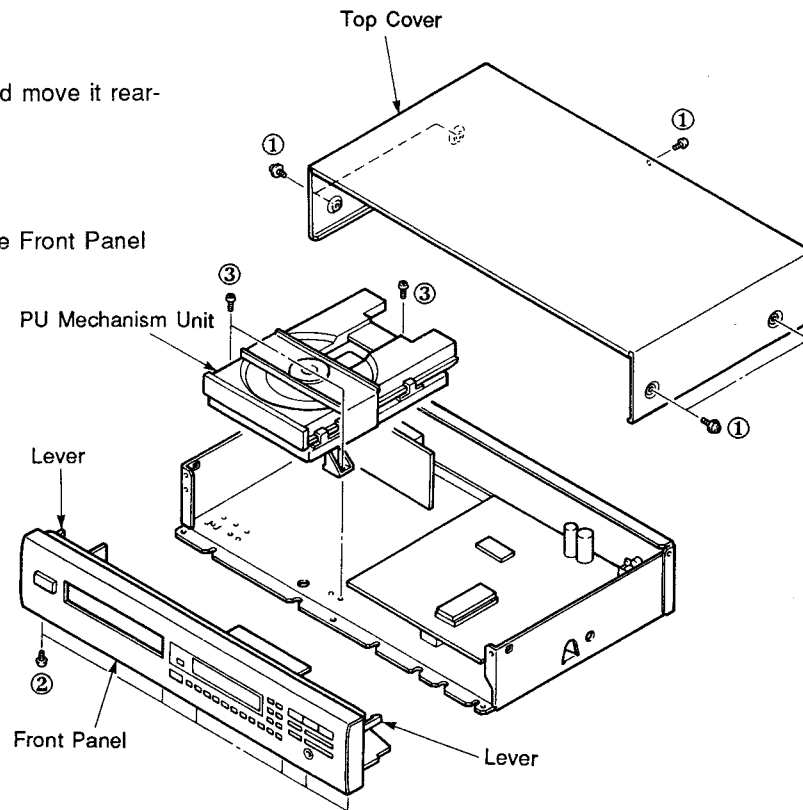
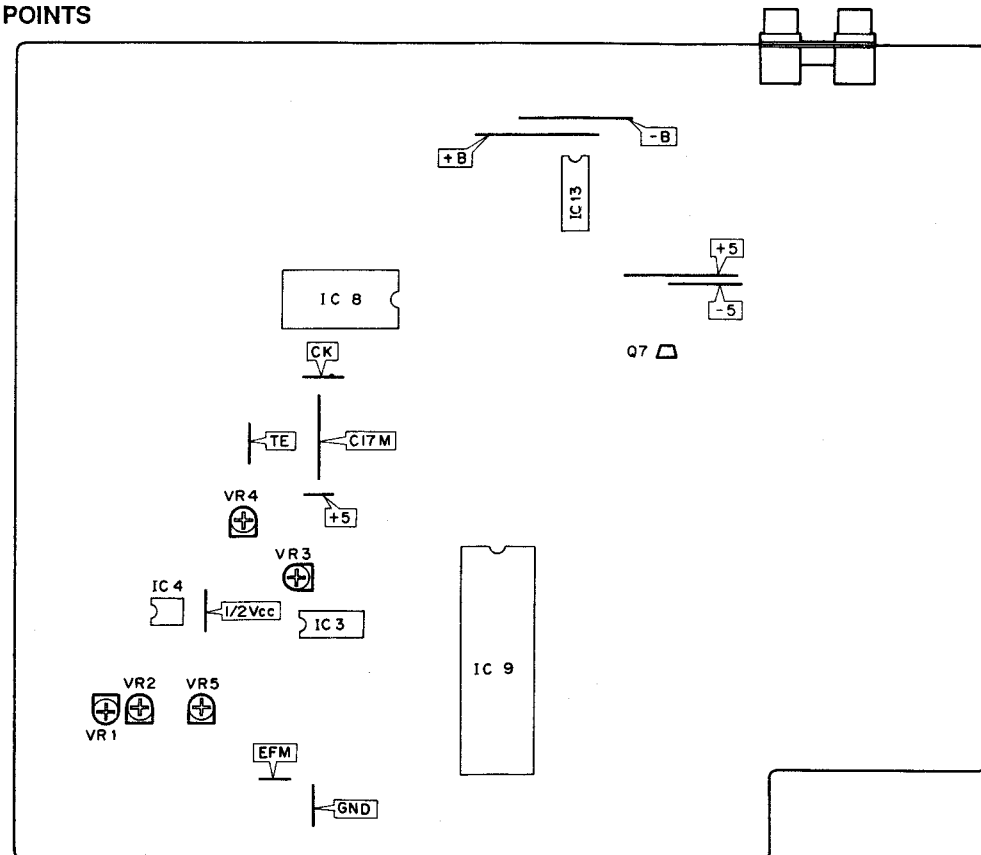


Fig. 1

## ADJUSTMENTS

### TEST POINTS



### Necessary items

#### Measuring instruments

Osilloscope (Band width of 50MHz or more)	: x 1
AC voltmeter	: x 1
DC voltmeter	: x 1
Frequency counter	: x 1

#### Jigs

Test disc [ YEDS-18 (P/No. TX911730) or YEDS-7 (P/No. TX911320) ]	: x 1
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#### Tools

Screwdriver (For Pre-set Potentiometer adjustment)	: x 1
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### Confirmation of Power Voltage

ITEM	TEST POINT	RATING
+B	+B~GND	About 11.2V (at STOP)
-B	-B~GND	About -11.8V (at STOP)
+5	+5~GND	5V±0.25V
-5	-5~GND	-5V±0.25V
Mute power supply	Q7 emitter~GND	4.94V~5.2V

### Confirmation of Reset Operation

A Low to High change should occur about 500msec. after the power is turned ON and a High to Low change should occur when the power is turned OFF and the voltage at +5 drops to 4.2V.

### Confirmation of Muting Operation

The voltage of the Q7 collector should be about 5V immediately after the power is turned ON and -5V upon entering the PLAY mode. Also it should be 5V in PAUSE, STOP and SKIP modes and finally immediately after the power is turned OFF from the PLAY mode.

### Before Adjustment

#### Storing TEST Mode

Holding both "4" and "7" on the ten-key pad down, turn ON the power switch. Take the fingers off "4" and "7" keys, and all the segments in the display light for about 2 seconds and the TEST mode starts.

#### Contents of TEST mode

OPEN/CLOSE	: OPEN, CLOSE
PAUSE	: FOCUS START
STOP	: STOP, FOCUS OFF
PLAY	: PLAY
PROG	: TRACKING SERVO OFF
DELETE	: TRACKING SERVO ON

\*When the PAUSE key is pressed to execute FOCUS start, it sometimes takes a few seconds before FOCUS is locked. Therefore, avoid pressing the PLAY key too quickly.

#### 1. 1/2 Vcc Adjustment

- Do not load the disc.
- Measure the voltage at the [+5] terminal and suppose that value as  $V_o$ .
- Measure the voltage at the [1/2 Vcc] terminal and adjust VR5 so that the following rating will be satisfied.  
Rating :  $1/2 V_{cc} = V_o/2 \pm 5mV$   
Reference value :  $V_o = 5.0V$   
 $1/2 V_{cc} = 2.5V$

#### 2. VCO Adjustment

- Do not load the disc.
- Measure the voltage at the [C17M] terminal and adjust VR3 so that the following rating will be satisfied.  
Rating :  $C17M = 2.5V \pm 0.05V$

#### 3. VCO Free Run Adjustment

- Do not load the disc.
- Connect a frequency counter to the [CK] terminal.  
\*Make sure to use a probe (10 : 1 probe for oscilloscope) to input data to the frequency counter.
- Adjust VR4 so that the following rating will be satisfied.  
Rating :  $F_{vco} = 4.3218MHz \pm 0.01MHz$



#### 4. Confirmation of Focus Search

- ① Do not load the disc.
- ② Set to the TEST mode.
- ③ Press the PAUSE key.
- ④ Check to make sure that the laser diode of the optical pick-up head emits light and the objective lens moves smoothly from the lowest point to the highest point.
- ⑤ Press the STOP key.

#### 5. Confirmation of Loading Operation

- ① Set to the TEST mode.
- ② Press OPEN side of the OPEN/CLOSE key.
- ③ Check to make sure that the tray opens smoothly.
- ④ Press CLOSE side of the OPEN/CLOSE key.
- ⑤ Check to make sure that the tray closes smoothly.

#### 6. Confirmation of Focus & Tracking Operation

- ① Set to the TEST mode.
- ② Load the test disc by using the OPEN/CLOSE key.
- ③ Press the PAUSE key.
- ④ Check to make sure that the focus servo is applied by moving the test disc a little by hand.
- ⑤ Press the PLAY key.
- ⑥ Check that the disc starts turning and the time read from the disc is displayed on the LCD display.

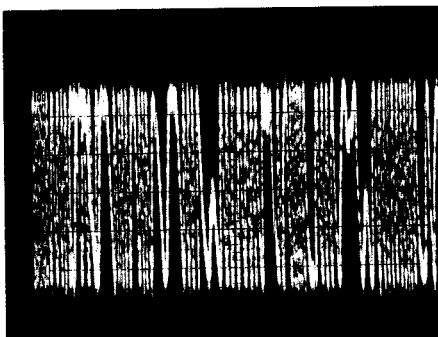
#### 7. EF Balance Adjustment

- ① Set to the TEST mode.
- ② Load the test disc by using the OPEN/CLOSE key.
- ③ Press the PAUSE key.
- ④ Press the PLAY key.
- ⑤ Press the PROG key.
- ⑥ Adjust VR2 so that the **TE** waveform becomes symmetrical on both upper and lower sides of 1/2 Vcc standard DC level.

##### Connection of Oscilloscope

**1/2 Vcc** terminal to GND side.

**TE** terminal to HOT side.

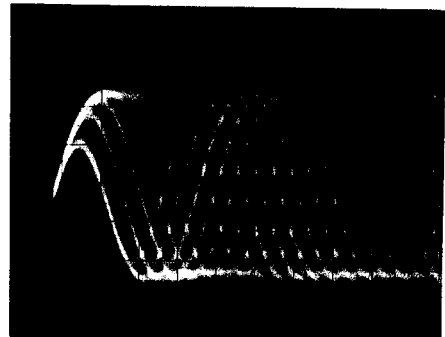


#### 8. Confirmation of HF Level

- ① Set to the TEST mode.
- ② Load the test disc by using the OPEN/CLOSE key.
- ③ Press the PAUSE key.
- ④ Press the PLAY key.
- ⑤ Press the DELETE key.
- ⑥ Check at the **EFM** terminal that the EFM signal (eye pattern) amplitude is  $0.92 \pm 0.2V_{p-p}$ . (YEDS-18)

##### Oscilloscope setting conditions

- AC coupling.
- 0.2V/div range. (Vertical)  
(20mV/div when 10 : 1 probe is used)
- 0.5μsec/div time. (Horizontal)



#### 9. Adjustment of Focusing

- ① Set to the TEST mode.
- ② Load the test disc by using the OPEN/CLOSE key.
- ③ Press the PAUSE key.
- ④ Press the PLAY key.
- ⑤ Press the DELETE key.
- ⑥ Adjust VR1 so that clear EFM signal (eye pattern) is obtained at the **EFM** terminal.

##### Oscilloscope setting conditions

- AC coupling
- 0.2V/div range (Vertical)  
(20mV/div when 10 : 1 probe is used)
- 0.5μsec/div time (Horizontal)

#### 10. Confirmation of Kick Operation

- ① Set to the TEST mode.
- ② Load the test disc by using the OPEN/CLOSE key.
- ③ Press the PAUSE key.
- ④ Press the PLAY key.
- ⑤ Press either key or key and check to make sure that the time on display advances accurately and smoothly.
- ⑥ Press the PLAY key and check that the way displayed time advances is back to that in the PLAY mode.

● EYE PATTERN

Waveforms 3T – 11T.

3T, 4T, 5T, 6T ..... 11T

This portion is referred to as the eye pattern.

The abnormal eye pattern has less distinct lines and smaller amplitude than that of a good waveform.

**Good waveform**                      **Abnormal waveform**

Adjust so that a good waveform is obtained.

■ TEST MODE

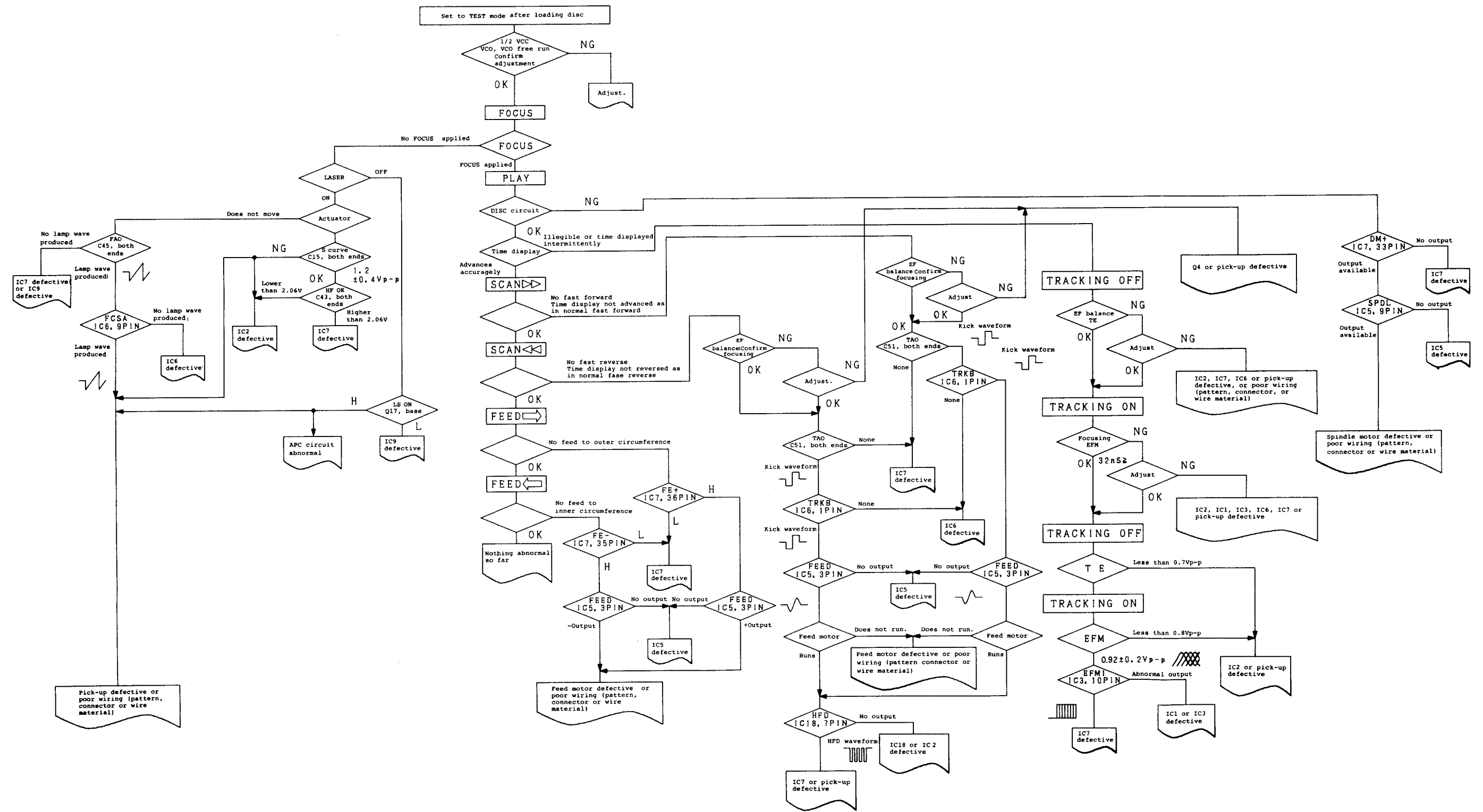
● Starting TEST mode

Holding both "4" and "7" on the ten key pad down, turn ON the power switch. Take the fingers off "4" and "7" keys, and all the segments in the display light for about 2 seconds and the TEST mode starts.

