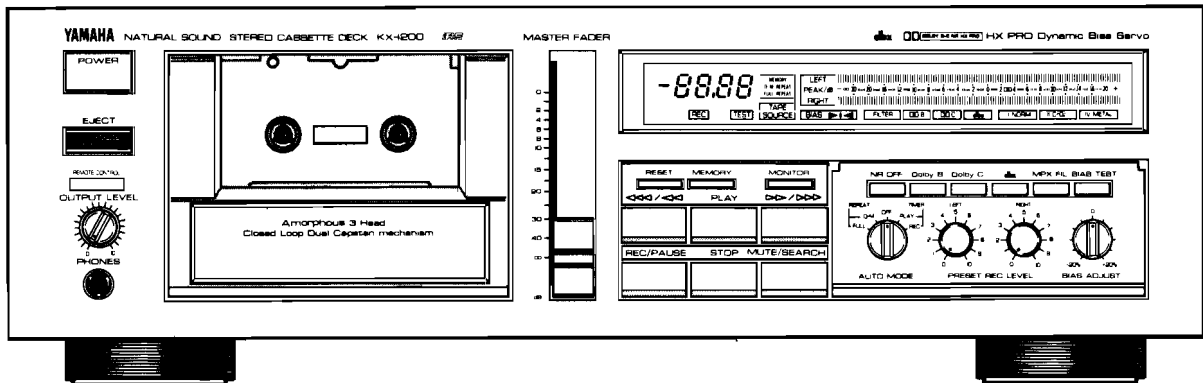
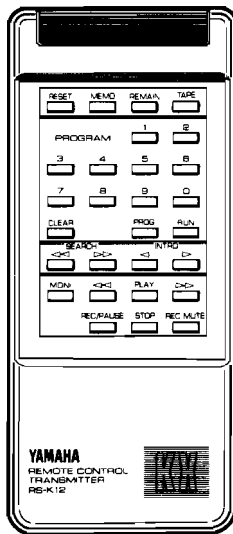


# STEREO CASSETTE DECK KX-1200

## SERVICE MANUAL



### ● RS-K12



### 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.

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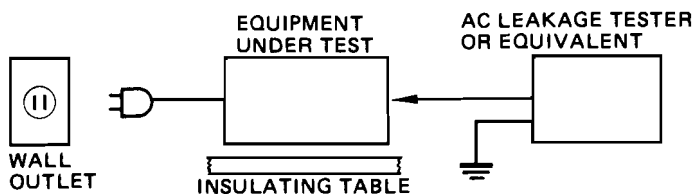
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## TO SERVICE PERSONNEL

- Critical Components Information.**  
Components having special characteristics are marked  $\Delta$  and must be replaced with parts having specifications equal to those originally installed.
- 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  $0.15\mu\text{F}$ .
  - Leakage current must not exceed 0.5mA.
  - Be sure to test for leakage with the AC plug in both polarities.

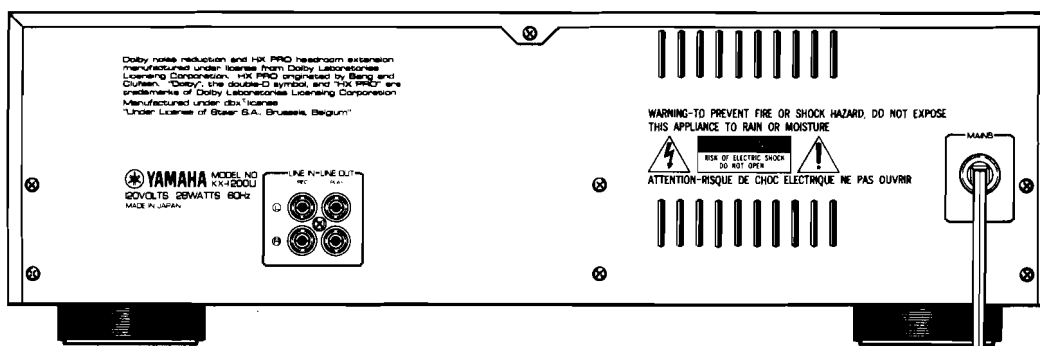


### POLARIZATION

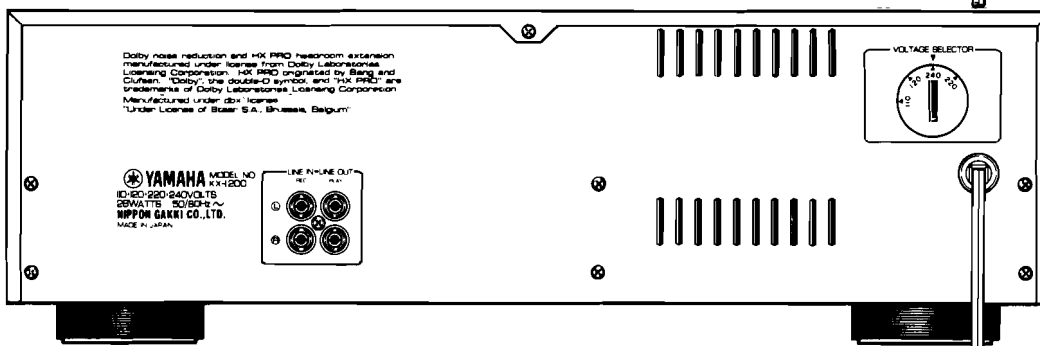
This tuner product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

## REAR PANELS

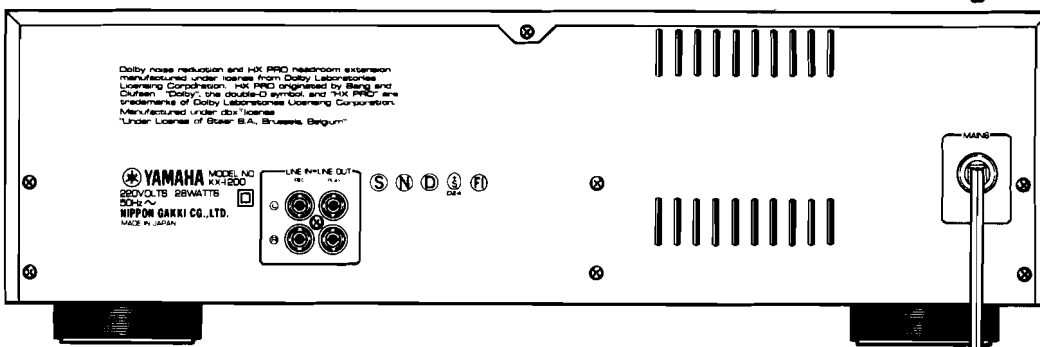
### U, C models



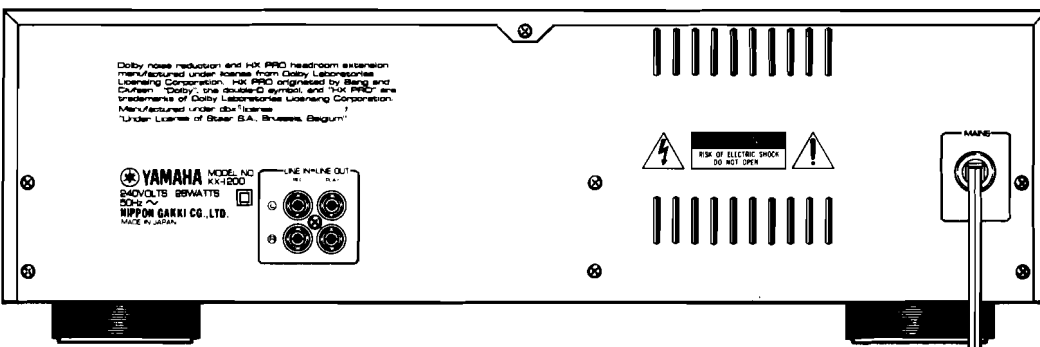
### R model



### G model

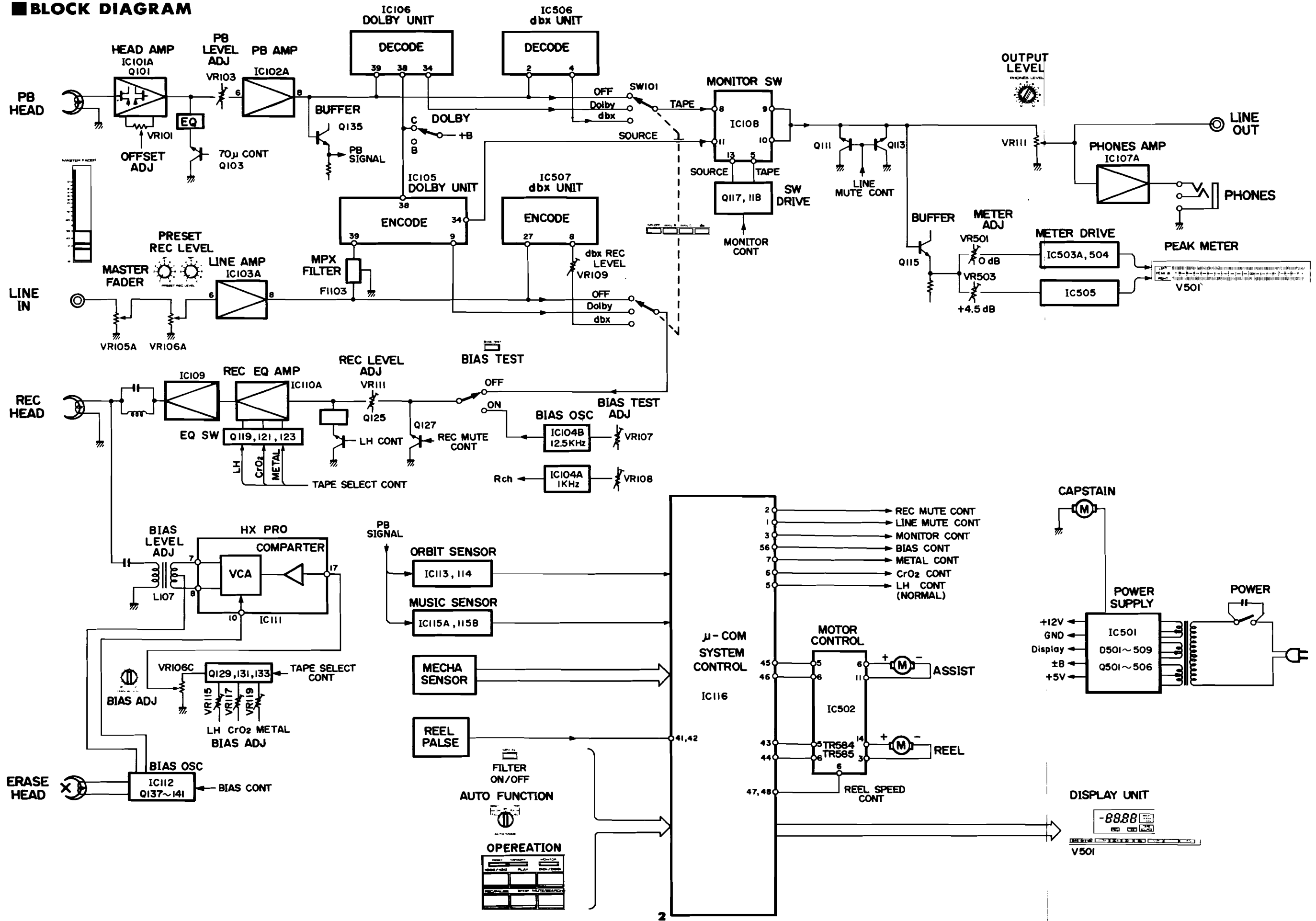


### A, B models



KX-1200

**BLOCK DIAGRAM**

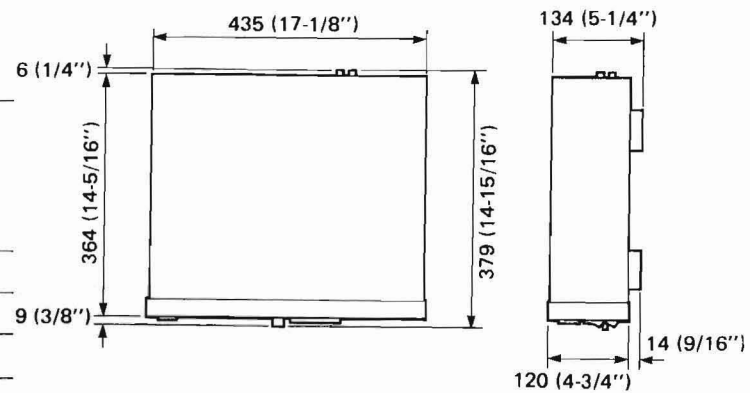


## SPECIFICATIONS

<b>Type</b>	4-track 2-channel recording and play-back stereo cassette tape deck
<b>Heads</b>	
REC/PLAYBACK	Combination, Amorphous with 12-laminated core
ERASE	Double Gap Ferrite
<b>Motors</b>	
Capstan	DC servo motor
Reel	DC flat torque motor
Assist	DC motor
<b>Wow &amp; Flutter</b>	
No more than	±0.06% W. Peak 0.03% W. RMS
<b>Fast Winding Time (C60)</b>	
Normal mode	About 70 seconds
Fast mode	About 45 seconds
<b>Frequency Response</b>	
Normal	20 to 20,000 Hz ± 3dB
Chrome	20 to 22,000 Hz ± 3dB
Metal	20 to 24,000 Hz ± 3dB
<b>S/N Ratio (3rd harmonic distortion: weighted)</b>	
NR OFF	61dB
DOLBY B NR	69dB
DOLBY C NR	77dB
dbx	95dB
<b>Harmonic Distortion</b>	No more than 0.5%
<b>Channel Separation</b>	More than 40dB
<b>Crosstalk</b>	More than 55dB

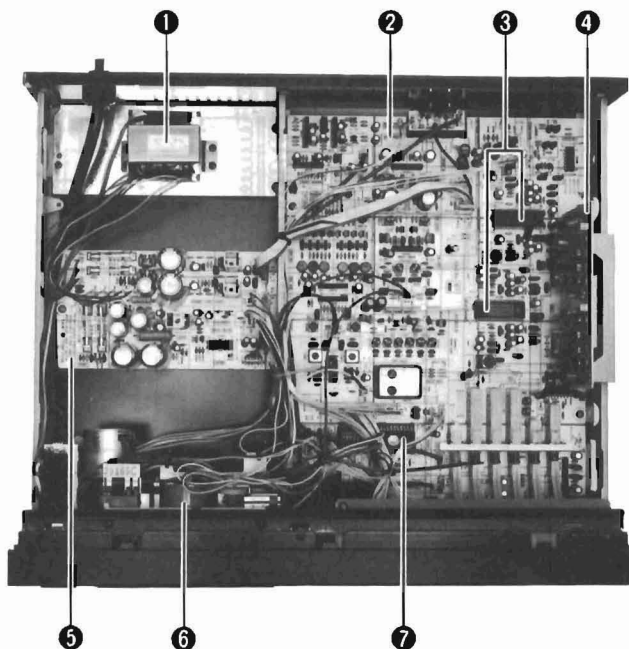
<b>Input Sensitivity/Impedance</b>	
Line	40mV/30kΩ
<b>Output Level/Load Impedance</b>	
Line	360mV/1.2kΩ
Headphones	3.6mW/8Ω
<b>Power Requirement</b>	
U, C	120V AC. 60Hz
R	110, 120, 220, 240V AC. 50/60Hz
G	220V AC. 50Hz
A, B	240V AC. 50Hz
<b>Power Consumption</b>	28W
<b>Dimensions (W x H x D)</b>	435 x 134 x 379 mm (17-1/8" x 5-1/4" x 14-15/16")
<b>Weight</b>	7.9 kg (17 lbs. 6 oz)

### DIMENSIONS



[Unit : mm (inch)]

## INTERNAL VIEW



- ① POWER TRANSFORMER
- ② MAIN CIRCUIT BOARD (1)
- ③ DOLBY IC: CX20188
- ④ SUB CIRCUIT BOARD (3)
- ⑤ SUB CIRCUIT BOARD (1)
- ⑥ CASSETTE MECHANISM UNIT
- ⑦ 4 bit  $\mu$ -COM: LC6554H-3362

# DISASSEMBLY PROCEDURES

## 1. Removal of top Cover

Remove 5 screws ( ① ) in fig. 1.

## 2. Removal of bottom cover

Remove 8 screw ( ② ) in fig. 1.

## 3. Removal of front panel

a. Pull off 5 knobs in fig. 1.

b. Disconnect connectors #12 and #13 in fig. 3.

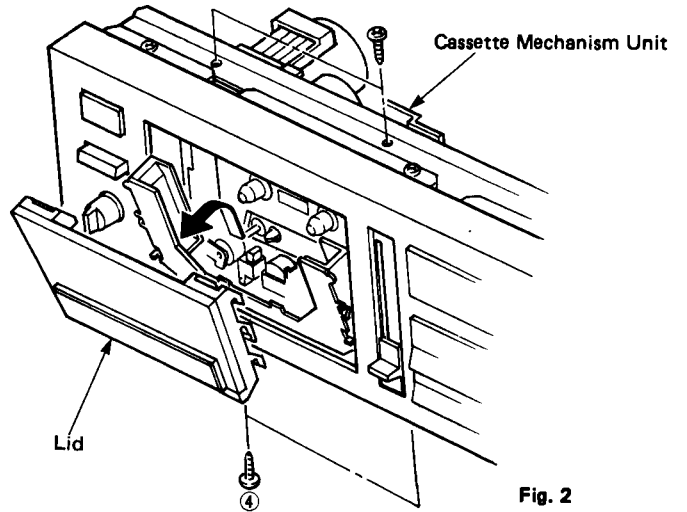
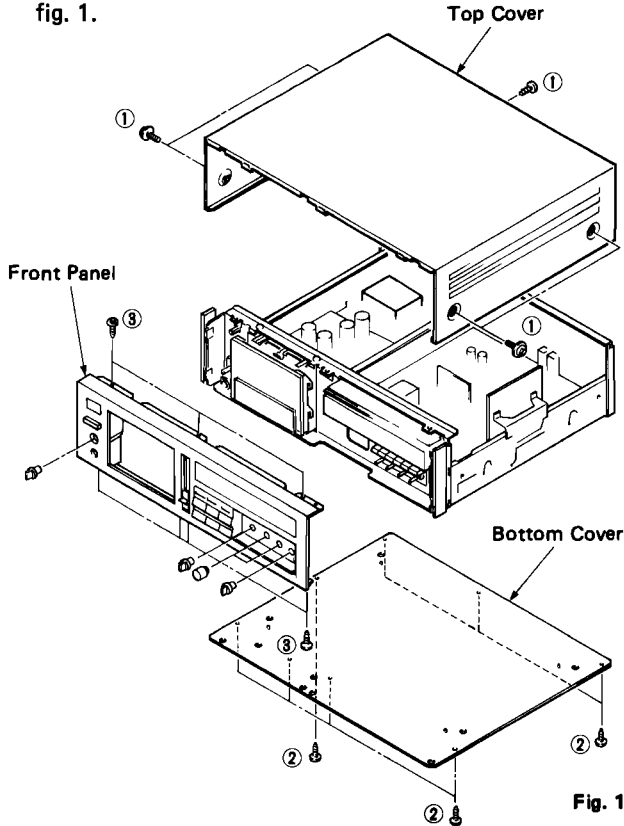
c. Remove 7 screws ( ③ ) then pull off front panel in fig. 1.

## 4. Removal of cassette mechanism unit

a. Remove lid in fig. 2.

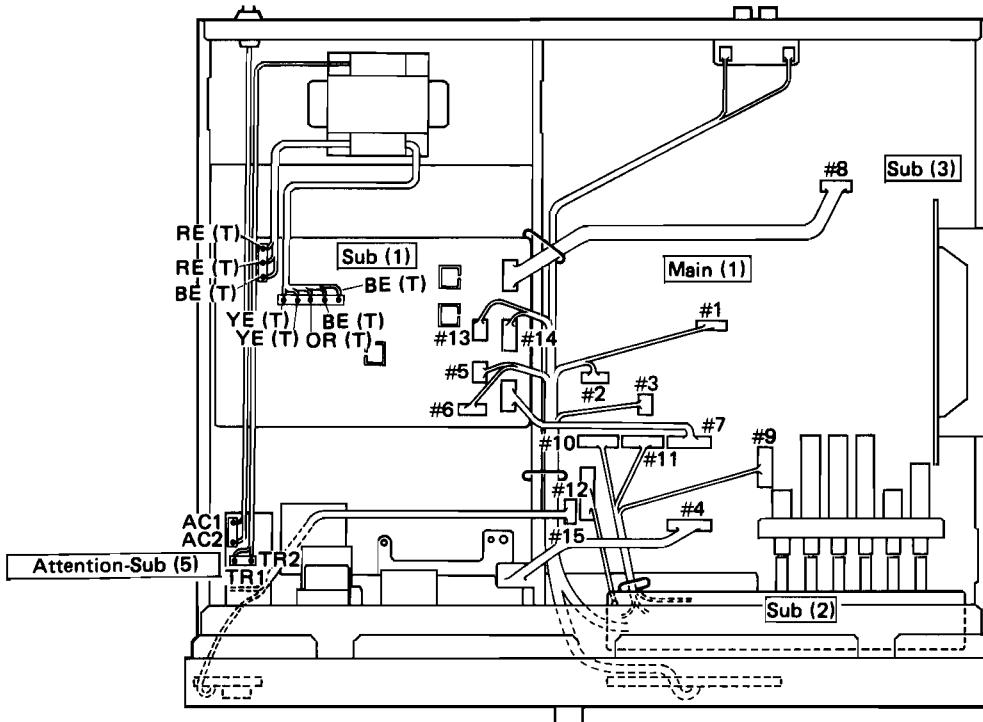
b. Disconnect connectors #1 through #6 in fig. 3.

c. Remove 4 screws ( ④ ) in fig. 2, then slide off cassette mechanism unit backward gently.



## CONNECTOR WIRING

**Note:** Connect the connectors correctly referring to fig. 3 to prevent malfunction.



5. Replacement of cassette mechanism parts
  - a. Remove 2 screws ( ⑤ ) in fig. 4, then remove the front plate.
  - b. Remove 2 screws ( ⑥ ) in fig. 4, then remove the blind plate.

