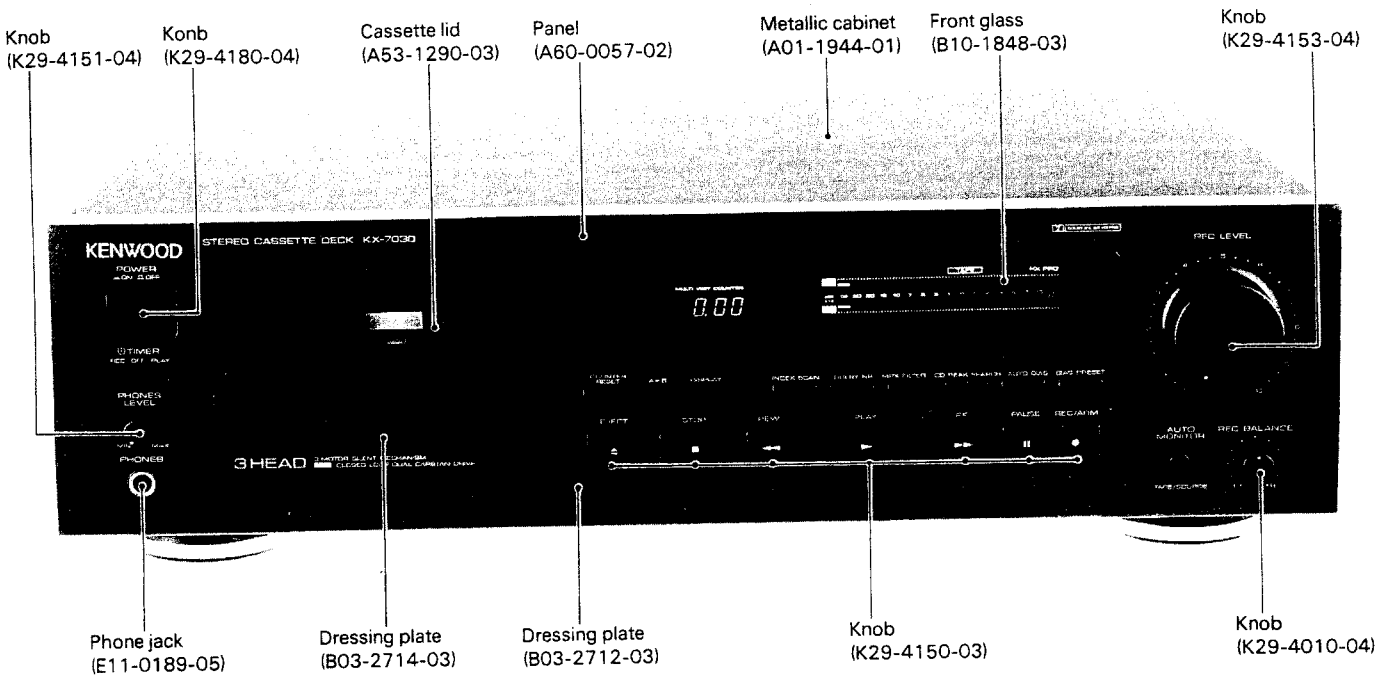
STEREO CASSETTE DECK

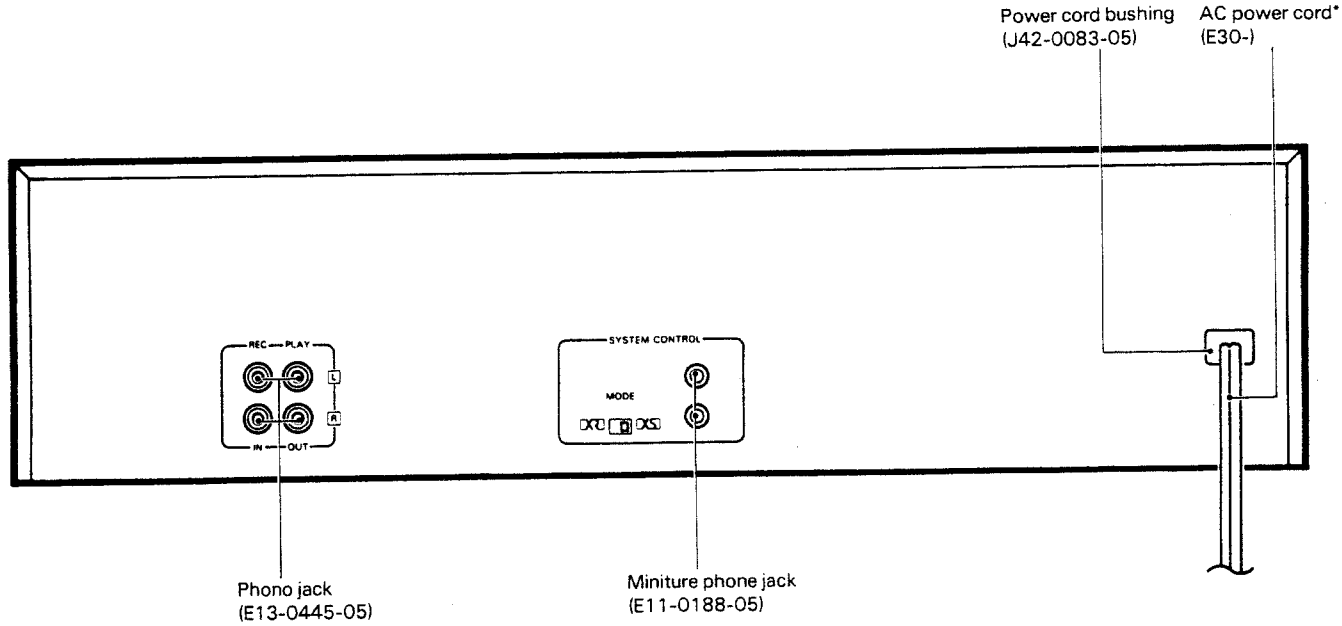
KX-7030

SERVICE MANUAL

KENWOOD

B51-4300-00(S)3545



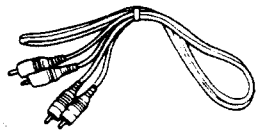


* Refer to parts list on page 39.

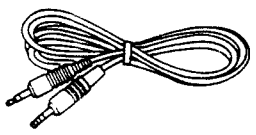
CONTENTS

Accessories

Audio cord 2
(E30-0505-05)

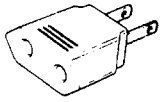


System control cord 1
(Except for the U.K. and Europe) (E30-0977-05)



AC cord 1
(Except for some areas.)
(The shape may vary depending on the destination area.)
(E30-1329-05)

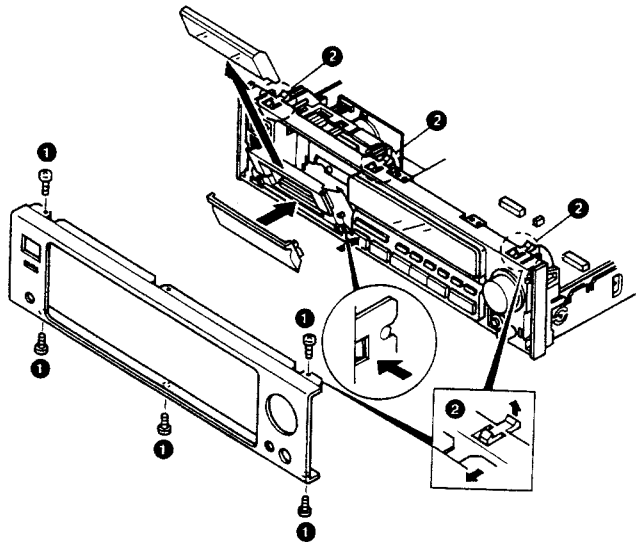
AC plug adaptor 1
(Except for some areas.)
For the unit with a European AC plug in areas other than Europe.
(E03-0115-05)



DISASSEMBLY FOR REPAIR

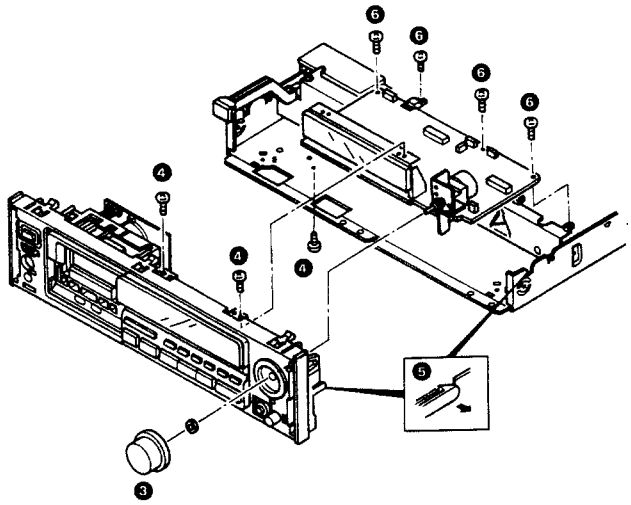
Remove the front panel

1. Remove the five screws ❶
2. Remove the three claws ❷ then remove the front panel.
3. Press the EJECT button, then detach the cassette lid from cassette holder.



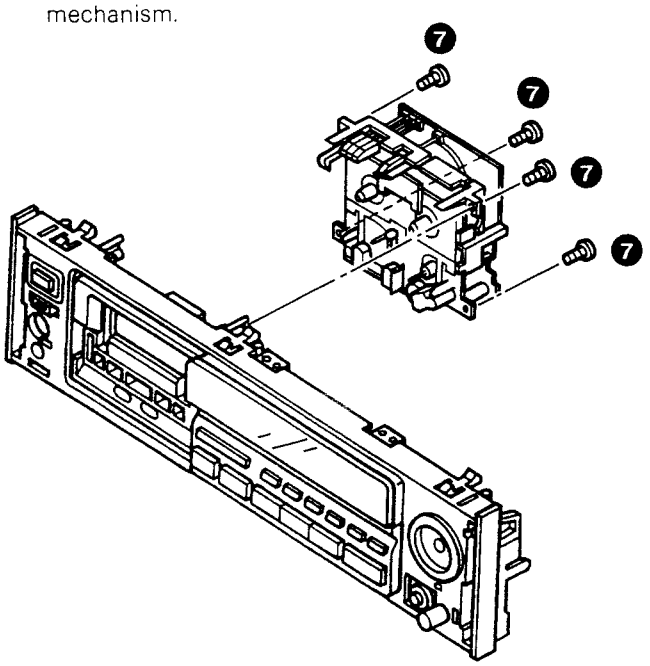
Remove the display unit.

4. Remove the knob ❸ and nut.
5. Remove the three screws and ❹ two claws ❺ then remove the sub panel.
6. Remove the four screws ❻ then remove the display unit.