**Note :** Note that the feed gear will be chipped if the innermost or outermost circumference is reached by using or key in the TEST mode.

● Contents of TEST mode key

KEY	CONTENT	KEY	CONTENT
☰	OPEN/CLOSE	□	STOP Laser OFF, causes every item including spindle to stop
+10	Spindle motor brake	PROG	TRACKING OFF
1	Shift from TEST mode to PRODUCT mode	DELETE	TRACKING ON
2	Tracking OFF at inner circumference	RANDOM	PLAY MUTE Play but no sound produced
3	PLAY at inner circumference	⏪	Forced feed to inner circumference
4	Tracking OFF	⏩	Forced feed to outer circumference
5	Tray forced to open	TAPE	Inner circumference 10 track kick provided continuously at 33msec. intervals.
6	Tray forced to close	CLEAR	Outer circumference 10 track kick provided continuously at 33msec. intervals.
7	PLAY  VCO gain "H"	REPEAT	Spindle acceleration
8	PLAY  VCO gain "L"	⏪	Inner circumference 10 track kick provided continuously at 100msec. intervals.
9	MUTE  Sound produced	⏩	Outer circumference 10 track kick provided continuously at 100msec. intervals.
0	MUTE  No sound produced		
TIME	LASER OFF Laser goes off		
SPACE	LASER ON Laser turns on.		
▶	PLAY Play		
⏏	FOCUS Laser ON, focus search		



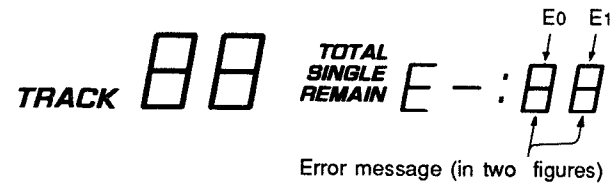
## ■ ERROR MESSAGE

### 1. How to get error code displayed

To get a code for any malfunction displayed, press the STOP key of the remote controller while pressing the STOP key on the main unit in the STOP or OPEN mode.

### 2. How to read error message

When occurrence of an error is detected during operation, a code indicating what has occurred is displayed in the time display segment as shown below.

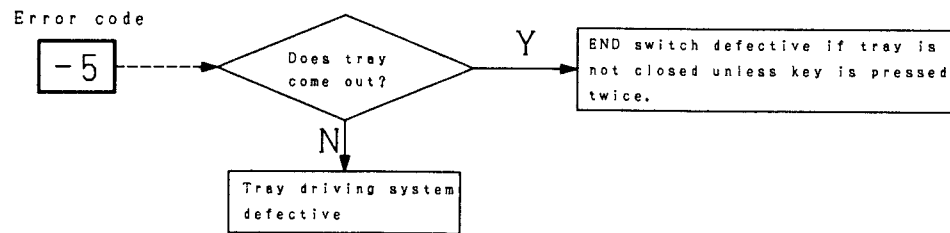


E0 (STATE)	E1 (Phenomenon)	Meaning	Remarks
X	0	No data reading was executed after search.	
X	1	Data reading failed in the mid of each state.	For 5 seconds
7	3	No data reading was executed though the disc was turned with focus applied at start.	PLL lock failure
—	5	Tray open NG.	
9	5	Tray close NG.	
9	7	Feed inner circumference switch NG.	
X	8	Focus dropped in the mid of each state and could not be restored even when retried.	Retry 5 times

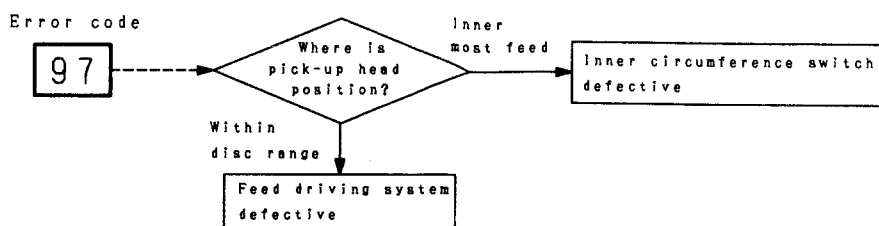
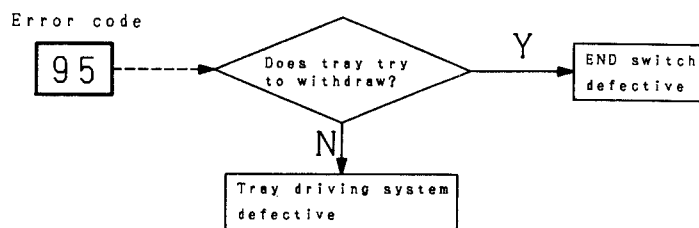
\* Note : X represents each state : PLAY when X=0, MANUAL SEARCH when X=3 and PAUSE when X=4.

### 3. How to locate cause of the error from the error message

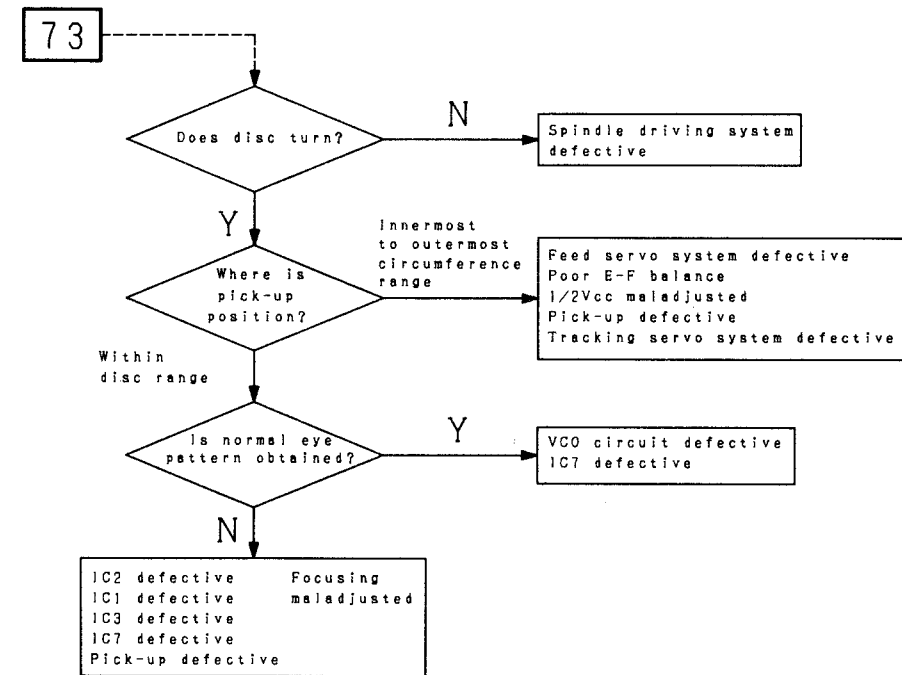
- Tray does not come out even when the power is turned ON and the OPEN/CLOSE key is pressed.



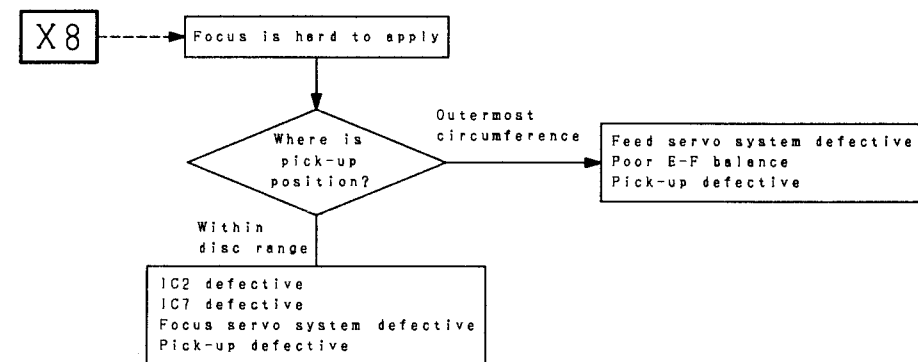
- Tray does not close or even when closed, it opens again after some time.



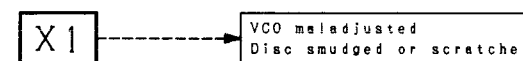
Error code



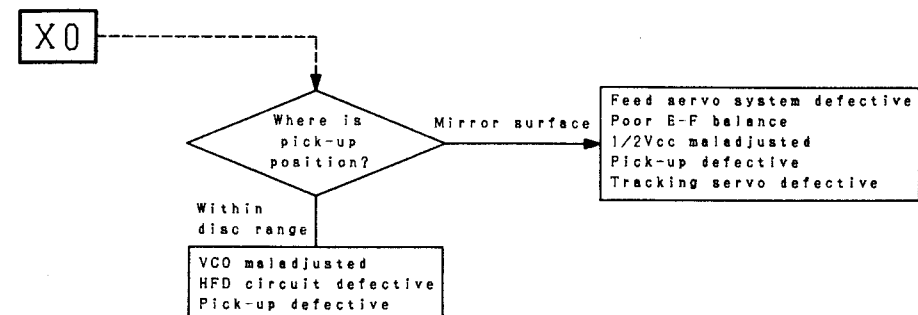
Error code



Error code

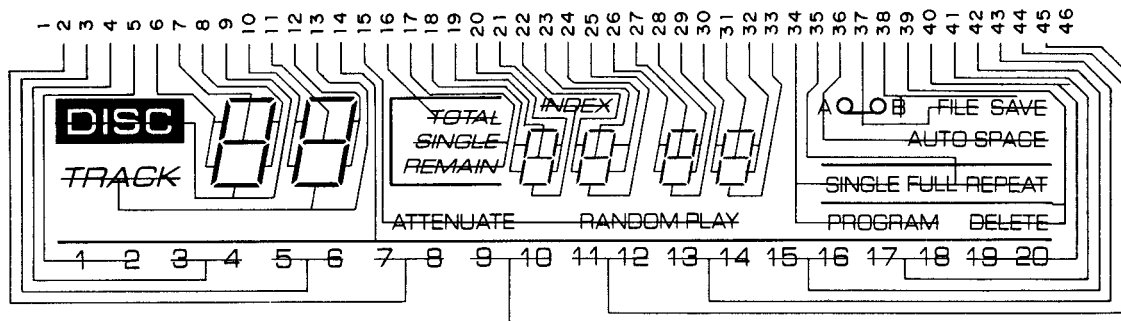
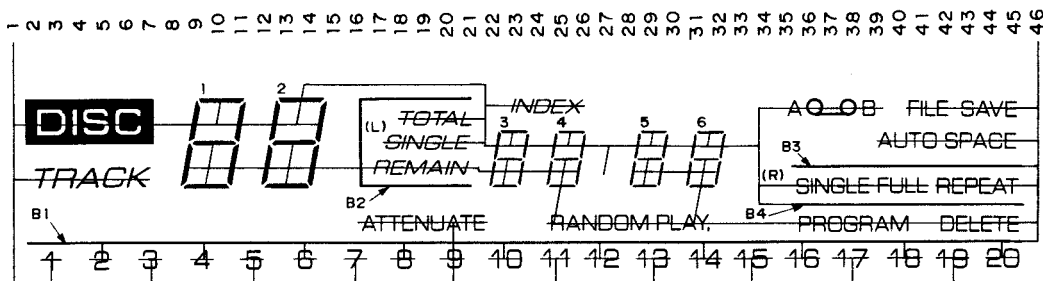


Error code



■ DISPLAY DATA

● V401 : LCD8094BIJP

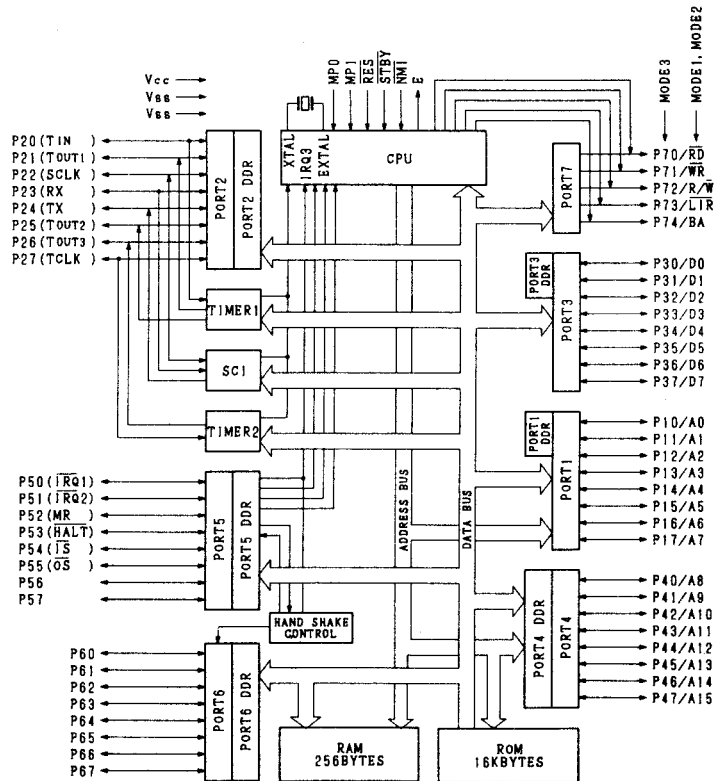
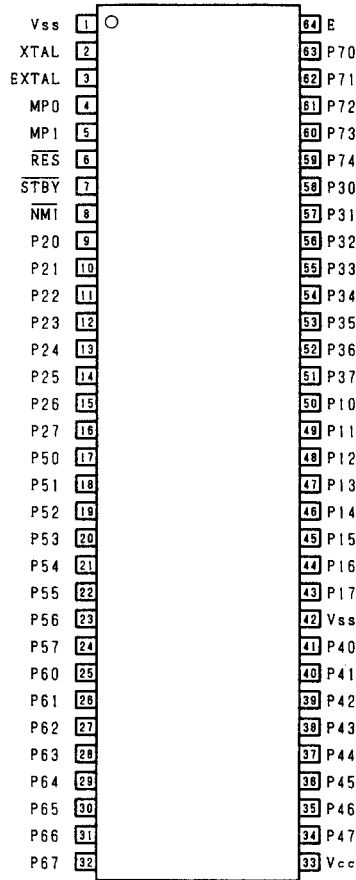


No.	COM1	COM2	No.	COM1	COM2	No.	COM1	COM2	No.	COM1	COM2
1	COM	—	13	TRACK	2d	25	COL	4d	37	Q.O	FILE
2	7	8	14	—	B1	26	5F	5e	38	B	SAVE
3	5	6	15	ATTENAUITE	RANDOM	27	5A	5g	39	B4	DELETE
4	3	4	16	TOTAL	PLAY	28	5B	5c	40	19	20
5	1	2	17	SINGLE(L)	B2	29	—	5d	41	17	18
6	1f	1e	18	3f	REMAIN	30	6F	6e	42	15	16
7	1a	1g	19	3a	3e	31	6A	6g	43	13	14
8	1b	1c	20	3b	3g	32	6B	6c	44	11	12
9	DISC	1d	21	INDEX	3c	33	—	6d	45	9	10
10	2f	2e	22	4f	3d	34	SINGLE(R)	PROGRAM	46	—	COM
11	2a	2g	23	4a	4e	35	FULL	B3 REPEAT			
12	2b	2c	24	4b	4g	36	A	AUTO SPACE			