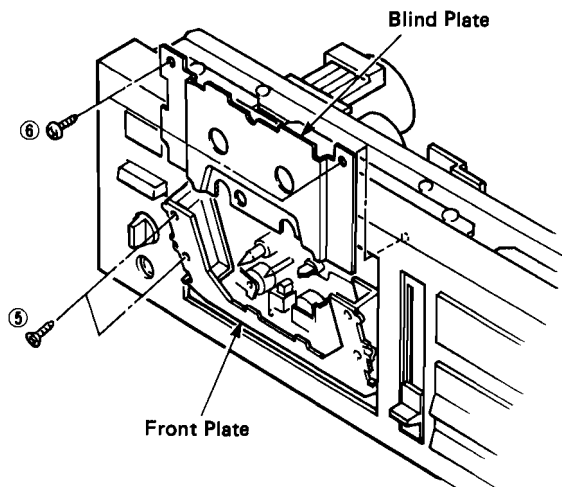


Fig. 4

- c. Remove 2 screws ( ⑦ ) in fig. 6, then replace the REC/PB head.
- d. Remove the screw ( ⑧ ) in fig. 6, then replace the ERASE head.
- e. Remove the E ring ( ⑨ ) in fig. 6, then replace the supply side pinch roller.
- f. Remove the E ring ( ⑩ ) in fig. 6, then replace the take-up side pinch roller.
- g. Remove the washer ( ⑪ ) in fig. 6, then replace the idler.

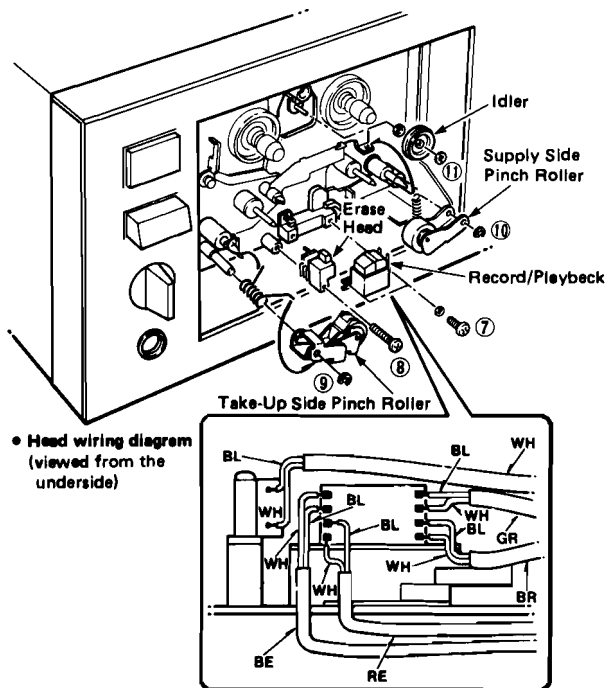


Fig. 6

● WIRING OF MECHANISM UNIT

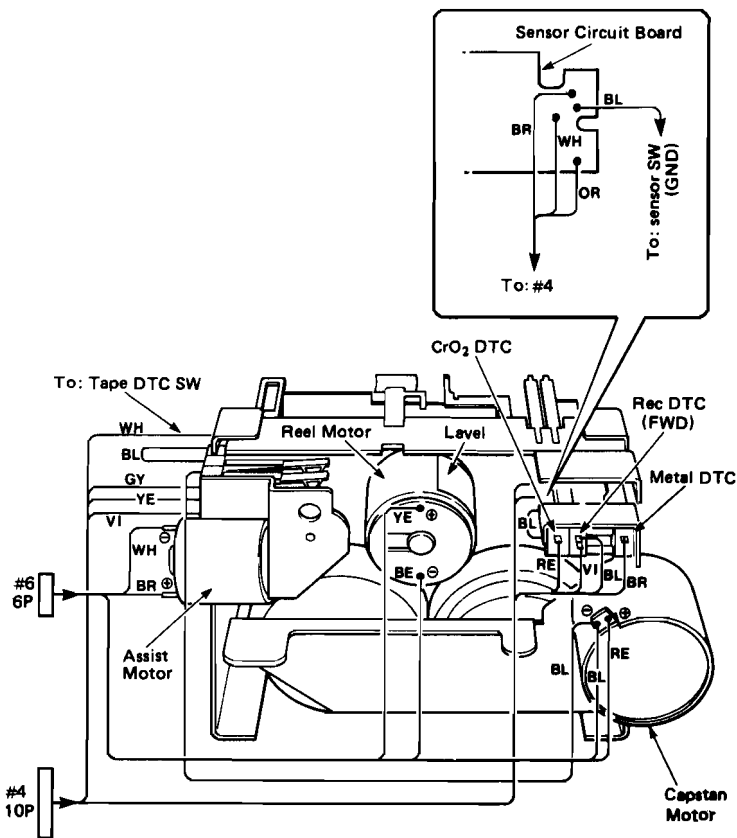


Fig. 5

6. Replacement of capstan motor
  - a. Remove 4 screws ( ⑫ ) in fig. 7, then remove the back plate.

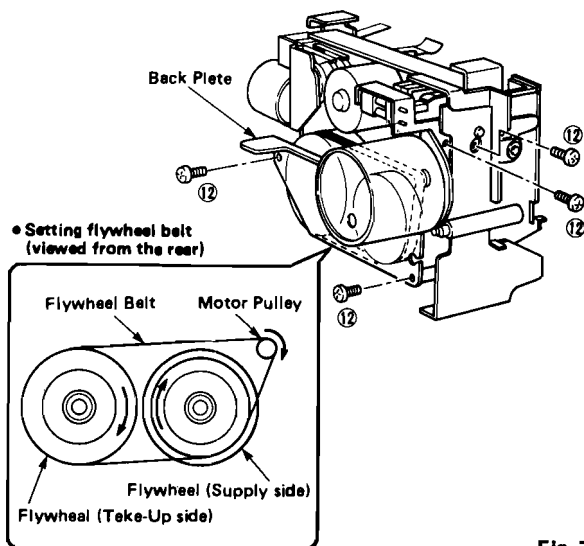


Fig. 7

- b. Remove 3 screws (13) in fig. 8, then replace the capstan motor.

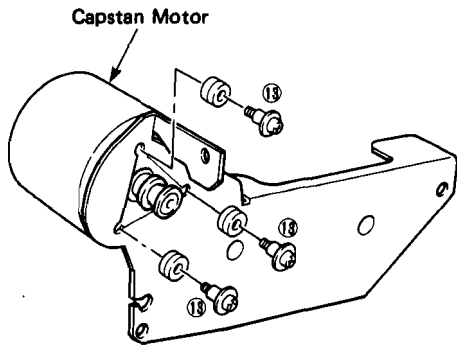


Fig. 8

**7. Replacement of reel motor**

- a. Remove the washer (14), then remove the reel base as shown in fig. 9.

\*Note that coil springs of the supply reel and takeup reel are different.

Supply side: Silver  
Take-up side: Green

- b. Remove the back plate (Refer to Fig. 6.)
- c. Remove the washer (15) in Fig. 9 and remove the flywheel (take-up side).

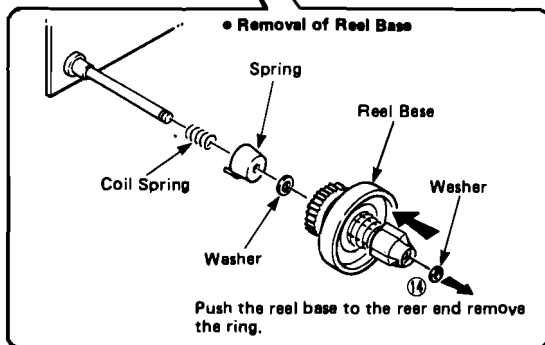
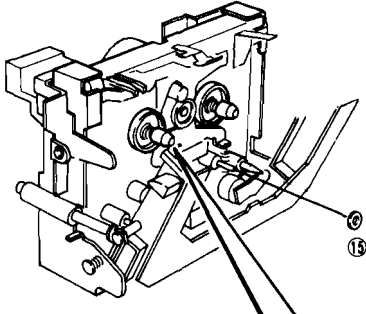


Fig. 9

- d. Remove 2 screws and nut (16) in Fig. 10 and remove the reel motor installation plate.
- e. Remove 2 screws (17) in Fig. 10 and replace the reel motor.

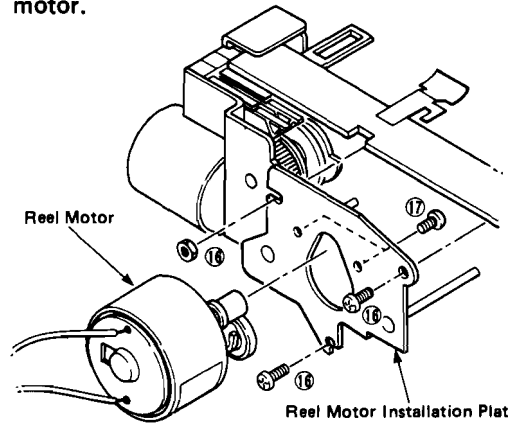


Fig. 10

**8. Replacement of assist motor**

- a. Remove 2 screws (18) in Fig. 11 and remove the assist motor installation plate.
- b. Remove 2 screws (19) in Fig. 11 and replace the assist motor.

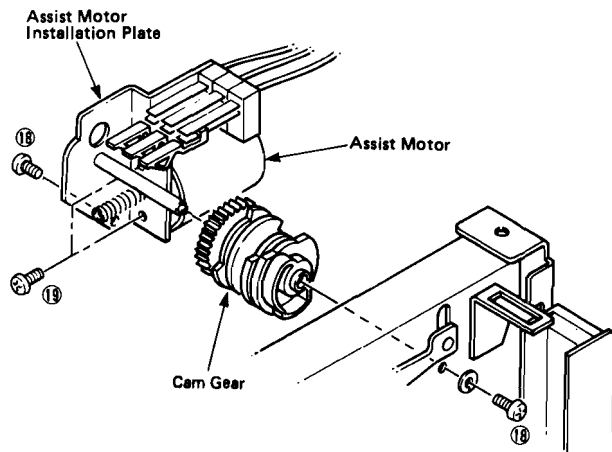


Fig. 11

**ADJUSTMENTS**

**1. Before adjustment:**

- Make sure that AC line voltage comes within

Models	AC line voltage
U, C	120V ± 10%
G	220V ± 10%
A, B	240V ± 10%

- Since head magnetization, dust accumulations, etc. are likely to introduce error in the various characteristics, it is very important that the heads are properly demagnetized and cleaned.

**2. Instruments required**

- Audio frequency oscillator (AF OSC)
- ACVM or dual channel (ACVM)
- Wow/flutter meter
- Oscilloscope
- DCVM
- Torque meter
  - TW-2111 (TX911580)
  - CT180L (TX911120)
  - TW-2412 (TX911640)
- Mirror Cassette
  - MC-109C (TX911430)
- HEAD GAUGE
  - A-BEX THG-801 (TX911420) or M-300.

**3. Test tape required**

- MTT-111N (TX911650)
- MTT-114N (TX911680)
- MTT-212CN (TX911670)
- MTT-212N (TX911660)
- MTT256 (TX911300)
- MTT356 (TX911310)

● Reference tape

- Normal (LH): YAMAHA MU-R60 or TDK AC223 (TX911600)
- CrO<sub>2</sub>: TDK SA-60 or TDK AC513 (TX911750)
- METAL: YAMAHA ME-R60 or TDK AC712 (TX911590)

**"MECHANICAL ADJUSTMENT"**

Step	Adjustment item	Tape	Test Point	Instrument required	Mode	Measurement Conditions	Adjustment Parts	Rating	Remarks
1	Check clearance between take-up side pinch roller and capstan shaft.				PAUSE		Fig. A	More than 0.5mm	
2	Pinch Roller Timing				STOP	With head base pushed up, check timing at which pinch rollers on supply side and take-up side contact capstan.	Fig. B	Take-up side pinch roller should start rotating first.	If timing of both sides is simultaneous or supply side precedes, adjustment is required.
3	Height of record/playback head and tape guide		Fig. D	Headgauge (M-300) (THG-801)			Height adjusting screw of record/playback head tape guide (Fig. C)	Head gauge should pass through smoothly without its block contacting record/playback head guide.	
4	Record/playback head tilt angle			Headgauge (M-300) (THG-801)		With M-300 block placed vertically on record/playback head, adjust so that M-300 gauge and block becomes parallel (Fig. F)	Tilt angle adjusting screw (Fig. C)	M-300 gauge and block should be parallel.	Place M-300 block vertically on head leaving space between M-300 block and gauge.
5	Supply side pinch roller height		Fig. E	Headgauge (M-300) (THG-801)			Supply side pinch roller height adjusting screw (Fig. C)	Head gauge should pass through smoothly without its block contacting pinch roller guide. (Fig. E)	
6	Azimuth	10kHz, -10dB (MTT-114)	LINE OUT	A.C.V.M. Oscilloscope	PB		Azimuth adjusting screw (Fig. C)	Playback output of L and R is maximum and phase difference should be minimum. (Phase difference less than 60°)	Repeat adjustments in steps 3 to 6 and apply screw lock paint upon completion of adjustments.
7	Check position of erase head and tape movement.			Mirror cassette (MC-109C)	PB			Tape should move in the center of erase head smoothly. Capstan (supply side) should move smoothly. (Fig. G)	Adjust by using spacer as shown in Fig. H.
8	Check each torque.			Torque meter (Cassette type)		Measure FF, REW torque, take up torque and back tension torque.	Back tension: Adjust leaf spring (5 steps) (Fig. I)	Take-up torque 35 ~ 55g/cm FF, REW torque more than 70g/cm Back tension: 5 ~ 10g/cm	To obtain take-up torque, read the center of deflection.
9	Check FF and REW take up times	AC-513, 712,223 C-60						Normal: Less than 85 seconds High speed: Less than 55 seconds	
10	Tape speed	3kHz, -10dB (MTT-111)	LINE OUT	Wow/flutter meter Frequency counter	PB	Check speed while playing back 3kHz test tape.	Semi fixed variable resistor at the back of the Capstan Motor. (Fig. J)	3000 ± 5 Hz -15	
	Wow/Flutter							Less than 0.05% (WRMS)	Check wow/flutter while confirming approximately 3kHz frequency with wow/flutter meter counter.



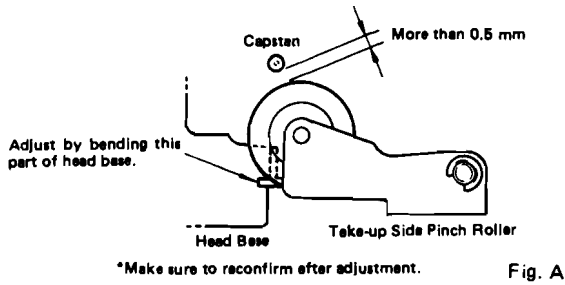


Fig. A

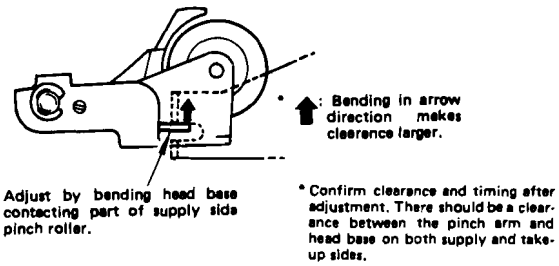


Fig. B

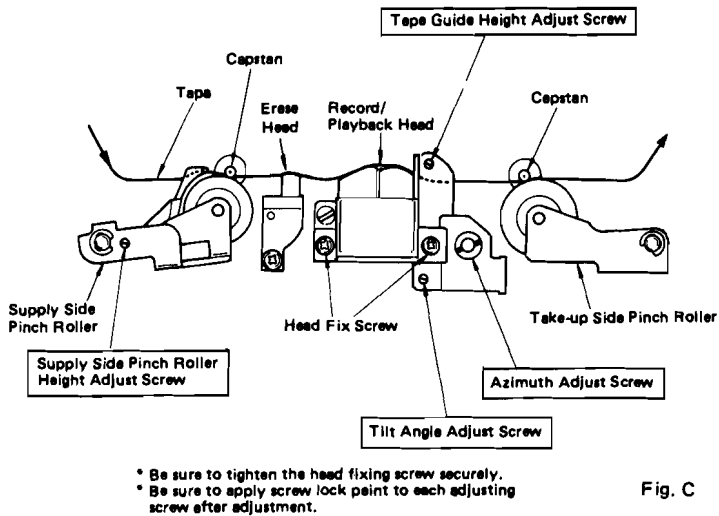


Fig. C

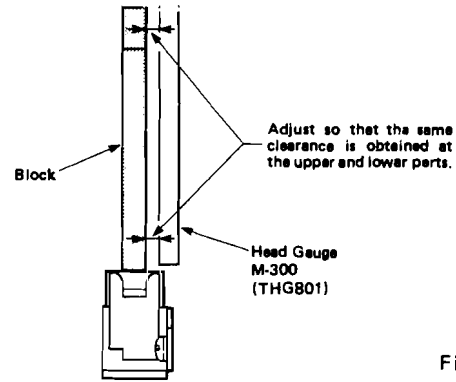


Fig. D

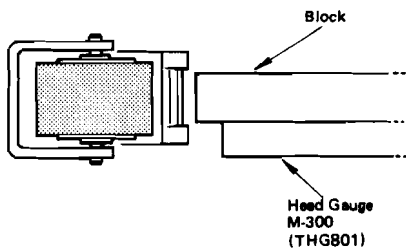


Fig. E

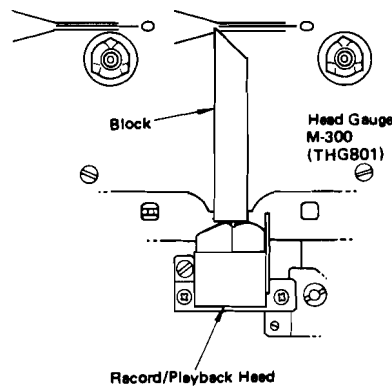


Fig. F

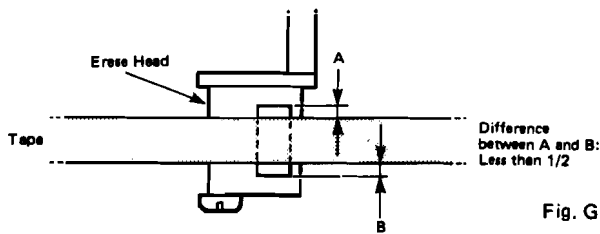


Fig. G

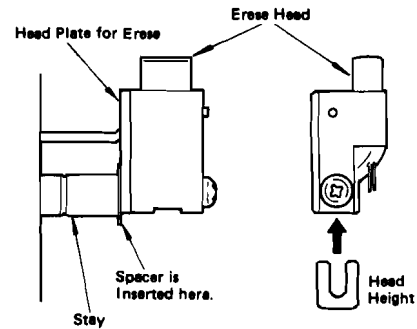


Fig. H

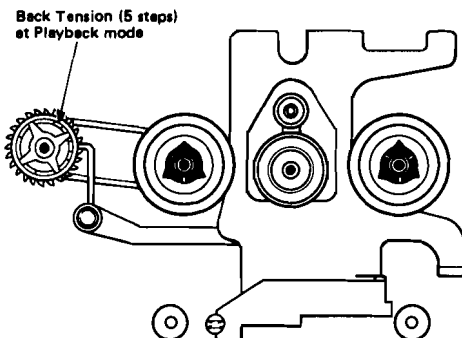


Fig. I

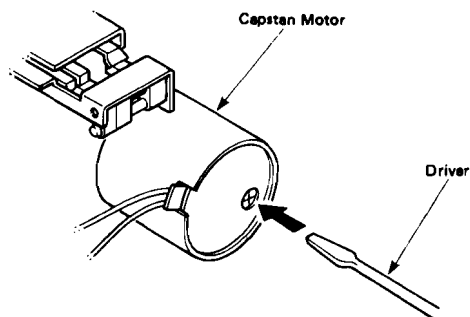


Fig. J

**“ELECTRICAL ADJUSTMENTS”**

**<PLAYBACK ADJUSTMENTS>**

\* Use 360mV (−9dBV) for 0dB as the standard level of this unit.

- Proceed with the playback adjustments after having finished the mechanical adjustments.

Step	Adjustment item	Tape	Point of Measurement	Instrument required	Mode	Adjustment Part	Rating
1	EQ Amp. DC. Offset		TP1 (L) ~ E TP2 (R) ~ E	D.C.V.M.	STOP	VR101 (L) VR102 (R)	0 ± 2V D.C.
2	Playback level	MTT-212C (315Hz 160nwb/m)	LINE OUT	A.C.V.M. (AC Volt/dB Meter)	PB	VR103 (L) VR104 (R)	360 ± 25mV (−9.0 ± 1 dBV)
3	Playback frequency response confirmation	MTT-356U (3180 + 70μs) MTT-256U (3180 + 120μs)	LINE OUT	A.C.V.M.	PB		Frequency response should be within speci- fication in Fig. K.
4	dbx Timing		TP501 ~ TP502 TP503 ~ TP504	D.C.V.M.	STOP	VR505 VR506	16.4 ± 0.5mV D.C.

• **PLAYBACK FREQUENCY RESPONSE**

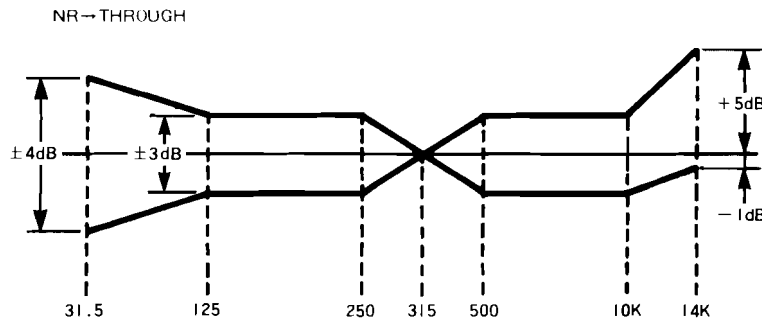


Fig. K

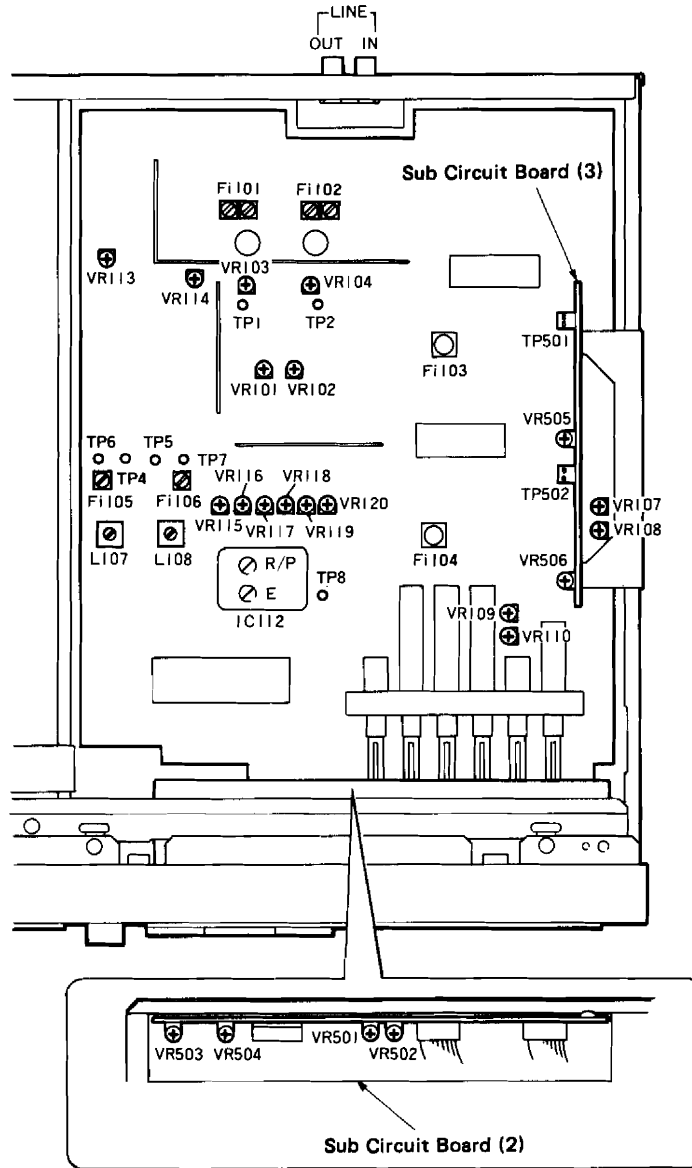
• **RECORDING ADJUSTMENT**

- Proceed with the recording adjustments after having finished the playback adjustments.