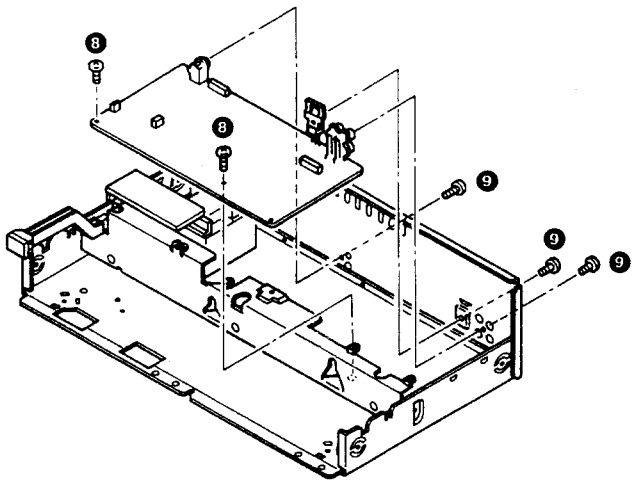
Remove the mechanism

7. Remove the four screws ❼ then remove the mechanism.

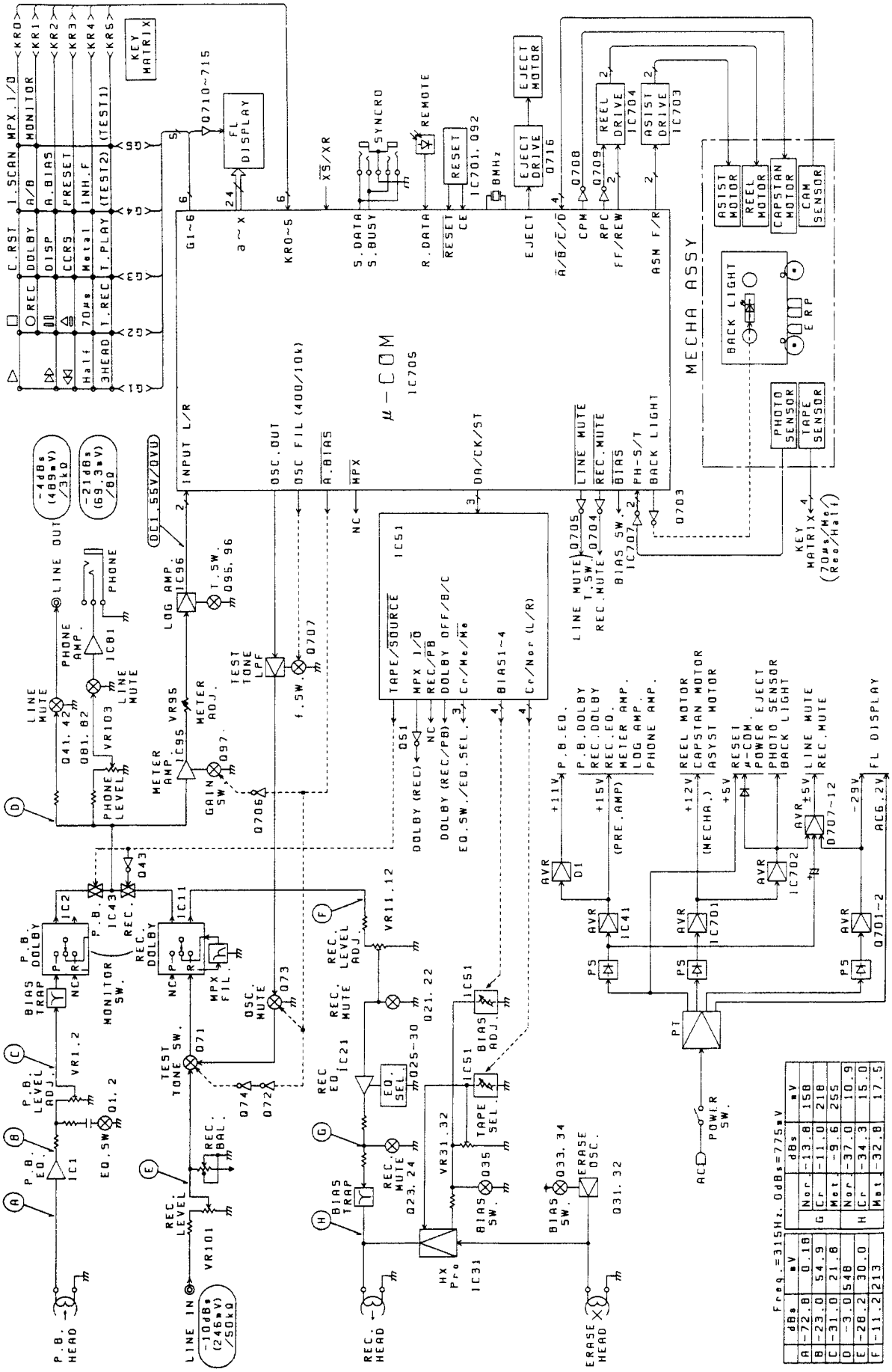


Remove the main PC board.

8. Remove the two screws ❽
9. Remove the three screws ❾ , then remove the main PC board.



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Functions of Components

Cassette unit (X26-125X-XX)

Parts No.	Parts Name	Use/Function	Operation
Q1,2	2SC1740S or 2SC3311A	Playback equalization time constant switching	Playback equalization high-range time constant switching between 120 µs and 70 µs ON: 70 µs.
Q21,22	2SD 1302	REC MUTE	Pin 13 (RM) of microprocessor IC705 goes high during recording, Q704 turns off, and Q21 and Q22 turn off.
Q23,24	2SC1740S	Playback equalization select (CrO_2)	IC51 pin 8 (CrO2) goes high for CrO2 tape, and Q23 and Q24 turn off.
Q25,26	2SC1740S	Playback equalization (METAL)	IC51 pin 10 (MET) goes high for metal tape, and Q25 and Q26 turn off.
Q27,28	2SC1740S	Playback equalization peaking	IC51 pin 11 goes high for normal and CrO2 tape, and Q27 and Q28 turn off.
Q31,32	2SD863	BIAS OSC	105 kHz is produced during recording.
Q33	2SC3246	Bias power supply	Microprocessor IC705 pin 11 (BIAS) goes low during recording, Q34 turns off, Q33 turns on, and +B is applied to OSC for E. HX.
Q34	DTC124ES	BIAS ON/OFF SW	
Q35	DTC124ES	HX slow start switch	Switch that starts HX OSC slowly during recording.
Q41,42	2SD1302	L MUTE SW	Pin 12 (LM) of microprocessor IC705 goes high during recording or playing. Q705 turns off, and Q41 and Q42 turn off.
Q43	DTC124ES	TAPE/SOURCE SELECT SWITCH	Q43 is turned on and off by IC51 pin 7 (T/S) to control IC43.
Q45	DTC124ES	POWER ON MUTE	Mutes noise when the power is switched on.
Q51	DTC124ES	MPX SW	Q51 is turned on and off by IC51 pin 22. Q51 OFF → MPX FIL ON
Q71	2SC1740S	TEST TONE SW	Controlled by IC705 pin 21 (A. BIAS). Low during A. BIAS → Q72: off, Q74: on, Q71: off Q73 turns off, and the line input turns off. The output from OSC OUT goes to Rch of IC11.
Q72	2SC1740S		
Q73	2SC1740S		
Q74	2SA130.9A		
Q704	2SA1309A	$\overline{RM}$ drive	Q704 is turned on and off by IC705 pin 13 (RM), and Q21 and Q22 are turned on and off.
Q705	2SA1309A	$\overline{LM}$ drive	Q705 is turned on and off by IC705 pin 12 (LM). Q95, Q96, Q81, Q82, Q41, and Q42 are turned on and off.
Q706	2SA.1309A	LEVEL AMP SW	Q706 is turned on by A. BIAS, Q707 is turned on, and the gain of the IC95 level amplifier is changed.
Q707	2SC3311A		
Q708	2SC3246	CM DRIVE	Q708 is turned on and off by IC705 pin 25 (CPM). The capstan motor is also turned on and off.
Q709	2SC3311A	RM SP SW	Q709 is turned on and off by IC705 pin 38 (RPC), and the reel motor speed is controlled.
Q710 ~ 715	DTC113ZS	FL DRIVE	Fluorescent display (grid) drive
Q716	2SC3246	EJECT MOTOR DRIVE	Q716 is turned on and off by IC705 pin 76 (EJECT), and the eject motor is controlled. ON: EJECT MOTOR ON.
Q718	DTA113ZS	POWER ON MUTE	When the power is switched on, Q718 is turned on to turn recording mute on.
IC1	TA8125S	PB EQ AMP	
IC11	HA1217ONT	DOLBY	Changed between OFF, B, and C by the input to pin 5. The multiplex filter is turned on and off by the input to pin 26.
IC21	NJM4565DD	REC EQ AMP	
IC31	µPC1297CA	HX-PRO	
IC41	µPC7815HF	+15V AVR	Power supply for the playback/record circuit.
IC43	TC4066BP	TAPE/MONITOR SWITCH	Controlled by IC51 pin 7 and Q43, the tape and source are switched by IC43 pins 5, 6, 12, and 13.

CIRCUIT DESCRIPTION

Parts No.	Parts Name	Use/Function	Operation
IC51	TC9164N	FUNCTION switch	See circuit description on page 10.
IC81	M5218AL	H.PHONE AMP.	
IC95	NJM4565DD	METER AMP.	
IC96	BA6138	LOG AMP.	
IC701	µPC7812HF	+12V AVR	Power supply for the mechanism
IC702	µPC7805HF	+5V AVR	Power supply for microprocessor, remote controller, and resetting
IC703	BA6209	AM DRIVE	Normal and reverse rotation is controlled by pins 2 and 10.
IC704	BA6229	RM DRIVE	Pins 2 and 10 control the direction of rotation, and the voltage at pin 4 controls the speed.
IC705	CXP82124-1036	µ-com	See circuit description on page 12.
IC707	BA10393N	Reel pulse amplifier	
			When the power is switched on, Q92 is turned on for resetting.

CIRCUIT DESCRIPTION

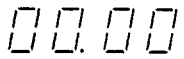
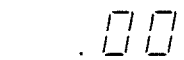
Description of Operation

Key name	Function	Display
FWD PLAY ▶	If there is a cassette in the drive, it is played back in the forward direction.	Linear counter
FF ▶▶	The tape is wound onto the right-hand reel at high speed.	Linear counter
REW ◀◀	The tape is wound onto the left-hand reel at high speed.	Linear counter
STOP ■	All operations are stopped.	Linear counter
REC/ARM ●/◆	Starts recording. If recording is in progress, ARM starts.	The REC indicator (●) lights. The indicator flashes during ARM and lights when ARM ends (▮▮●).
PAUSE ▮▮	Recording pauses (REC PAUSE) or playing pauses (PLAY PAUSE).	The PAUSE indicator (▮▮) lights.
COUNTER RESET	• Resets the linear counter to 0.00. • Maintains 0.00 while the key is held down. • Stops when this key is pressed during zero stop. • Invalid during DPSS track selection.	Linear counter
DOLBY NR.	Switches the Dolby noise reduction. OFF → B → C	OFF B DOLBY NR B C DOLBY NR C
DISPLAY	Switches display.	All display → Counter only (The operation from the counter is automatical-ly performed if another key is pressed.)
CD peak search	• CD peak search start CD high-speed sampling	REC PAUSE indicator
MPX FILTER	MPX FILTER ON/OFF	The MPX indicator lights or goes off.
A/B REPEAT	Playback the part between A and B. (Effective only during playback) When the key is first pressed, point A is memorized; when the key is pressed again, point B is memorized. When REWIND is pressed, playback starts from point A, and is repeated 16 times. • If another key is pressed, the A-B repeat is cancelled. After the specified part has been played back 16 times, normal playback returns. It must take at least 10 seconds from point A to point B.	Repeat A ▸ B Counter indicator 0.01 Number of playbacks
AUTO BIAS	Auto bias on/off key	AUTO BIAS flashes. → Lights.
BIAS PRESET	1. AUTO BIAS on: The current optimum bias value is stored in memory. 2. AUTO BIAS off: The optimum bias value is recalled from memory.	1. AUTO BIAS → BIAS PRESET Flash → Light 2. BIAS PRESET Flash → Light

DPSS mode

Name	Key operation	Description
INDEX SCAN	INDEX SCAN key Counter indicator 0.01 Number of playbacks	The beginning of each track is played for about 10 seconds.
Zero stop	FF + STOP REW + STOP	Stop when the counter reaches 0.00.

CIRCUIT DESCRIPTION

Name	Key operation	Description (The description in parentheses is for reverse playback.)
Fast forward search (skip track selection)	Press the FF key during forward playback. Counter indicator  Number of key presses: Number of tracks	• Skips forward (relative to the playback direction) the number of tracks (up to 16) equivalent to the number of times the FF key is pressed. • If the the FF is pressed during fast forward search, the number of times the key is pressed is added to the number of tracks to be skipped.
Rewind search (skip track selection)	Press the REW key during forward playback.	• Skips backward (relative to the playback direction) the number of tracks (up to 16, including the current track) equivalent to the number of times the REW key is pressed. • If the REW key is pressed during rewind search, the number of times the key is pressed is added to the number of tracks to be skipped.
One-track repeat	Press the PLAY key again during playback, or press the PLAY key twice during an operation other than playback. Counter indicator  Number of playbacks	• The current track is played 16 times, the normal playback returns. • If the PLAY key is pressed again while a track is being repeated, the track is repeated 16 times from that time.
Rewind play	Press the REW and FWD PLAY keys together.	• When the REW and FWD PLAY keys are pressed together, the tape is rewound to its end (RWD), and then a fast forward search is done on the forward side. When the first track is detected, playback starts. If the FF and RVS PLAY keys are pressed together, the tape is fast-forwarded to its end, then a fast forward search is done on the reverse side (B).
Dash & Play	Press the FF and REW keys together. • One-side full repeat for undirectional models Counter indicator  Number of playbacks	• Plays back in the current tape direction. • Cues and searches for the next track if a blank section continues for ten seconds during playback. If a track is found, it is played back.
Rerec standby	Press the REW key during forward recording.	• If the end of a previous track is found by reviewing (RVW), the tape is stopped two seconds before the end.
Auto rec mute	Press the REC key during normal recording.	Turn REC MUTE on for four seconds, record, and then record pause.

CIRCUIT DESCRIPTION

Auto-bias operation

- The deck must be stopped and contain a tape that can be recorded on.

1) Bias select

- Feed unrecorded tape for ten seconds to skip the leader tape.
  Changing the bias values in order, starting with the largest, record 400-Hz and 10-kHz signals alternately, and monitor them at the same time. The point where 10 kHz (level) ≧ 400 Hz (level) is the optimum value, and is stored in memory and output.

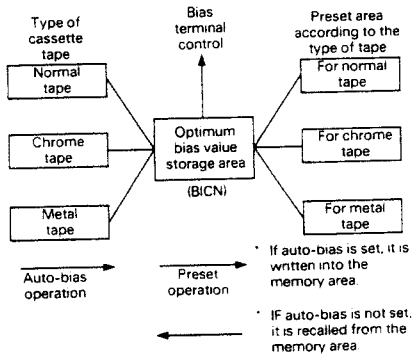
2 HEAD

Feed	REC	RWD	PLAY	RWD
10 sec	16 sec	2 sec	16 sec	2 sec

2) Bias preset

When the auto-bias operation is performed, the optimum bias value is stored in the current memory area (BICN).