CDX-530/530E

■ IC DATA

IC9 : HD63B01YORL30P  
8bit  $\mu$ -COM



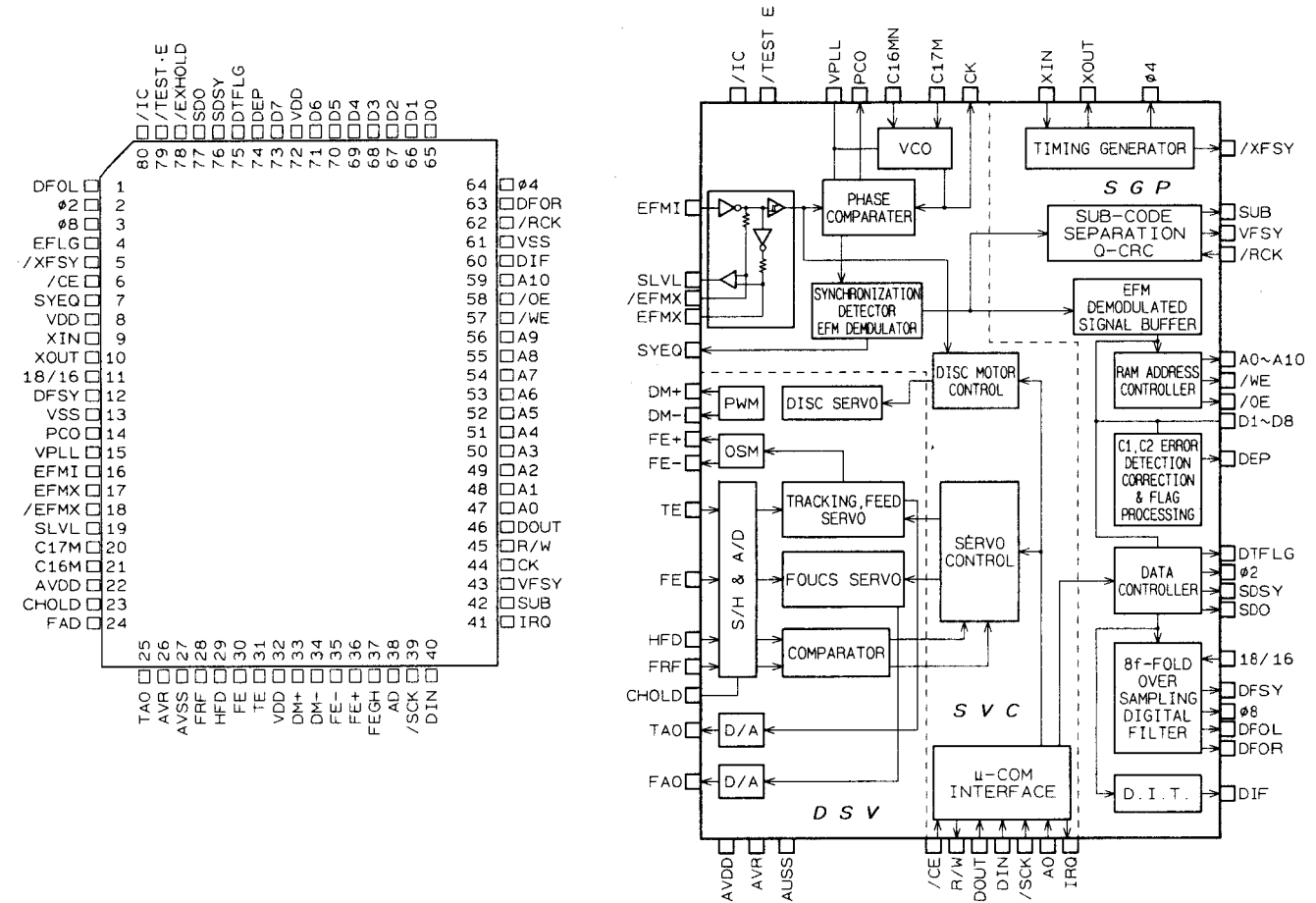
CDX-530/530E

Pin No.	Pin Name	Function
1	Vss	GND
3	EXTAL	External clock input
4	MP0	} MPO "H", MP1 "H" Sets mode for internal ROM
5	MP1	
6	RES	Starts moving at and stops at
9	REM	Input from beam receiving remote control unit.
10	FEOF	Feed servo OFF at "H"
11	SCK	Serial clock output to YM3417D & LC7582
12	S1	Serial data input from YM3417D
13	S0	Serial data output to YM3417D & LC7582
14	IRQ	Request signal from YM3417D
15	CE	Chip enable of YM3417D at "L"
16	AO	Selects DSV section in YM3417D at "H" Selects SVC section in YM3417D at "L"
17	INH	LCD off at "L"
18	CE	Chip enable of LC7582 at "H"
20	R/W	From $\mu$ COM to YM3417D at "H" From YM3417D to $\mu$ COM at "L"
21	SYEQ	Input of synchronous coincidence signal from YM3417D EFM pattern and YM3417D internal counter synchronized at "H"
22	PLAY	VCO gain L at "H" (during play) VCO gain H at "L" (other than during play)
23	MUTE	Sound output at "H" (during play, fast forward or fast reverse) Sound output mute at "H" (during other than above)
24	LSON	Laser diode turns ON at "H"
25	OP	Tray open function at OP "H", CL "L"
26	CL	Tray close function at OP "L", CL "H" Brake at OP "L", CL "L"
27	OPSW	Tray open state detecting switch input
28	CLSW	Tray closed state detecting switch input
29	FLSW	Feed original point switch input
30	FEGH	Feed gain H output
31	DM+	Disc motor acceleration command
32	DM-	Disc motor deceleration command
33	Vcc	+5V
34	KD7	} Key digit out
35	KD6	
36	KD5	
37	KD4	
38	KD3	
39	KD2	
40	KD1	
41	KD0	
42	Vss	GND
43	K3	} Key input
44	K2	
45	K1	
46	K0	
47		} Not Used
48		
49		
50		
51		
52		
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57		
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62		
63		

CDX-530/530E

IC7 : YM3417D

Signal Processor & Controller for Compact Disc Player



Pin No.	Pin Name	I / O	Function
1	DFOL	O	DF output signal (audio serial signal for DAC) L ch
2	Ø2	O	Quartz synchronous 2,1168MHz output (SDO bit clock)
3	Ø8	O	Quartz synchronous 8,4672MHz output (DFO bit clock)
4	EFLG	O	Error flag monitor terminal
5	/XFSY	I/O	Quartz synchronous 7.35MHz output (frame synchronous signal )
6	/CE	I	Chip enable
7	SYEQ	O	Synchronous coincidence monitor (EFM pattern and internal counter synchro-nized at "H")
8	VDD	—	
9	X IN	I	For XTAL connection 16.934MHz (clock input terminal)
10	X OUT	O	For XTAL connection
11	18/16	O ↑	18bit/16bit output selectable (L : 16bit, H : 18bit)
12	DFSY	O	DFO output synchronous signal output
13	Vss	—	GND for PCO, XTAL system
14	PCO	O	EFM pattern to CK phase comparison output
15	VPLL	—	Power terminal for VCO
16	EFMI	O	EFM signal input
17	EFMX	O	With EFM resistor, forward rotation output
18	/EFMX	O	With EFM resistor, reverse rotation output
19	SLVL	Oa	Slice level output (Potential difference between EFMX and /EFMX is output. )
20	C17M	-a	For adjusted voltage of VCO
21	C16M	la	For VCO control
22	AVDD	—	Power supply for A/D, DAC system

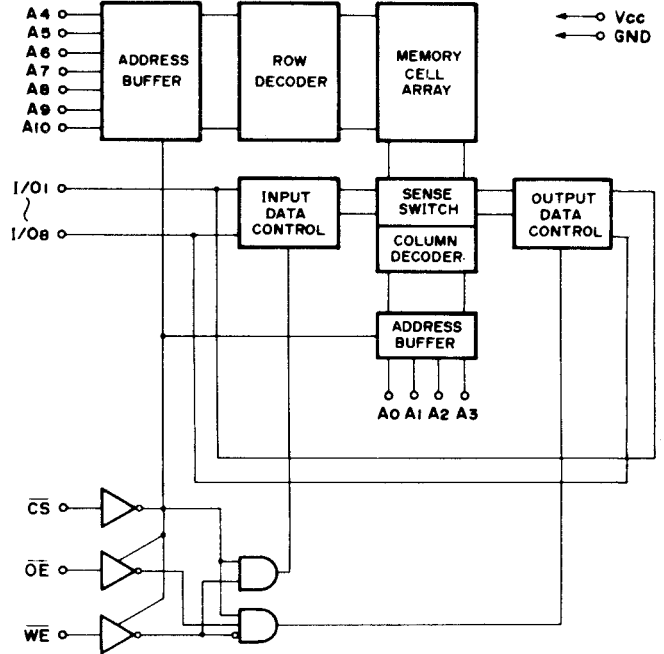
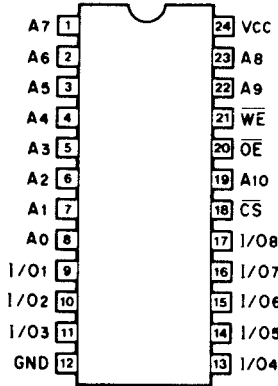


Pin No.	Pin Name	I / O	Function
23	CHOLD	-a	Capacity external terminal for S/H of A/D converter
24	FAO	Oa	DAC output of focus servo
25	TAO	Oa	DAC output of tracking servo
26	AVR	—	Central voltage of servo system
27	AVss	—	GND of A/D, DAC system
28	FRF	Ia	FRF signal input
29	HFD	Ia	HFD signal input
30	FE	Ia	Focus error signal input
31	TE	Ia	Tracking error signal input
32	VDD	—	Power supply for logic system
33	DM+	O	Disc servo signal, forward rotation control signal
34	DM-	O	Disc servo signal, reverse rotation control signal
35	FE-	O	Feed servo signal toward inner circumference
36	FE+	O	Feed servo signal toward outer circumference
37	FEGH	O	"H" output at M4 search
38	AD	I	Select address for DSV side or SVC side (L : SVC, H : DSV)
39	/SCK	I	μCOM interface serial clock input
40	D IN	I	μCOM interface serial data input
41	IRQ	O Δ	μCOM interface (request signal from CDP to μCOM)
42	SUB	O Δ	For subcode output
43	VFSY	O Δ	Subcode frame signal (98 frame synchronous signal)
44	CK	O	Clock obtained through clock playback circuit
45	R/W	I ↑	μCOM interface (0 : CDP μCOM 1 : μCOM CDP)
46	D OUT	O	μCOM interface data output
47	A0	O	External SRAM address terminal A0
48	A1	O	External SRAM address terminal A1
49	A2	O	External SRAM address terminal A2
50	A3	O	External SRAM address terminal A3
51	A4	O	External SRAM address terminal A4
52	A5	O	External SRAM address terminal A5
53	A6	O	External SRAM address terminal A6
54	A7	O	External SRAM address terminal A7
55	A8	O	External SRAM address terminal A8
56	A9	O	External SRAM address terminal A9
57	/WE	O	SRAM input / output control terminal
58	/OE	O	SRAM input / output control terminal
59	A10	O	External SRAM address terminal A10
60	DIF	O	Digital audio interface output
61	Vss	—	
62	/RCK	I ↓	Bit timing signal of subcode output
63	DFOR	O	DF output signal (audio serial signal for DAC) R ch
64	Ø4	O	Quartz synchronous 4.2336MHz output
65	D0	I/O	External SRAM data signal D0
66	D1	I/O	External SRAM data signal D1
67	D2	I/O	External SRAM data signal D2
68	D3	I/O	External SRAM data signal D3
69	D4	I/O	External SRAM data signal D4
70	D5	I/O	External SRAM data signal D5
71	D6	I/O	External SRAM data signal D6
72	VDD	—	
73	D7	I/O	External SRAM data signal D7
74	DEP	O	Deemphasis signal
75	DTFLG	O	For data flag output (Error flag is output)
76	SDSY	O	Synchronous signal of SDO (H : L ch, L : R ch)
77	SDO	O	Serial audio signal output
78	/EXHOLD	I ↑	For servo characteristics selection
79	/TEST E	I ↑	For CDP test
80	/IC	I ↑	For resetting

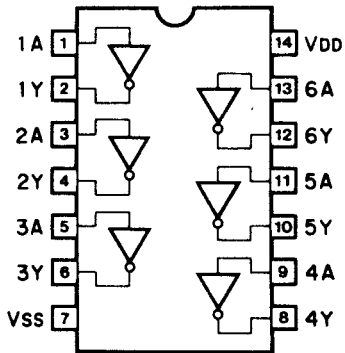
↑ : Pull-up terminal, ↓ : Pull-down terminal, Δ : Open drain terminal, a : Analog signal

**CDX-530/530E**

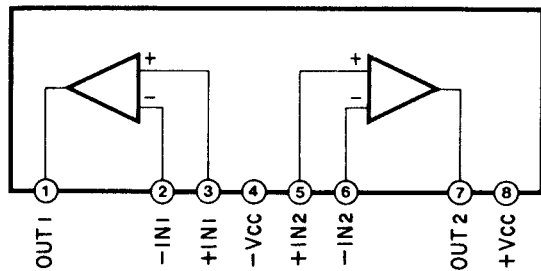
IC8 : LC3517B-15, LC3517BL-15 or CXK5816PS  
2048-Word x 8bit Static RAM



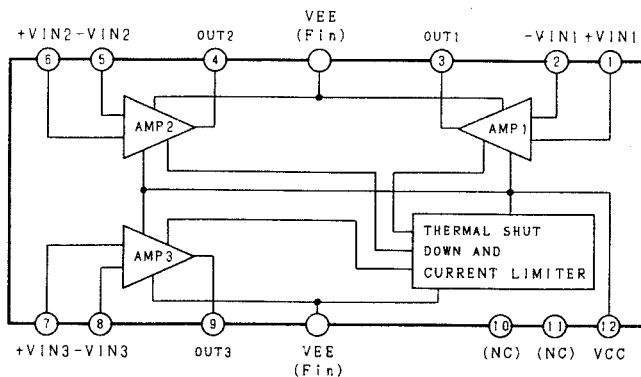
IC3 :  $\mu$ PD74HCU04C or BU74HCU04  
Hex Inverters



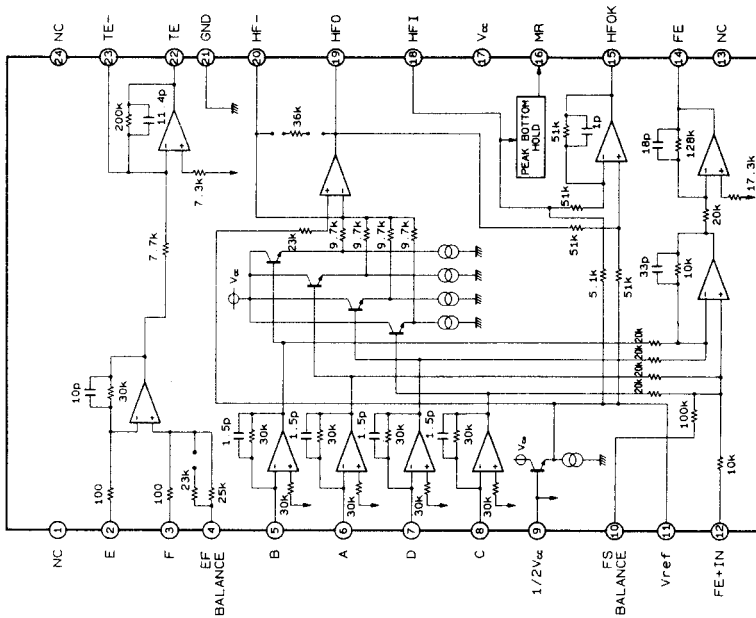
IC12, 402 : M5218L or BA15218N  
Dual Op-amp



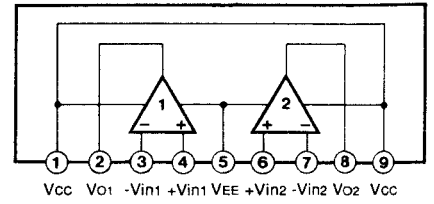
IC5 : LA6520  
3-Channel Power Operational Amp