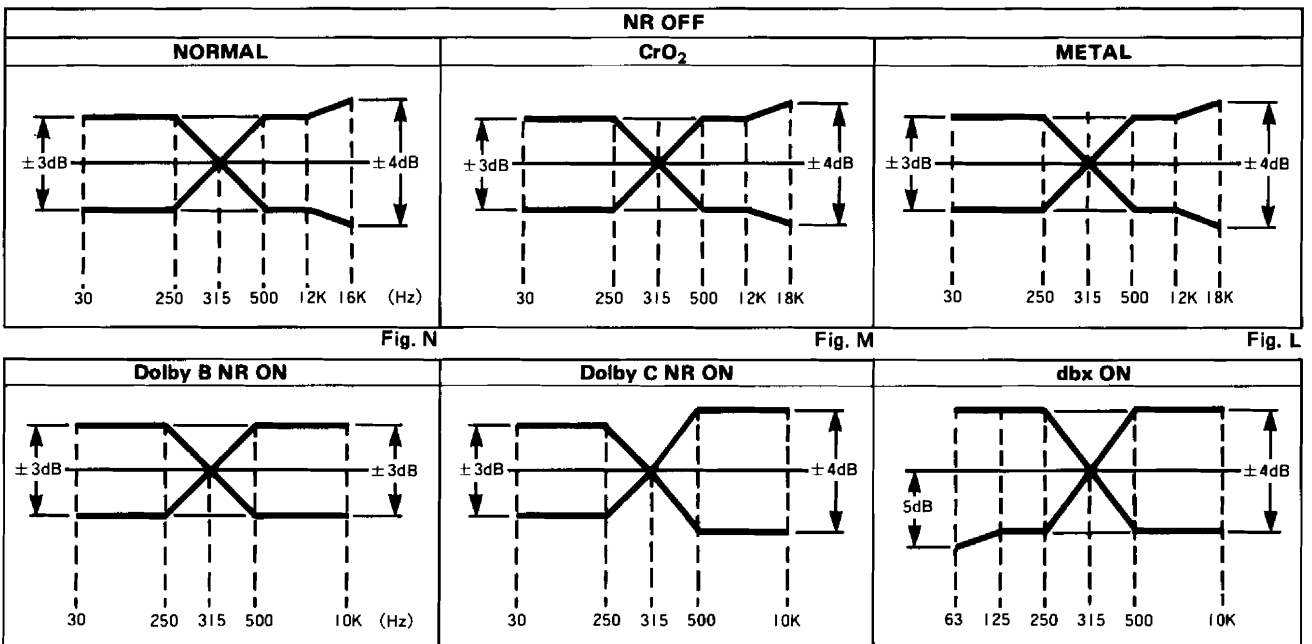
Step	Adjustment item	Tape	Test Point	Instrument required	Mode	Measurement Conditions	Adjustment Parts	Rating	Remarks
1	Peak Level Meter (+4.5dB)		LINE OUT	A.C.V.M.	SOURCE	Apply a 1kHz sine wave signal from LINE IN so that LINE OUT voltage is 600mV (−4.5dBV).	VR503 (L) VR504 (R)	+4dB segment (red) should light.	
	Peak Level Meter (0dB)		LINE IN	Audio frequency oscillator		Apply a 1kHz sine wave signal from LINE IN so that LINE OUT voltage is 360mV (−9dBV).	VR501 (L) VR502 (R)	0dB segment (red) should light.	When MASTER FADER is decreased L and R segments around 0dB should fade out almost simultaneously.
2	BIAS Oscillation level	METAL	TP5 TP6	A.C.V.M.	REC	BIAS ADJUST → Maximum (VR106) Set VR119 and 120 all the way to the left.	L107 L108 IC112 R/P	Adjust so that oscillation output is maximum.	
3	BIAS Leak	METAL	LINE OUT	A.C.V.M.	REC TAPE	With no signal applied (REC at minimum), set BIAS ADJUST to maximum and measure bias leak at LINE OUT when recording and monitoring simultaneously (TAPE mode) by using a metal tape.	Fi101 (L) Fi102 (R)	Less than 13mV	Adjust so as to minimize bias leak.
4	BIAS Trap	METAL	TP6(L) TP7(R)	A.C.V.M.	REC		Fi105 (L) Fi106 (R)		Adjust so as to minimize level.

Step	Adjustment Item	Tape	Test Point	Instrument Required	Mode	Measurement Conditions	Adjustment Parts	Rating	Remarks
5	Recording Level (Through)	AC-513 INPUT SIGNAL (1kHz, -20dB)	LINE OUT LINE IN	A.C.V.M. Audio frequency oscillator	REC TAPE NR → OFF	① Set VR115 to 120 as the midpoint. ② Apply a 1kHz sine wave signal from LINE IN so that LINE OUT voltage is 36mV (-29dBV). ③ Record the signal and adjust so that there is no level difference when SOURCE/TAPE is switched.	VR113 (L) VR114 (R)	±0.5dB	The reference tape of this unit is AC-513 (equivalent to TDK-SA). If other tape is used, slight difference in level results.
6	Recording Level (dbx)	AC-513 INPUT SIGNAL (1kHz, -20dB)	LINE OUT LINE IN	A.C.V.M. Audio frequency oscillator	REC TAPE NR → dbx	① Apply a 1kHz sine wave signal from LINE IN so that LINE OUT voltage is 36mV (-29dBV). ② Record the signal and adjust so that there is no level difference when SOURCE/TAPE is switched.	VR109 (L) VR110 (R)	±0.5dB	Each adjustment in step 5 should be completed.
7	Recording BIAS (CrO <sub>2</sub> )	AC-513 INPUT SIGNAL (1kHz, 12kHz, -20dB)	LINE OUT	A.C.V.M.	REC TAPE NR → OFF	① Confirm the 1kHz record/playback level (Step 5). ② Record and playback a 12 kHz (-20dB) signal and adjust so that the same level as the above ① level is obtained.	VR117 (L) VR118 (R)	Frequency response should satisfy Fig. L.	As ORBiT signal is 1kHz and 12kHz, use a 1kHz signal and a 12kHz one when adjusting recording/playback frequency response and confirm that each rating is satisfied. If other frequency is used for adjustment. Bias indicator may indicate an error.
8	Recording BIAS (Normal)	AC-223 INPUT SIGNAL (1kHz, 12kHz, -20dB)	LINE OUT LINE IN	A.C.V.M. Audio frequency oscillator	REC TAPE	① Record and playback a 1kHz (-20dB) signal and read the level. (A slight difference results as record/playback level of this unit is set to AC-513.) ② Apply a 12kHz signal from LINE IN so that LINE OUT voltage is 36mV (-29dBV: voltage 20dB lower than the standard level) ③ Record the signal and adjust so that the same level as the above ① level is obtained.	VR115 (L) VR116 (R)	Frequency response should satisfy Fig. M.	As ORBiT signal is 1kHz and 12kHz, use a 1kHz signal and a 12kHz one when adjusting recording/playback frequency response and confirm that each rating is satisfied. If other frequency is used for adjustment. Bias indicator may indicate an error.
9	Recording BIAS (METAL)	AC-712 INPUT SIGNAL (1kHz, 10kHz, -20dB)	LINE OUT	A.C.V.M.	REC TAPE	① Record and playback a 1kHz (-20dB) signal and read the level. ② Record and playback a 10kHz (-20dB) signal and adjust so that the same level as the above ① level is obtained.	VR119 (L) VR120 (R)	Frequency response should satisfy Fig. N.	
10	BIAS Test (LOW)	AC-712	TP3	A.C.V.M.	BIAS TEST REC BIAS ADJ Center.	Set METAL (AC-712) and perform BIAS TEST.	VR107	20 ± 5mV	Each adjustment in Steps 5 and 7 should be completed. Confirm adjustment is made within ±2 graduation when BIAS TEST is performed with other tape (AC-513, 223).
	BIAS Test (High)		BIAS Indicator				VR108	▶◀ should light.	

• TEST POINT

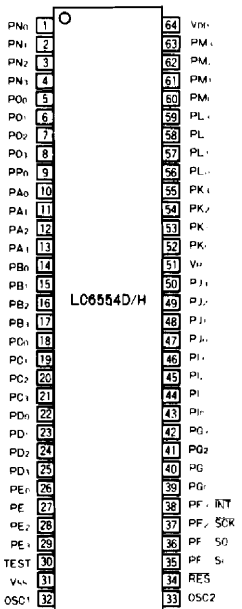
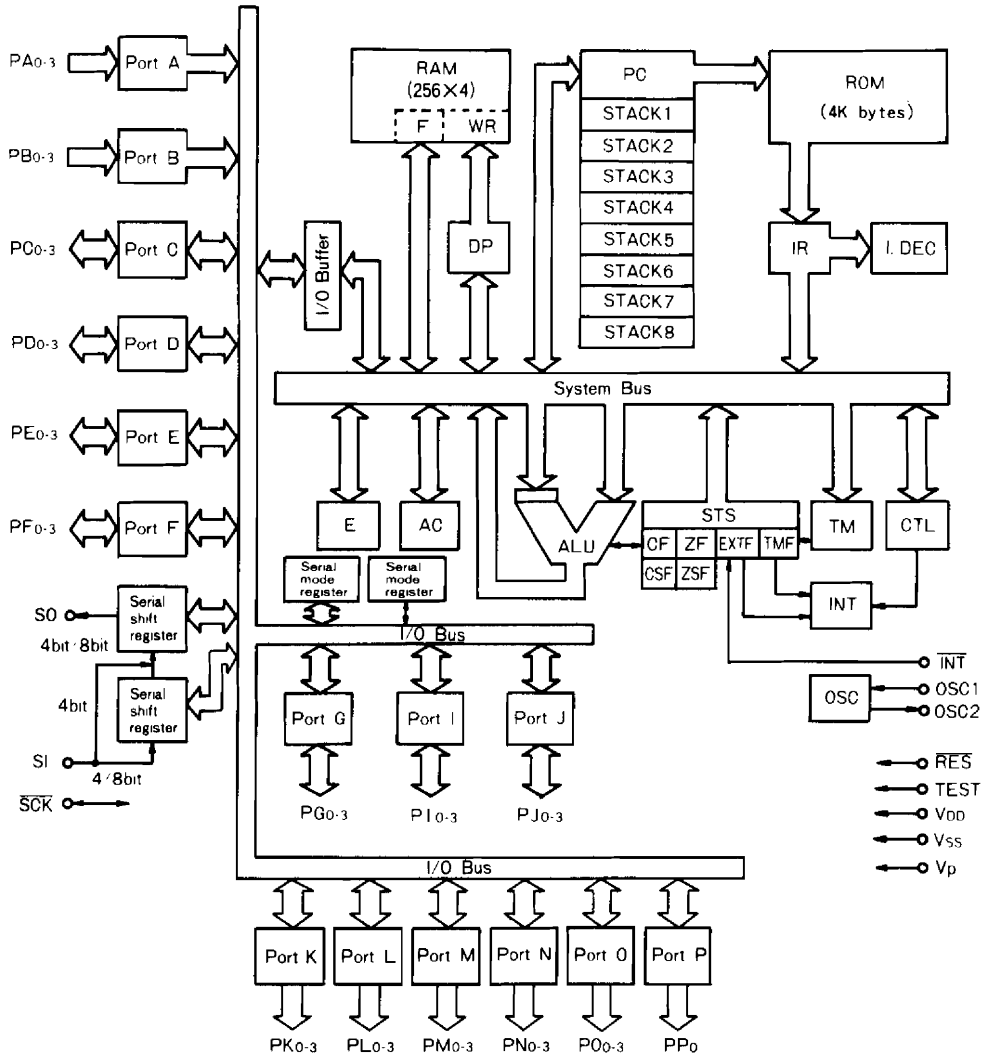


• RECORDING FREQUENCY RESPONSE



LSI DATA

IC116: LC6554H-3362




- STS : Status register
- RAM : Data memory
- ROM : Program memory
- F : Flag
- PC : Program counter
- WR : Working register
- INT : Interrupt control
- AC : Accumulator
- IR : Instruction register
- ALU : Arithmetic and logic unit
- I.DEC : Instruction decoder
- DP : Data pointer
- CF, CSF : Carry flag, carry save flag
- E : E register
- ZF, ZSF : Zero flag, zero save flag
- CTL : Control register
- EXTF : External interrupt request
- OSC : Oscillator
- TMF : Internal interrupt request
- TM : Timer

Note) Pins SI, SO, SCK, INT are commonly used with PF<sub>0</sub>, PF<sub>1</sub>, PF<sub>2</sub> and PF<sub>3</sub> respectively.

KX-1200

● TERMINAL DESCRIPTION

NO	NAME	FUNCTION	NO	NAME	FUNCTION	
1	N <sub>0</sub>	LINE MUTE	64	VDD	+5	
2	N <sub>1</sub>	REC MUTE	63	M <sub>3</sub>	DISPLAY DIGIT OUTPUT (1 figure) G <sub>5</sub> (2 figure) G <sub>4</sub> (3 figure) G <sub>3</sub> (4 figure) G <sub>2</sub>	
3	N <sub>2</sub>	MONITOR SW	62	M <sub>2</sub>		
4	N <sub>3</sub>	Remote Control Transmitter REC DISPLAY	61	M <sub>1</sub>		
5	O <sub>0</sub>	NORMAL	60	M <sub>0</sub>		
6	O <sub>1</sub>	} TAPE CrO <sub>2</sub>	59	L <sub>3</sub>	 a, MEMORY b, ▷ ◁, BIAS c, ▷  d,  ◁ e, TAPE f, O-M REPEAT g, FULL REPEAT h, -, REC, ●, TEST, SOURCE	
7	O <sub>2</sub>		METAL	58		L <sub>2</sub>
8	O <sub>3</sub>		70μ (PB AMP.)	57		L <sub>1</sub>
9	P <sub>0</sub>	DISPLAY (DOT) G <sub>1</sub>	56	L <sub>0</sub>		
10	A <sub>0</sub>	INPUT KEY ● PLAY ● REC/PAUSE ● FF ● REW ● MUTE/SEARCH ● STOP ● RESET ● MEMORY	55	K <sub>3</sub>		
11	A <sub>1</sub>		54	K <sub>2</sub>		
12	A <sub>2</sub>		53	K <sub>1</sub>		
13	A <sub>3</sub>		52	K <sub>0</sub>		
14	B <sub>0</sub>		51	Vp	-22	
15	B <sub>1</sub>		50	J <sub>3</sub>	BIAS	
16	B <sub>2</sub>		49	J <sub>2</sub>	DISPLAY (REMOTE)	
17	B <sub>3</sub>		48	J <sub>1</sub>	} REEL MOTOR CONTROL	
18	C <sub>0</sub>	MECHANISM POSITION SW { (0) (1) (2) } Cassette Mechanism	47	J <sub>0</sub>		
19	C <sub>1</sub>		46	I <sub>3</sub>	} ASSIST MOTOR CONTROL	
20	C <sub>2</sub>		45	I <sub>2</sub>		
21	C <sub>3</sub>	MONITOR	44	I <sub>1</sub>	} REEL MOTOR CONTROL (REW) (FF)	
22	D <sub>0</sub>	CrO <sub>2</sub> DTC.	43	I <sub>0</sub>		
23	D <sub>1</sub>	METAL DTC.	42	G <sub>3</sub>	} CASSETTE MECHANISM ROTATION DTC. (S) ROTATION DTC. (T)	
24	D <sub>2</sub>	ERASURE PROTECTION	41	G <sub>2</sub>		
25	D <sub>3</sub>	CASSETTE HALF	40	G <sub>1</sub>	MUSIC PULES	
26	E <sub>0</sub>	AUTO MODE ● FULL REPEAT ● O-M REPEAT ● TIMER PLAY ● TIMER REC	39	G <sub>0</sub>	REMOTE (WIRELESS)	
27	E <sub>1</sub>		38	F <sub>3</sub> /INT	POWER OFF	
28	E <sub>2</sub>		37	F <sub>2</sub> /SCK	ORBIT ● TEST ● TEST LOW ● TEST HIGH	
29	E <sub>3</sub>		36	F <sub>1</sub> /SO		
30	TEST	GND	35	F <sub>0</sub> /SI		
31	Vss	GND	34	RES	RESET	
32	OSC1	CLOCK	33	OSC2	CLOCK	

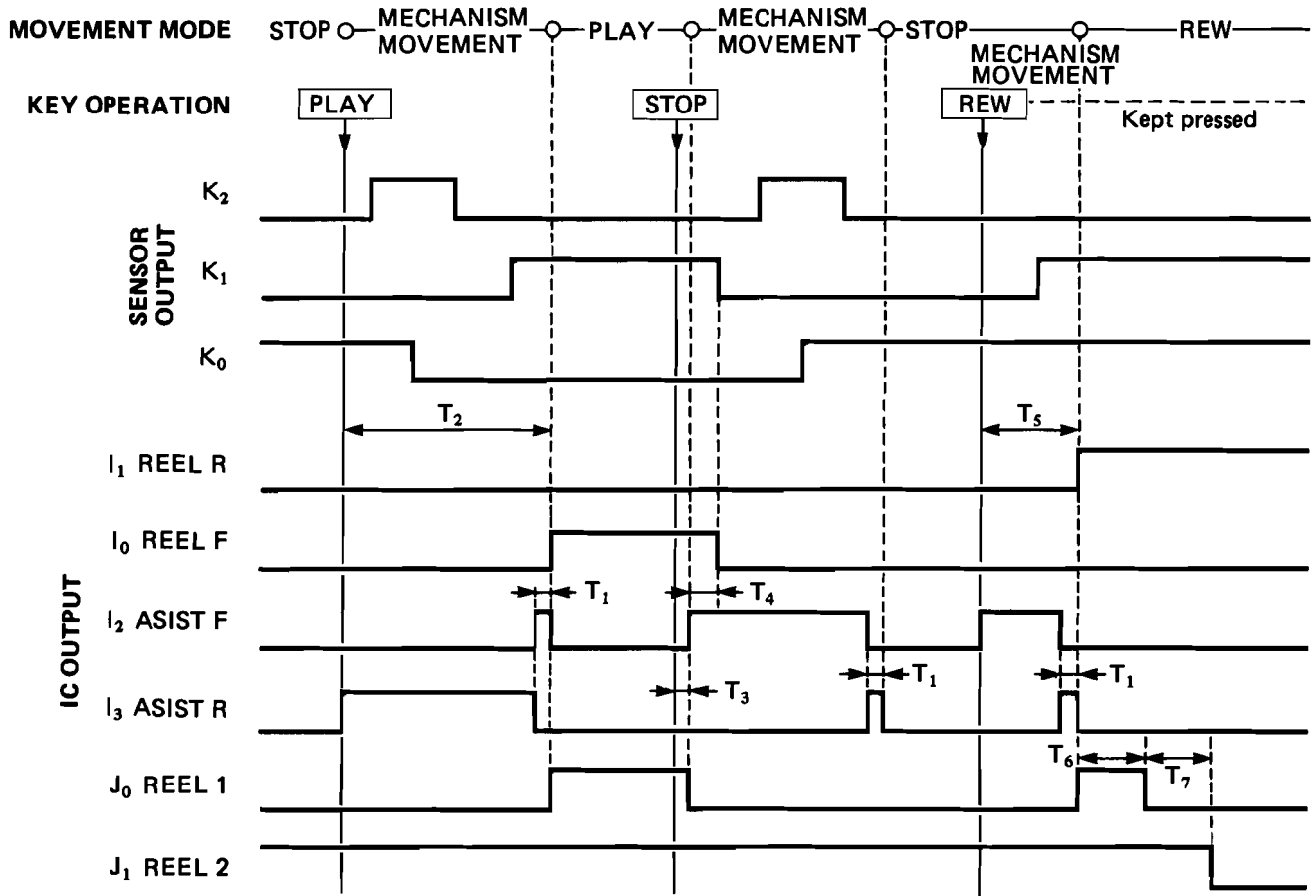
● MODE VS OUTPUT

Terminal	NAME	STOP	FF	FF (High Speed)	REW	REW (High Speed)	PLAY	REC/PAUSE	REC/PLAY	CUE	REVIEW
J <sub>3</sub> · 50	BIAS	L	L	L	L	L	L	L	H	L	L
N <sub>1</sub> · 2	REC MUTE	H	H	H	H	H	H	H	L	H	H
N <sub>2</sub> · 3	MONITOR	H-	H-	H-	H-	H-	**H	***L	***L	H-	H-
N <sub>0</sub> · 1	LINE MUTE	(H) *	(H) *	(H) *	(H) *	(H) *	L	(L) *	(L) *	(H) *	(H) *
I <sub>1</sub> · 44	REEL · R	L	L	L	H	H	L	L	L	L	H
I <sub>0</sub> · 43	REEL · F	L	H	H	L	L	H	L	H	H	L
J <sub>0</sub> · 47	REEL 1	H	L	L	L	L	H	L	H	L	L
J <sub>1</sub> · 48	REEL 2	H	H	L	H	L	H	H	H	H	H

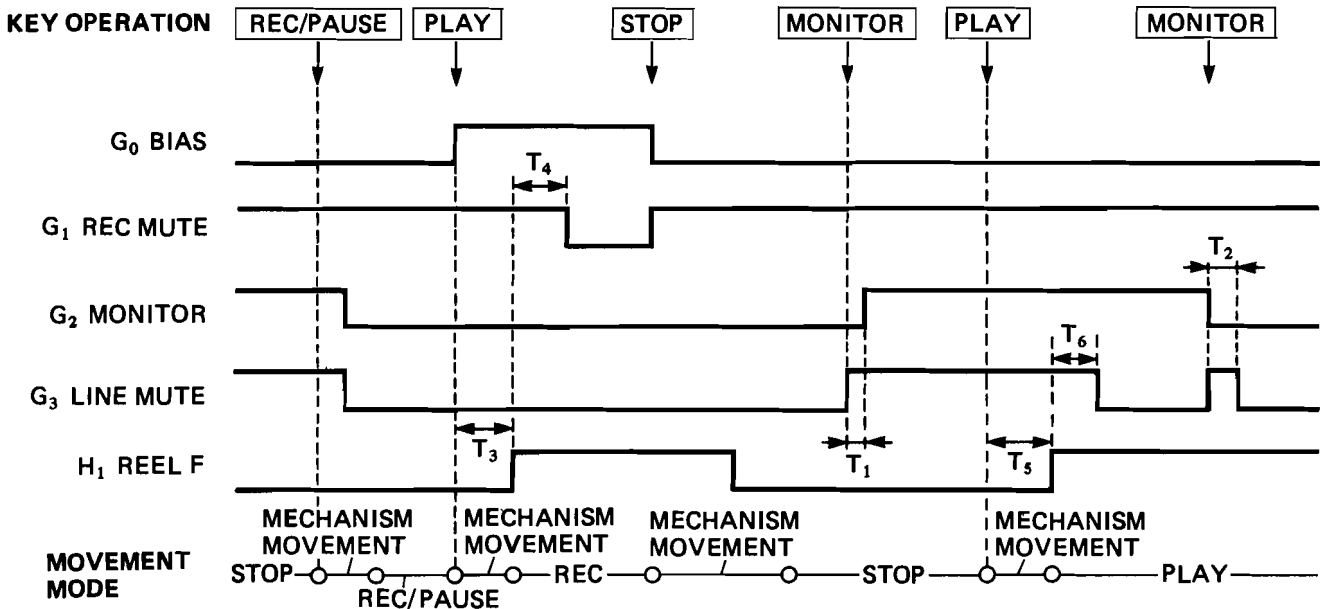
Note: L ..... Low level  
 H ..... High level  
 - ..... Holding premode  
 \*\* ..... L changes when operation is ON.  
 \*\*\* ..... H changes at initial REC.  
 \* ..... L changes when TAPE is selected.  
 H changes when SOURCE is selected.