(a) Since there is only one area regardless of the type of tape, if the auto-bias is set and the type of tape is changed, the optimum bias value will be wrong. So the auto-bias needs to be set again or a preset value needs to be recalled.



(b) A preset value is recalled to solve the problem described in (a).
The preset condition is backed up and is not erased by switching the power on or off. If presetting is turned on, the optimum bias value for the type of tape is always recalled from the preset area. So recording can be always done with the optimum bias value when the tape is changed or timer recording takes place.

4. Operation canceling

(a) If auto-bias is set and the AUTO BIAS key is pressed, the previous optimum bias value is cleared, and the initial setting (center value) is recalled.

(b) If bias preset is off, and the BIAS PRESET key is pressed, the initial setting is recalled.

Test mode

1. Test mode setting
Short pin 3 to pin 4 with a diode, and switch the power on.

2. Test mode cancel
The test mode is exited when the PAUSE KEY is pressed.

3. Test mode

(1) **All indicators on**: All indicators light 500 ms after the power is switched on, and stay on for about 1.5 seconds. When all the indicators go off, key inputs are accepted.

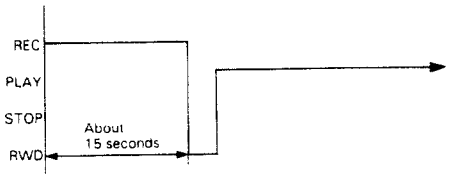
(2) **Mechanical switch display**: The condition of each mechanical switch is desplayed on the level meter section when LINE MUTE is on.

R.REC INH	CrO_2	METAL	F.REC INH
+1 dB	+3 dB	+7 dB	+12 dB

(3) **Direct change**: Playback is changed directly to recording.

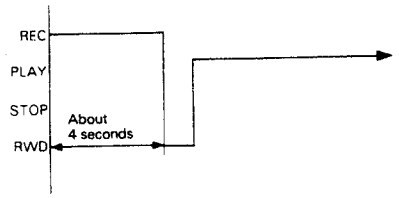
(4) **Timer play**: When the timer switch is set to PLAY, playback starts in the shortest possible time (about two seconds).

(5) **Timer recording**: When the timer switch is set to REC, recording and playback take place automatically as shown in the following timing chart.



(6) **CCRS**: When the CCRS key is pressed, serial code "CCRS start" is output, then REC PAUSE is made effective.

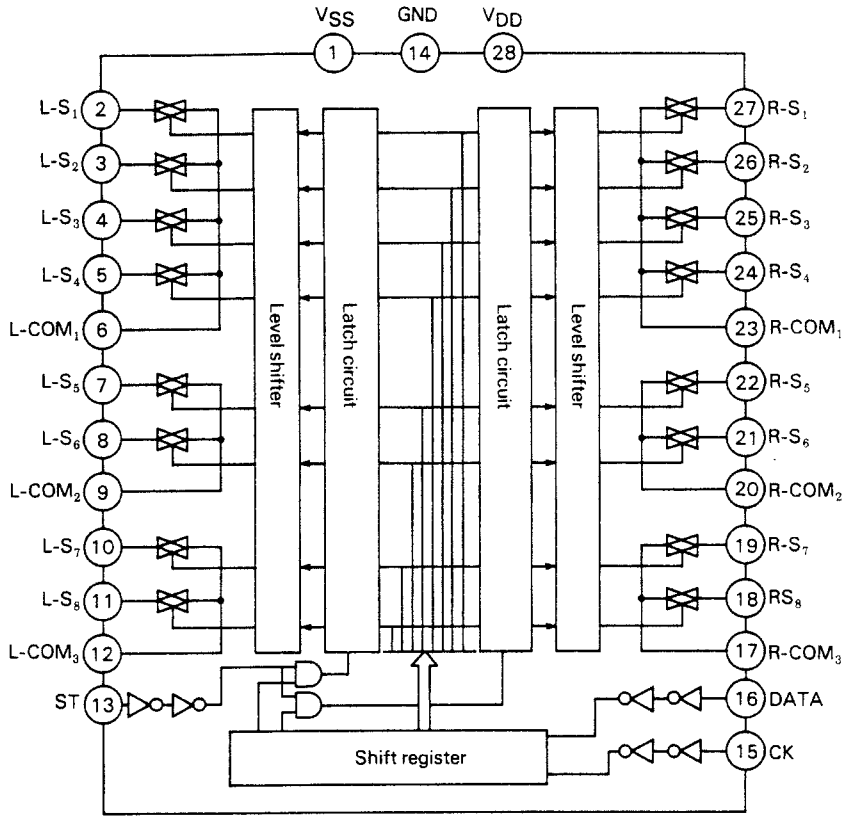
(7) **Four-second recording**: When the REC key is pressed, recording is done for four seconds, then the recorded part is played back from the beginning.



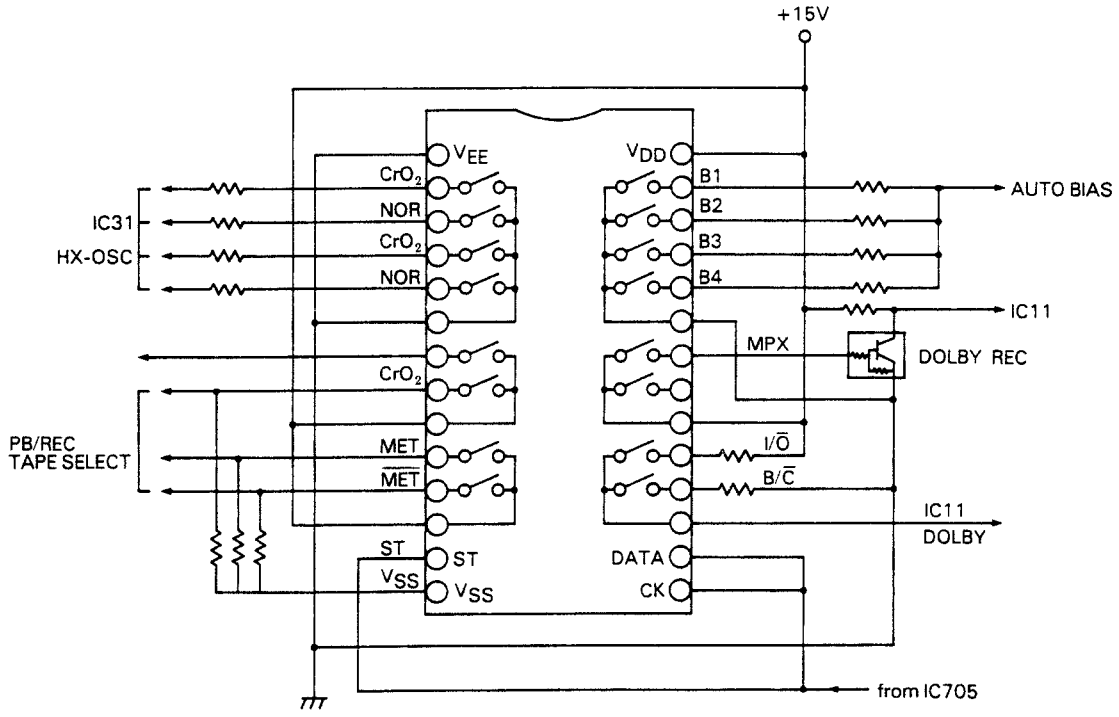
CIRCUIT DESCRIPTION

Analog function switch array IC (TC9164N)

Block diagram



Pin connection

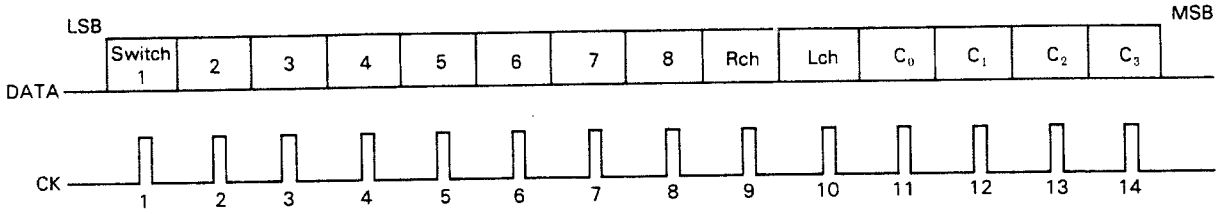


CIRCUIT DESCRIPTION

Description of Operation

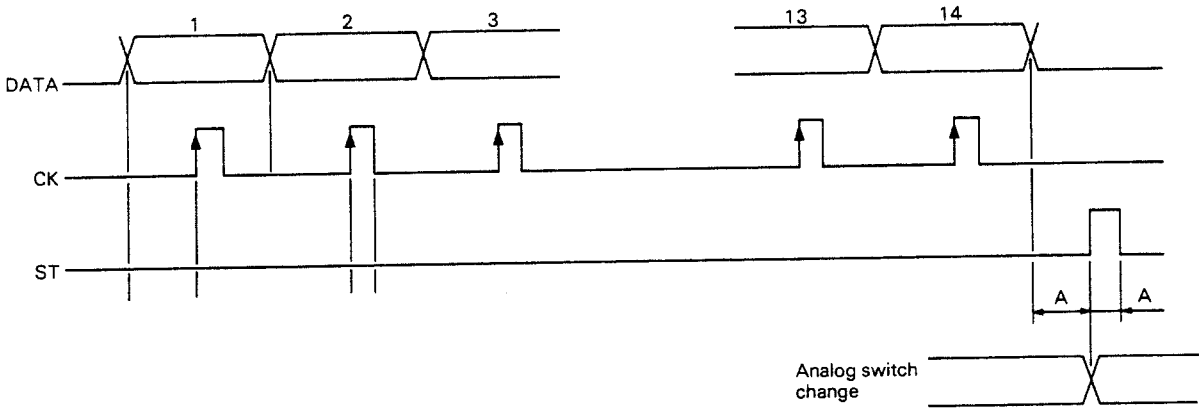
Data input

The TC9164N can control each analog switch by supplying appropriate data to the DATA, CK, and ST pins.
Data consists of 14 bits, as follows:



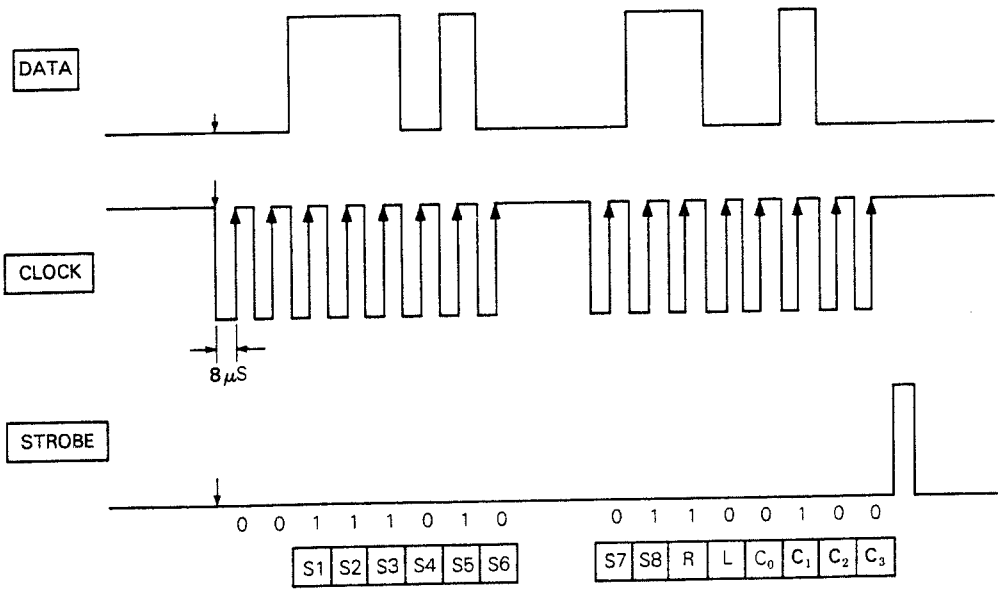
Bits 1 to 8 correspond to analog switches 1 to 8. Set the bit corresponding to the switch to be turned on to 1.
Bits 9 and 10 specify the right or left channel.
Bits 11 to 14 are code bits used to select chips. (0100 for the TC9164)

Data input to DATA is input to the internal shift register on the rising edge of the CK input signal. The input data is finally transferred to the latch circuit from the shift register with the ST signal, and the old data is replaced by the new.