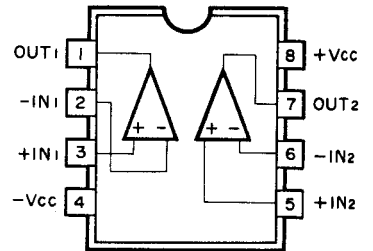
**IC2 : M51569FP or YXD446BO  
RF Amp**



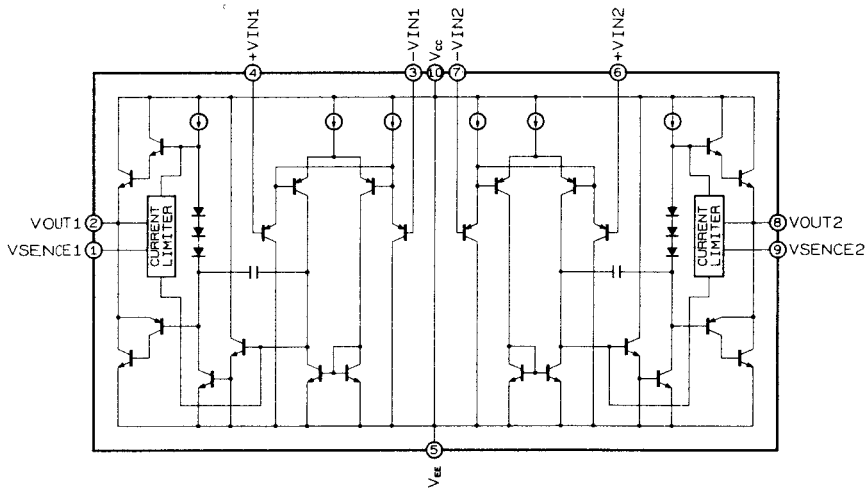
**IC1 : NJM2043S  
Dual Op-amp**



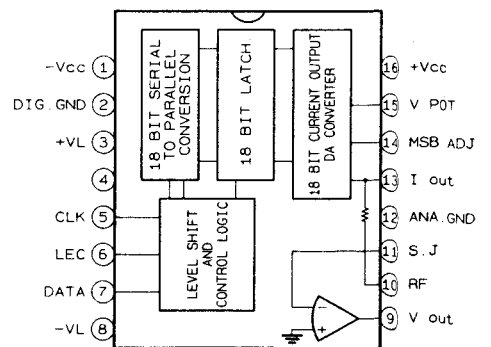
**IC4 :  $\mu$ PC358C or BA10358  
IC18 : NJM4558M (TI)  
Dual Op-amp**



**IC6 : LA6510  
Dual Power Operational Amp**

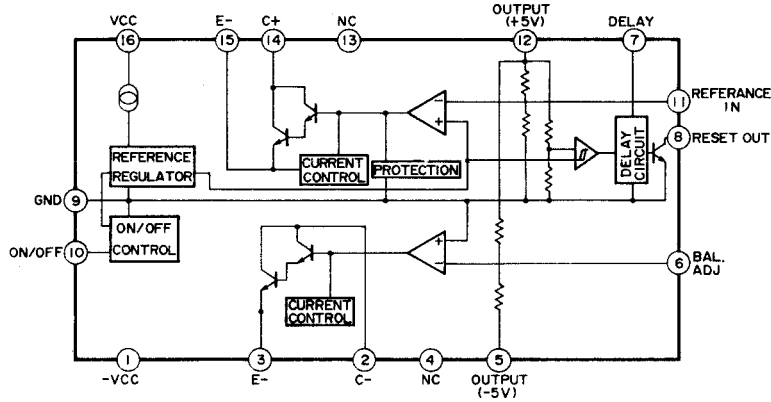


**IC10, 11 : PCM61PJ  
D/A Converter**

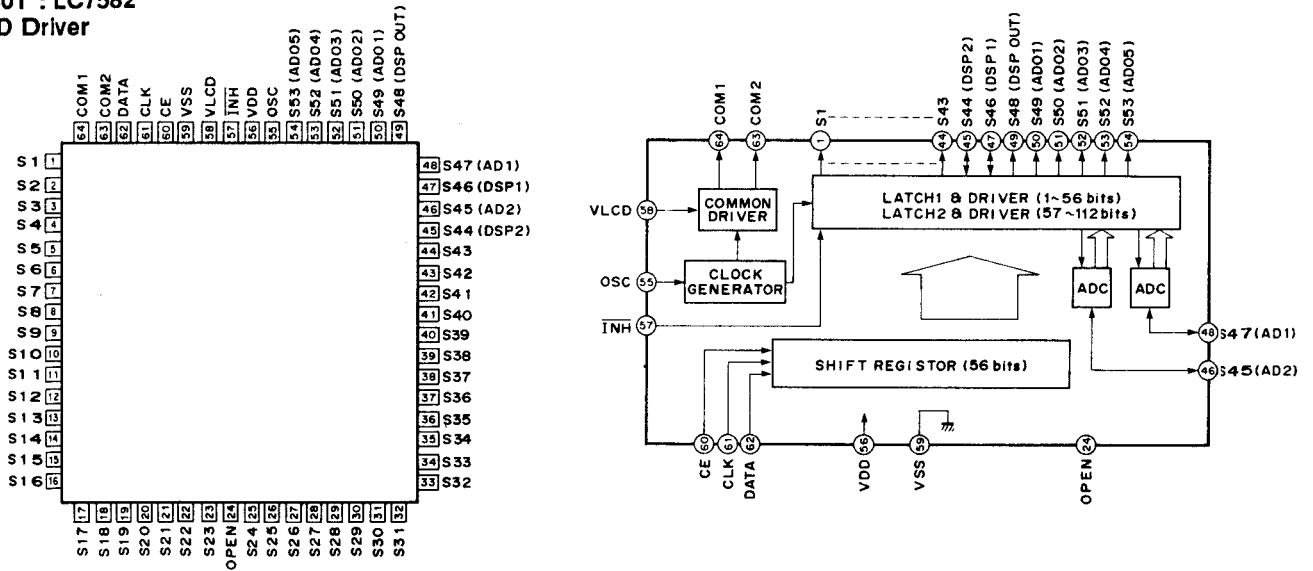


CDX-530/530E

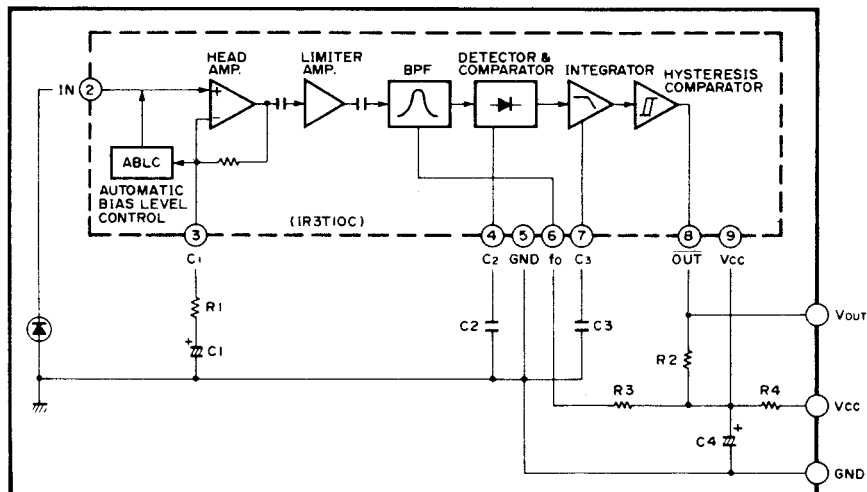
**IC13 : M5290P**  
Constant-Voltage Tracking Supply with Reset



**IC401 : LC7582**  
LCD Driver



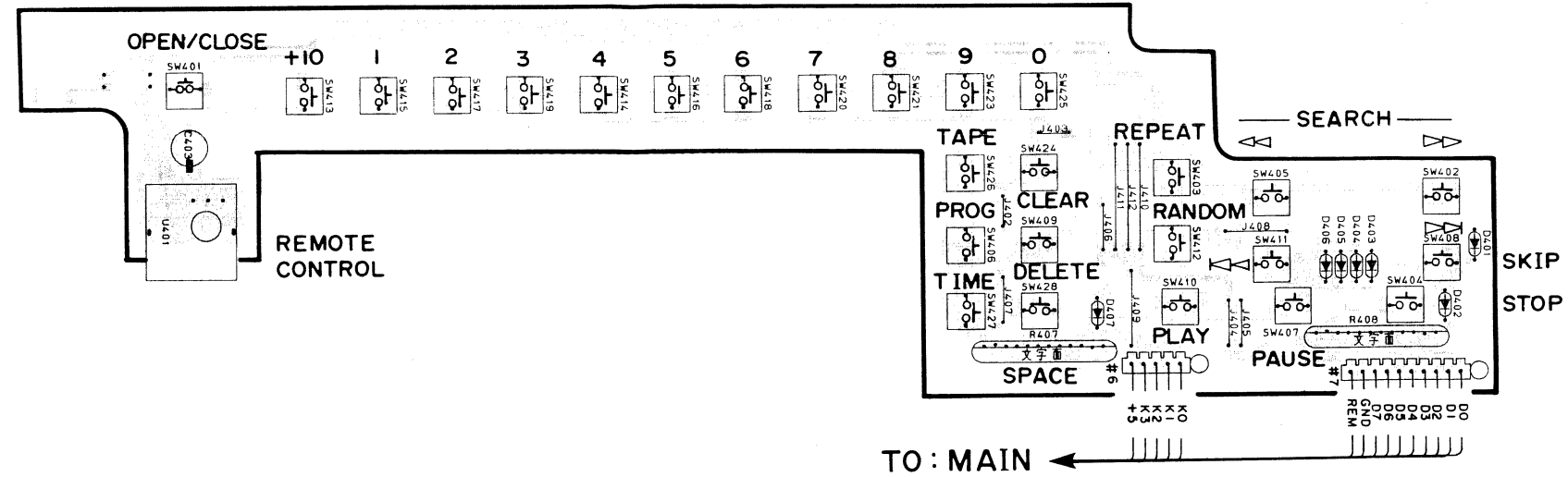
**U401 : GPIU501X**  
Remote Control Receiver Unit



■ PRINTED CIRCUIT BOARD (Foil side)

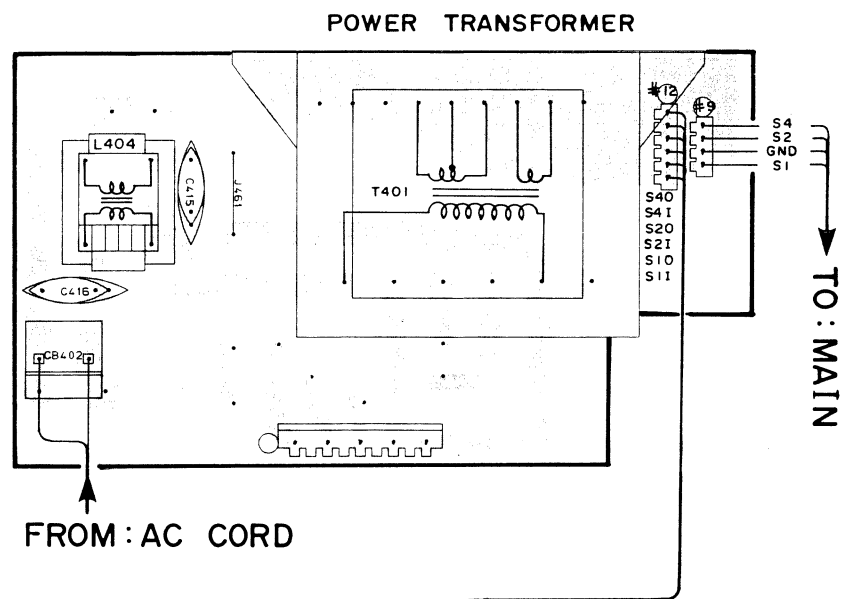
Note) 文字面 : Component side

OPERATION C. B ( 1 )



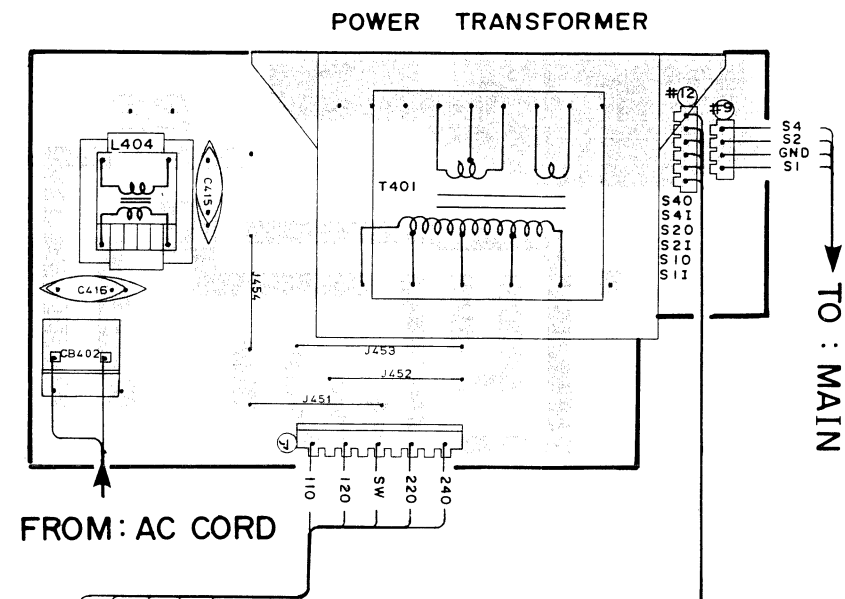
TRANSFORMER C. B ( 1 )

● U, C, A, B, G models

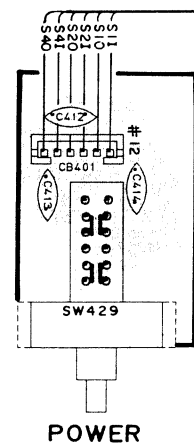


TRANSFORMER C. B ( 1 )

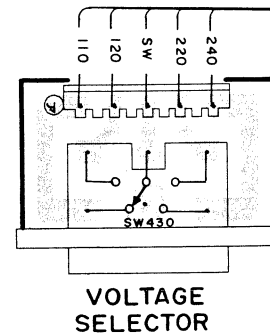
● R model



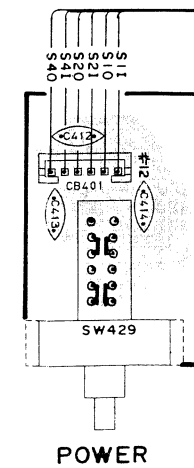
OPERATION C. B ( 3 )



TRANSFORMER C. B ( 2 )