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# TIMING CHART



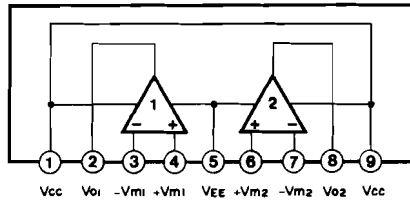
- T<sub>1</sub> : Reversing due to assist motor stop . . . About 17.5 msec
- T<sub>2</sub> : Play operation time . . . About 310 msec
- T<sub>3</sub> : Delay of play → STOP . . . About 15.5 msec
- T<sub>4</sub> : Reel motor running time before shifting out of the previous mode . . . About 48 msec
- T<sub>5</sub> : Operation time of STOP → REW . . . About 85 msec
- T<sub>6</sub> : Delay before fast forward voltage . . . About 122 msec
- T<sub>7</sub> : Delay before high speed fast forward voltage . . . About 135.5 msec



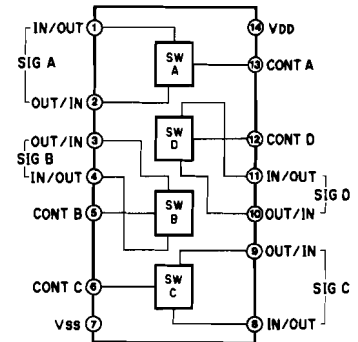
- T<sub>1</sub> : Monitor mute delay . . . About 25 μsec
- T<sub>2</sub> : Monitor switching mute . . . About 23.5 msec
- T<sub>3</sub> : Operation of PAUSE → PLAY . . . About 157 msec
- T<sub>4</sub> : REC mute delay . . . About 132 msec (to wait til running is stabilized)
- T<sub>5</sub> : PLAY operation . . . About 310 msec
- T<sub>6</sub> : Line mute delay . . . About 127.5 msec

**IC BLOCK**

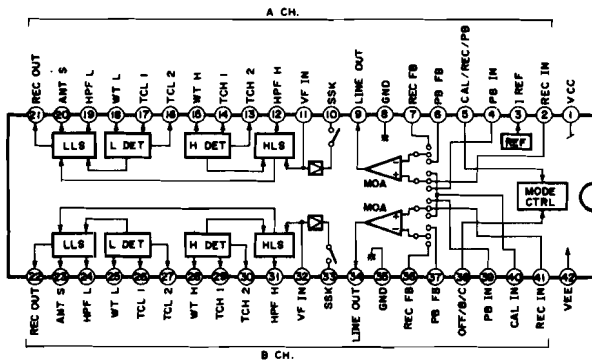
IC101, 102, 104, 113 ~ 115, 503: AN6551, NJM4558S, BA715  
 IC103: NJM2043S-D  
 IC107: NJM4556S-A  
 IC109, 110: NJM4556S  
 (Dual Ope-amp)



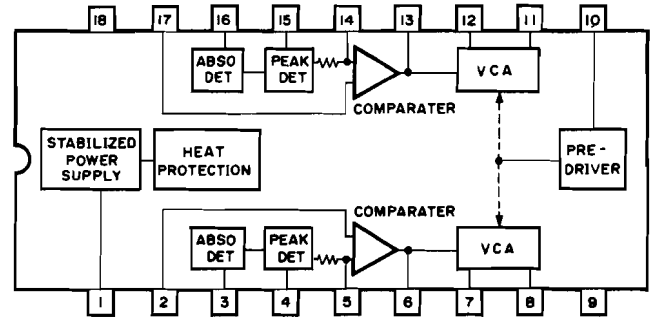
IC108:  $\mu$ PD4066BC, LC4066B (Quad Bilateral Switch)



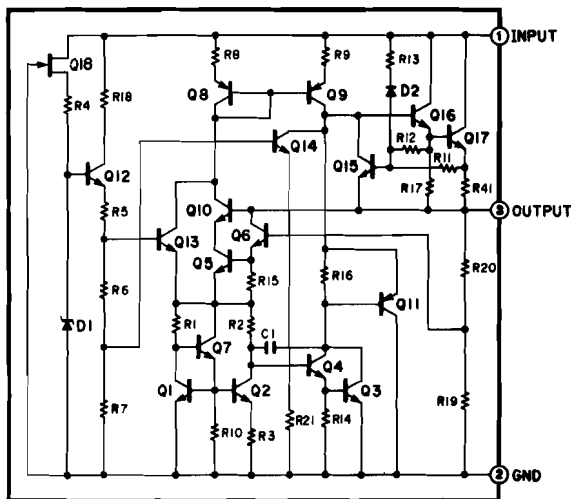
IC105, 106: CX20188  
 (Dolby B/C NR)



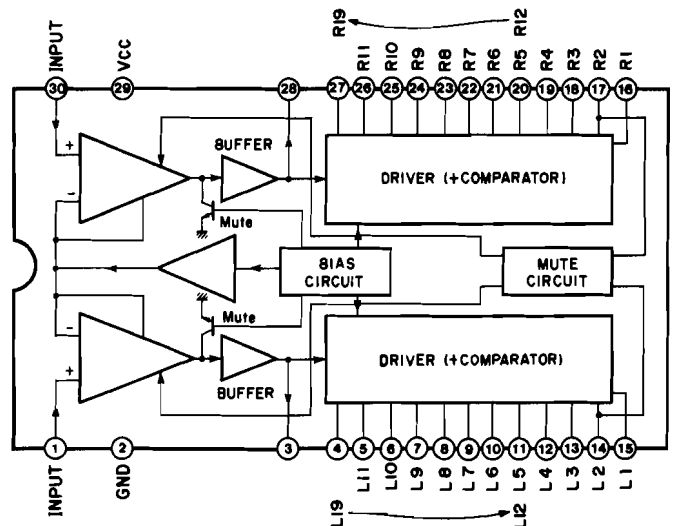
IC111:  $\mu$ PC1297CA (Dolby HX PRO)



IC501: AN78M05, NJM78M05A (Regulator)



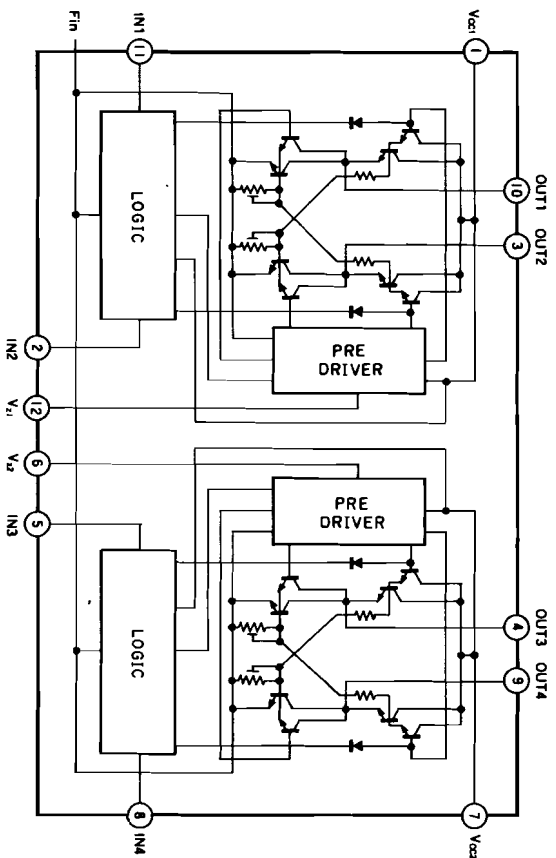
IC504, 505: HA12067NT (LED Driver)



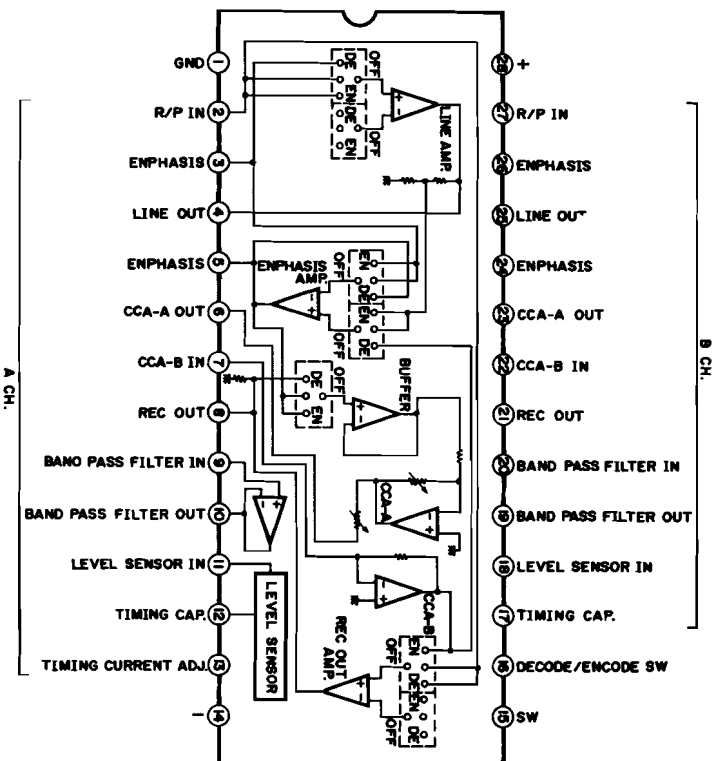
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IC502: LB1649 (Motor Driver)



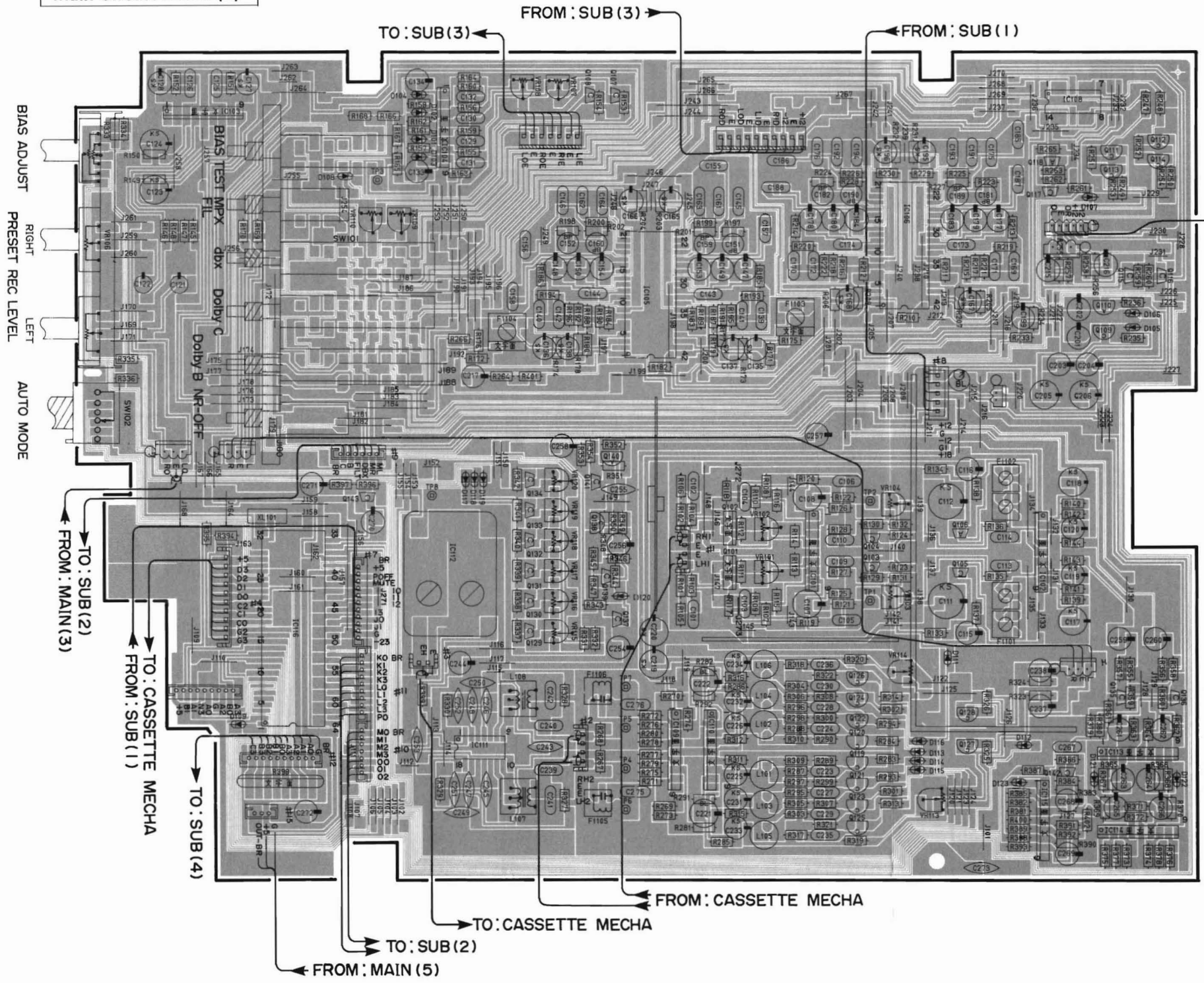
IC506, 507: AN6294NK (Dual dbx NR)



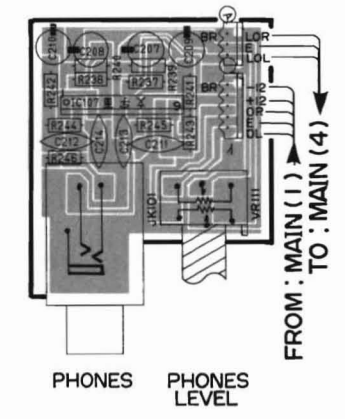
PRINTED CIRCUIT BOARD (Pattern side)

Note) 文字面 : Component side

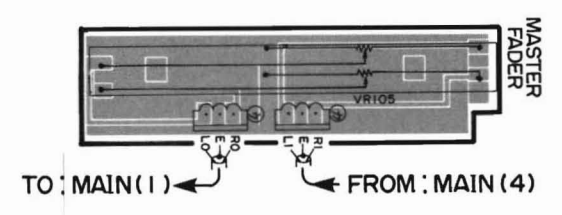
Main Circuit Board (1)



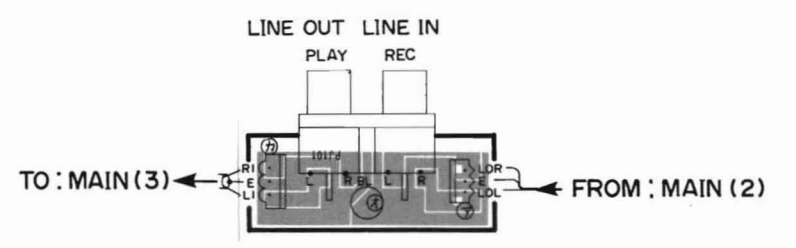
Main Circuit Board (2)



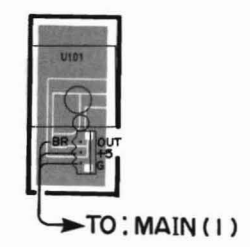
Main Circuit Board (3)



Main Circuit Board (4)



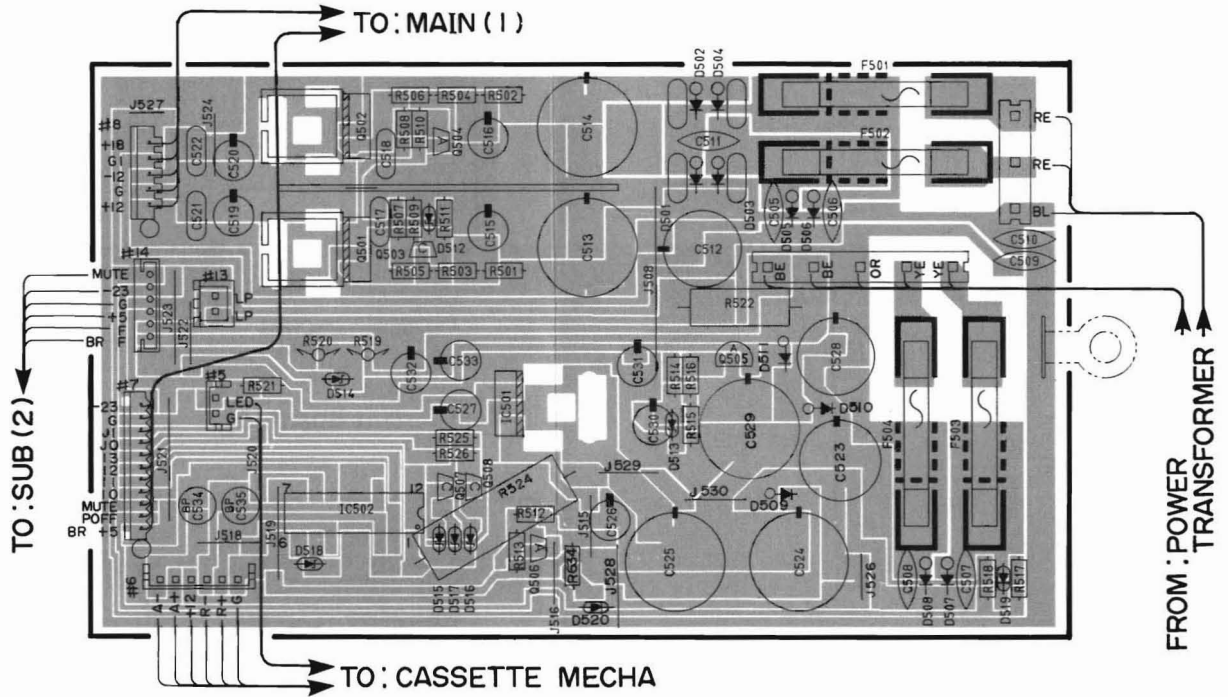
Main Circuit Board (5)



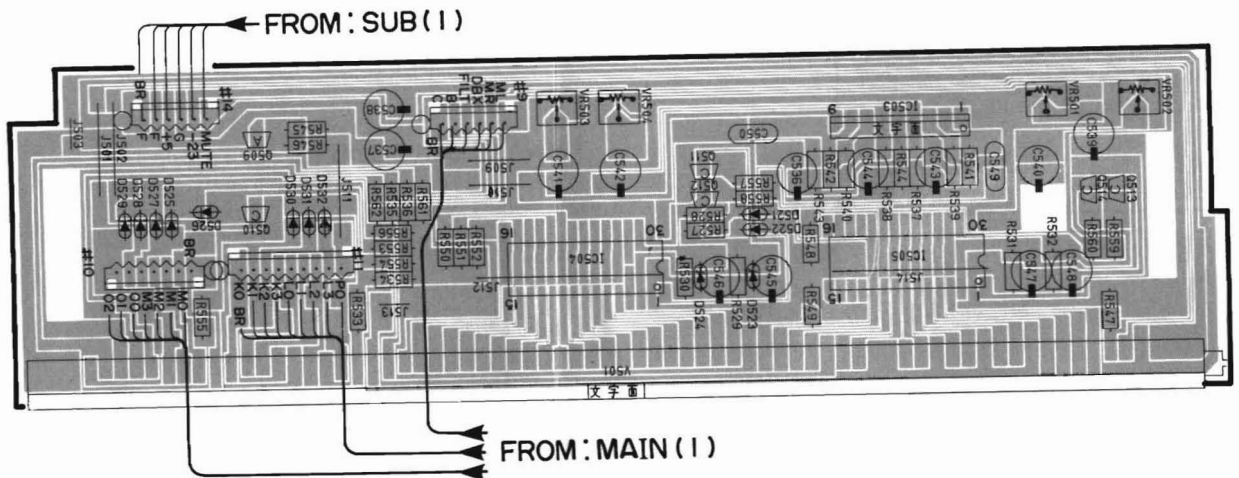
# PRINTED CIRCUIT BOARD (Pattern side)