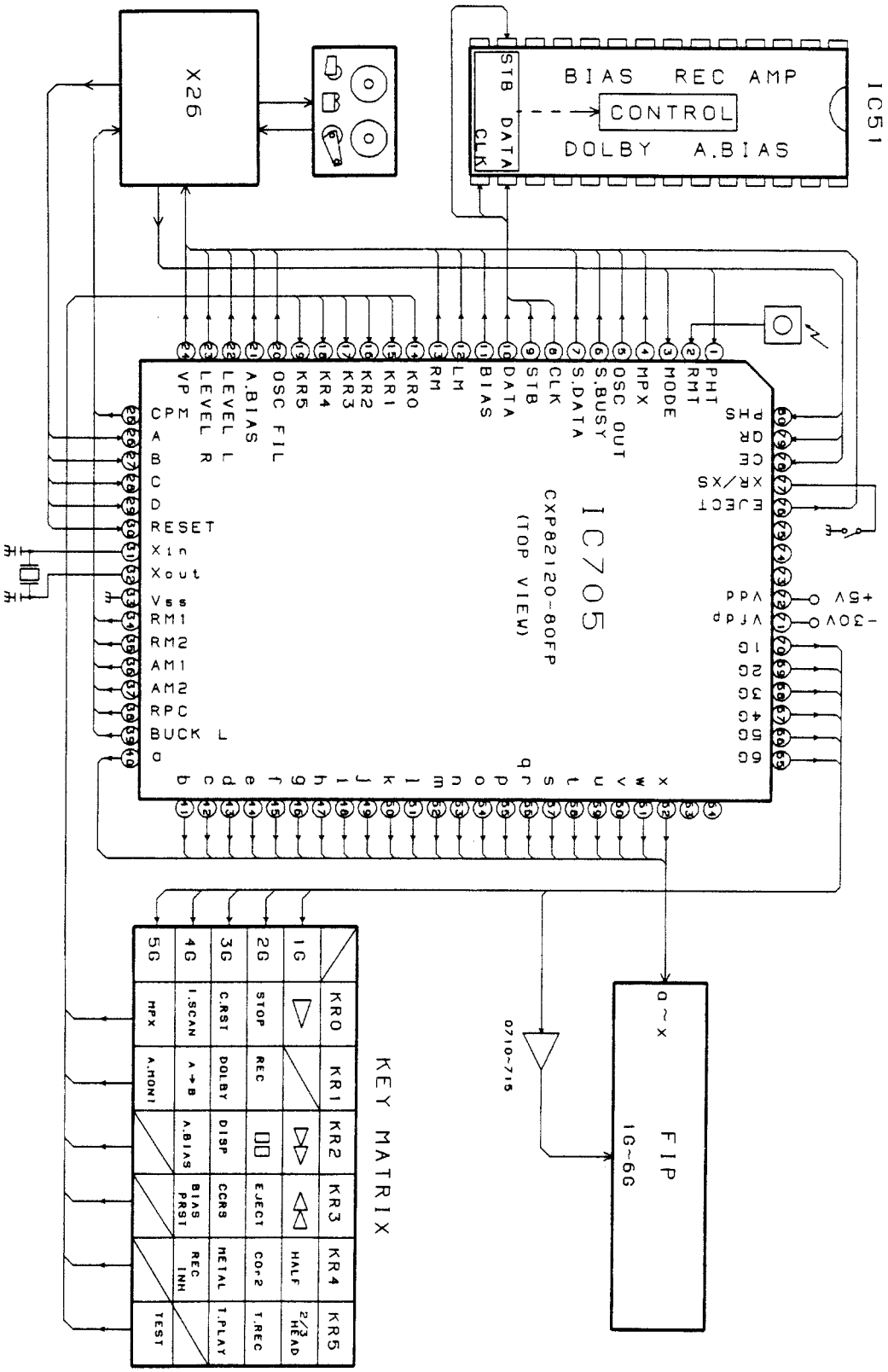
Example of transfer timing chart

The above clock waveform is for 16 bits, but the first two bits are invalid. In this example, the R side of SW1, SW2, SW3, SW5, and SW8 conducts.



CIRCUIT DESCRIPTION

CXP8210-80FP



CIRCUIT DESCRIPTION

Pin Description

Pin No.	Pin name	I/O	Name	Description
1	PE3/INT3	I	PHOTO IN T.	Photosensor takeup side
2	PE4/RMC	I	REMO IN.	Remote control signal input pin
3	PE5	I	M. MODE	Mechanism operation mode identification — H: KX-7030, L: OTHER
4	PE6	O	$\overline{MIX}$	MPX FILTER ON/OFF — H: OFF, L: ON
5	PE7/TO	O	DSCOUT	Internal oscillator output pin for auto-bias 400 Hz or 10 kHz
6	PB0/CINT	I/O	SBUSY	Synchronizing pin for external equipment
7	PB1/$\overline{CS0}$	I/O	S.DATA	Synchronizing pin for external equipment
8	PB2/$\overline{SCK0}$	O	CLK	Selector IC drive pin
9	PB3/SI0	O	ST	Selector IC drive pin
10	PB4/SO0	O	DATA	Selector IC drive pin
11	PB5/$\overline{SCK1}$	O	$\overline{BIAS}$	Bias generation on/off during recording — H: OFF, L: ON
12	PB6/SI1	O	$\overline{LINE\ MUTE}$	Line mute
13	PB7/SO1	O	$\overline{REC\ MUTE}$	Rec mute
14	PC0/KR0	I	KR0	Key return
15	PC1/KR1	I	KR1	Key return
16	PC2/KR2	I	KR2	Key return
17	PC3/KR3	I	KR3	Key return
18	PC4/KR4	I	KR4	Key return
19	PC5/KR5	I	KR5	Key return
20	PC6/KR6	O	OSC FILTER	Switching filters for internal oscillation — H: Line, L: Internal
21	PC7/KR7	O	$\overline{A.\ BIAS}$	Switching input for auto-bias — H: Line, L: Internal
22	PA0/AN0	I	LEVEL Lch	Level input pin Lch
23	PA1/AN1	I	LVEL Rch	Level input pin Rch
24	PA2/AN2	I	VOL POSITION	
25	PA3/AN3	O	Sankyo mechanism CPM	Capstan motor control
26	PA4/AN4	I	ROTARY SW $\overline{A}$	Cam position detection switch for Sankyo mechanism
27	PA5/AN5	I	$\overline{B}$	Cam position detection switch for Sankyo mechanism
28	PA6/AN6	I	$\overline{C}$	Cam position detection switch for Sankyo mechanism
29	PA7/AN7	I	$\overline{D}$	Cam position detection switch for Sankyo mechanism
30	$\overline{RST}$	I		Reset input pin
31	EXTAL	I		Oscillator connection pin 8.0 kHz
32	XTAL	O		Oscillator connection pin
33	Vss			Power connection pin
34	PD0/S0	O	FF	Reel motor control
35	PD1/S1	O	REW	Reel motor control
36	PD2/S2	O	ASM1	Assist motor control
37	PD3/S3	O	ASM2	Assist motor control
38	PD4/S4	O	RPC	Reel motor speed control — H: PLAY, L: Other
39	PD5/S5	O	VOLLED	

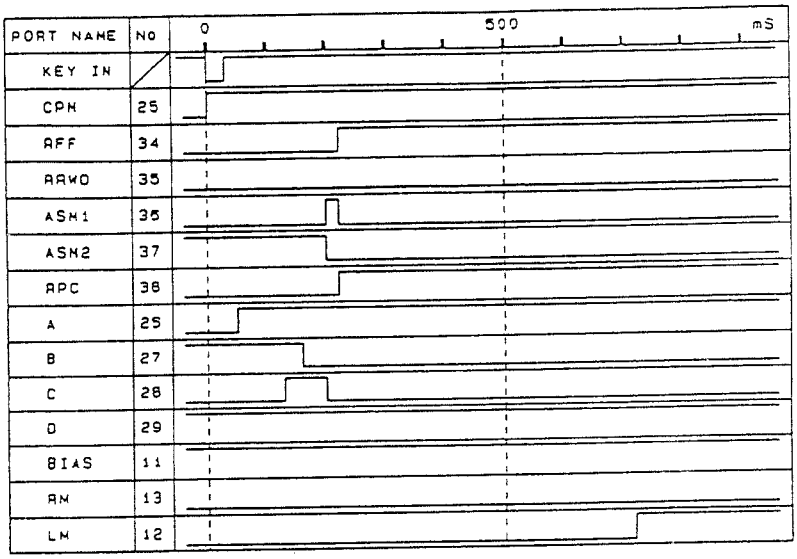
CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Name	Description
40	PD6/S6	O	a	Segment drive pin
41	PD7/S7	O	b	Segment drive pin
42	PD8/S8	O	c	Segment drive pin
43	PF1/S9	O	d	Segment drive pin
44	PF2/S10	O	e	Segment drive pin
45	PF3/S11	O	f	Segment drive pin
46	PF4/S12	O	g	Segment drive pin
47	PF5/S13	O	h	Segment drive pin
48	PF6/S14	O	i	Segment drive pin
49	PF7/S15	O	j	Segment drive pin
50	S16	O	k	Segment drive pin
51	S17	O	l	Segment drive pin
52	S18	O	m	Segment drive pin
53	S19	O	n	Segment drive pin
54	S20	O	o	Segment drive pin
55	T15/S21	O	p	Segment drive pin
56	T14/S22	O	q.r	Segment drive pin
57	T13/S23	O	s	Segment drive pin
58	T12/S24	O	t	Segment drive pin
59	T11/S25	O	u	Segment drive pin
60	T10/S26	O	v	Segment drive pin
61	T9/S27	O	w	Segment drive pin
62	T8/S28	O	x	Segment drive pin
63	T7	O		Unused pin
64	T6	O		
65	T5	O	6G	Grid drive pin/Scanning for key reading
66	T4	O	5G	Grid drive pin/Scanning for key reading
67	T3	O	4G	Grid drive pin/Scanning for key reading
68	T2	O	3G	Grid drive pin/Scanning for key reading
69	T1	O	2G	Grid drive pin/Scanning for key reading
70	T0	O	1G	Grid drive pin/Scanning for key reading
71	V_{FDP}			Pulldown power supply for fluorescent display tube drive pin (about –30 V)
72	V_{DD}			Power supply pin +5V
73	$N_{C/VPP}$			NC
74	PG0	O	MOTORVOL UP	
75	PG1	O	MOTORVOL DOWN	
76	PG2	O	EJECT	Eject motor drive pin
77	PG3	I	SINCRO MODE	Synchronizing mode setting pin H: XR L: XS
78	PE8/INT0	I	$\overline{CE}$	Backup detection pin H: normal L: Backup
79	PE1/INT1	I	QUICK REVERSE	Quick-reverse detection pin
80	PE2/INT2	I	PHOTO nj S.	Photosensor supply side