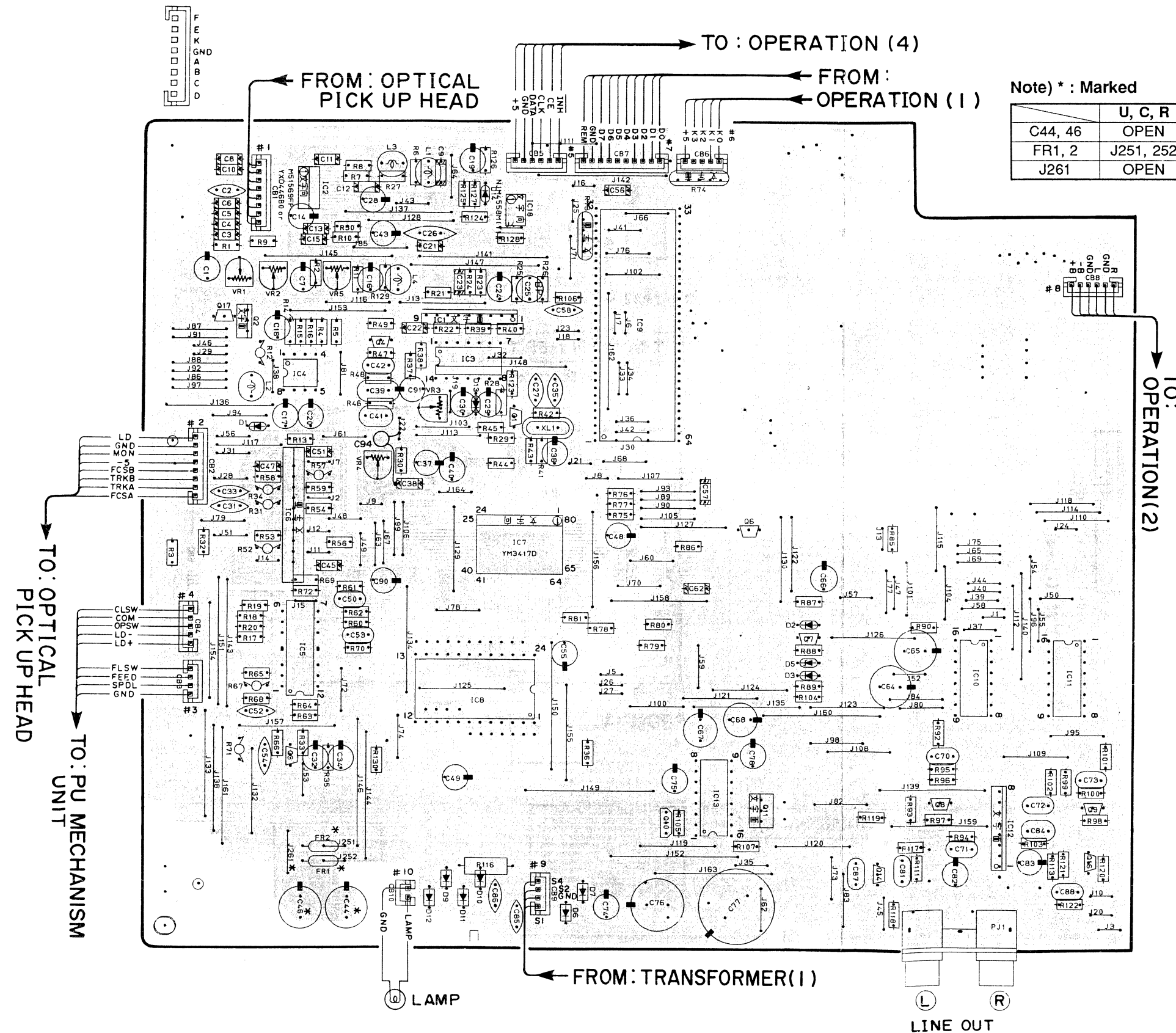
OPERATION C. B ( 3 )



■ PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

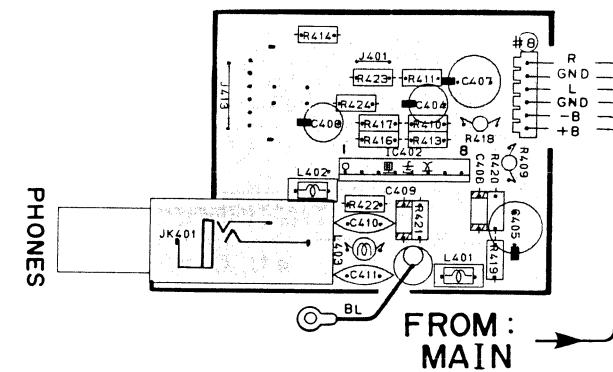
MAIN C. B (1)



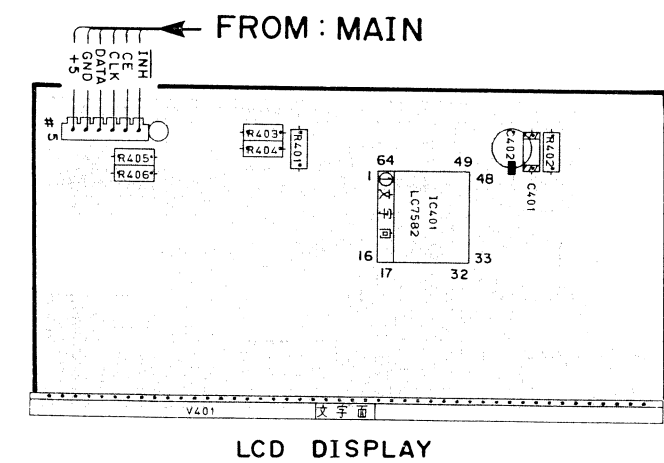
Note) \* : Marked

	U, C, R	A, B, C
C44, 46	OPEN	100/16
FR1, 2	J251, 252	2.2
J261	OPEN	SET

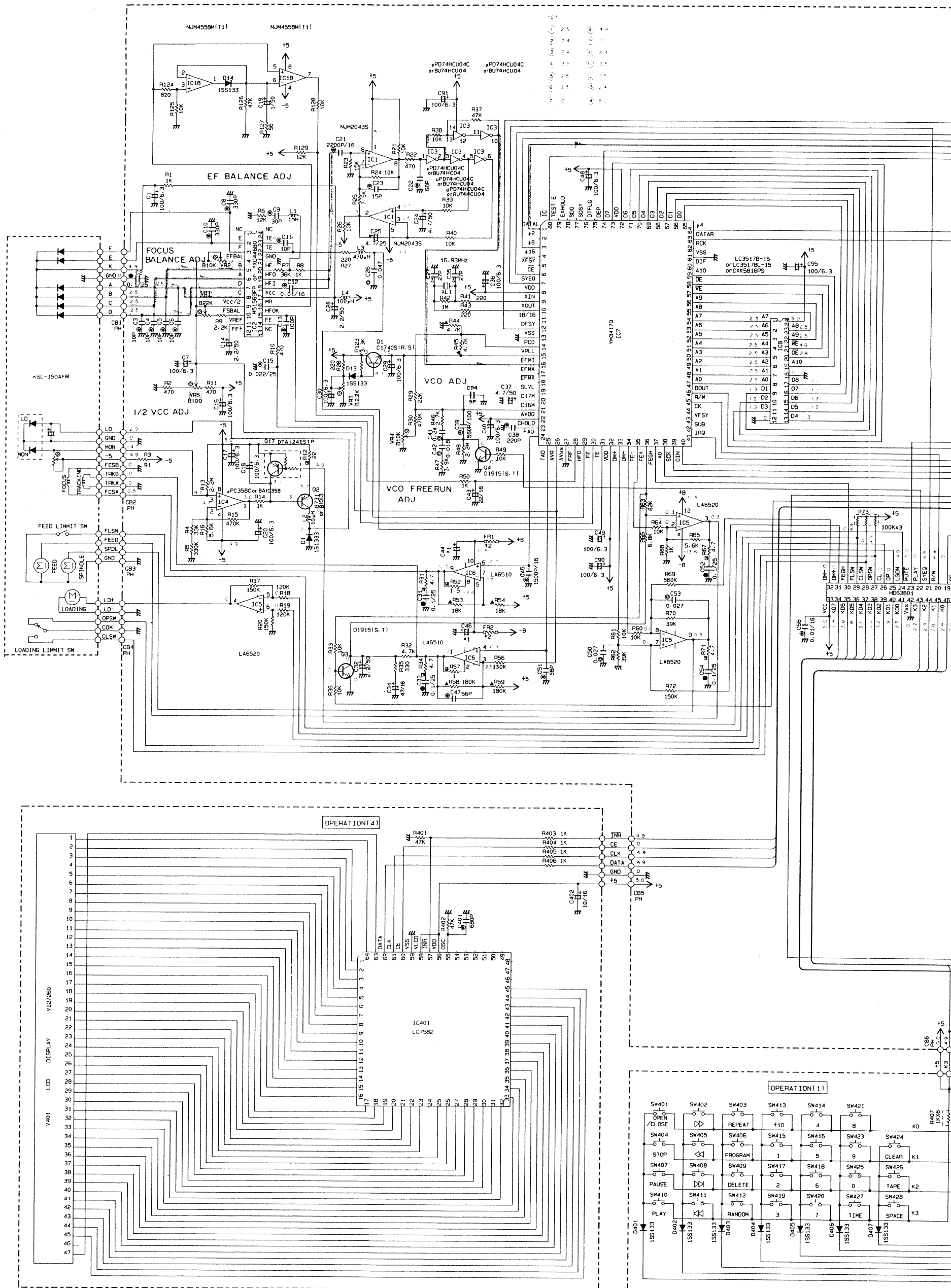
OPERATION C. B (2)



OPERATION C. B (4)

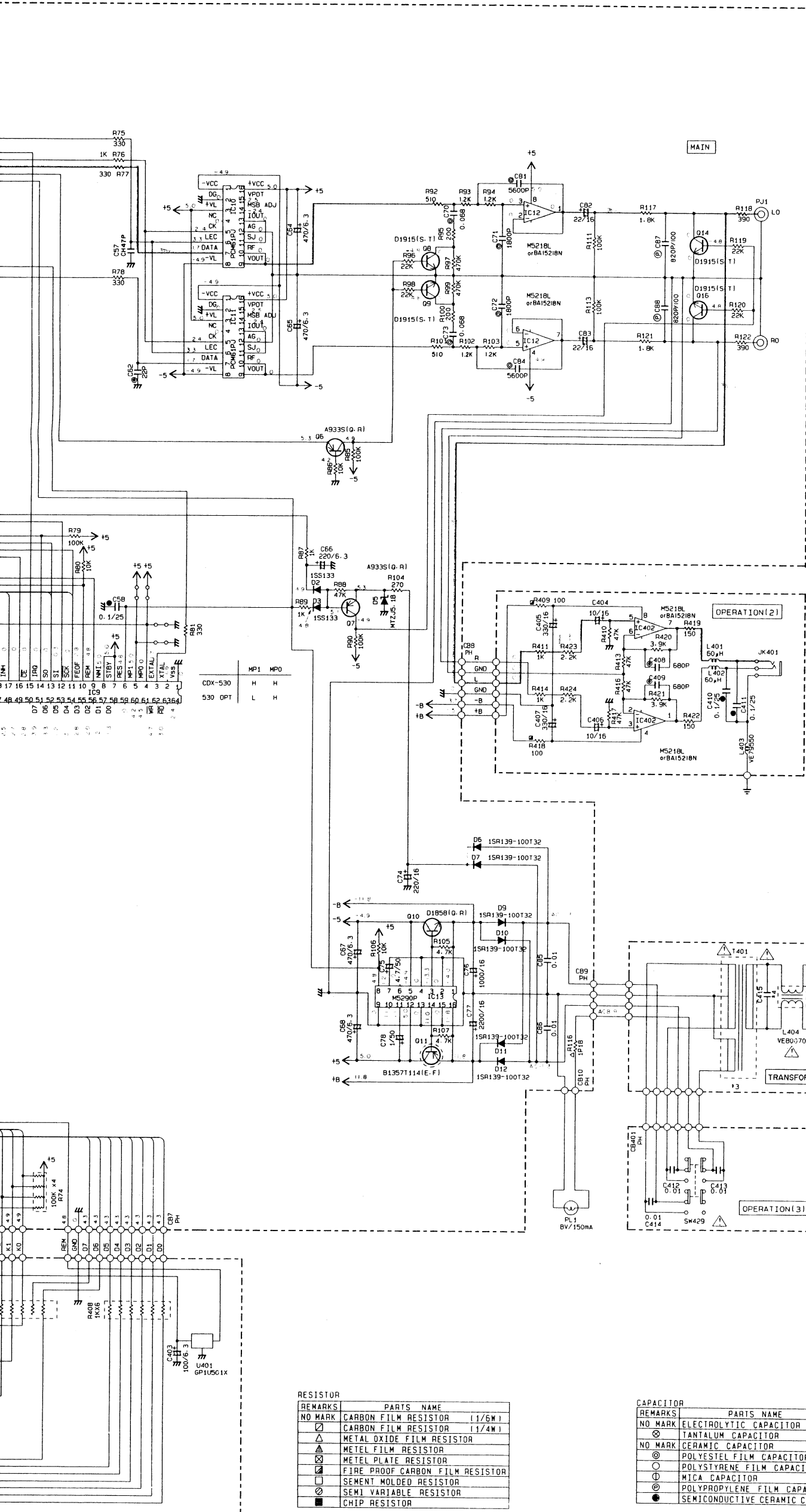


# SCHEMATIC DIAGRAM



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

<p>2SA932S(O, R) 2SA1115(E, F) 2SA1310(R, S, T) 2SC1740S(R, S) 2SD1915(S, T) 2SD1858(O, R) DTA-124ESTP</p>	<p>2SB1357T114(E, F) 2SB731</p>	<p>1SR139-100T32 MTZJ5.1B 1SS133</p>	<p>M5218L BA 15218N</p>	<p>NJM2043S</p>	<p>LA6510</p>	<p>μPC358C BA10358</p>	<p>LA6520</p>	<p>μPD74HC04C BU74HC04</p>	<p>M5290P PCM61PJ</p>	<p>LC3 LC3 CCK</p>
--	-------------------------------------	--	-----------------------------	-----------------	---------------	----------------------------	---------------	--------------------------------	---------------------------	----------------------------



		U-C	R	A-B	G
*1	C44-46	OPEN	→	100/16	→
*2	FR1-2	SHORT	→	2-2	→
*3	T401	XG539	→	XG733	XG734
*4	C415-416	0.01	→	0.01/400	→
*5					

A933S(G-R) : A933S(G-R) or A1115(E-F) or A1310(R-S-T)

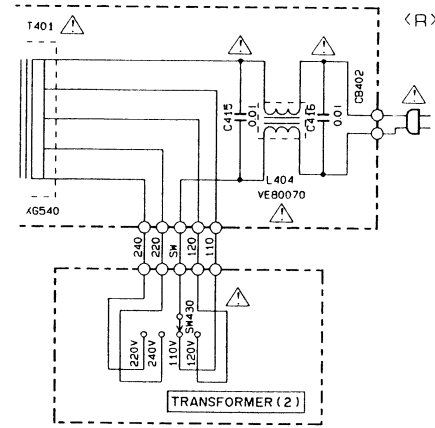
MAIN

LAST NO.	UN LISTED NO.
C	94
R	130
Q	17
D	14
IC	18

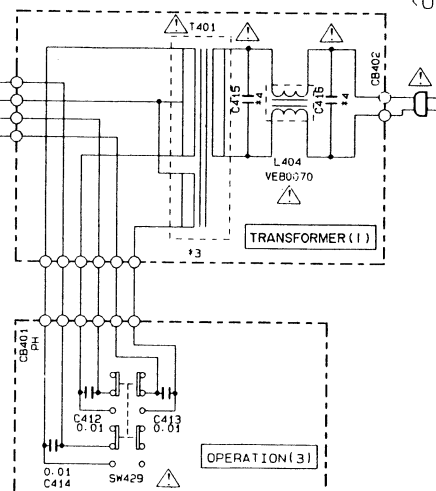
OPERATION

LAST NO.	UN LISTED NO.
C	416
R	424
Q	407
IC	402
SW	430

	Black	T1
JK401	LB30243	LB30242



<U. C. A. G. B>



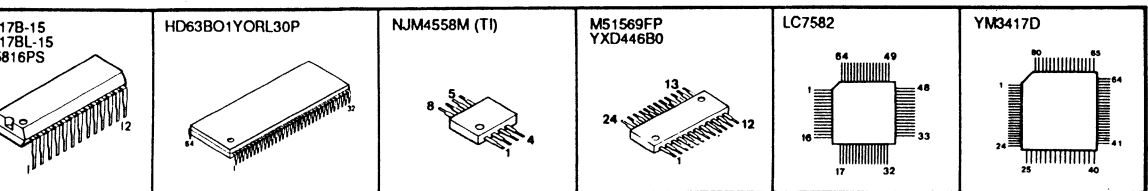
RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
⊗	METAL FILM RESISTOR
⊙	METAL PLATE RESISTOR
⊠	FIRE PROOF CARBON FILM RESISTOR
⊞	CEMENT MOLDED RESISTOR
⊚	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR
⊠	POLYSTYRENE FILM CAPACITOR
⊞	MICA CAPACITOR
⊚	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