Note) 文字面 : Component side

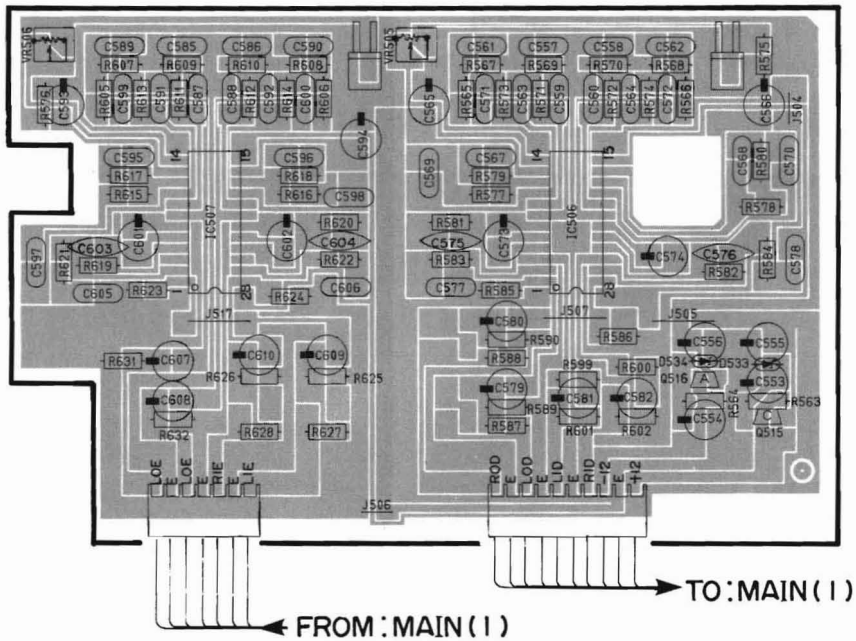
## Sub Circuit Board (1)



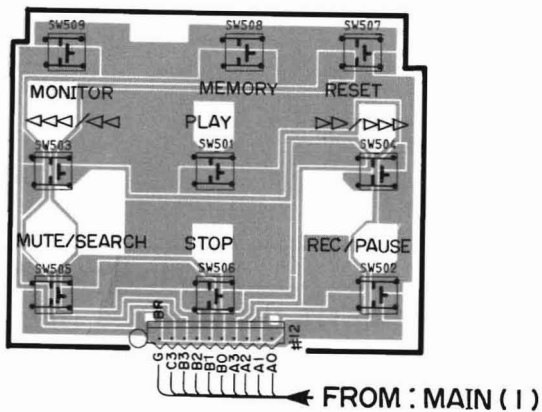
## Sub Circuit Board (2)



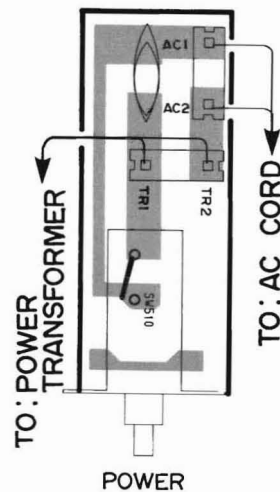
Sub Circuit Board (3)



Sub Circuit Board (4)



Sub Circuit Board (5)



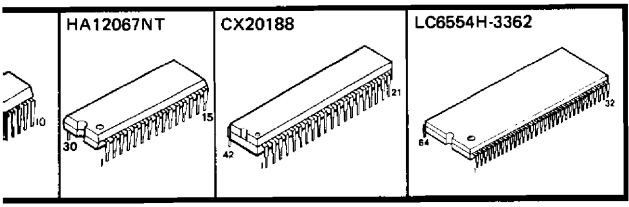
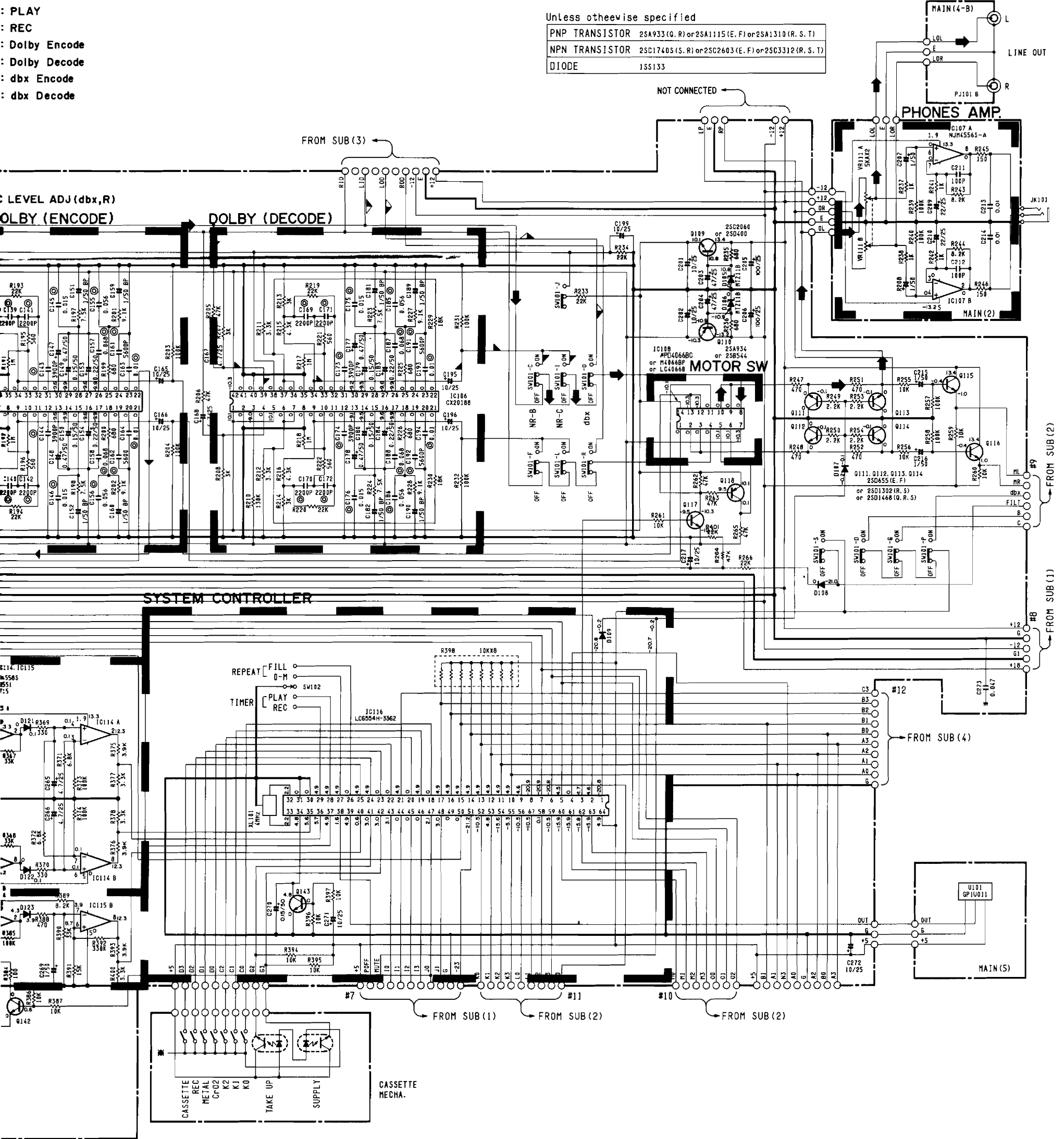


REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR
□	CARBON FILM RESISTOR (1/6W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
▣	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	SEMENT MOLDED RESISTOR
○	SEMI VARIABLE RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR (Mylar)
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

Unless otheewise specified  
 PNP TRANSISTOR 2SA933 (Q, R) or 2SA1115 (E, F) or 2SA1310 (R, S, T)  
 NPN TRANSISTOR 2SD1740S (S, R) or 2SD2603 (E, F) or 2SD3312 (R, S, T)  
 DIODE 1S5133

PLAY  
 REC  
 Dolby Encode  
 Dolby Decode  
 dbx Encode  
 dbx Decode



\* All voltages 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.



SCHEMATIC DIAGRAM(2/2)

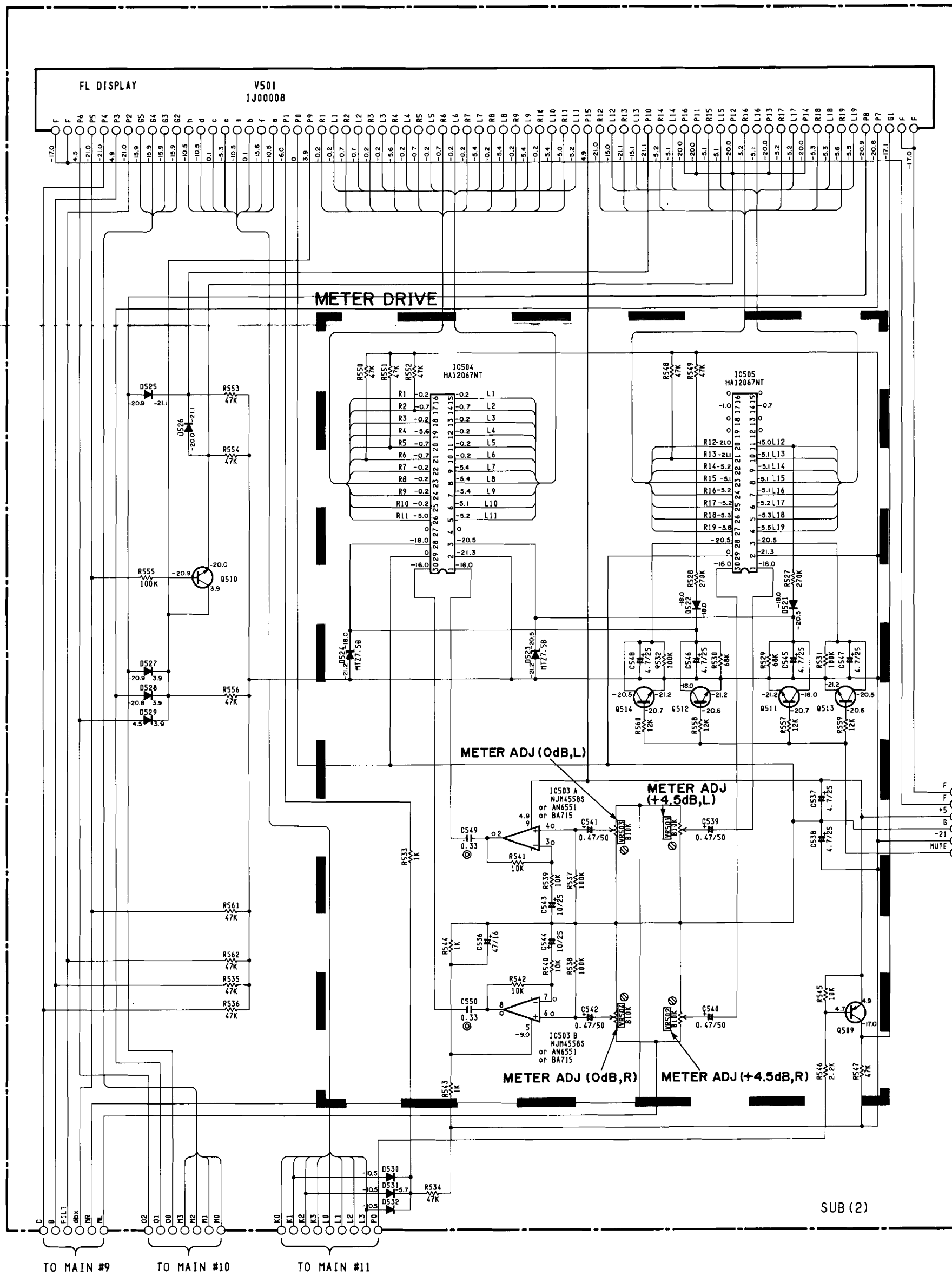
RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR
□	CARBON FILM RESISTOR (1/6W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	SEMENT MOLDED RESISTOR
⊙	SEMI VARIABLE RESISTOR

CAPACITOR	
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYESTER FILM CAPACITOR (Mylar)
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

Unless otherwise specified

PNP TRANSISTOR	2SA933S(Q,R) or 2SA1115(E,F) or 2SA1310(R,S,T)
NPN TRANSISTOR	2SC1740(S,R) or 2SC2603(E,F) or 2SC3312(R,S,T)
DIODE	1SS133

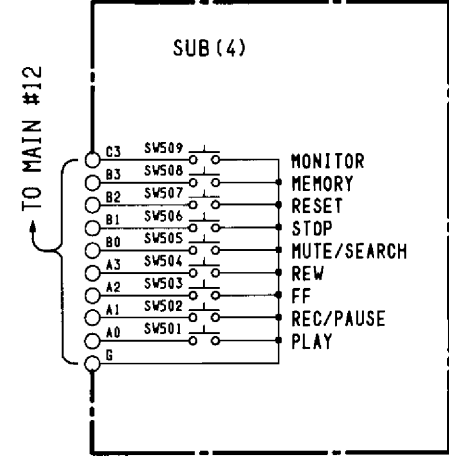
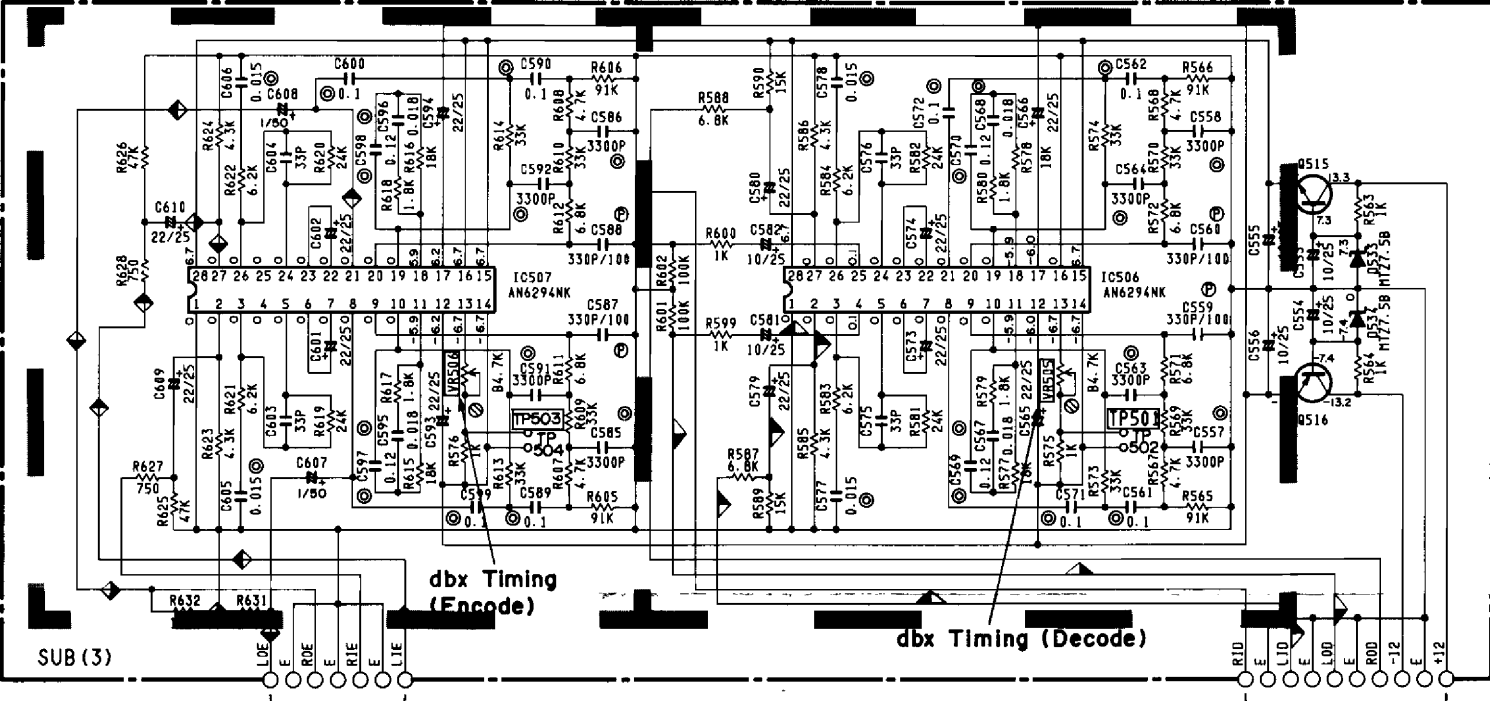
◆ : dbx Encode  
 ▲ : dbx Decode



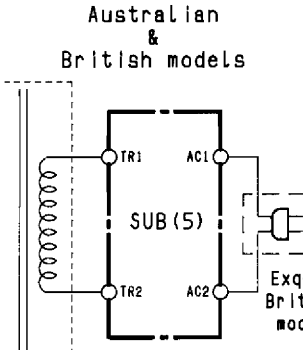
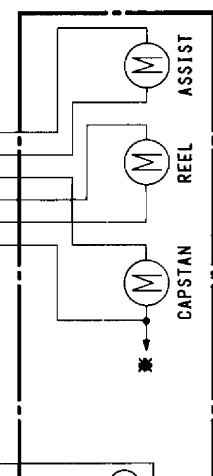
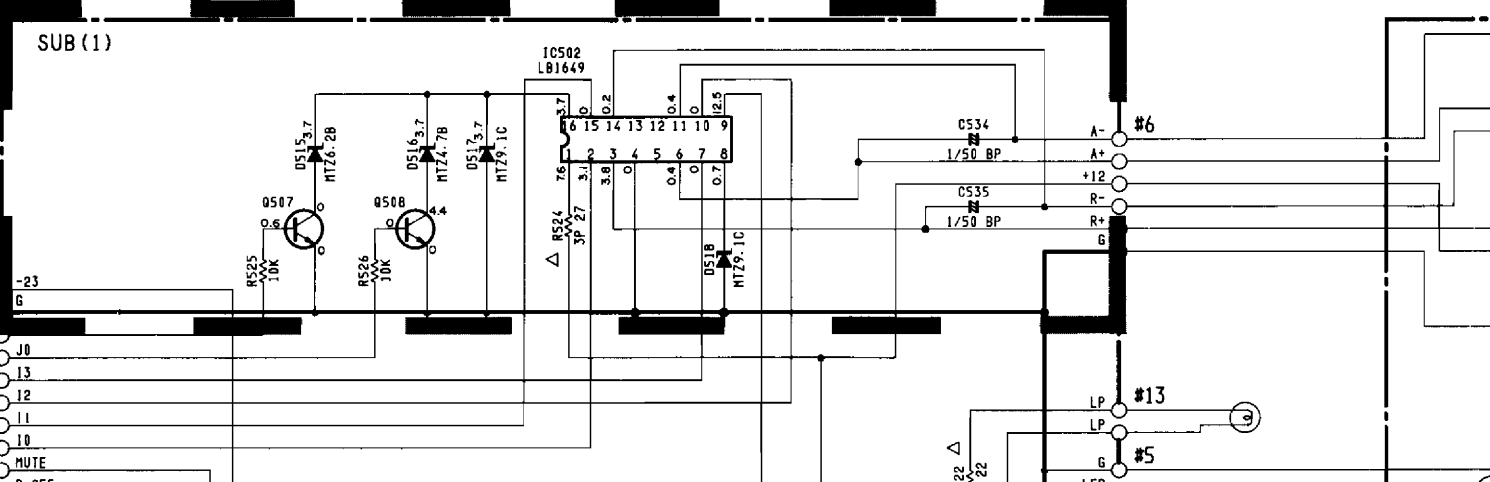
S. T)  
S. T)

dbx (ENCODE)

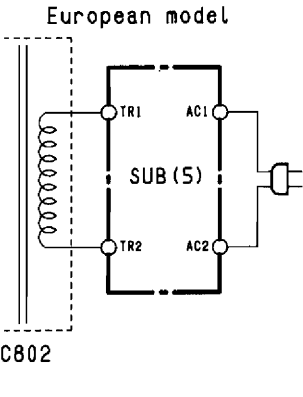
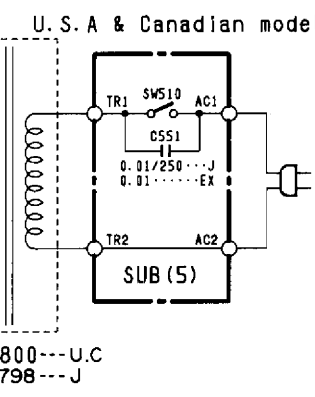
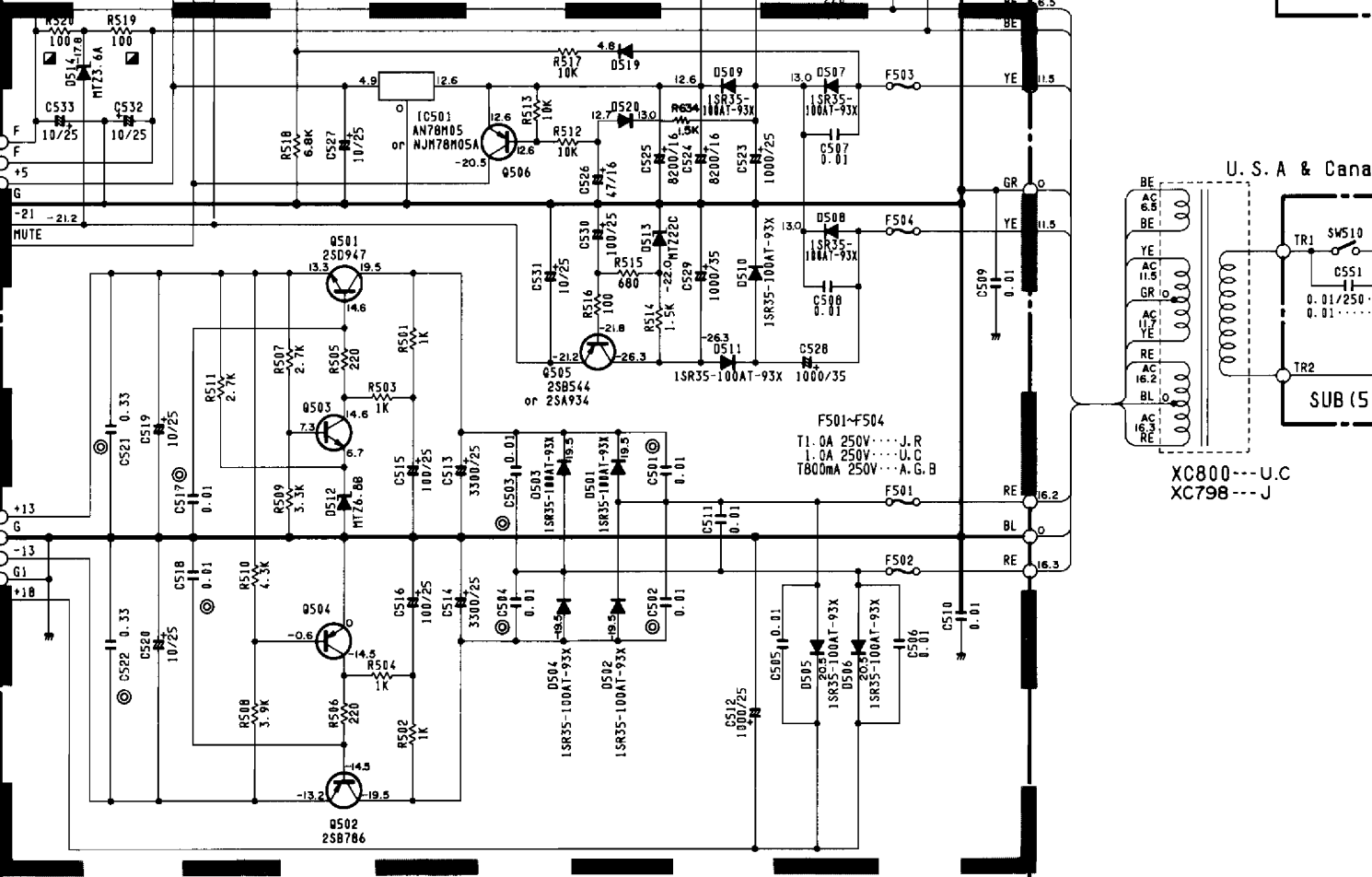
dbx (DECODE)