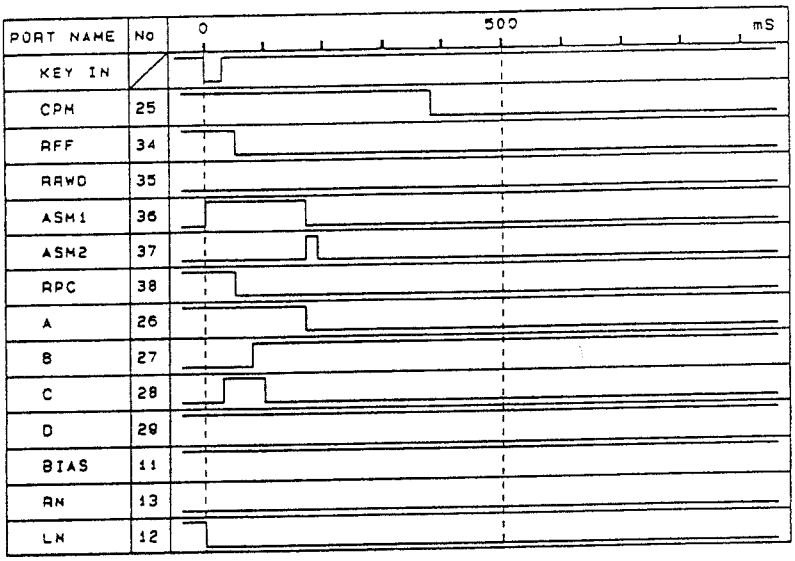
CIRCUIT DESCRIPTION

TIMING CHART

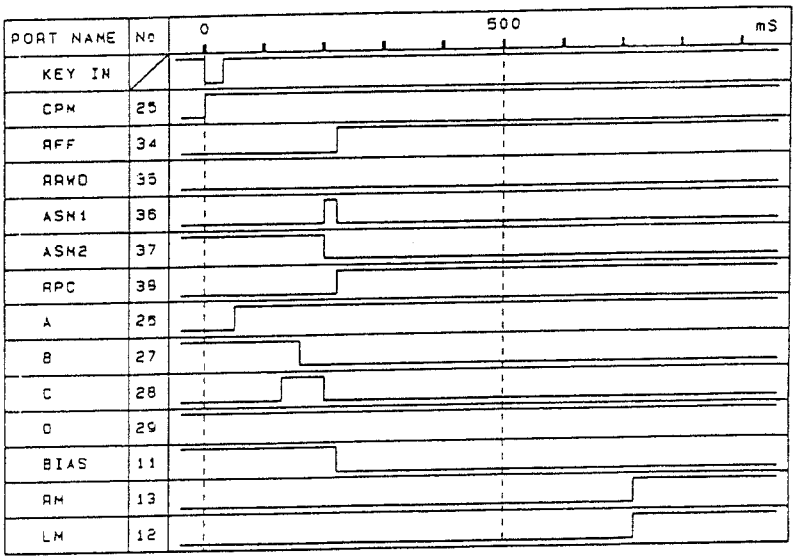
STOP TO PLAY



PLAY TO STOP

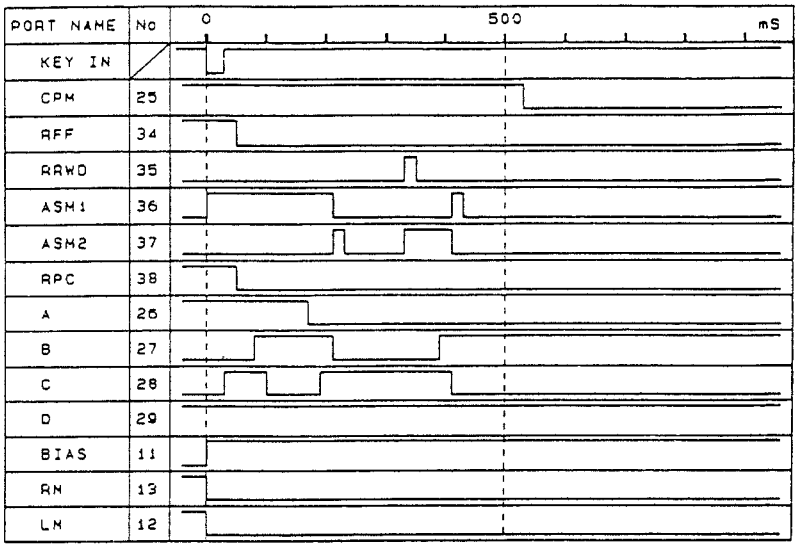


STOP TO REC

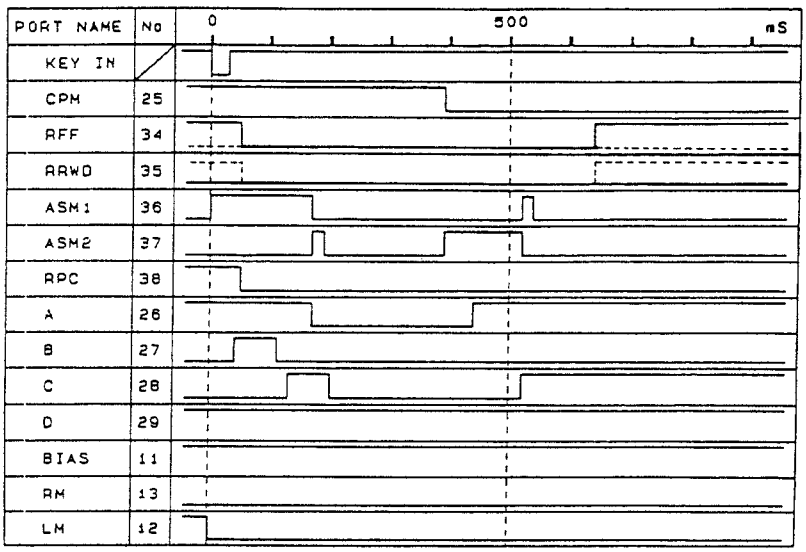


CIRCUIT DESCRIPTION

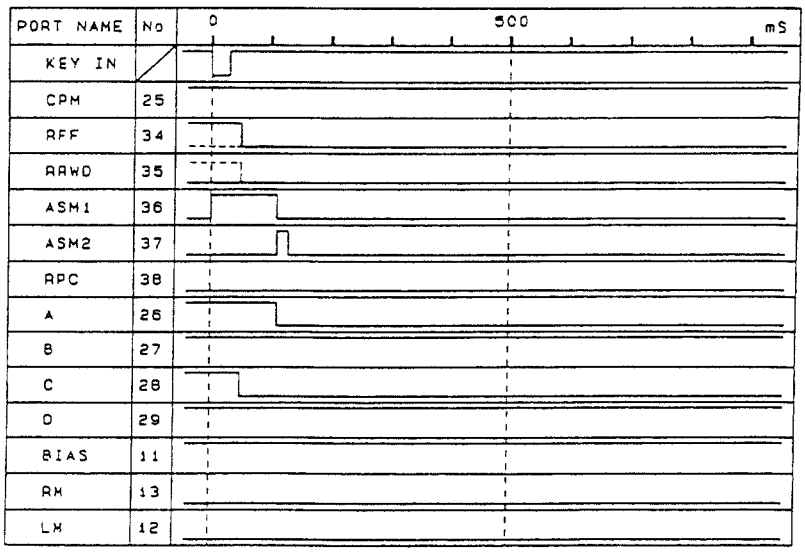
REC TO STOP



PLAY TO CUE/RVW (---)

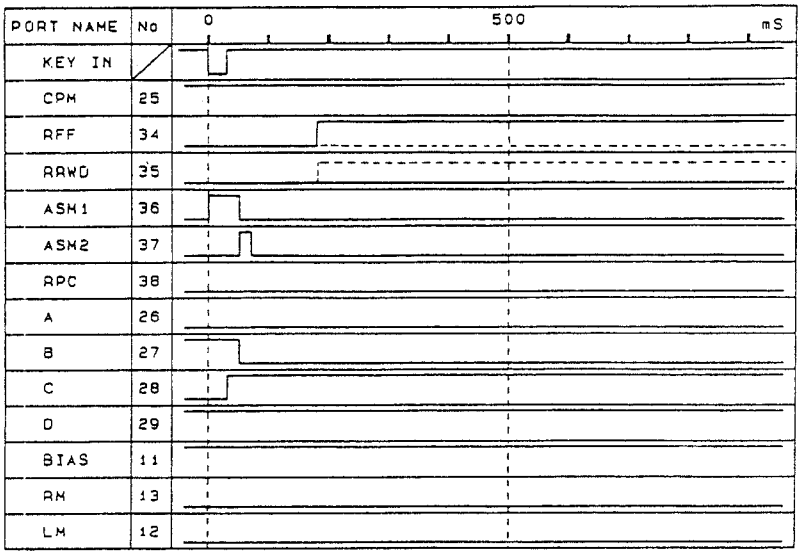


CUE/RVW TO STOP

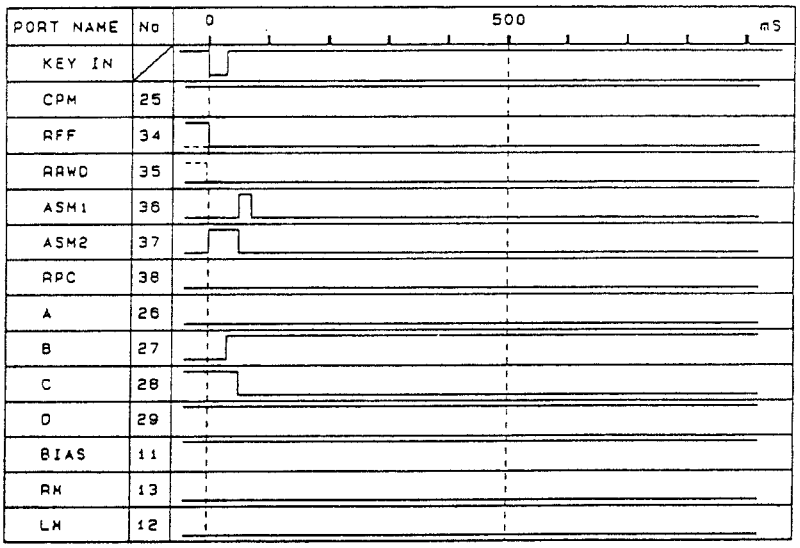


CIRCUIT DESCRIPTION

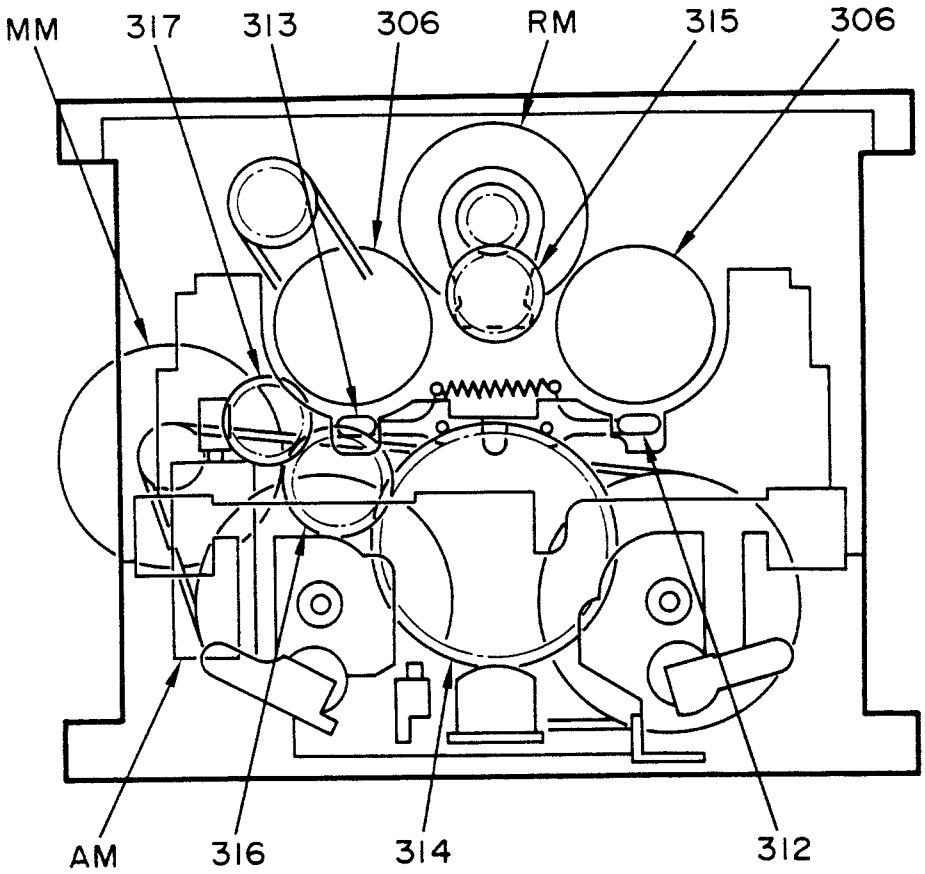
STOP TO FF/RWD (---)



FF/RWD TO STOP



MECHANISM DESCRIPTION



Mechanism specification

Use of parts

MM	T42-0560-08	DC MOTOR ASSY (CAPSTAN)
RM	T42-0592-08	DC MOTOR ASSY
AM	T42-0593-08	DC MOTOR ASSY
BM	D16-0299-08	MAIN BELT
BR	D16-0325-08	BELT

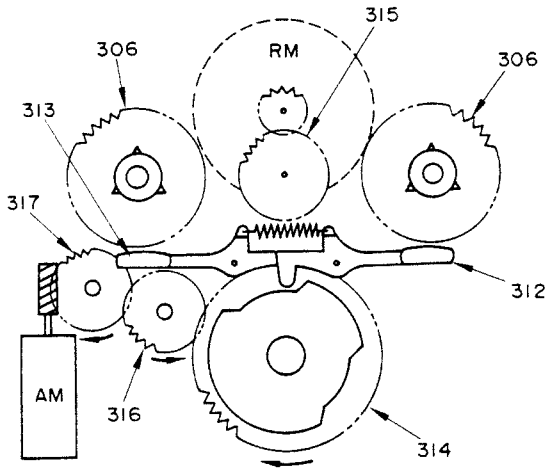
PLAY Torque: 35 ~ 55 g·cm
FF/RWD Torque: 70 ~ 160 g·cm
Back Tension Torque: 2 ~ 5 g·cm

MECHANISM DESCRIPTION

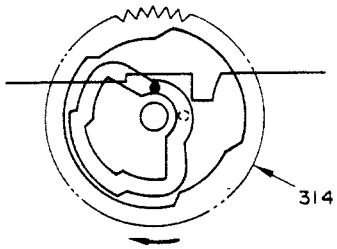
Description of Operation

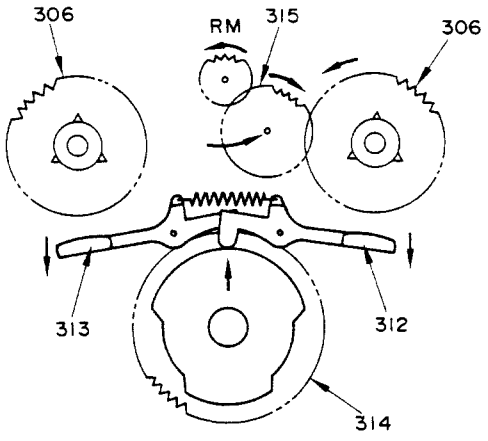
Playback/Record

1. The assist motor runs.
2. Relay gears A and B turn the cam gear in the direction of the arrow, raising the boss on the head chassis. The pinch roller is pressed against the capstan.
3. In the PLAY position, the reel brake is released by the cam on the cam gear.
4. The reel motor runs in the direction of the arrow, and the idler gear starts turning the takeup reel in the direction of the arrow to start playback/recording.
   Playback/record → STOP
   The assist motor runs, and the operations up to playback/record are reversed.