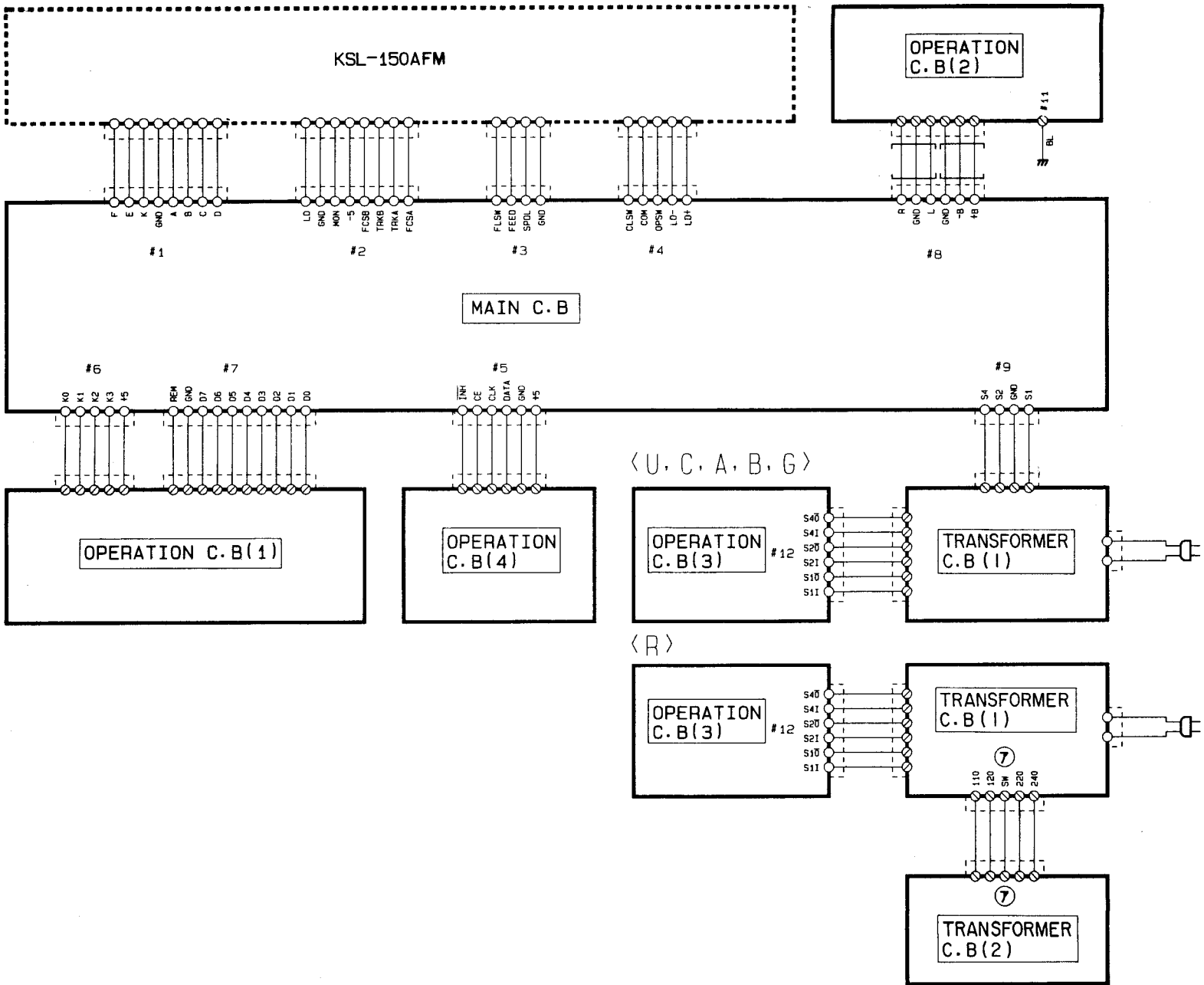
NOTICE  
 (J)..... Japanese model  
 (U)..... U.S.A model  
 (C)..... Canadian model  
 (A)..... Australian model  
 (G)..... European model  
 (B)..... British model  
 (R)..... General model  
 (P)..... RP model



- \* All voltage are measured with a 10MΩ/DC electric volt meter.
- \* Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
- \* Schematic diagram is subject to change without notice.



INTERCONNECT WIRING DIAGRAM



■ WARNING

Components having special characteristics are marked  $\triangle$  and must be replaced with parts having specifications equal to those originally installed.

●Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the parts No. of the carbon resistors, refer to P. 41.

# PARTS LIST

## ■ ELECTRICAL PARTS

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
*	VI253600	MAIN CIRCUIT BOARD	メインシート		U,C,R	
*	VI283900	MAIN CIRCUIT BOARD	メインシート		A,B,G	
	UA253180	MYLAR FILM CAP	マイラーコン	C71,72		
	UA253580	MYLAR FILM CAP	マイラーコン	C81,84		
	UA254180	MYLAR FILM CAP	マイラーコン	C42		
	UA254270	MYLAR FILM CAP	マイラーコン	C50,53		
	UA254680	MYLAR FILM CAP	マイラーコン	C70,73		
	UA655240	MYLAR FILM CAP	マイラーコン	C41		
	FG210500	CERAMIC CAP	セラコン	C94		
	UT452580	POLYPROPYLEN FILM CAP	PPコン	C39		
	UT452820	POLYPROPYLEN FILM CAP	PPコン	C87,88		
	FG244100	CERAMIC CAP	セラコン	C85,86		
	UA254470	MYLAR CAP	マイラーコン	C26		
*	VF466600	CERAMIC CAP	円筒セラコン	C3-6,11		
	VG276200	CERAMIC CAP	円筒セラコン	C23		
*	VG276600	CERAMIC CAP	円筒セラコン	C62		
*	VG276900	CERAMIC CAP	円筒セラコン	C9		
*	VG277500	CERAMIC CAP	円筒セラコン	C47,51		
	VG277700	CERAMIC CAP	円筒セラコン	C22		
	VF466800	CERAMIC CAP	円筒セラコン	C13		
*	VG278400	CERAMIC CAP	円筒セラコン	C38		
*	VG278600	CERAMIC CAP	円筒セラコン	C8,10		
*	VG279200	CERAMIC CAP	円筒セラコン	C45		
	VG279400	CERAMIC CAP	円筒セラコン	C21		
	VF467300	CERAMIC CAP	円筒セラコン	C12,56		
	VG280100	CERAMIC CAP	円筒セラコン	C15		
	VA761100	CERAMIC CAP	セラコン	C27,35		
	VA761400	CERAMIC CAP	セラコン	C57		
	UH118100	ELECTROLYTIC CAP	ケミコン	C1,7,16-18,20,29,30,36,40,48,49,55,90,91		
	UH018220	ELECTROLYTIC CAP	ケミコン	C66		
	UJ118470	ELECTROLYTIC CAP	ケミコン	C64,65,67,68		
	UH137220	ELECTROLYTIC CAP	ケミコン	C43,82,83		
	UH237470	ELECTROLYTIC CAP	ケミコン	C34		
	UI838220	ELECTROLYTIC CAP	ケミコン	C74		
	UI838100	ELECTROLYTIC CAP	ケミコン	C44,46	A,B,G	
	UH166100	ELECTROLYTIC CAP	ケミコン	C19,78		
	UH166220	ELECTROLYTIC CAP	ケミコン	C14,28,32		
	UH166470	ELECTROLYTIC CAP	ケミコン	C24,37,75		
	UJ139100	ELECTROLYTIC CAP	ケミコン	C76		
	UJ139220	ELECTROLYTIC CAP	ケミコン	C77		
*	UK346470	ELECTROLYTIC CAP	BPケミコン	C25		
*	VD930900	SEMI-CONDUCT CAP	半導体セラコン	C2,31,33,52,54,58		
*	VB100200	COIL	固定コイル	L2		
*	VE008800	COIL	コイル	L4		
*	VG669900	COIL	コイル	L3		
*	VG670600	COIL	コイル	L1		
	HV453100	FLAME PROOF RESISTOR	不燃化カーボン抵抗	R57		
	HV753150	FLAME PROOF RESISTOR	不燃化カーボン抵抗	R52		
	HV453470	FLAME PROOF RESISTOR	不燃化カーボン抵抗	R31,34,67,71		

\*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	HV454220	FLAME PROOF RESISTOR	22Ω 1/4W	不燃化カーボン抵抗	R12	
±	VI339500	METAL FILM RESISTOR	18KΩ 1/8W	金属皮膜抵抗	R53,54	
±	VH254500	METAL FILM RESISTOR	4.7KΩ 1/8W	金属皮膜抵抗	R44,45	
±	VE595000	METAL FILM RESISTOR	180KΩ 1/8W	金属皮膜抵抗	R58,59	
±	VI661400	METAL OXIDE FILM RESISTOR	18Ω 1W	酸化金属被膜抵抗	R116	
	VH293400	FUSE RESISTOR	2.2Ω 1/8W	ヒューズ抵抗	FR1,2	A,B,G
	VD270200	RESISTOR ARRAY	RMLS3 J 100Kx3	ネットワーク抵抗	R73	
±	VB933600	RESISTOR ARRAY	RMLS4 J 100Kx4	抵抗アレイ	R74	
	XD446800	IC	YXD44680	IC	IC2	
±	XG828A00	IC	UPC358C	IC	IC4	
±	XG381A00	IC	LA6520	IC	IC5	
±	XF947A00	IC	LA6510	IC	IC6	
	XD201001	IC	M5290P	IC	IC13	
	IG142220	IC	UPD74HCU04C	IC	IC3	
	IG058210	IC	M5218L	IC	IC12	
	IG080200	IC	NJM2043S	IC	IC1	
	IG103520	IC	NJM4558MT-1	IC	IC18	
±	XG829A00	IC	HD63B01YORL30P	IC	IC9	
	XE195A00	IC	LC3517B-15	IC	IC8	
±	XG804A00	IC	PCM61PJ	IC	IC10,11	
±	XG756B00	IC	YM3417D	IC	IC7	
	VE484600	PIN JACK	2P	ピンジャック	PJ1	
	VD004500	BASE PIN	PH 2P TE	ベースピン	CB10	
	VD004700	BASE PIN	PH 4P TE	ベースピン	CB3,9	
	VD004800	BASE PIN	PH 5P TE	ベースピン	CB4,6	
	VD004900	BASE PIN	PH 6P TE	ベースピン	CB5,8	
	VD005100	BASE PIN	PH 8P TE	ベースピン	CB1,2	
	VD005300	BASE PIN	PH 10P TE	ベースピン	CB7	
	VC398800	QUARTZ CRYSTAL RESONATOR	16.9344M	水晶振動子	XL1	
	VB862500	PRE-SET POTENTIOMETER	B220Ω	半固定VR	VR5	
	VB861100	PRE-SET POTENTIOMETER	B1KΩ	半固定VR	VR3	
	VB861500	PRE-SET POTENTIOMETER	B10KΩ	半固定VR	VR2,4	
	VB861600	PRE-SET POTENTIOMETER	B22KΩ	半固定VR	VR1	
	IA093370	TRANSISTOR	2SA933S Q,R	トランジスタ	Q6,7	
	VH555500	TRANSISTOR	2SB1357 E,F	トランジスタ	Q11	
±	VI287900	TRANSISTOR	2SB731	トランジスタ	Q2	
	IC174070	TRANSISTOR	2SC1740S R,S	トランジスタ	Q1	
	VC502100	TRANSISTOR	2SD1915 S,T	トランジスタ	Q3,4,8,9,14,16	
	VE613400	TRANSISTOR	2SD1858 Q,R	トランジスタ	Q10	
	VH257100	DIGITAL TRANSISTOR	DTA124ES	デジトラ	QQ17	
±	VH770800	DIODE	1SR139-100	ダイオード	D6,7,9-12	
	VG437400	ZENER DIODE	MTZJ5.1B 5.1V	ツェナーダイオード	D5	
	IF004600	DIODE	1SS133 T-77	ダイオード	D1-3,13,14	
	VB966900	PIN	IMSA-8024	スタイルピン		
	VA119100	HEAT SINK		ヒートシンク		
±	NX605050	OPERATION CIRCUIT BOARD		オペレーションシート	BL	
±	NX605060	OPERATION CIRCUIT BOARD		オペレーションシート	T	
	FG244100	CERAMIC CAP	0.01μF 50V	セラコン	C412-414	

\*New Parts (新規部品)

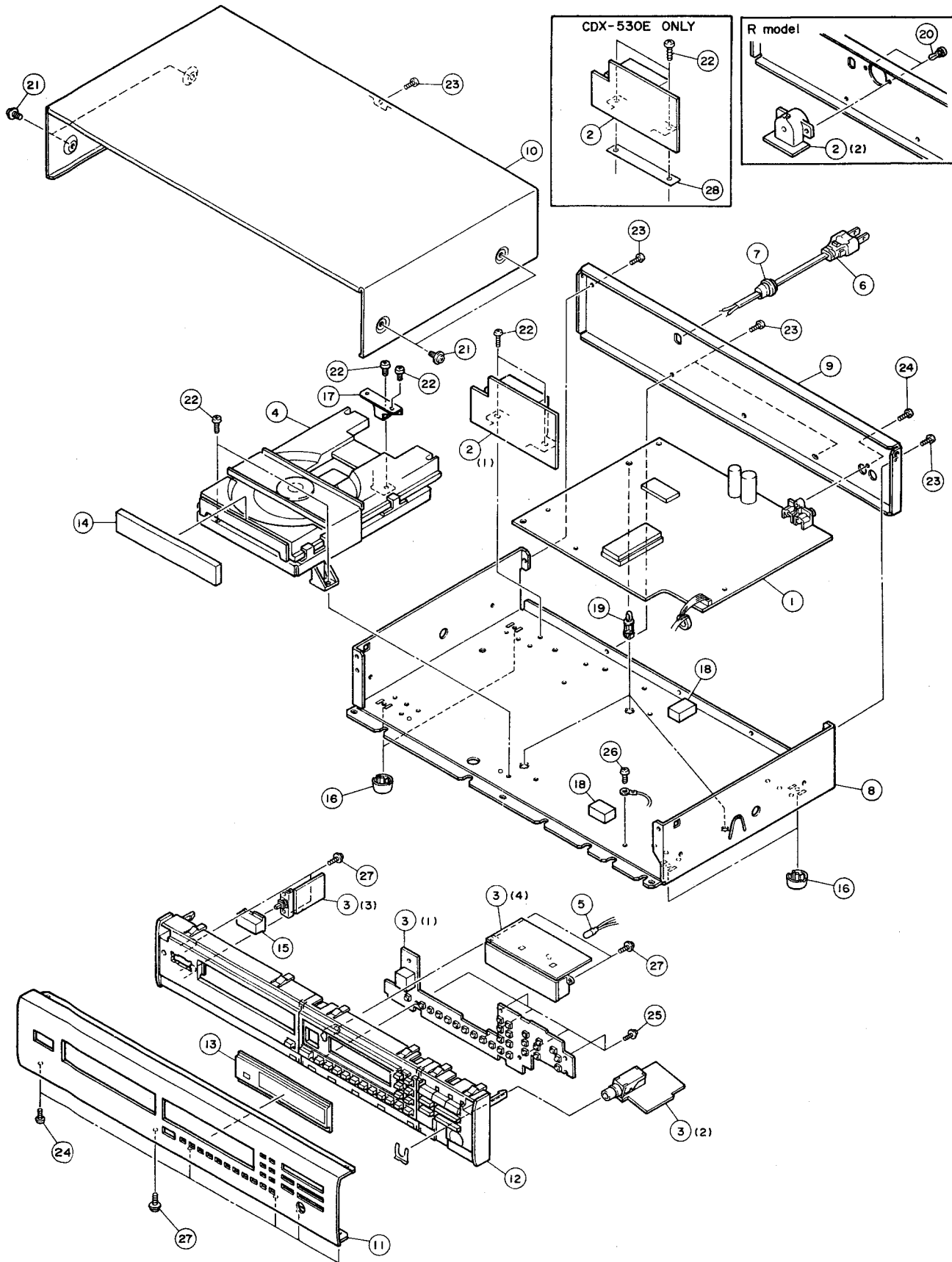
ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
±	VG278900	CERAMIC CAP	680pF 50V	円筒セラコン	C401,408,409	
±	VD930900	SEMI-CONDUCT CAP	0.1μF 25V	半導体セラコン	C410,411	
	UH137100	ELECTROLYTIC CAP	10μF 16V	ケミコン	C402,404,406	
	UJ138330	ELECTROLYTIC CAP	330μF 16V	ケミコン	C405,407	
	UM388100	ELECTROLYTIC CAP	100μF 6.3V	ケミコン	C403	
	VD473700	COIL	SBT-0460T 60μH	コイル	L401,402	
±	VI491100	FERRITE CORE	BP53RB19012080M	フェライトコア	L405	
	VE795500	FERRITE BEAD	B-01-RTF	フェライトビーズ	L403	
	HV455100	FLAME PROOF RESISTOR	100Ω 1/4W	不燃化カーボン抵抗	R409,418	
±	VI272400	RESISTOR ARRAY	RYLA6J 1Kx6	抵抗アレイ	R407,408	
	IG058210	IC	M5218L	IC	IC402	
	XB417001	IC	LC7582	IC	IC401	
±	VI272600	LCD	LCD8094B1JP	LCD表示器	V401	
	VF926500	RECEIVE UNIT	GP1U501X	リモコン受光ユニット	U401	
±	VI272700	PUSH SWITCH	PSE01-A4KPX	プッシュSW	SW429	
	VG392900	TACT SWITCH	SKHVAA	タクトSW	SW401-421,423-428	
	LB302430	PHONE JACK		ホーンジャック	BL JK401	
	LB302420	PHONE JACK	M1669-A	ホーンジャック	T JK401	
	VD004900	BASE PIN	PH 6P	ベースピン	CB401	
	IF004600	DIODE	1SS133 T-77	ダイオード	D401-407	
	VG335800	REFLECTOR		リフレクター		
	VH041200	SHEET		シート		
	CB605620	PLASTIC RIVET	NO.1057	プラリベット		
	VF444500	LAMP CAP	AG-4015	ランプキャップ		
±	NX605010	TRANSFORMER CIRCUIT BOARD		トランスシート		U,C
±	NX605030	TRANSFORMER CIRCUIT BOARD		トランスシート		A,B
±	NX605020	TRANSFORMER CIRCUIT BOARD		トランスシート		R
±	NX605040	TRANSFORMER CIRCUIT BOARD		トランスシート		G
±	NX606740	TRANSFORMER CIRCUIT BOARD	CDX-530E	トランスシート		B
±	NX606750	TRANSFORMER CIRCUIT BOARD	CDX-530E	トランスシート		G
	FI384100	CERAMIC CAP	0.01μF 400V	規格認定コン	C415,416	U,C
	VE179200	CERAMIC CAP	0.01μF 400V	規格認定コン	C415,416	R,A,B,G
	XG539A00	POWER TRANSFORMER		電源トランス	T401	U,C
±	XG540A00	POWER TRANSFORMER		電源トランス	T401	R
±	XG733A00	POWER TRANSFORMER		電源トランス	T401	A,B
±	XG734A00	POWER TRANSFORMER		電源トランス	T401	G
±	XG844A00	POWER TRANSFORMER	CDX-530E	電源トランス	T401	B
±	XG845A00	POWER TRANSFORMER	CDX-530E	電源トランス	T401	G
	VE800700	LINE FILTER	1.8mH	ラインフィルタ	L404	
	VG388100	VOLTAGE SELECTOR	HXW0244	電圧切替器		R
	VE225700	BASE PIN	5289 2P TE	ベースポスト	CB402	