MOTOR CONTROL

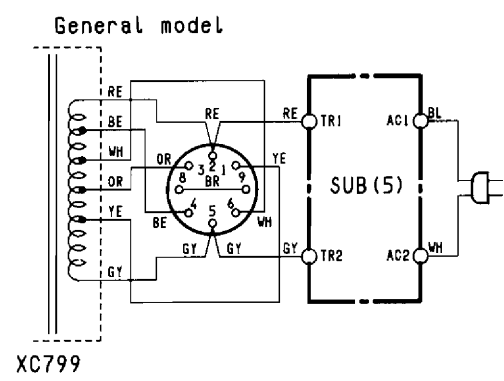


POWER SUPPLY



TO MAIN #8

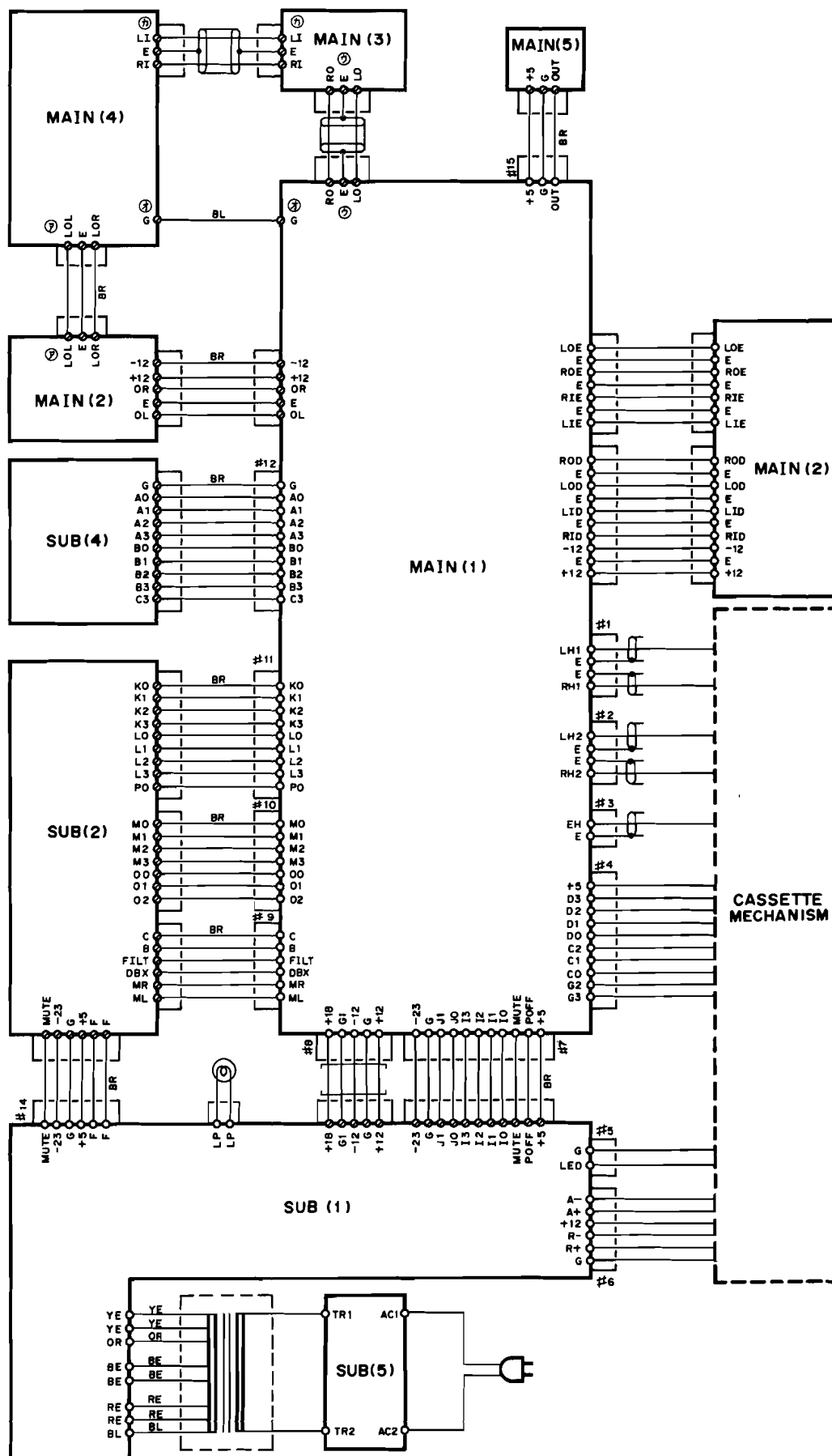
TO MAIN #7



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



WIRING



KX-1200

# PARTS LIST

## ■ ELECTRICAL PARTS

■WARNING

Components having special characteristics are marked  $\Delta$  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 resistor, refer to p. 39.

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
*	NA 09 53 50	Main Circuit Board	メ イン シ ー ト			J	
*	NA 09 48 70	"	"			R,U,A,G,C,B	
	FG 21 21 00	Ceramic Cap. 100pF 50V	セ ラ コ ン	C211,212			
	FG 11 25 60	" 560pF 50V	"	C249,250			
	FG 44 41 00	" 0.01 $\mu$ F 50V	"	C213,214,251,252,255			
	FG 44 42 20	" 0.022 $\mu$ F 50V	"	C247,248			
	FG 74 43 30	" 0.033 $\mu$ F 50V	"	C245,246			
	FG 44 44 70	" 0.047 $\mu$ F 50V	"	C243,273			
	FH 61 11 00	" 10pF 500V	"	C253			
	FA 15 31 00	Mylar Cap. 1000pF 50V	マ イ ラ ー コ ン	C129,131			
	FA 15 32 20	" 2200pF 50V	"	C103,104,139~142,169~172			
	FA 15 32 70	" 2700pF 50V	"	C229,230			
	FA 15 33 30	" 3300pF 50V	"	C227~230			
	FA 15 33 90	" 3900pF 50V	"	C143,144,173,174			
	FA 15 35 60	" 5600pF 50V	"	C161,162,191,192			
	FA 15 38 20	" 8200pF 50V	"	C109,110			
	FA 15 41 00	" 0.01 $\mu$ F 50V	"	C130,132,163,164,193,194,267			
	FA 15 42 20	" 0.022 $\mu$ F 50V	"	C235,236			
	FA 15 41 50	" 0.015 $\mu$ F 50V	"	C145,146,175,176			
	FA 15 45 60	" 0.056 $\mu$ F 50V	"	C155,156,185,186			
	FA 15 46 80	" 0.068 $\mu$ F 50V	"	C157,158,187,188			
	UJ 14 64 70	Electrolytic Cap. 4.7 $\mu$ F 25V	ケ ミ コ ン	C256,257			
	UJ 14 71 00	" 10 $\mu$ F 25V	"	C115,116,119,201,202,217,244,256,263,264,271,272			
	UJ 14 72 20	" 22 $\mu$ F 25V	"	C209,210,258			
	UJ 14 74 70	" 47 $\mu$ F 25V	"	C203,204,254,257			
	UJ 16 54 70	" 0.47 $\mu$ F 50V	"	C147,148,177,178			
	UJ 16 61 00	" 1 $\mu$ F 50V	"	C133,134,207,208,215,216,237,238,259~262,268,269			
	UM 02 82 20	" 220 $\mu$ F 6.3V	"	C117,118,123,124			
	UM 05 64 70	" 4.7 $\mu$ F 25V	オーディオケミコン	C135~138,167,168			
	UM 05 71 00	" 10 $\mu$ F 25V	"	C119~122,165,166,195,196			
	UM 05 72 20	" 22 $\mu$ F 25V	"	C225,226			
	UM 05 74 70	" 47 $\mu$ F 25V	"	C127,128			
	UM 05 81 00	" 100 $\mu$ F 25V	"	C205,206,219,220			
	UM 07 56 80	" 0.68 $\mu$ F 50V	"	C231~234			
*	VD 80 76 00	" 1000 $\mu$ F 16V	ケ ミ コ ン	C111,112			
*	VD 80 79 00	" 10 $\mu$ F 25V	"	C107,108			
	UW 56 51 50	" 0.15 $\mu$ F 50V	"	C149,150,179,180,270			
	UJ 16 52 20	" 0.22 $\mu$ F 50V	"	C183,184			
	FZ 00 54 20	" 10 $\mu$ F 25V	ブラックゲートコン	C221,222			
	FM 11 61 00	" 1 $\mu$ F 50V	B P コ ン	C151,152,159,160,181,182,189,190			
	FZ 00 65 40	Mylar Cap. 0.01 $\mu$ F 50V	銅リードマイラーコン	C105,106			
	UT 45 21 00	Polypropylene Film Cap. 100pF 100V	ポ リ プ ロ コ ン	C101,102,125,126			
	UT 45 21 50	" 150pF 100V	"	C241,242			
	UT 45 23 30	" 330pF 100V	"	C113,114,239,240			
	UT 45 24 70	" 470pF 100V	"	C275,276			
	GE 20 05 10	Dolby Filter	ドルビーフィルター	Fil03,104			
*	VD 42 20 00	Bias Trap Coil 105+210kHz	バイアストラップコイル	Fil01,102			
*	VD 42 21 00	" 210kHz	"	Fil05,106			
	GE 90 16 10	Coil 6.8mH	コ イ ル	L105,106			
	GE 90 16 30	" 10mH	"	L103,104			
	GE 90 16 50	" 15mH	"	L101,102			

\*New Parts (新規部品) NR

KX-1200

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※	VD 42 22 00	Coil		ステップアップコイル	L107,108		
※	VD 82 76 00	Ceramic Resonator	4MHz	セラミック振動子	XL101		
	VB 86 07 00	Pre-Set Potentiometer	B100Ω	半固定抵抗	VR101,102		
	VB 86 14 00	//	B4.7kΩ	//	VR107,108,113,114,117,118		
	VB 86 15 00	//	B10kΩ	//	VR103,104,109,110		
	VB 86 16 00	//	B22kΩ	//	VR119,120		
	VB 86 13 00	//	B3.3kΩ	//	VR115,116		
	HQ 40 02 70	Potentiometer	A50kΩ×2	可変抵抗器	VR105		
	HS 41 27 40	//	A5kΩ×2	//	VR111		
※	VD 42 24 00	VR Unit	A50kΩ,B10kΩ	V R ユ ニ ッ ト	VR106		
	HZ 00 28 80	Resistor Array	10kΩ×8	抵抗アレー	R398		
	iA 09 34 00	Transistor	2SA934	トランジスタ	Q110,140	} Inter-changeable	
	iB 05 44 10	//	2SB544	//	//		
	iA 11 15 10	//	2SA1115(E,F)	//	Q116	} Inter-changeable	
	iA 09 33 00	//	2SA933S(Q,R)	//	//		
	iX 60 31 70	//	2SA1310(R,S,T)	//	//	} Inter-changeable	
	iD 06 55 10	//	2SD655(E,F)	//	111~114,119~128		
	iD 13 02 00	//	2SD1302(R,S)	//	//		
	iE 10 45 00	Dual FET	2SK389(GR,BL)	デュアル F E T	Q101,102		
	iF 00 61 30	Diode	ISS133	ダイオード	D101~104,107~109,111~119,121~123		
	iF 00 89 10	Zener Diode	MTZ6.8B	ツェナーダイオード	D120		
	iF 00 88 30	//	MTZ11B	//	D105,106		
※	VB 96 96 00	Receive Unit	GPIU011	受光ユニット			
	iG 03 47 00	IC	AN6551	I C	IC101,102,104,113~115	} Inter-changeable	
	iG 07 68 00	//	NJM4558S	//	//		
	iG 13 22 00	//	BA715	//	//		
	iG 07 74 00	//	NJM4556S	//	IC109,110		
	iG 07 74 10	//	NJM4556S-A	//	IC107		
	iG 08 29 00	//	NJM2043S-D	//	IC103		
	iG 06 16 00	//	μPD4066BC	//	IC108	} Inter-changeable	
	iG 08 92 00	//	LC4066B	//	//		
	XA 30 00 01	//	μPC1297CA	//	IC111		
※	XC 77 10 01	//	CX20188	//	IC105,106		
※	XC 84 50 02	//	LC6554H-3362	//	IC116		
※	VD 20 66 00	Bias OSC Block		バイアス発振ブロック	IC112		
	KA 50 19 60	Rotary Switch	SBU 2-5	ロータリースイッチ	SW102		
※	VD 70 40 00	Push Switch	SPUL 6連	プッシュスイッチ	SW101		
	LB 30 21 40	Phone Jack		ヘッドホンジャック	JK101		
	LB 40 12 90	Pin Jack	4P	ピンジャック	PK101		
	LA 00 41 20	Test Point Pin		テストポイントピン			
※	LB 60 24 60	Base Pin		ベースピン			
	LB 60 78 70	//		//			

※New Parts (新規部品) NR

Ref. No.	Part No.	Description	部品名		Remarks	Common Model	Markets	ランク
※	VD 65 04 00	Base Pin	2P	i-Type	E H ベースピン			
※	VD 65 05 00	//	4P	i-Type	//			
	LB 91 80 50	//	5P	i-Type	//			
※	VD 65 07 00	//	10P	i-Type	//			
※	VD 28 63 00	Ground Plate			アース板			
	VB 68 02 00	//			//			
	AA 61 69 90	Shielding Plate			シールド板			
※	NA 09 48 80	Sub Circuit Board			サブシート		J	
※	NA 09 48 90	//			//		R	
※	NA 09 49 00	//			//		U,C	
※	NA 09 49 10	//			//		A,G,B	
	FG 44 41 00	Ceramic Cap.	0.01μF	50V	セラコン	C505~511		
	FG 21 13 30	//	33pF	50V	//	C575,576,603,604		
	VA 89 13 00	//	0.01μF	250V	//	C551	J	
	Fi 41 41 00	//	0.01μF	VA-1	//	C551	} Inter-changeable	R,U,C,A,G,B
	Fi 51 41 00	//	0.01μF	DNS	//	//		R,U,C,A,G,B
	FZ 00 65 40	Mylar Cap.	0.01μF	50V	銅リードマイラーコン	C501~504		
	FA 15 33 30	//	3300pF	50V	マイラーコン	C557,558,563,564,585,586,591,592		
	FA 15 41 00	//	0.01μF	50V	//	C517,518		
	FA 15 41 50	//	0.015μF	50V	//	C577,578,605,606		
	FA 15 41 80	//	0.018μF	50V	//	C567,568,595,596		
	FA 15 51 00	//	0.1μF	50V	//	C561,562,571,572,589,590,599,600		
	FA 15 51 20	//	0.12μF	50V	//	C569,570,597,598		
	FA 15 53 30	//	0.33μF	50V	//	C521,522,549,550		
	UT 45 23 30	Polypropylene Film Cap.	330pF	100V	ポリプロコン	C559,560,587,588		
	UJ 13 74 70	Electrolytic Cap.	47μF	16V	ケミコン	C526,536		
	UJ 14 64 70	//	4.7μF	25V	//	C537,538,545,548		
	UJ 24 71 00	//	10μF	25V	//	C519,520,527,531~533,543,544,553~556,581,582,607,608		
	UJ 14 72 20	//	22μF	25V	//	C565,566,573,574,579,580,593,594,601,602,609,610		
	UJ 14 81 00	//	100μF	25V	//	C515,516,530		
	UJ 16 54 70	//	0.47μF	50V	//	C539~542		
	UH 14 91 00	//	1000μF	25V	//	C512,523		
	UH 15 91 00	//	1000μF	35V	//	C528		
※	UH 15 92 20	//	2200μF	35V	//	C529		
	Ui 93 98 20	//	8200μF	16V	//	C524,525		
	VC 78 09 00	//	3300μF	25V	//	C513,514		
	FM 17 61 00	//	1μF	50V	B P コン	C534,535		
	HV 45 51 00	Frame Proof Carbon Resistor	100Ω	1/4W	不燃化カーボン抵抗	R519,520		
	HL 32 42 20	Metal Oxide Filme Resistor	22Ω	2W	酸化金抵抗	R522		
	HL 33 42 70	//	27Ω	3W	//	R524		
	VB 85 97 00	Pre-Set Potentiometer	B4.7kΩ		半固定抵抗	VR505,506		
	HT 37 03 80	//	B10kΩ		//	VR501~504		
	iA 09 34 00	Transistor	2SA934		トランジスタ	Q505	} Inter-changeable	
	iB 05 44 10	//	2SB544		//	//		
	iA 11 15 10	//	2SA1115(E,F)		//	Q504,506,509,516	} Inter-changeable	
	iA 09 33 00	//	2SA933S(Q,R)		//	//		
	iX 60 31 70	//	2SA1310(R,S,T)		//	//		
	iB 07 86 00	//	2SB786		//	Q502		

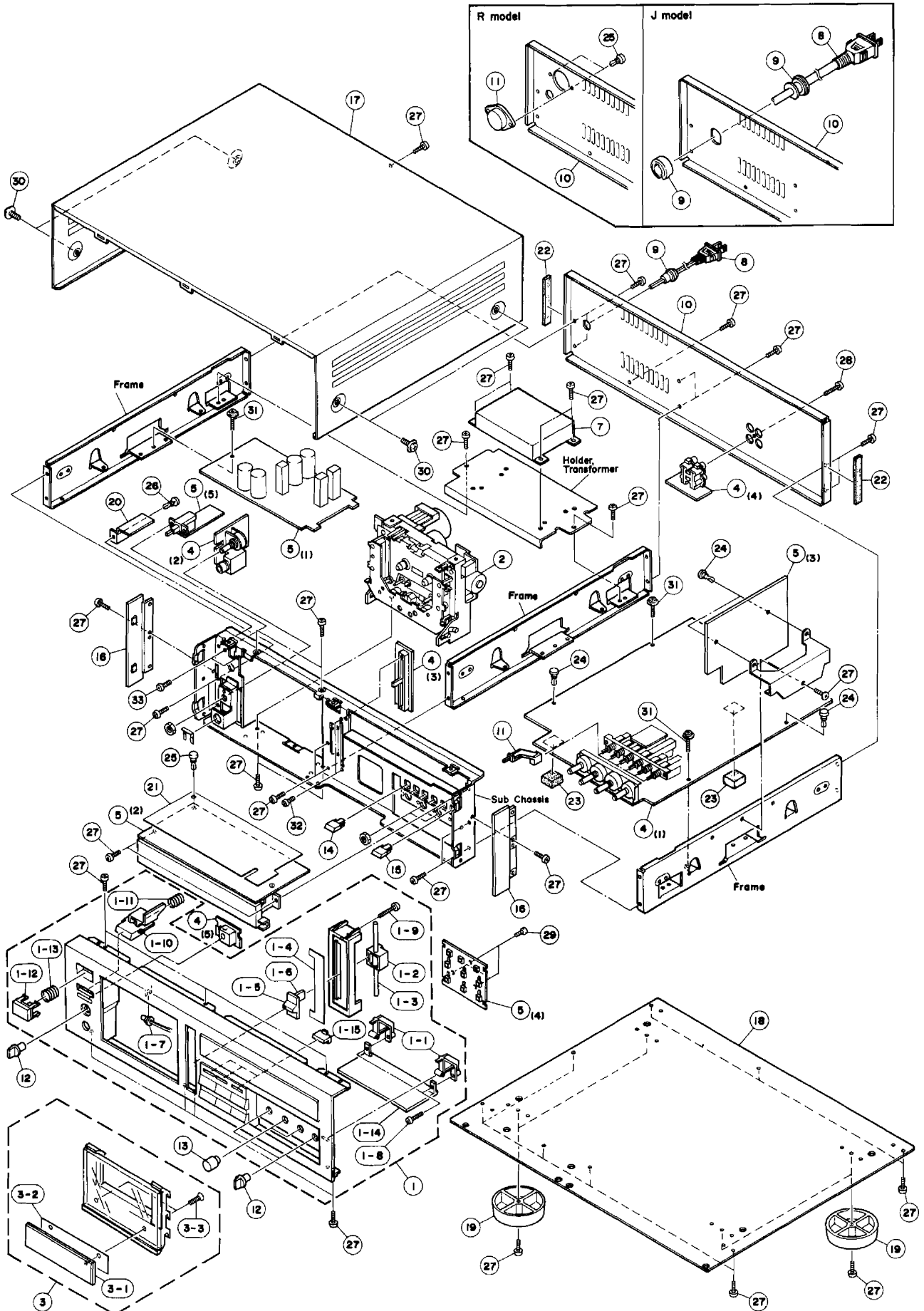
※New Parts (新規部品) NR

Ref. No.	Part No.	Description	部 品 名		Remarks	Common Model	Markets	ランク
	iC 26 03 10	Transistor	2SC2603(E,F)	ト ラ ン ジ ス タ	Q503,507,508,510~515	Inter-changeable		
	iC 17 40 00	//	2SC1740(S,R)	//	//			
	iX 60 31 80	//	2SC3312(R,S,T)	//	//			
	iD 09 47 00	//	2SD947	//	Q501			
	iF 00 61 30	Diode	ISS133	ダ イ オ ー ド	D519~522,525~532			
	iH 00 14 30	//	ISR35-100A	//	D501~511			△
	iF 00 88 00	Zener Diode	MTZ3.6A	ツェナーダイオード	D514			
	iF 01 06 60	//	MTZ4.7B	//	D516			
	iF 00 89 10	//	MTZ6.8B	//	D512			
	iF 00 64 70	//	MTZ7.5B	//	D523,524,533,534			
	iF 01 07 40	//	MTZ6.2B	//	D515			
	iF 01 08 70	//	MTZ9.1C	//	D517,518			
*	iF 00 90 50	//	MTZ22C	//	D513			
	iG 03 47 00	IC	AN6551	I C	IC503	Inter-changeable		
	iG 07 68 00	//	NJM4558S	//	//			
	iG 13 22 00	//	BA715	//	//			
	iG 07 56 00	//	NJM78M05A	//	IC501			
	XA 29 90 01	//	LB1649	//	IC502			
	iG 14 60 00	//	HA12067NT	//	IC504,505			
*	XC 84 40 01	//	AN6294NK	//	IC506,507			
	iJ 00 00 80	Display Unit		蛍 光 表 示 管	V501			
	VC 13 31 00	Switch	SDDLDI	ス イ ッ チ	SW510			△
	KA 90 63 80	//	5M EVQ-QRB-04M	//	SW501~509			
	KB 00 03 30	Fuse	T1.0A 250V	ヒ ュ ー ズ	F501~504		J,R	△
	KB 00 10 60	//	1.0A 250V	//	//		U,C	△
	KB 00 07 20	//	T800mA 250V	//	//		A,G,B	△
	LA 00 21 40	Lapping Terminal	P=10 2P i-type	i 型ラッピング端子板				
	LA 00 23 20	//	P=7.5 3P i-type	//				
	LA 00 23 40	//	P=7.5 5P i-type	//				
	LB 91 80 20	Base Pin	2P i-type	X H ベ ー ス ピ ン				
	LB 20 14 10	//	SEBS2P-SHF	//				
	LB 20 18 80	Fuse Holder Pin		ヒューズホルダーピン				
	VD 65 04 00	Base Pin	2P i-type	E H ベ ー ス ピ ン				
	VD 65 06 00	//	6P i-type	//				
	AA 62 43 00	Holder		ホ ル ダ ー				
	BB 06 62 90	Washer, Ground		アースワッシャー				
	BA 08 40 00	Heat Sink		放 熱 板				
	CB 60 56 20	Plastic Rivet		プラスチックリベット				
	CB 63 91 70	FL Filter		F L フィルター				
	VB 68 02 00	Bus Bar		アースプレートバスバー				
	Ei 03 00 66	Binding Head Tapping Screw	3×6 ZMC2-Y	バインドタッピングネジ	PACK			