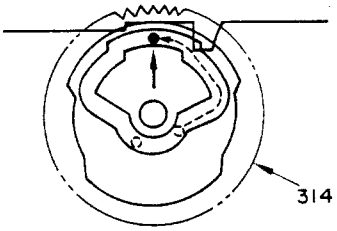


STOP





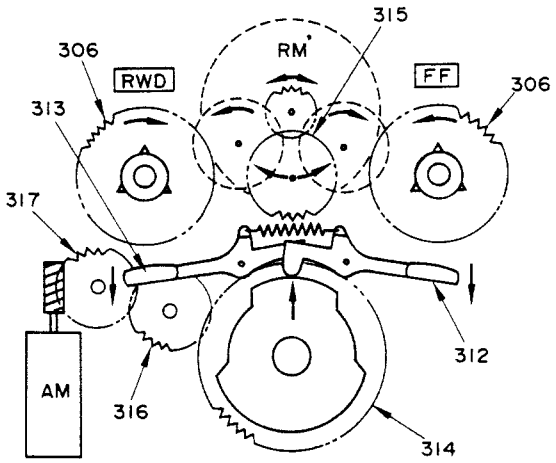
PLAY/REC

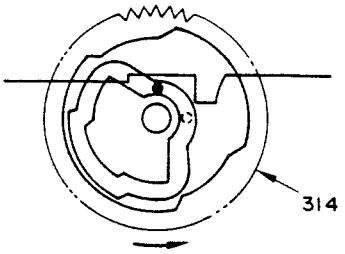


MECHANISM DESCRIPTION

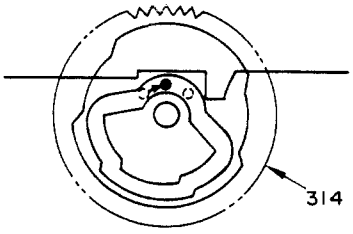
Fast forward/rewind

1. The assist motor rotates the cam gear, and the brake assembly is disengaged from the takeup and supply reels. The head chassis is not lifted, and the pinch roller and head do not contact the tape.
2. The reel motor starts running in the fast forward or rewind directions to wind the tape forward or in reverse.





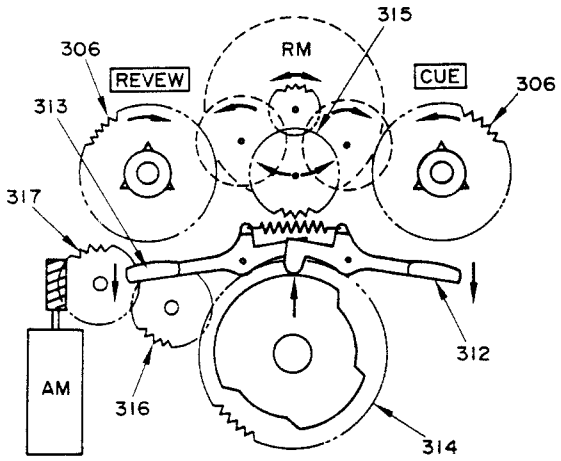
STOP

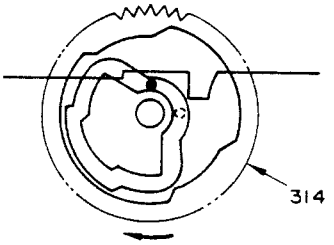


FF / RWD

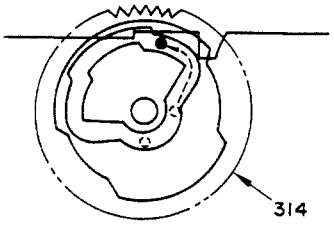
Cue/revew

1. The assist motor runs, the cam gear turns, and the head chassis is raised. The pinch roller is also raised, but is not pressed against the capstan. The head contacts the tape.
2. The reel motor runs in the cue and revew directions. When the motor runs in the cue direction, the takeup reel is turned by the idler gear; when the motor runs in the revew direction, the supply reel turns to wind the tape.





STOP

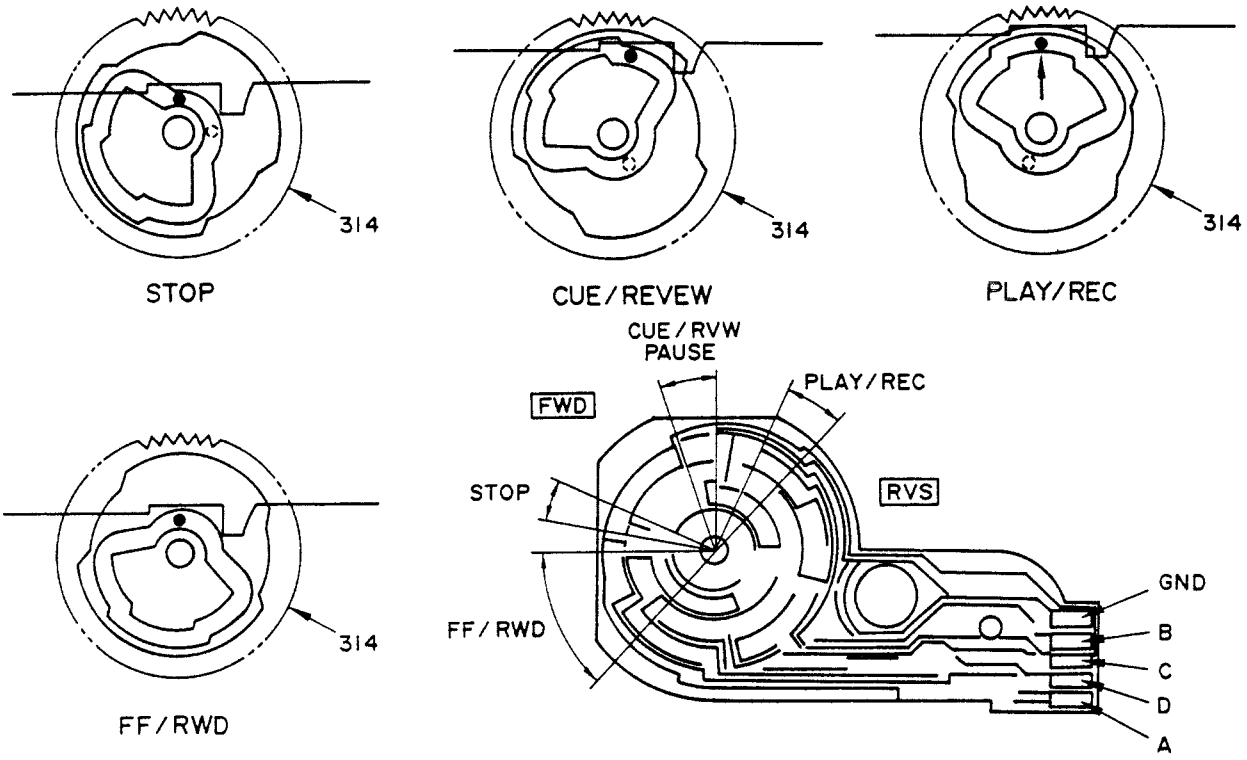


CUE / REVEW

MECHANISM DESCRIPTION

Rotary switch operation

The operation of the mechanism is determined by the position of the rotary switch on the cam gear. Data on rotary switches A to D is input to the micropocessor to control the assist motor, turn the cam gear, and control the head position and the brake assembly.



Rotary switch cam flow

Direction	RVS (unused)							FWD						
Mode	PLAY		PAUSE CUE REV		STOP		FF/RWD	FF/RWD		STOP		PAUSE CUE REV		PLAY
Cam angle	20°	24°	18°	46°	14.5°	11°	46.5°	46.3°	11°	14.5°	46°	18°	24°	20°
Rotary switch A	H L							L		L		H		H
Rotary switch B	H L							L		H		H		L
Rotary switch C	H L							H		L		H		L
Rotary switch D	H L							H		H		H		H
Head base position (approximate)	PLAY / PAUSE / STOP													

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified; each switch sould be set as follows: TAPE: NORMAL, DOLBY,: OFF, INPUT: LINE						0 dBs = 0.775 V	
I. Cassette mechanism section (REC/PB head adjustment)							
[1]	Demagnetization and cleaning	—	—	Power OFF, demagnetization, cleaning play	REC/PB head, erase head, capstan, pinch roller	Demagnetize the REC/PB head by head eraser. Clean the REC/PB head, erase head, capstan and pinch roller with a cotton swab immersed in alcohol.	
[2]	REC/PB head azimuth	MTT-114, TCC-153 10 kHz, −10 dB SCC-1727	(B)	PLAY	Azimuth adjustment screw	In a setting where the output is maximized, adjust the azimuth adjustment screw so that the Lissajous figure appearing on the oscilloscope screen comes near to a line slanted 45°. Note: The head should be installed in such a manner that it approaches the tape face.	(a)
[3]	Tape speed	MTT-111 TCC-100 SCC-1727 3 kHz, −4 dB	(B)	PLAY ※	Semi-fixed resistor in DC motor assembly	Adjust so that frequency is 3 kHz at the center of the tape.	(b)
II. PC board adjustment							
<1>	Playback level	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R) (X26-126)	Adjust so that LINE OUT is −1.2 dBs.	
		MTT-256 SCC-1727 315 Hz				Adjust so that LINE OUT is −4.0 dBs.	
		MTT-256U, TCC-160 315 Hz				Adjust so that LINE OUT is 0 dBs.	
<2>	Bias current	(A) 1kHz, −30 dBs 10 kHz, −30 dBs	(B)	Adjust the REC VR (LEVEL, BALANCE) so that the REC monitor output is −24 dBs at 1 kHz, and record and playback 1 kHz and 10 kHz alternately.	VR31(L) VR32(R) (X26-126)	Record 1 kHz and 10 kHz alternately, and adjust each bias current adjustment VR so that the 10 kHz play back level is +0.5 dBs against 1 kHz.	
<3>	FL meter 0 dB	(A) 1 kHz, −10 dBs	—	Adjust the REC VR (LEVEL, BALANCE) so that the REC PAUSE monitor output is −4 dBs at 1 kHz.	VR95(R) (X25-440)	Adjust so that "0 dB" lights.	
Note: On item <1> in "II. PC board adjustment"							
Although 3 kinds of tapes are set forth for the playback level adjustment, the use of one tape suffices for adjustment. Here is meant no necessity for the use of all these 3 kinds of tapes. Other than the abovementioned tapes, when a test tape equal in magnetic flux and frequency is available, the adjustment is feasible with this test tape by making the playback output suited to the specified output level of this tape in agreement with the adjustment method.							

※ For your safety, remove the MECHANISM Assy with FRONT PANEL & PCB when you adjust tape speed.

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
Chaque commutateur doit être réglé comme suit, à moins d'indication contraire. TAPE: NORMAL, DOLBY: OFF, INPUT: LINE						0 dBs = 0,775 V	
I. Section de mécanisme de la cassette (ajustement de la tête d'enregistrement/lecture)							
[1]	Démagnétisation et nettoyage	—	—	Alimentation coupée, démagnétisation, nettoyage, lecture	Tête d'enregistrement/lecture, tête d'effacement, cabestan, galet presseur	Démagnétiser la tête d'enregistrement/lecture avec l'effaceur de tête. Nettoyer la tête d'enregistrement/lecture, la tête d'effacement, le cabestan et le galet presseur avec un coton-tige trempé dans de l'alcool.	
[2]	Azimut de la tête d'enregistrement/lecture	SCC-1727 MTT-114, TCC-153 10 kHz, −10 dB	(B)	PLAY	Vis d'ajustement de l'azimut	Au réglage où la sortie est maximisée, ajuster la vis de réglage de l'azimut pour que la figure de Lissajous sur l'écran de l'oscilloscope soit proche d'une ligne inclinée sur 45°. Remarque: La tête doit être installée de manière à ce qu'elle s'approche de la face de la bande.	(a)
[3]	Vitesse de la bande	SCC-1727 MTT-111, TCC-100 3 kHz, −4 dB	(B)	PLAY ※	Résistance semi-fixe dans l'ensemble du moteur CC.	Ajuster pour que la fréquence soit, 3 kHz au centre de la bande.	(b)
II. Ajustement de la plaquette de circuits imprimés							
<1>	Niveau de lecture	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R) (X26-126)	Ajuster pour que LINE OUT soit −1,2 dBs.	
		MTT-256, SCC-1727 315 Hz				Ajuster pour que LINE OUT soit −4,0 dBs.	
		MTT-256U, TCC-160 315 Hz				Ajuster pour que LINE OUT soit 0 dBs.	
<2>	Courant de polarisation	(A) 1kHz, −30 dBs 10 kHz, −30 dBs	(B)	Ajuster la VR REC (LEVEL, BALANCE) pour que la sortie de contrôle REC soit −24 dBs à 1 kHz et l'enregistrement et la lecture 1 kHz et 10 kHz alternativement.	VR31(L) VR32(R) (X26-126)	Enregistrer 1 kHz et 10 kHz alternativement et ajuster chaque VR d'ajustement de courant de polarisation pour que le niveau de lecture 10 kHz soit +0,5 dBs contre 1.	
<3>	Compteur fluorescent 0 dB	(A) 1 kHz, −10 dBs	—	Ajuster la VR REC (LEVEL, BALANCE) pour que la sortie de contrôle REC PAUSE soit −4 dBs à 1 kHz.	VR95(R) (X25-440)	Ajuster pour que "0 dB" s'allume.	
Remarque: Sur le paragraphe <1> de II. Ajustement de la plaque de circuits imprimés.							
Bien que 3 sortes de bandes soient employées pour l'ajustement du niveau de lecture, l'utilisation d'une bande suffit pour l'ajustement. En plus des bandes citées ci-dessus, quand une bande test de flux magnétique et de fréquence égaux est disponible, l'ajustement est possible en réglant la sortie de lecture sur le niveau de sortie spécifique à cette bande, selon la méthode d'ajustement.							