\*New Parts (新規部品)

ランク : Japan only

EXPLODED VIEW



MECHANICAL PARTS Note ) φ : Diameter

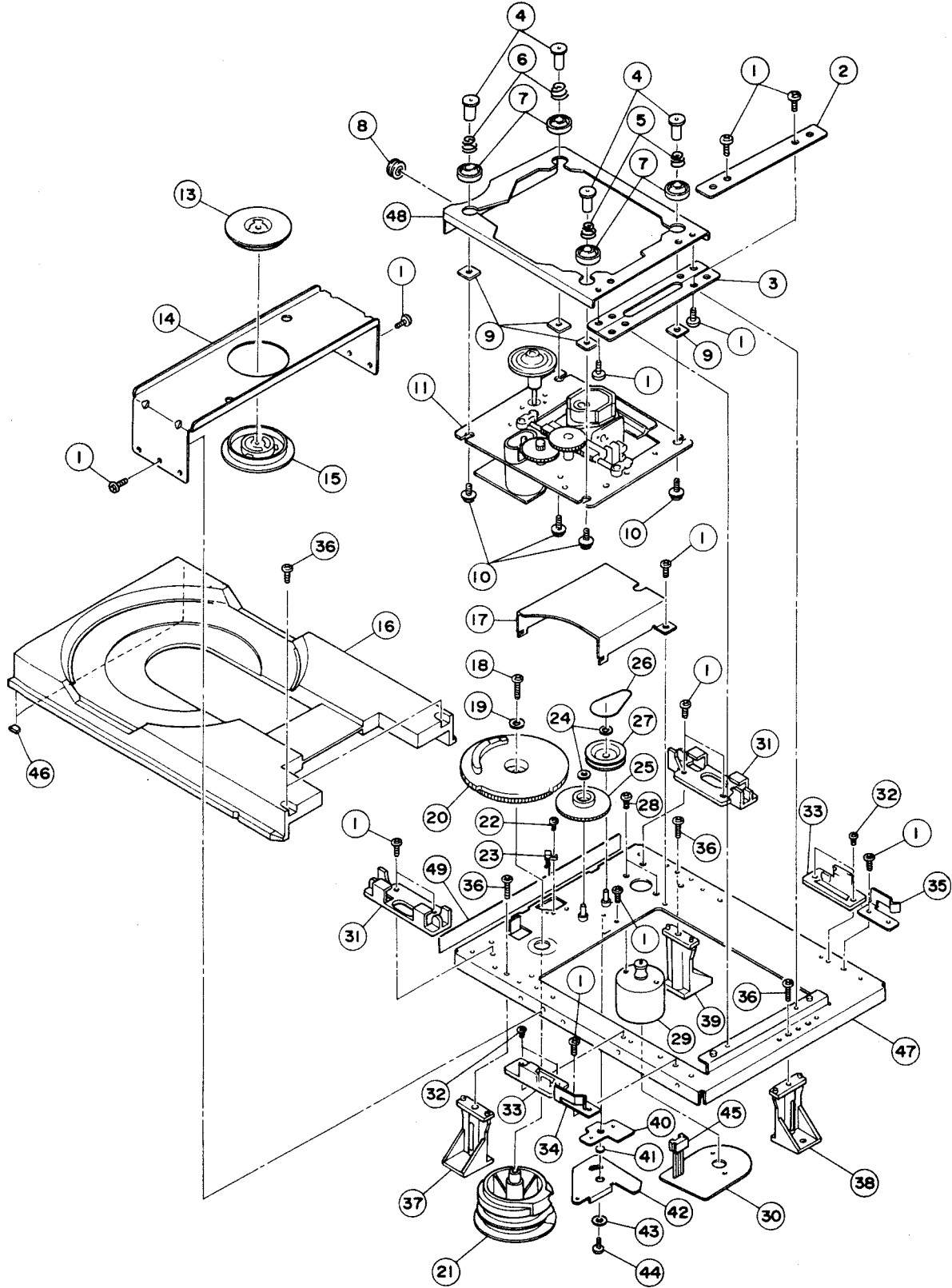
Ref. NO.	PART NO.	Description	部品名	Remarks	Markets	ランク
1	VI253600	MAIN CIRCUIT BOARD	メインシート		U,C,R	
1	VI283900	MAIN CIRCUIT BOARD	メインシート		A,B,G	
2	NX605010	TRANSFORMER CIRCUIT BOARD	トランスシート		U,C	
2	NX605020	TRANSFORMER CIRCUIT BOARD	トランスシート		R	
2	NX605030	TRANSFORMER CIRCUIT BOARD	トランスシート		A,B	
2	NX605040	TRANSFORMER CIRCUIT BOARD	トランスシート		G	
2	NX606740	TRANSFORMER CIRCUIT BOARD	トランスシート	CDX-530E	B	
2	NX606750	TRANSFORMER CIRCUIT BOARD	トランスシート	CDX-530E	G	
3	NX605050	OPERATION CIRCUIT BOARD	オペレーションシート	BL		
3	NX605060	OPERATION CIRCUIT BOARD	オペレーションシート	T		
4	VI287800	PU MECHA UNIT	P Uメカユニット	KSL-150AFM		
5	VG933600	LAMP	ランプ	1.2W 8V150mA		
6	VE640000	POWER CORD ASSY	パワーコードASSY		U,C	△
6	VE222900	POWER CORD ASSY	パワーコードASSY		R	△
6	VE042900	POWER CORD ASSY	パワーコードASSY		A	△
6	VE043100	POWER CORD ASSY	パワーコードASSY		B	△
6	VE043400	POWER CORD ASSY	パワーコードASSY		G	△
6	VI375600	POWER CORD ASSY	パワーコードASSY	CDX-530E	B	△
6	VI375700	POWER CORD ASSY	パワーコードASSY	CDX-530E	G	△
7	CB616810	CORD STOPPER	コードストッパー	CM-22A	U,C	△
7	CB620190	CORD STOPPER	コードストッパー	CM-22B		
8	VH787200	BOTTOM	ボトム		R,A,B,G	
9	VH787600	REAR PANEL	リヤパネル		R	
9	VH787400	REAR PANEL	リヤパネル		U	
9	VH787500	REAR PANEL	リヤパネル		C	
9	VH787700	REAR PANEL	リヤパネル		A,B	
9	VH787800	REAR PANEL	リヤパネル		G	
9	VI246900	REAR PANEL	リヤパネル	CDX-530E	B	
9	VI247000	REAR PANEL	リヤパネル	CDX-530E	G	
10	AA631020	TOP COVER	トップカバー			
10	VH210800	TOP COVER	トップカバー	BL		
11	VH690700	FRONT PANEL	フロントパネル	BL		
11	VH798600	FRONT PANEL	フロントパネル	T		
11	VI622000	FRONT PANEL	フロントパネル	CDX-530E	B,G	
11	VI622100	FRONT PANEL	フロントパネル	CDX-530E	T	
12	VH690800	FRONT PANEL, SUB	フロントパネル サブ	BL		
12	VH990500	FRONT PANEL, SUB	フロントパネル サブ	T		
13	VH691000	WINDOW	ウインドウ	BL		
13	VH990600	WINDOW	ウインドウ	T		
14	VH690900	LID	リッド	BL		
14	VH990900	LID	リッド	T		
15	VH841900	BUTTON	ボタン	10/25	BL	
15	VH842000	BUTTON	ボタン	10/25	T	
16	CB610390	LEG	トランレグ	TL-067		
17	VI246500	GROUND PLATE	アースプレート	DM		
18	VI299500	SHEET	シート			
19	CB097610	HOLDER, P.C. BOARD	シートホルダー			
20	CB609260	PLASTIC RIVET	プラリベット		R	
21	EX601260	CUP SCREW S TIGHT	カップネジ	4x8 FCM3-3G	T	
21	EX601080	CUP SCREW S TIGHT	カップネジ	4x8 FCM3-BL	BL	

\*New Parts (新規部品)

ランク : Japan only



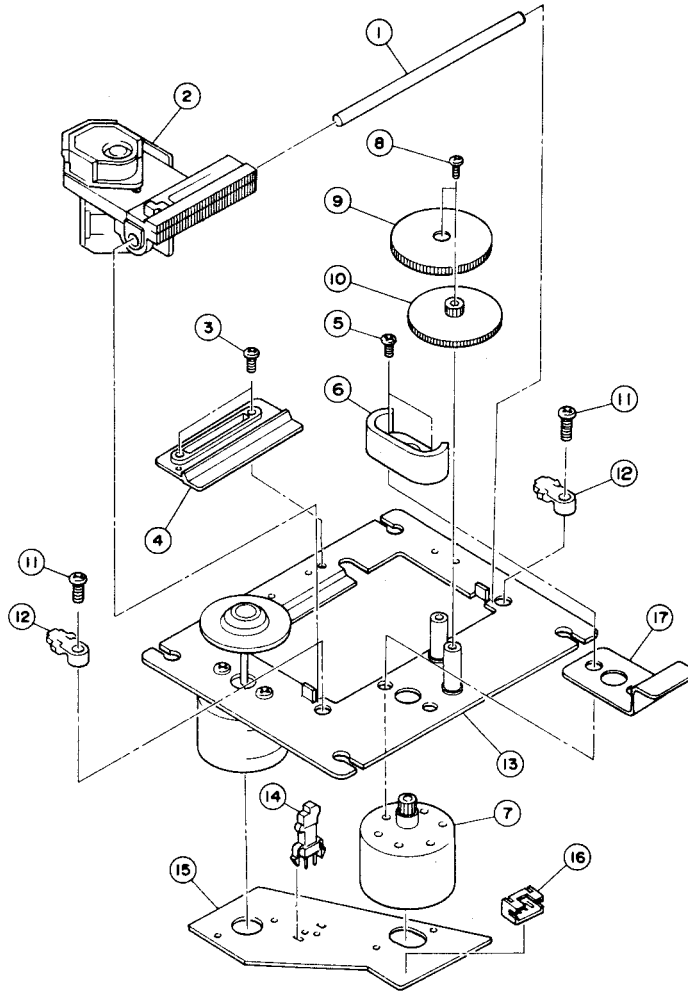
■ EXPLODED VIEW (PU MECHA. UNIT)



**MECHANICAL PARTS (PU MECHA. UNIT)** Note )  $\phi$  : Diameter

Ref. NO.	PART NO.	Description		部 品 名	Remarks	Markets	ランク
01	EDO26066	BINDING HEAD SCREW	2.6x6 ZMC2-Y	バインド小ネジ	7-685-862-01		
02	AX607330	HINGE HOLD		ヒンジ押え	2-642-170-01		
03	AX607340	HINGE		ヒンジ	2-642-103-01		
04	BX601560	SHAFT		シャフト	2-642-160-01		
05	AX607350	SPRING B		エンスイケイコイルバネB	2-642-137-01		
06	AX607360	SPRING A		エンスイケイコイルバネA	2-642-139-01		
07	CX610770	INSULATOR		インシュレータ	2-642-158-01		
08	AX607370	ROLLER		ローラー	2-642-169-01		
09	BX601570	PLATE SP		プレート SP	2-642-159-01		
10	AX607380	BW HEAD SCREW	2x8 $\phi$ 8	座付ネジ	2-642-142-01		
11	NX605870	MECHANISM SUB ASS'Y		メカサブASSY	8-848-156-02		
13	NX605720	MAGNET ASS'Y		マグネットASSY	X-2642-108-1		
14	AX607390	CHUCK CHASSIS		チャックシャーシ	2-642-165-01		
15	CX610780	CHUCKING PULLEY		チャッキングプーリー	2-642-181-01		
16	CX610790	TRAY		トレー	2-642-156-01		
17	AX607400	GEAR COVER		ギアカバー	2-642-149-02		
18	EJ026106	PAN HEAD TAPPING SCREW	2.6x10 ZMC2-Y	ナベタッピングネジ	7-685-535-19		
19	AX607410	WASHER		ザガネ	4-812-554-00		
20	CX610800	DRIVE GEAR		ドライブギア	2-642-154-02		
21	CX610810	CONTROL CAM		コントロールカム	2-642-153-01		
22	EDO20046	BIND HEAD SCREW	2x4	バインド小ネジ	7-685-851-01		
23	KX602360	LEAF SWITCH		リーフスイッチ	1-572-052-11		
24	CX610820	WASHER		止めワッシャー	3-558-708-21		
25	CX610830	GEAR		中間ギア	2-642-148-01		
26	CX610840	BELT,LOADING MOTOR		LMベルト	3-653-387-00		
27	CX610850	LOADING PULLEY		ローディングプーリー	4-913-731-01		
28	ED326036	BIND HEAD SCREW	2.6x3	バインド小ネジ	7-621-775-00		
29	JX600540	MOTOR ASS'Y		モーターASSY	X-2641-336-1		
30	LX603460	MOTOR CIRCUIT BOARD		モーター基板	1-624-793-21		
31	CX610860	TRAY HOLDER (F)		トレーホルダー	2-642-161-01		
32	EI020046	BIND HEAD TAPPING SCREW	2x4	バインドタッピングネジ	7-685-781-01		
33	CX610870	TRAY HOLDER (R)		トレーホルダー	2-642-162-01		
34	CX610880	TRAY GUIDE R		トレーガイド	2-642-146-01		
35	CX610890	TRAY GUIDE L		トレーガイド	2-642-147-01		
36	EI330106	BIND HEAD TAPPING SCREW	3x10	バインドタッピングネジ	7-685-547-19		
37	AX607420	BOSS		ボス	2-642-510-01		
38	AX607430	BOSS		ボス	2-642-512-01		
39	AX607440	BOSS		ボス	2-642-511-01		
40	AX607450	LINK PLATE		リンクプレート	2-642-173-01		
41	CX610900	BOSS		ボス	2-642-133-02		
42	NX605730	STOPPER LINK ASS'Y		ストッパーリンクASSY	X-2642-109-1		
43	CX610910	SPACER		スペーサ	2-642-172-01		
44	EK035060	BW HEAD TAPPING SCREW	2.6x8 ZMC2-Y	BWヘッドタッピングネジ	7-682-902-32		
45	LX601830	CONNECTER PIN	5P	コネクタピン	1-564-721-11		
46	CX610920	DAMPER		ダンパー	2-642-125-01		
47	NX605750	MAIN CHASSIS ASS'Y		メインシャーシASSY	X-2642-106-1		
48	NX605740	SUB CHASSIS ASS'Y		サブシャーシASSY	X-2642-105-1		
49	CX610930	FRONT TAPE		フロントテープ	2-642-157-03		