\*New Parts (新規部品) NR

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# MECHANISM PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
* 1	VD 40 93 00	Panel Unit	パネルユニット	Black		J,R,A,G,B	
* //	VD 40 95 00	//	//	Silver		//	
* //	VD 40 94 00	//	//	Black		U,C	
* //	VD 40 96 00	//	//	Silver		//	
1-1	CB 63 64 20	Arm	ア ー ム		K-1x		
1-2	CB 63 64 30	Slider	ス ラ イ ダ ー		//		
1-3	AA 61 93 20	Shaft (L)	シャフト(L)		//		
1-4	BA 09 13 70	VR Plate	V R プ レ ー ト	Silver	K-1x(S)		
//	BA 09 13 80	//	//	Black			
1-5	BA 09 18 60	Slide Knob	ス ラ イ ド ツ マ ミ	Silver			
//	BA 09 18 70	//	//	Black			
1-6	AA 62 41 50	Slide Lever	ス ラ イ ド レ バ ー	Silver			
//	AA 62 41 60	//	//	Black			
1-7	JB 00 12 50	Lamp	8V 150mA パイロットランプ				
1-8	Ei 12 60 86	Binding Head Tapping Screw	2.6×8 FNM3-3G バインドタッピングネジ	PACK			
//	Ei 32 60 86	//	2.6×8 FCRM3-BI //	PACK			
1-9	Ei 03 01 26	//	3×12 ZMC2-Y //	PACK			
1-10	CB 63 63 70	Button, EJ	ボ タ ン E J	Silver			
//	CB 63 63 80	//	//	Black			
1-11	AA 62 43 20	Spring	ス プ リ ン グ				
1-12	NB 61 41 30	Button (P) Ass'y	ボ タ ン (P) Ass'y	Silver			
//	NB 61 41 40	//	//	Black			
1-13	AA 61 78 80	Spring	ス プ リ ン グ				
1-14	BA 09 13 50	Pocket Panel	ポ ケ ッ ト パ ネ ル	Silver			
//	BA 09 13 60	//	//	Black			
1-15	CB 63 64 10	Push Button	プ ッ シ ュ ボ タ ン	Silver			
//	CB 64 33 80	//	//	Black			
* 2	VD 40 98 00	Cassette Mechanism Unit	カセットメカユニット				
* 3	VD 70 57 00	Lid Ass'y	リ ッ ド Ass'y	Black			
* //	VD 70 56 00	//	//	Silver			
* 3-1	VD 70 27 00	Lid Panel	リ ッ ド パ ネ ル	Silver			
* //	VD 70 29 00	//	//	Black			
3-2	CA 07 73 50	Lid Sheet	リ ッ ド シ ー ト		K-1xw		
3-3	EB 33 01 06	Flat Head Screw	3×10 FCRM3-BI 皿 小 ネ ジ	PACK			
* 4	NA 09 53 50	Main Circuit Board	メ イン シ ー ト			J	
* //	NA 09 48 70	//	//			R,U,A,G,C,B	
* 5	NA 09 48 80	Suh Circuit Board	サ ブ シ ー ト			J	
* //	NA 09 48 90	//	//			R	
* //	NA 09 49 00	//	//			U,C	
* //	NA 09 49 10	//	//			A,G,B	
* 6	LB 20 14 80	Voltage Selector	電 圧 切 換 器			R	△
* 7	XC 79 80 01	Power Transformer	電 源 ト ラ ン ス			J	△
* //	XC 79 90 01	//	//			R	△
* //	XC 80 00 01	//	//			U,C	△
* //	XC 80 10 01	//	//			A,B	△
* //	XC 80 20 01	//	//			G	△
8	MG 00 21 90	Power Cord	7A 125V 電 源 コ ー ド			J	△
//	MG 00 16 30	//	6A 250V 2m //			R	△
//	MG 00 22 70	//	10A 125V 2.1m //			U	△
//	MG 00 09 20	//	7.5A 250V 2.5m //	} Inter-changeable		A	△
//	MG 00 14 90	//	7.5A 250V 2.5m //			A	△
//	MG 00 09 60	//	2.5A 250V 2m //	} Inter-changeable		G	△
//	MG 00 16 20	//	2.5A 250V 2m //			G	△

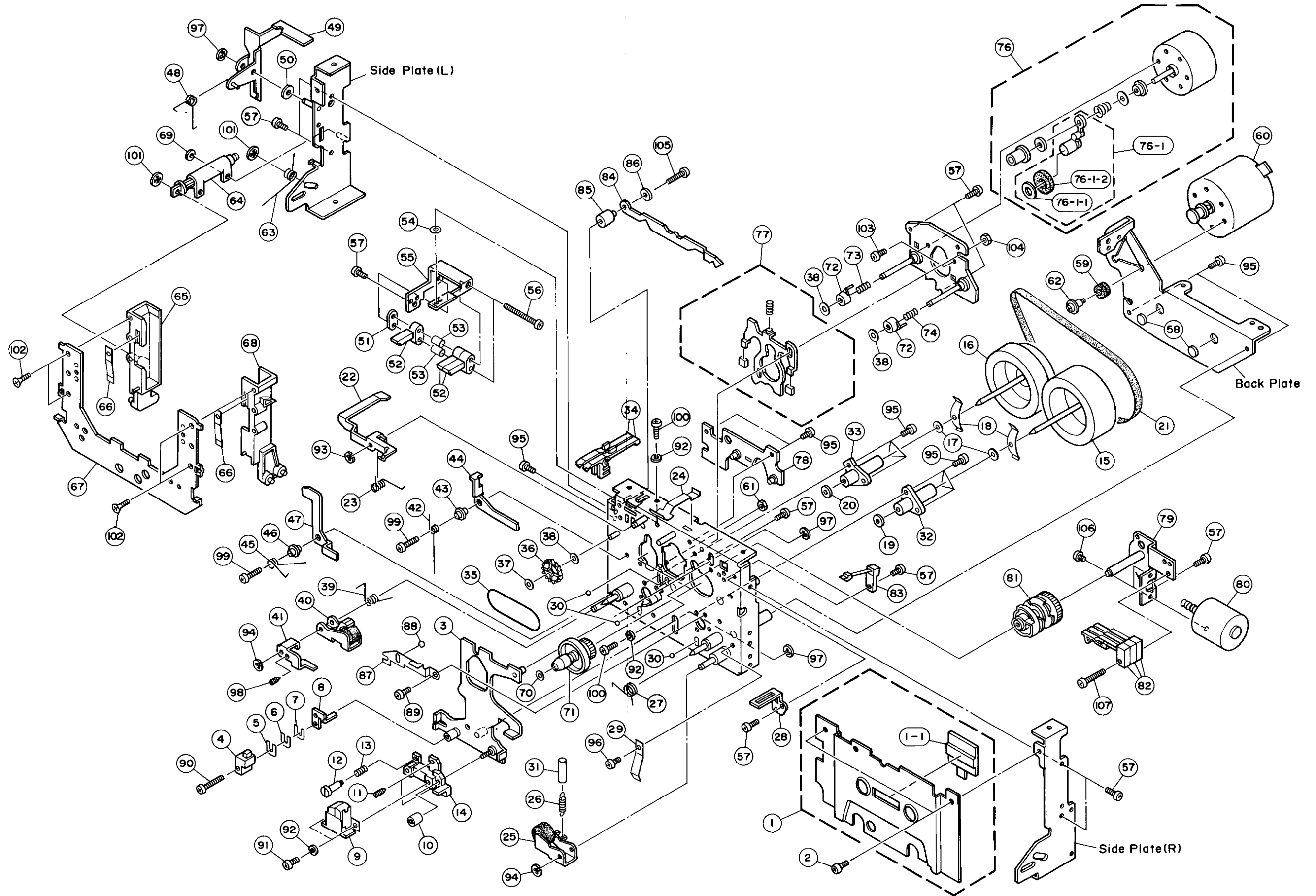
\*New Parts (新規部品) NR

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
8	MG : 00 : 14 : 50	Power Cord	10A 125V 2m 電 源 コ ー ド			C	
//	MG : 00 : 18 : 60	//	2.5A 250V 2m //			B	
9	CB : 62 : 01 : 90	Cord Stopper	CM-22B コ ー ド ス ト ッ パ ー			R, A, G, B	
//	CB : 62 : 02 : 00	//	CM-22C //			U, C	
※	VD : 07 : 33 : 00	Rear Panel	リ ア パ ネ ル			J	
※	VD : 07 : 34 : 00	//	//			R	
※	VD : 07 : 35 : 00	//	//			U, C	
※	VD : 07 : 36 : 00	//	//			A, B	
※	VD : 07 : 37 : 00	//	//			G	
11	CB : 63 : 63 : 90	Rod, Switch	ロ ッ ド, ス イ ッ チ		K-lxw		
12	CB : 63 : 42 : 60	Knob	ツ マ ミ	Silver	//		
//	CB : 63 : 42 : 70	//	//	Black	//		
13	CB : 63 : 79 : 40	//	//	Silver	//		
//	CB : 62 : 08 : 20	//	//	Black			
14	CB : 63 : 42 : 20	Push Button	プ ッ シ ュ ボ タ ン	Silver	K-lxw		
//	CB : 63 : 42 : 30	//	//	Black			
15	CB : 64 : 08 : 00	// (Red)	// (赤)		K-lxw		
16	CB : 62 : 07 : 10	Side Cover	サ イ ド カ バ ー	Silver			
//	CB : 62 : 07 : 20	//	//	Black			
17	AA : 62 : 43 : 30	Top Cover	ト ッ プ カ バ ー	Silver			
//	AA : 62 : 43 : 40	//	//	Black			
18	AA : 62 : 42 : 80	Buttom Cover	ボ ト ム カ バ ー				
19	VD : 17 : 61 : 00	Leg Ass'y	脚 Ass'y			J	
//	NB : 62 : 01 : 40	//	//			R, U, C, A, G, B	
20	CB : 64 : 11 : 80	Isolation Cover	絶 縁 カ バ ー		K-lxw		
21	VD : 39 : 93 : 00	Isolation Fiber	絶 縁 フ ァ イ バ ー				
22	CB : 62 : 38 : 70	Isolation Rubber	防 振 ゴ ム				
23	CB : 63 : 07 : 60	Damper (M)	ダ ン パ ー (M)				
24	CB : 60 : 56 : 20	Plastic Rivet	プ ラ ス チ ッ ク リ ベ ッ ト				
25	CB : 06 : 88 : 80	//	//				
26	CB : 09 : 96 : 00	//	//				
27	Ei : 33 : 00 : 66	Binding Head Tapping Screw	3×6 FCRM3-BI バ イ ン ド タ ッ ピ ン グ ネ ジ	PACK			
28	Ei : 33 : 01 : 06	//	3×10 ZMC2-BI //	PACK			
29	Ei : 32 : 60 : 86	//	2.6×8 FCRM3-BI //	PACK			
30	ED : 14 : 00 : 86	Binding Head Screw	4×8 FNM3-3g バ イ ン ド 小 ネ ジ	PACK			
31	EK : 93 : 00 : 10	BW Head Tapping Screw	3×8 ZMC2-BI B Wヘ ッ ド タ ッ ピ ン グ ネ ジ	PACK			
32	ED : 02 : 00 : 36	Binding Head Screw	2×3 ZMC2-Y バ イ ン ド 小 ネ ジ	PACK			
33	ED : 33 : 00 : 66	//	3×6 FCRM3-BI //	PACK			
	CB : 06 : 92 : 50	Binding Tie	イ ン シ ュ ロ ッ ク タ イ				
		<b>Accessories</b>	付 属 品				
	Mi : 06 : 62 : 10	Pin Cord	1.2m ピ ン コ ー ド				
※	VD : 35 : 52 : 00	Remote Control Transmitter	RS-K12 リ モ ー ト コ ン ト ロ ー ル ト ラ ン ス ミ ッ タ ー	Black			
※	VD : 35 : 51 : 00	//	RS-K12 //	Silver			
		Dry Cell	SUM-3 単 3 乾 電 池				

※New Parts (新規部品) NR



EXPLODED VIEW (Cassette Mechanism Unit)



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## MECHANISM PARTS (Cassette Mechanism Unit)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
* 1	VD:40:98:00	Mechanism Unit	メカユニット				
1	NB:62:46:40	Blind Plate Ass'y	ブラインドプレートAss'y				
1-1	iF:00:35:70	LED (Yellow)	LED (キ)				
2	Ei:32:60:46	Binding Head Tapping Screw	2.6×4 FCRM3-BI	バインドタッピングネジ	PACK		
3	XX:64:06:10	Head Base	ヘッドベースカシメ組				
* 4	XX:64:14:40	Erase Head	消去ヘッド				
5	XX:64:06:30	Spacer	t0.06	スペーサー			
6	XX:64:06:40	"	t0.03	"			
7	XX:64:06:50	"	t0.1	"			
8	XX:64:06:60	Head Plate for Erase	Eヘッド板(B)				
* 9	XX:64:14:30	R/P Combination Head	R/Pコンビヘッド				
10	XX:64:06:80	Nut	調整ナット				
11	XX:64:06:90	Screw	M2×4	止メネジ			
12	XX:64:07:00	"		軸			
13	XX:64:07:10	Coil Spring		圧縮コイルバネ			
14	XX:64:07:20	Head Block		ヘッドブロック			
15	XX:64:07:30	Flywheel	φ2.5	フライホイール			
16	XX:64:07:40	"	φ2.2	"			
17	XX:64:07:50	Washer	φ2.6×φ4.7×t0.5	ワッシャー			
18	XX:64:07:60	Spring Plate		板バネ			
19	XX:64:07:70	Plain Washer	φ2.5	座金			
20	XX:64:07:80	"	φ2.2	"			
21	XX:64:07:90	Belt, Flywheel		平ベルト			
22	XX:64:08:00	Sensor Lever		検知レバー			
23	XX:64:08:10	Coil Spring		コイルバネ			
24	XX:64:08:20	Spring Plate		カセット押入バネ			
25	XX:64:08:30	Pinch Arm Ass'y		ピンチアームAss'y			
26	XX:64:08:40	Coil Spring		引張コイルバネ			
27	XX:64:08:50	"		ネジリコイルバネ			
28	XX:64:08:60	Plate		保護板			
29	XX:64:08:70	Spring Plate		カセットバネ			
30	EZ:00:15:30	Steel Ball	φ2	スチールボール			
31	XX:64:14:20	Tube	l=19	チューブ			
32	XX:64:08:80	Stand	φ2.5	キャブスタンスタンド			
33	XX:64:08:90	"	φ2.2	"			
34	XX:64:09:00	Lever, REC		RECレバー			
35	XX:64:09:10	Belt		角ベルト			
36	XX:64:09:20	Pully Unit		プーリーユニット			
37	XX:64:03:30	Washer	φ1.8×φ3.8×t0.5	ポリスライダークワッシャー	K-720		
38	XX:64:03:60	"	φ2.1×φ4.5×t0.1	ワッシャー	"		
39	XX:64:09:30	Coil Spring		コイルバネ			
40	XX:64:09:40	Pinch Roller Ass'y		SピンチローラーAss'y			
41	XX:64:09:50	Plate, ADJ		調整板			
42	XX:64:09:60	Coil Spring		コイルバネ			
43	XX:64:09:70	Coller		カラ			
44	XX:64:09:80	Change Lever		切換レバー			
45	XX:64:09:90	Coil Spring		コイルバネ			
46	XX:64:10:00	Coller		カラ			
47	XX:64:10:10	Locked Plate		ロック板			
48	XX:64:10:20	Coil Spring		コイルバネ			
49	XX:64:10:30	Lever, Eject		解除レバー圧入組			
50	XX:64:10:40	Plain Washer	φ4.4×φ10×t0.5	平座金			
51	XX:64:10:50	Washer	4.4×10.4×1.0	ワッシャー			

\*New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
52	XX 64:10:60	Leaf Switch	リーフスイッチ				
53	XX 64:10:70	Coller	カラ				
54	XX 64:10:80	Washer	ワッシャー	φ2.7×φ5×t0.5			
55	XX 64:10:90	Plate	S W 取付板				
56	XX 64:11:00	Screw	ビス				
57	XX 62:36:50	Pan Head Screw	ナベ小ネジ	M2.5×6 ZMC2-Y			
58	XX 64:11:10	Thrust Stand	スラスト受				
59	XX 64:11:20	Cushion Rubber	ゴム座				
60	XX 64:14:10	Capstan Motor Ass'y	キャプスタンモーター組				
61	EV 10:02:66	Hexagonal Nut	六角ナット	M2.6	PACK		
62	XX 64:11:30	Screw	モーター止めネジ				
63	XX 64:11:40	Coil Spring	コイルバネ				
64	XX 64:11:50	Damper Unit	ダンパーユニット				
65	XX 64:11:60	Holder (L)	ホルダー(左)				
66	XX 64:11:70	Spring	カセットバネ				
67	XX 64:11:80	Front Plate	フロントプレート				
68	XX 64:11:90	Holder (R)	ホルダー(右)				
69	XX 64:12:00	Washer	座金	φ2.2×φ5×t0.2			
70	XX 64:12:10	"	ポリスライダワッシャー	φ1.8×φ3.2×t0.5			
71	XX 64:12:20	Reel Base Ass'y	リール台組				
72	XX 64:12:30	Spring Stand	バネ受				
73	XX 64:12:40	Coil Spring	圧縮コイルバネ				
74	XX 64:12:50	"	"				
75	XX 64:12:60	Holder, Motor	モーター取付板				
76	XX 64:14:80	Reel Motor Ass'y	リールモーターAss'y				
76-1	XX 64:12:80	Idler Lever Ass'y	アイドラレバー組				
* 76-1-1	XX 64:14:50	Washer	ポリスライダワッシャー				
* 76-1-2	XX 64:14:60	Idler	アイドラー				
77	XX 64:12:90	Lever Ass'y, Brake	ブレーキ板組				
78	XX 64:14:70	Sensor Circuit Board	センサー基板組				
79	XX 64:13:10	PAD Holder	PADホルダー				
80	XX 64:13:20	PAD Motor	PADモーター				
81	XX 64:13:30	Gear, Cum	カムギヤ				
82	XX 64:13:40	Leaf Switch	リーフスイッチ				
83	XX 64:13:50	"	"				
84	XX 64:13:60	Plate, Joint	連結板				
85	XX 64:13:70	Coller	カラ				
86	XX 64:13:80	Plain Washer	平座金	φ8×φ2.6×t1.0			
87	XX 64:13:90	Head Holder Plate	ヘッド押え板				
88	EX 60:01:30	Steel Ball	スチールボール	3φ			
89	EA 03:00:46	Pan Head Screw	ナベ小ネジ	M3×4 ZMC2-Y	PACK		
90	ED 02:01:26	Binding Head Screw	バインド小ネジ	M2×12 ZMC2-Y	PACK		
91	EA 02:00:46	Pan Head Screw	ナベ小ネジ	M2×4 ZMC2-Y	PACK		
92	EV 30:02:06	Spring Washer	スプリングワッシャー	φ2 ZMC2-Y	PACK		
93	EV 50:12:56	E-Ring	Eリング	φ2.5 FNM3-3g	PACK		
94	EV 50:12:06	"	"	φ2 FNM3-3g	PACK		
95	XX 62:36:60	Pan Head Screw	ナベ小ネジ	M2.5×5 ZMC2-Y			
96	XX 62:36:70	Truss Head Tapping Screw	トラスタッピングネジ	2×3.2 ZMC2-Y			
97	EV 50:13:06	E-Ring	Eリング	φ3 ZMC2-Y	PACK		
98	XX 64:14:00	Screw	止めネジ	M2×3			
99	EA 02:51:00	Pan Head Screw	ナベ小ネジ	M2.5×10ZMC2-Y			
100	EA 02:00:56	"	"	M2×5 ZMC2-Y	PACK		
101	EX 60:01:20	CS-Ring	C S リング	CS2.4mm			
102	EN 39:00:20	Flat Head Tapping Screw	サラスタッピングネジ	2.6×8 ZMC2-Y			
103	EA 02:60:36	Pan Head Screw	ナベ小ネジ	M2.6×3 ZMC2-Y	PACK		

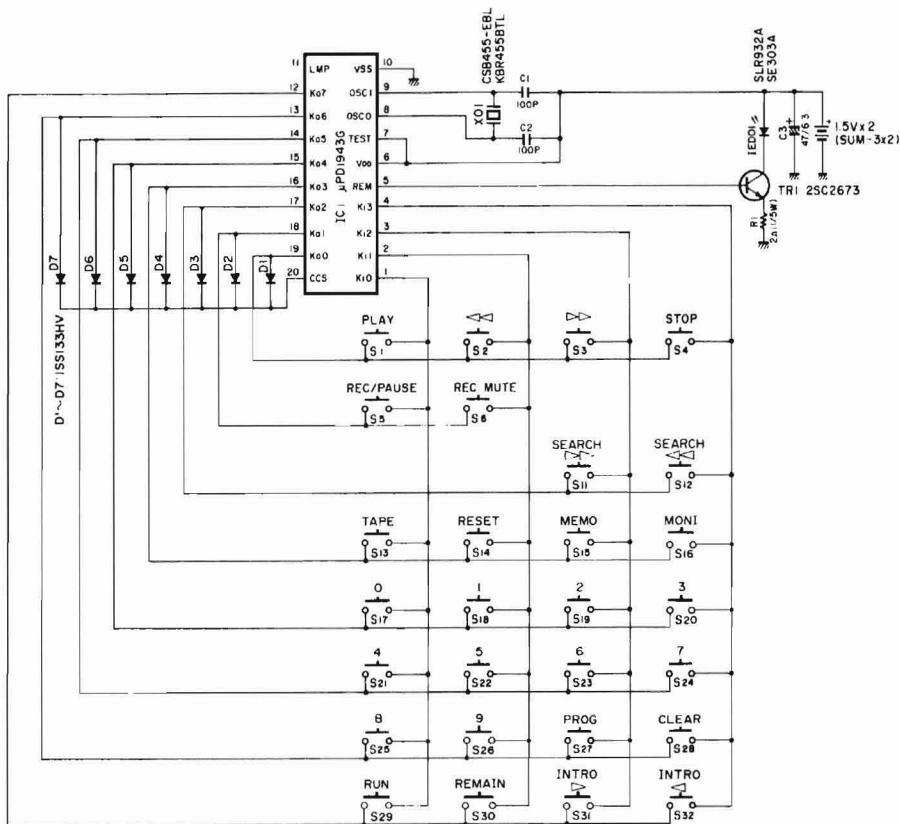
\*New Parts (新規部品)

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# RS-K12 REMOTE CONTROL TRANSMITTER

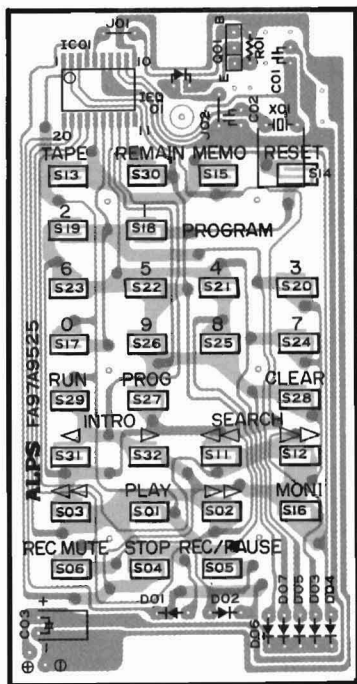
## SCHEMATIC DIAGRAM



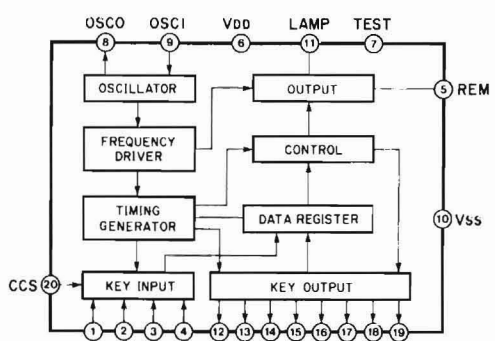
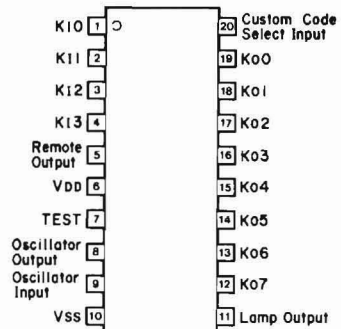
FUNCTION	DATA CODE
PLAY	00
◀◀	01
▶▶	02
STOP	03
REC/PAUSE	04
REC/MUTE	05
SEARCH▶▶	0A
SEARCH◀◀	0B
TAPE	0C
RESET	0D
MEMO	0E
MONI	0F
0	10
1	11
2	12
3	13
4	14
5	15
6	16
7	17
8	18
9	19
PROG	1A
CLEAR	1B
RUN	1C
REMAIN	1D
INTRO▶	1E
INTRO◀	1F

CUSTOM CODE
7F

## PRINTED CIRCUIT BOARD (Pattern side)



● IC1: μPD1943G

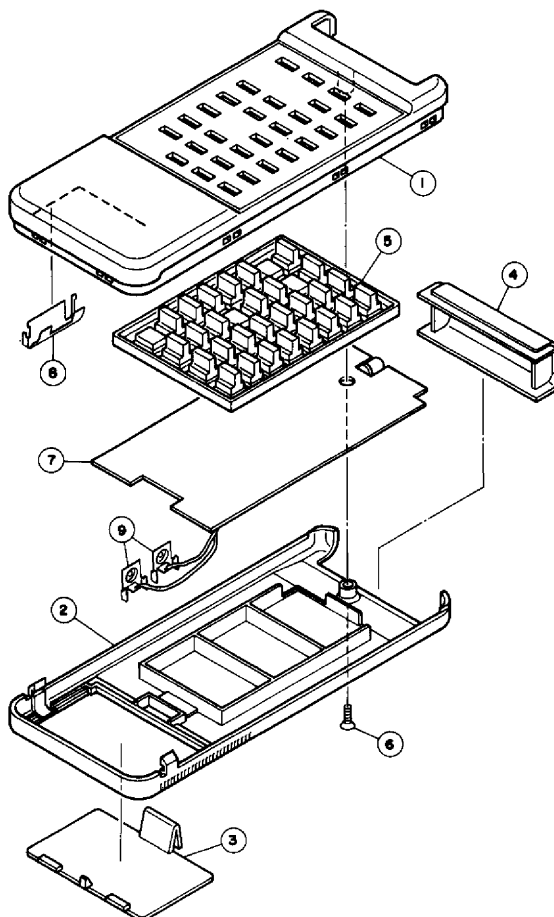


# 1 EXPLODED VIEW

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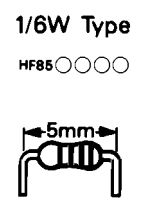
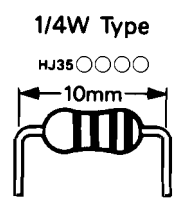


Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク
※	VD 35 52 00	Remote Control Transmitter	RS-K12	リモートコントロールトランスミッター	Black		
※	VD 35 51 00	//	//	//	Silver		
※	1 CX 60 11 60	Case (A)		ケース ( A )	Black		
※	// CX 60 11 50	//		//	Silver		
2	XX 67 16 20	Case (B)		ケース ( B )	Black		
//	XX 67 17 10	//		//	Silver		
3	XX 67 16 30	Case (C)		ケース ( C )	Black		
//	XX 67 17 20	//		//	Silver		
4	XX 67 16 40	Filter		フィルター			
※	5 CX 60 11 80	Rubber Contact		ゴム接点	Black		
※	// CX 60 11 70	//		//	Silver		
6	XX 67 16 60	Flat Head Screw		皿小ネジ	Black		
//	XX 67 17 50	//		//	Silver		
※	7 NX 60 05 60	P.C. Board Ass'y		プリント基板 Ass'y			
8	XX 67 16 80	Dry Cell Terminal (A)		電池電極板 ( A )			
※	NX 60 05 60	P.C. Board Ass'y		プリント基板 Ass'y			
	iX 60 16 00	IC	μPDI943G	I C	IC1		
	QX 60 00 40	Ceramic Resonator	KBR455BTL	セラミック振動子	X1		
	FG 21 21 00	Ceramic Cap.	100pF 50V	セラコン	C1, 2		
	UJ 11 74 70	Electrolytic Cap.	47μ 6.3V	ケミコン	C3		
	IC 26 73 00	Transistor	2SC2673	トランジスタ	Q1		
	HX 60 14 00	Carbon Resistor	2Ω 1/4W	カーボン抵抗	R1		
	iX 60 36 00	LED	SLR-932A	I E D	IED1		
	iF 00 34 50	Diode	ISS133	ダイオード	D1~7		
9	XX 67 16 90	Dry Cell Terminal (B)		電池電極板 ( B )			

※New Parts (新規部品)

# Parts List for Carbon Resistor

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	HJ353100	HF853100	12KΩ	HJ357120	HF857120
1.8 "	HJ353180	*	15 "	HJ357150	HF857150
2.2 "	HJ353220	HF853220	18 "	HJ357180	HF857180
3.3 "	HJ353330	HF853330	22 "	HJ357220	HF857220
4.7 "	HJ353470	HF853470	27 "	HJ357270	HF857270
5.6 "	HJ353560	HF853560	33 "	HJ357330	HF857330
10 "	HJ354100	HF854100	39 "	HJ357390	HF857390
15 "	HJ354150	HF854150	47 "	HJ357470	HF857470
22 "	HJ354220	HF854220	56 "	HJ357560	HF857560
27 "	HJ354270	HF854270	68 "	HJ357680	HF857680
33 "	HJ354330	HF854330	82 "	HJ357820	HF857820
39 "	HJ354390	HF854390	91 "	HJ357910	HF857910
47 "	HJ354470	HF854470	100 "	HJ358100	HF858100
56 "	HJ354560	HF854560	120 "	HJ358120	HF858120
68 "	HJ354680	HF854680	150 "	HJ358150	HF858150
82 "	HJ354820	HF854820	180 "	HJ358180	HF858180
100 "	HJ355100	HF855100	220 "	HJ358220	HF858220
110 "	HJ355110	HF855110	270 "	HJ358270	HF858270
120 "	HJ355120	HF855120	330 "	HJ358330	HF858330
150 "	HJ355150	HF855150	390 "	HJ358390	HF858390
160 "	HJ355160	*	470 "	HJ358470	HF858470
180 "	HJ355180	HF855180	560 "	HJ358560	HF858560
220 "	HJ355220	HF855220	680 "	HJ358680	HF858680
270 "	HJ355270	HF855270	820 "	HJ358820	HF858820
330 "	HJ355330	HF855330	1.0MΩ	HJ359100	HF859100
390 "	HJ355390	HF855390	1.2 "	HJ359120	*
470 "	HJ355470	HF855470	1.5 "	HJ359150	HF859150
510 "	*	HF855510	1.8 "	HJ359180	HF859180
560 "	HJ355560	HF855560	2.2 "	HJ359220	HF859220
680 "	HJ355680	HF855680	3.3 "	HJ359330	HF859330
820 "	HJ355820	HF855820	3.9 "	HJ359390	*
910 "	HJ355910	HF855910	4.7 "	HJ359470	HF859470
1.0KΩ	HJ356100	HF856100			
1.2 "	HJ356120	HF856120			
1.5 "	HJ356150	HF856150			
1.8 "	HJ356180	HF856180			
2.0 "	HJ356200	HF856200			
2.2 "	HJ356220	HF856220			
2.4 "	HJ356240	HF856240			
2.7 "	HJ356270	HF856270			
3.0 "	HJ356300	HF856300			
3.3 "	HJ356330	HF856330			
3.6 "	HJ356360	HF856360			
3.9 "	HJ356390	HF856390			
4.7 "	HJ356470	HF856470			
5.1 "	HJ356510	HF856510			
5.6 "	HJ356560	HF856560			
6.8 "	HJ356680	HF856680			
8.2 "	HJ356820	HF856820			
9.1 "	HJ356910	HF856910			
10 "	HJ357100	HF857100			



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# STEREO CASSETTE DECK

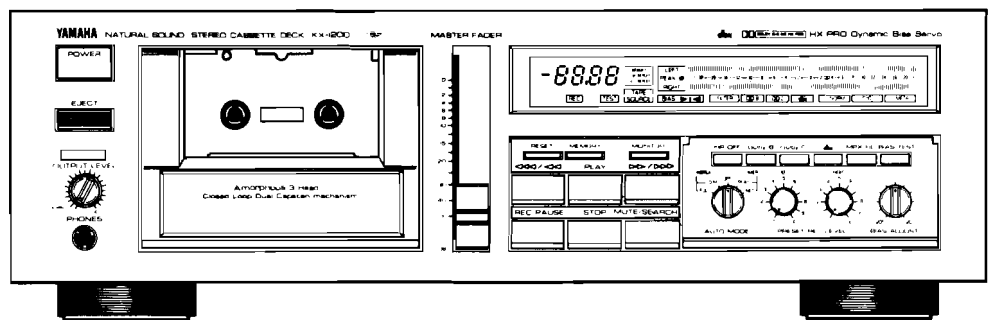
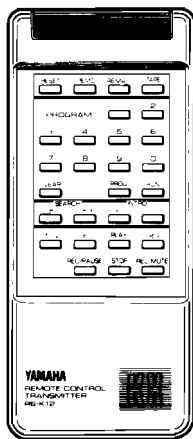
# KX-1200 Titan Color

## PARTS LIST

### ADDITIONAL PARTS LIST FOR TITAN COLOR MODEL

This additional parts list should be used in conjunction with the service manual **100136**  
 File this parts list with the service manual.

● RS-K12



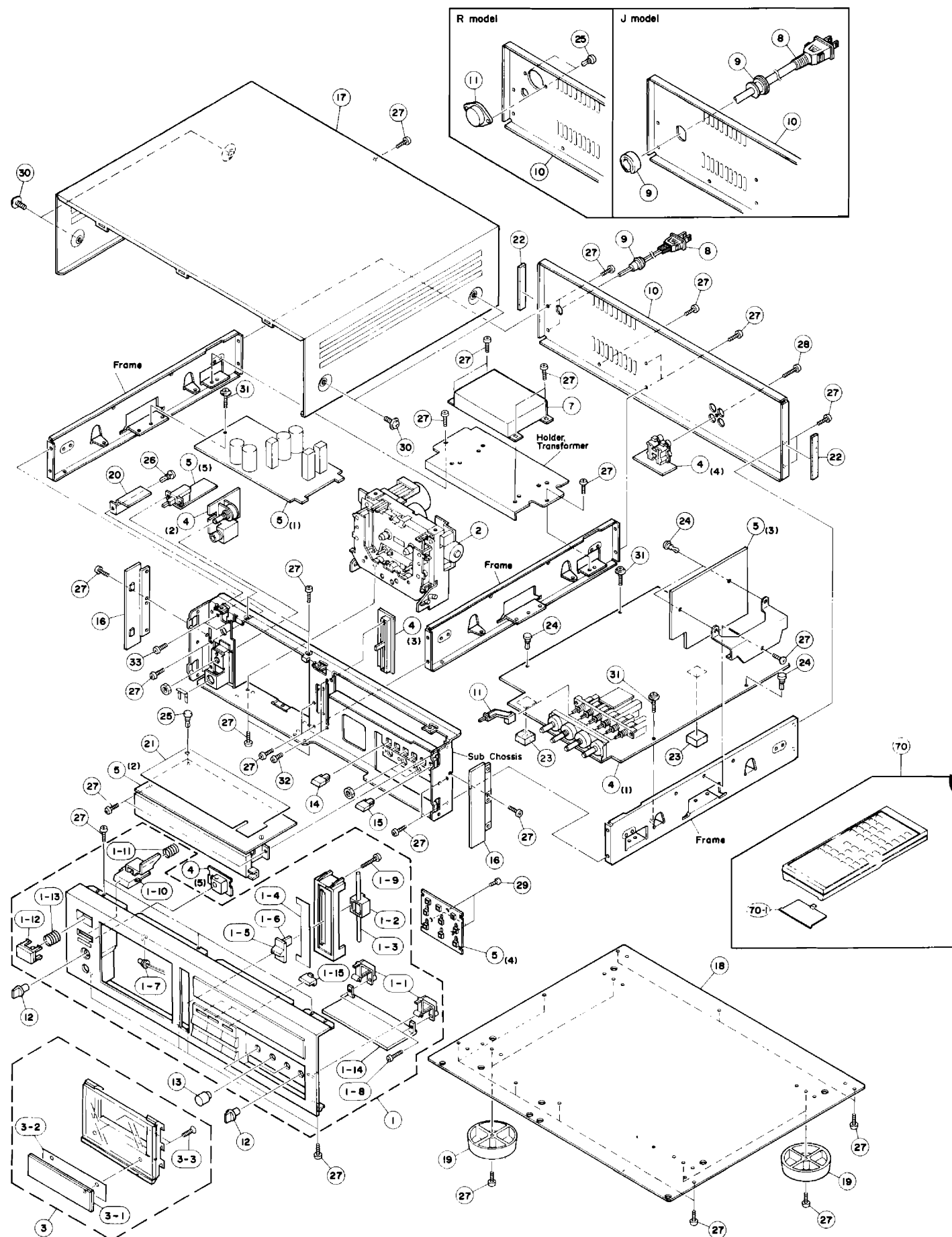
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# EXPLODED VIEW



# MECHANISM PARTS

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
1	VH462000	PANEL UNIT		パネルユニット	Titan	U,C	
1	VH462100	PANEL UNIT		パネルユニット	Titan	R,A,B,G	
1- 1	CB636420	ARM		アーム	Titan		
1- 2	CB636430	SLIDER		スライダ			
1- 3	AA619320	SHAFT/L		シャフト L			
1- 4	VF233700	PLATE/VR		VRプレート	Titan		
1- 5	VF233800	SLIDE KNOB		スライドノブ	Titan		
1- 6	AA624160	SLIDE LEVER		スライドレバー	Titan,Black		
1- 7	VF511500	LAMP	150mA 8V	ランプ	Titan		
1- 8	Ei326086	BIND HEAD TAPPING SCREW	2.6x8	FCRM3-BL	バインドBタイトネジ	PACK	
1- 9	Ei030126	BIND HEAD TAPPING SCREW	3x12	FCRM3-BL	バインドBタイトネジ	PACK	
1-10	VF232400	BUTTON,EJ		ボタンEJ	Titan		
1-11	AA624320	SPRING		スプリング			
1-12	VF232500	BUTTON (P) ASS'Y		ボタン(P)ASSY	Titan		
1-13	AA617880	SPRING		スプリング			
1-14	VF233400	POCKET PANEL		ポケットパネル	Titan		
1-15	VF232900	BUTTON,PUSH		プッシュボタン			
2	VF220700	CASSETTE MECHANISM UNIT		カセットメカユニット	Titan		
2-1	VD651100	BLIND PLATE ASS'Y		ブラインドプレート ASSY	Titan		
2-1-1	VF248800	LED	SLF-401C (AMBER)	LED	Titan		
3	VF201900	LID ASS'Y		リッドASSY	Titan		
3-1	VF234300	LID PANEL		リッドパネル	Titan		
3-3	EB330106	FLAT HEAD SCREW	3x10	FCRM3-BL	皿小ネジ	PACK	
4	VH384100	MAIN CIRCUIT BOARD		メインシート	Titan		
5	VH384200	SUB CIRCUIT BOARD		サブシート	Titan	R	
5	VH384300	SUB CIRCUIT BOARD		サブシート	Titan	U,C	
5	VH384400	SUB CIRCUIT BOARD		サブシート	Titan	A,B,G	
6	LB201480	VOLTAGE SELECTOR		電圧切替器		R	
7	XC799001	POWER TRANSFORMER		電源トランス		R	
7	XC800001	POWER TRANSFORMER		電源トランス		U,C	
7	XC801001	POWER TRANSFORMER		電源トランス		A,B	
7	XC802001	POWER TRANSFORMER		電源トランス		G	
8	MG001630	POWER CORD	6A 250V 2.0m	電源コード		R	
8	MG002270	POWER CORD	10A 125V 2.1m	電源コード		U	
8	MG000920	POWER CORD	7.5A 250V 2.5m	電源コード		A	
8	MG001620	POWER CORD	2.5A 250V 2.0m	電源コード		G	
8	MG001450	POWER CORD	10A 125V 2.0m	電源コード		C	
8	MG001880	POWER CORD	6A 250V 2.0m	電源コード		B	
9	CB620200	CORD STOPPER	CM-22C	コードストッパー		U,C	
9	CB620190	CORD STOPPER	CM-22B	コードストッパー		R,A,B,G	
10	VD073400	REAR PANEL		リヤパネル		R	
10	VD073500	REAR PANEL		リヤパネル		U,C	
10	VD073600	REAR PANEL		リヤパネル		A,B	
10	VD073700	REAR PANEL		リヤパネル		G	
11	CB636390	ROD, SWITCH		ロッド			
12	VF231400	KNOB		ノブ	Titan		
13	VF231600	KNOB		ツマミ	Titan		
14	CB634250	PUSH BUTTON		プッシュボタン	Titan		
15	VF231700	PUSH BUTTON		プッシュボタン	Titan		
16	VF231800	SIDE COVER		サイドカバー	Titan		

\*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
17	VF231900	TOP COVER		トップカバー	Titan		
18	AA624280	BOTTOM COVER		ボトムカバー			
19	VE185300	LEG		レッグ	Titan		
20	CB641180	ISOLATION COVER		絶縁カバー			
21	VD399300	ISOLATION FIBER		絶縁ファイバー			
22	CB623870	ISOLATION RUBBER		防振ゴム			
23	CB630760	DAMPER (M)		ダンパ (M)			
24	CB605620	PLASTIC RIVET		プラリベット			
25	CB068880	PLASTIC RIVET		プラリベット			
26	CB099600	PLASTIC RIVET		プラリベット			
27	Ei330066	BIND HEAD TYTE SCREW	3x6	FCRM3-BL	バインドBタイトネジ	PACK	
28	Ei330106	BIND HEAD P-TYTE SCREW	3x10	FCRM3-BL	バインドPタイトネジ	PACK	
29	Ei326086	BIND HEAD P-TYTE SCREW	2.6x8	FCRM3-BL	バインドPタイトネジ	PACK	
30	EX601150	BW HEAD S-TYTE SCREW	4x8-10	FNM3-BL	BWヘッドSタイトネジ	Titan	
31	EK930010	BW HEAD TAPPING SCREW	3x8	FCRM3-BL	BWヘッドタップネジ		
32	ED020036	BIND HEAD SCREW	2x3	ZMC2-Y	バインド小ネジ	PACK	
33	ED330066	BIND HEAD SCREW	3x6	FCRM3-BL	バインド小ネジ	PACK	
* 34	VD074100	STAY/PCB			ステイ		
* 35	CB620500	ISOLATION RUBBER			防振ゴム		
	CB069250	BINDING TIE	BK-1		束線止め		
		ACCESSORIES			付属品		
	VG718700	PIN PLUG CORD		1.0m	ピンピンコード		
* 70	VF219300	REMOTE CONTROL TRANSMITTER	RS-K10T		トランスミッター	Titan	
70-1	CX603950	CASE (C) DRY CELL	SUM-3,R06		電池蓋 乾電池	Titan	
* *	VH384100	MAIN CIRCUIT BOARD			メインシート	Titan	
	VF219800	PHONES JACK		HLJ2317	ホーンコネクタ	Titan	
* *	VH384200	SUB CIRCUIT BOARD			サブシート	Titan	R
* *	VH384300	SUB CIRCUIT BOARD			サブシート	Titan	U,C
* *	VH384400	SUB CIRCUIT BOARD			サブシート	Titan	A,B,G
	VF219700	FLUORESCENT DISPLAY	CP1084GR		蛍光表示管	V501 Titan	
* *	VE797500	FILTER FL			フィルター	Titan	