EXPLODED VIEW (KSM-150AFM)



Ref. NO.	PART NO.	Description		部品名	Remarks	Markets	備考
01	BX601580	SLIDE SHAFT		スライド軸	4-910-431-01		
02	PX600430	LASER PICK UP	KSS-150A	レーザーピックアップ	8-848-046-51		
03	AX607540	SPECIAL SCREW	2x5	特殊タッピングネジ	2-641-386-01		
04	CX610940	SLIDE HOLDER		スライドホルダー	2-641-443-02		
05	EA020056	PAN HEAD SCREW	2x5 ZMC2-Y	ナベ小ネジ	7-621-255-35		
06	CX610950	GEAR COVER		ギアカバー	2-641-434-01		
07	JX600550	SLED MOTOR ASS'Y		スレッドモータASSY	X-2641-358-1		
08	AX607550	SPECIAL SCREW	1.7x3	特殊頭ネジ	3-303-809-31		
09	CX610960	GEAR A		歯車A	2-641-404-02		
10	CX610970	GEAR B		歯車B	2-641-403-05		
11	AX607560	SPECIAL SCREW	2.6x8	特殊ネジ	2-641-447-01		
12	CX610980	SHAFT CLAMP		シャフトクランプ	2-641-448-02		
13	JX600560	SPINDLE MOTOR ASS'Y		スピンドルモータASSY	X-2641-356-1		
14	KX602370	LEAF SWITCH		リーフスイッチ	1-572-053-11		
15	LX603470	MOTOR CIRCUIT BOARD		モータ基板	1-628-263-11		
16	LX603480	CONNECTOR PIN	4P	コネクタピン	1-564-720-11		
17	AX607460	STOPPER		ストッパー	2-641-371-01		

※New Parts (新規部品)

ランク : Japan only

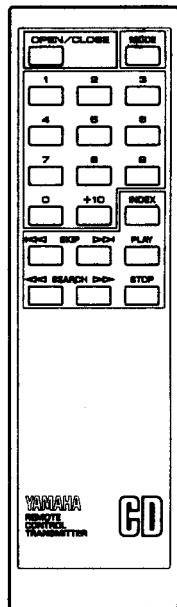
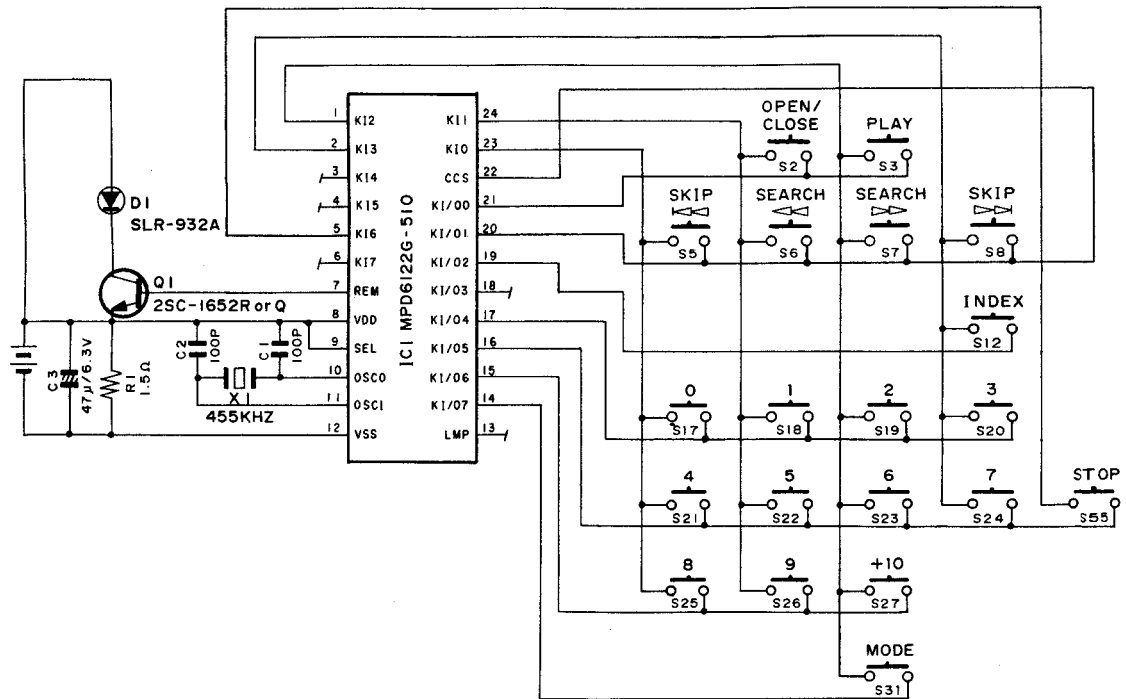
CDX-530/530E



CDX-530/530E

# CDX-530 REMOTE CONTROL TRANSMITTER

## ■ SCHEMATIC DIAGRAM



**CUSTOM CODE** C0 C1 C2 C3 C4 C5 C6 C7  
1 0 0 1 1 1 1 0

KEY No.	DATA CODE								FUNCTION
	D0	D1	D2	D3	D4	D5	D6	D7	
2	1	0	0	0	0	0	0	0	OPEN/CLOSE
3	0	1	0	0	0	0	0	0	PLAY
5	0	0	1	0	0	0	0	0	SKIP <<>
6	1	0	1	0	0	0	0	0	SEARCH <<>
7	0	1	1	0	0	0	0	0	SEARCH >>>
8	1	1	1	0	0	0	0	0	SKIP >>>
12	1	1	0	1	0	0	0	0	INDEX
17	0	0	0	0	1	0	0	0	0
18	1	0	0	0	1	0	0	0	1
19	0	1	0	0	1	0	0	0	2
20	1	1	0	0	1	0	0	0	3
21	0	0	1	0	1	0	0	0	4
22	1	0	1	0	1	0	0	0	5
23	0	1	1	0	1	0	0	0	6
24	1	1	1	0	1	0	0	0	7
25	0	0	0	1	1	0	0	0	8
26	1	0	0	1	1	0	0	0	9
27	0	1	0	1	1	0	0	0	+10
31	0	1	1	1	1	0	0	0	MODE
55	0	1	1	0	1	0	1	0	STOP

Ref. NO.	PART NO.	Description	部品名	Remarks	Markings	備考
*	V1105700	REMOTE CONTROL TRANSMITTER	トランスミッター			
*	CX813100	LID	電池蓋			

\*New Parts (新規部品)

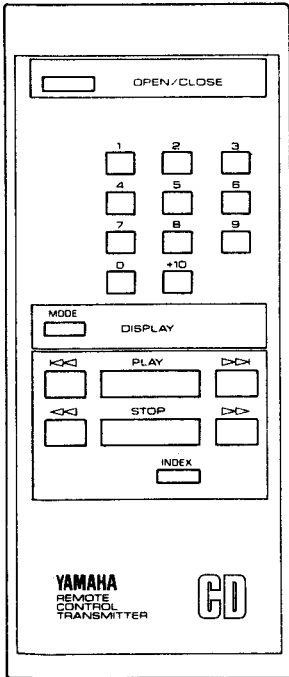
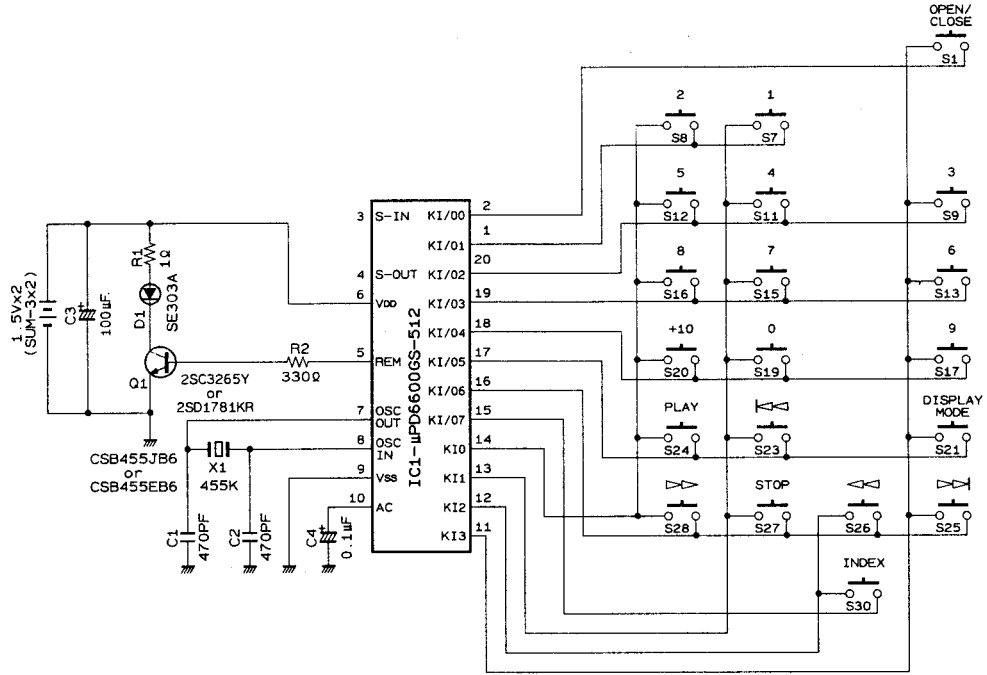
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CDX-530/530E

CDX-530/530E

# CDX-530E REMOTE CONTROL TRANSMITTER

## SCHEMATIC DIAGRAM



CUSTOM CODE 79H

KEY No.	FUNCTION	HEX CODE	KEY No.	FUNCTION	HEX CODE
1	OPEN / CLOSE	01	19	0	10
7	1	11	20	+10	1A
8	2	12	21	DISPLAY MODE	1E
9	3	13	23	▶▶	04
11	4	14	24	PLAY	02
12	5	15	25	▶▶▶	07
13	6	16	26	▶▶▶▶	05
15	7	17	27	STOP	56
16	8	18	28	▶▶▶▶▶	06
17	9	19	30	INDEX	0B

## Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF853100	12 KΩ	HJ35 7120	HF85 7120
1.8 Ω	HJ35 3180	*	15 KΩ	HJ35 7150	HF85 7150
2.2 Ω	HJ35 3220	HF853220	18 KΩ	HJ35 7180	HF85 7180
3.3 Ω	HJ35 3330	HF853330	22 KΩ	HJ35 7220	HF85 7220
4.7 Ω	HJ35 3470	HF853470	27 KΩ	HJ35 7270	HF85 7270
5.6 Ω	HJ35 3560	HF853560	33 KΩ	HJ35 7330	HF85 7330
10 Ω	HJ35 4100	HF854100	39 KΩ	HJ35 7390	HF85 7390
15 Ω	HJ35 4150	HF854150	47 KΩ	HJ35 7470	HF85 7470
22 Ω	HJ35 4220	HF854220	56 KΩ	HJ35 7560	HF85 7560
27 Ω	HJ35 4270	HF854270	68 KΩ	HJ35 7680	HF85 7680
33 Ω	HJ35 4330	HF854330	82 KΩ	HJ35 7820	HF85 7820
39 Ω	HJ35 4390	HF854390	91 KΩ	HJ35 7910	HF85 7910
47 Ω	HJ35 4470	HF854470	100 KΩ	HJ35 8100	HF85 8100
56 Ω	HJ35 4560	HF854560	120 KΩ	HJ35 8120	HF85 8120
68 Ω	HJ35 4680	HF854680	150 KΩ	HJ35 8150	HF85 8150
82 Ω	HJ35 4820	HF854820	180 KΩ	HJ35 8180	HF85 8180
100 Ω	HJ35 5100	HF855100	220 KΩ	HJ35 8220	HF85 8220
110 Ω	HJ35 5110	HF855110	270 KΩ	HJ35 8270	HF85 8270
120 Ω	HJ35 5120	HF855120	330 KΩ	HJ35 8330	HF85 8330
150 Ω	HJ35 5150	HF855150	390 KΩ	HJ35 8390	HF85 8390
160 Ω	HJ35 5160	*	470 KΩ	HJ35 8470	HF85 8470
180 Ω	HJ35 5180	HF855180	560 KΩ	HJ35 8560	HF85 8560
220 Ω	HJ35 5220	HF855220	680 KΩ	HJ35 8680	HF85 8680
270 Ω	HJ35 5270	HF855270	820 KΩ	HJ35 8820	HF85 8820
330 Ω	HJ35 5330	HF855330	1.0 MΩ	HJ35 9100	HF85 9100
390 Ω	HJ35 5390	HF855390	1.2 MΩ	HJ35 9120	*
470 Ω	HJ35 5470	HF855470	1.5 MΩ	HJ35 9150	HF85 9150
510 Ω	*	HF855510	1.8 MΩ	HJ35 9180	HF85 9180
560 Ω	HJ35 5560	HF855560	2.2 MΩ	HJ35 9220	HF85 9220
680 Ω	HJ35 5680	HF855680	3.3 MΩ	HJ35 9330	HF85 9330
820 Ω	HJ35 5820	HF855820	3.9 MΩ	HJ35 9390	*
910 Ω	HJ35 5910	HF855910	4.7 MΩ	HJ35 9470	HF85 9470
1.0 KΩ	HJ35 6100	HF856100			
1.2 KΩ	HJ35 6120	HF856120			
1.5 KΩ	HJ35 6150	HF856150			
1.8 KΩ	HJ35 6180	HF856180			
2.0 KΩ	HJ35 6200	HF856200			
2.2 KΩ	HJ35 6220	HF856220			
2.4 KΩ	HJ35 6240	HF856240			
2.7 KΩ	HJ35 6270	HF856270			
3.0 KΩ	HJ35 6300	HF856300			
3.3 KΩ	HJ35 6330	HF856330			
3.6 KΩ	HJ35 6360	HF856360			
3.9 KΩ	HJ35 6390	HF856390			
4.7 KΩ	HJ35 6470	HF856470			
5.1 KΩ	HJ35 6510	HF856510			
5.6 KΩ	HJ35 6560	HF856560			
6.8 KΩ	HJ35 6680	HF856680			
8.2 KΩ	HJ35 6820	HF856820			
9.1 KΩ	HJ35 6910	HF856910			
10 KΩ	HJ35 7100	HF857100			

**1/4W Type**

HJ35 ○○○○

10mm

**1/6W Type**

HF85 ○○○○

5mm

# CDX-530/530E

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# YAMAHA

CDX-530/530E

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