※ Pour des raisons de sécurité, déposer le mécanisme avec le panneau avant et le PCB pour régler la vitesse de la bande.

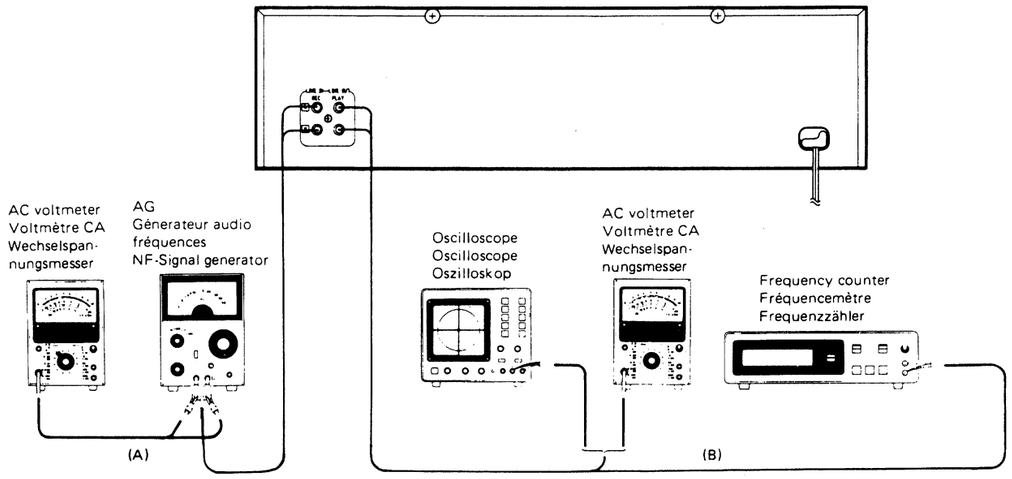
ABGLEICH

NR	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERÄT-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
Falls nicht anders angegeben, müssen die einzelnen Schalter wie folgt eingestellt sein: TAPE: NORMAL, DOLBY: OFF, INPUT: LINE						0 dBs = 0,775 V	
I. Kassettenmechanismus-Abschnitt (Aufnahme/Wiedergabekopf-Einstellung)							
[1]	Entmagnetisierung und Reinigung	—	—	Spannungsversorgung aus, Entmagnetisierung, Reinigung, Wiedergabe	Aufnahme/ Wiedergabekopf, Löschkopf, Tonwelle, Andruckrolle	Den Aufnahme/Wiedergabekopf mit einem Entmagnetisierer entmagnetisieren. Den Aufnahme/Wiedergabekopf, den Löschkopf, die Tonwelle und die Andruckrolle mit einem in Alkohol eingetauchten Wattestäbchen reinigen.	
[2]	Aufnahme/ Wiedergabekopf-Azimut	SCC-1727 MTT-114, TCC-153 10 kHz, −10 dB	(B)	PLAY	Azimut-Einstellschraube	Bei der Einstellung, bei der der Ausgang maximal ist, so einstellen, daß die auf die Azimut-Einstellschraube dem Oszilloskop-Bildschirm erscheinende Lissajousfigur nahe einer um 45° geneigten Linie kommt. Hinweis: Der Tonkopf muß so installiert sein, daß er zum Band weist.	(a)
[3]	Bandgeschwindigkeit	SCC-1727 MTT-111, TCC-100 3 kHz, −4 dB	(B)	PLAY ※	semi-fester Wiederstand in der Gleichstrommotor-Einheit	So einstellen, daß die Frequenz in der Mitte des Bandes 3 kHz beträgt.	(b)
II. Platinen-Einstellung							
<1>	Wiedergabepegel	MTT-150 400 Hz	(B)	PLAY	VR1 (L) VR2 (R) (X26-126)	So einstellen, daß LINE OUT −1,2 dBs beträgt.	
		MTT-256, SCC-1727 315 Hz				So einstellen, daß LINE OUT −4,0 dBs beträgt.	
		MTT-256U, TCC-160 315 Hz				So einstellen, daß LINE OUT 0 dBs beträgt.	
<2>	Vormagnetisierungsstrom	(A) 1kHz, −30 dBs 10 kHz, −30 dBs	(B)	Den REC-Regelwiderstand (LEVEL, BALANCE) so einstellen, daß der REC-Überwachungsausgang −24 dBs bei 1 kHz beträgt, und 1 kHz und 10 kHz abwechselnd aufnehmen und wiedergeben.	VR31(L) VR32(R) (X26-126)	1 kHz und 10 kHz abwechselnd aufnehmen und jeden Vormagnetisierungsstrom-Einstellungs-Regelwiderstand so einstellen, daß der 10-kHz-Wiedergabepegel +0,5 dB gegen 1 kHz beträgt.	
<3>	FL-Meter 0 dB	(A) 1 kHz, −10 dBs	—	Den REC-Regelwiderstand (LEVEL, BALANCE) so einstellen, daß der REC PAUSE-Überwachungs-Ausgang −4 dBs bei 1 kHz beträgt.	VR95(R) (X25-440)	So einstellen, daß "0 dB" leuchtet.	
Hinweis: Zu Punkt <1> in "II. Platinen-Einstellung"							
Obwohl 3 Arten von Bändern für die Wiedergabepegel-Einstellung vorgegeben sind, reicht die Verwendung eines Bandes für die Einstellung aus. Das bedeutet, daß nicht alle 3 Arten Bänder verwendet werden brauchen. Wenn ein anderes Testband als die oben angeführten Bänder mit gleichen magnetischen Fluß und gleicher Frequenz verfügbar ist, kann die Einstellung mit diesem Testband durchgeführt werden, indem der Wiedergabe-Ausgang für den spezifizierten Ausgangspegel dieses Bandes in Übereinstimmung mit der Einstellmethode passend gemacht wird.							

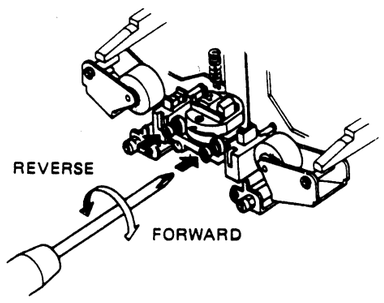
※ Zu Ihrer Sicherheit sollten Sie zum Einstellen der Bandgeschwindigkeit die Laufwerk-Baugruppe zusammen mit der Frontplatte und der Leiterplatte entfernen.

ADJUSTMENT/REGLAGE/ABGLEICH

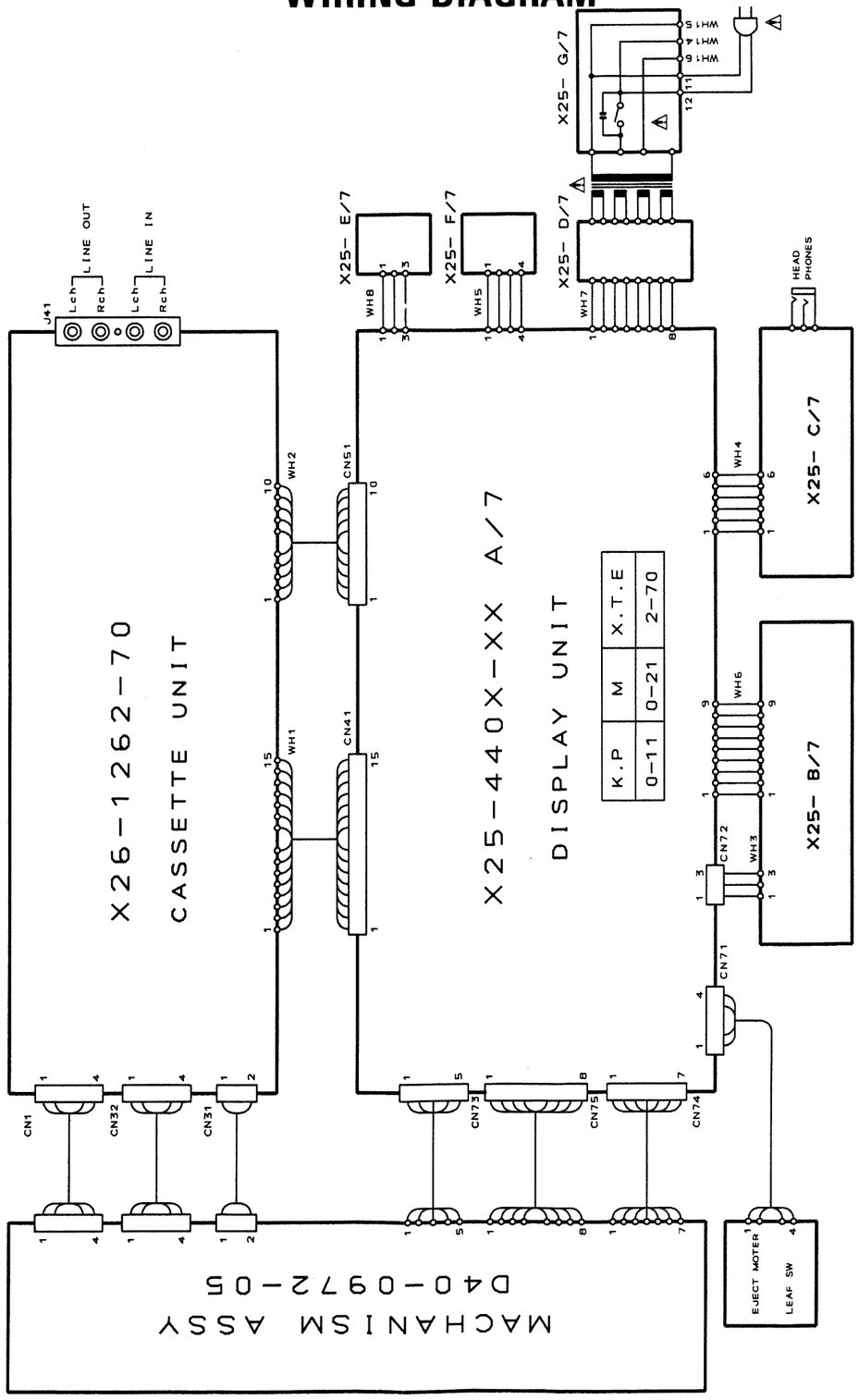
Measurement Equipment Connections:



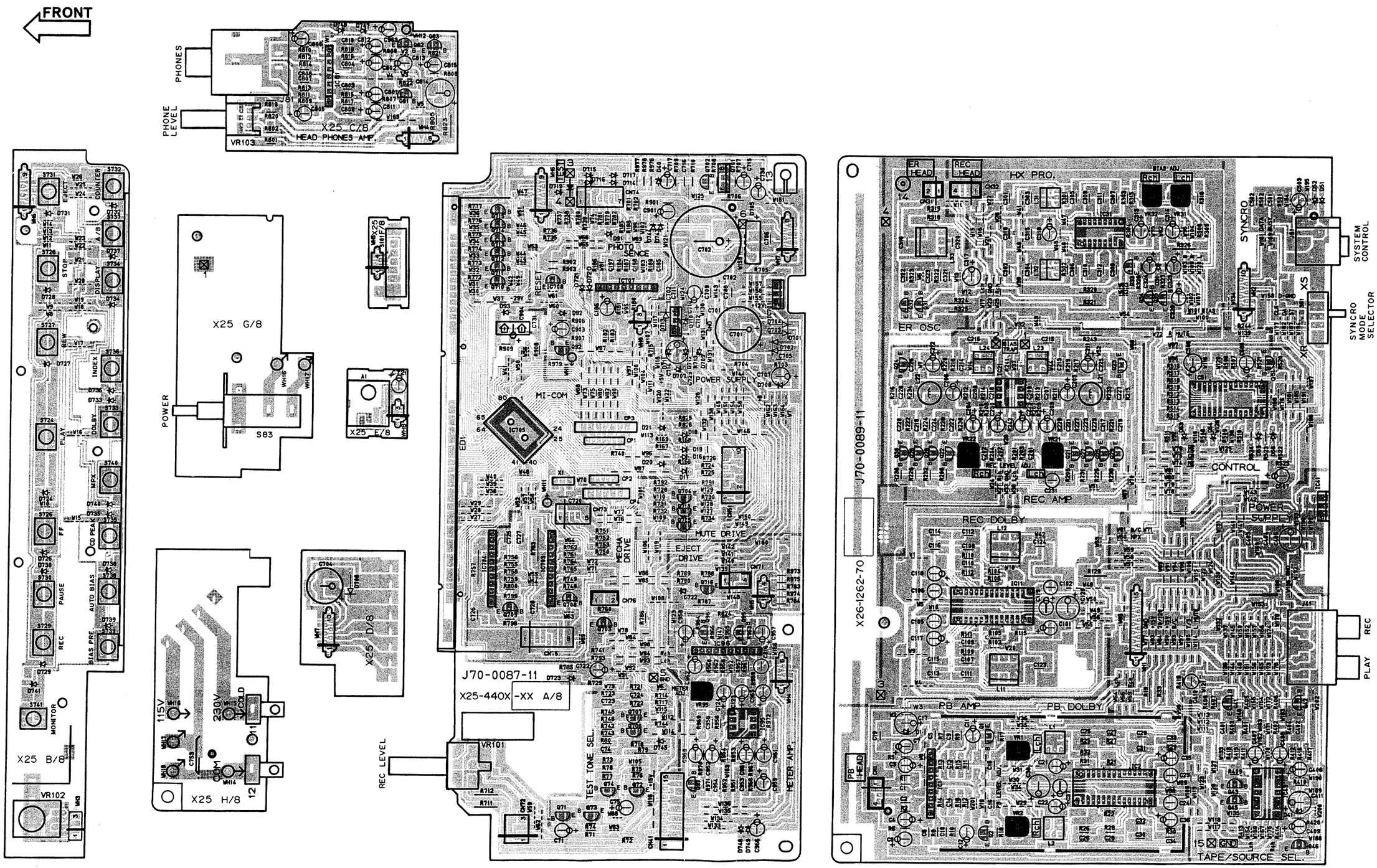
(a) Azimuth adjustment



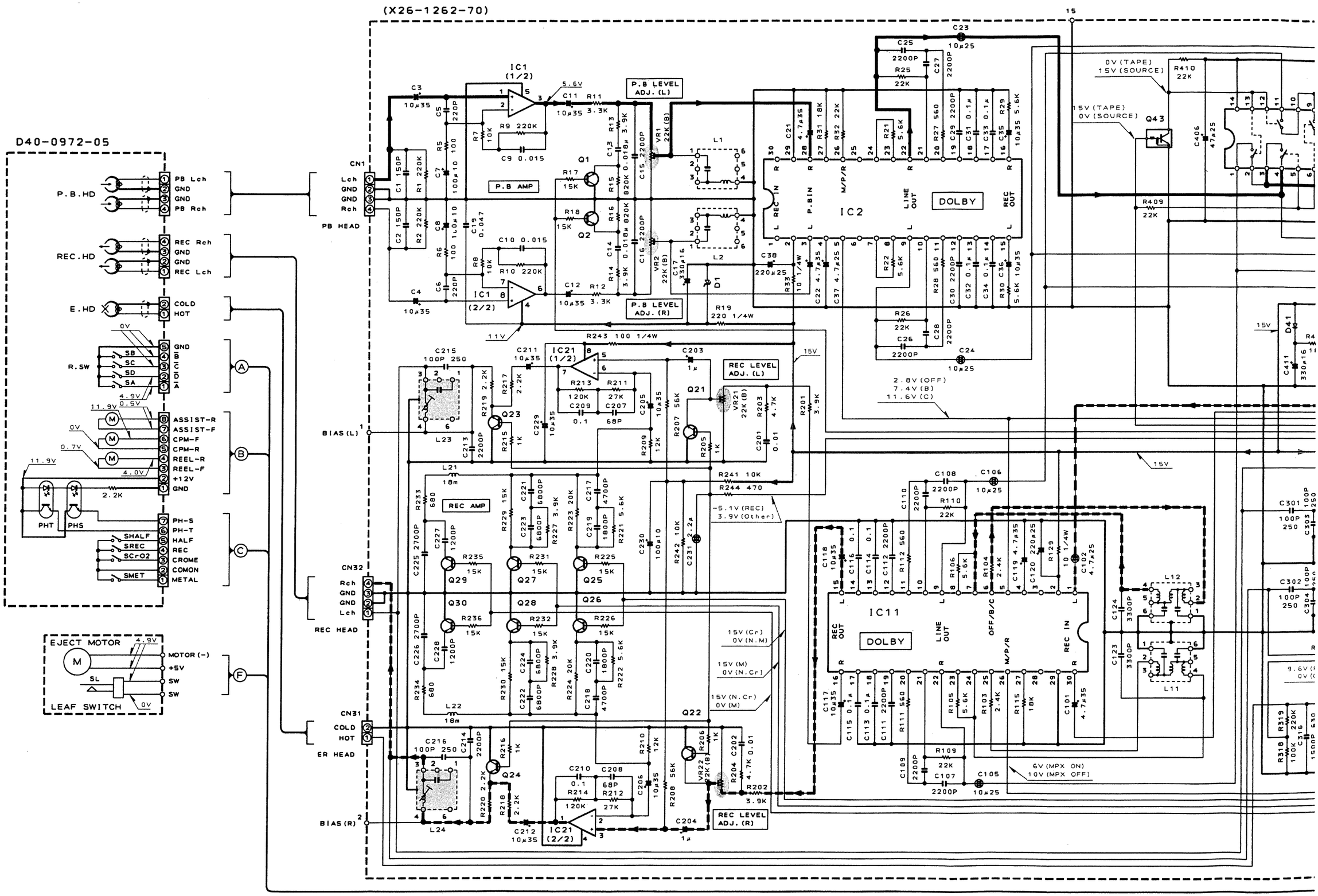
WIRING DIAGRAM

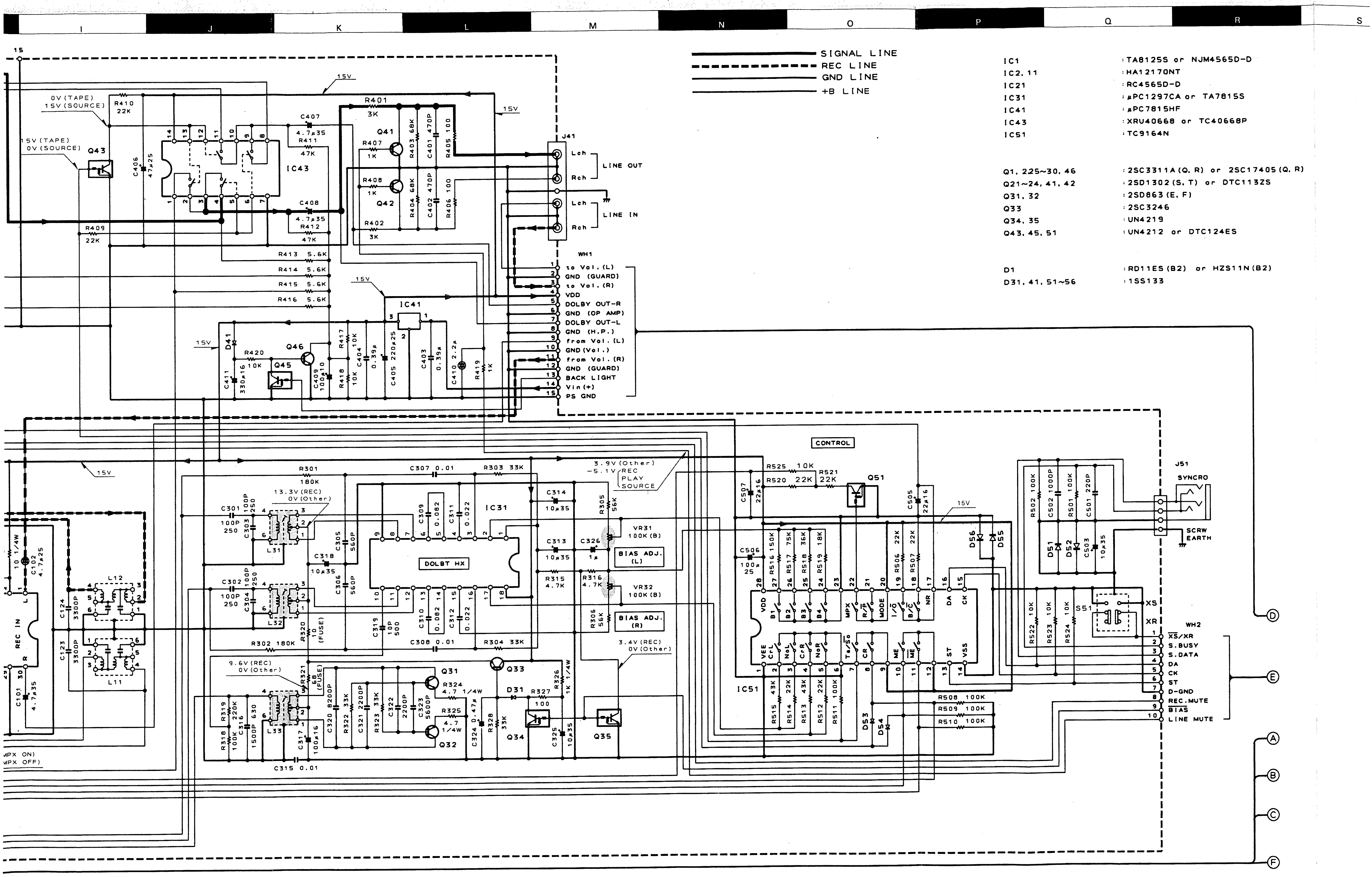


PC BOARD (Component side view)

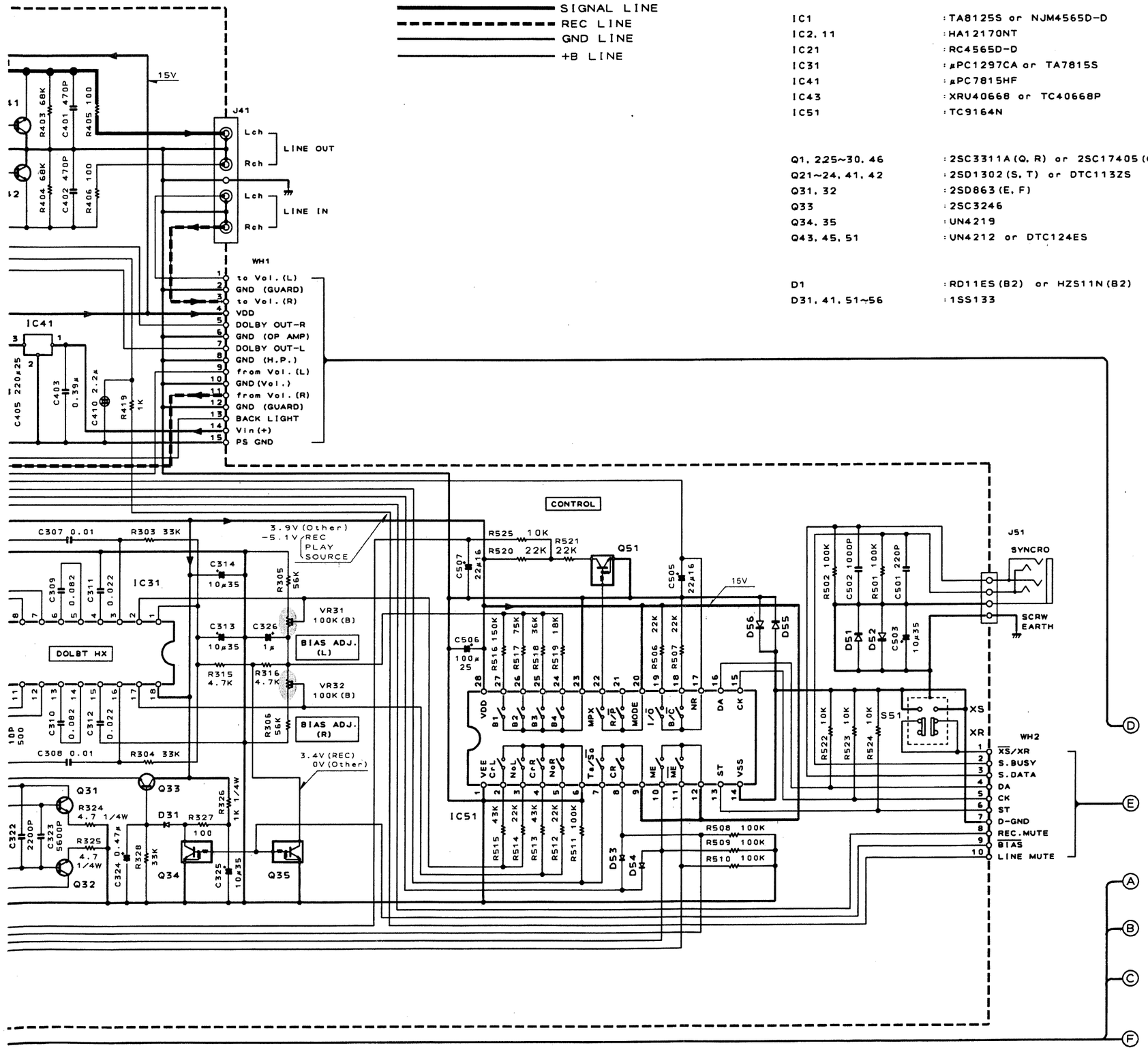


Refer to the schematic diagram for the values of resistors and capacitors.


(X26-1262-70)
D40-0972-05
P.B.HD
REC.HD
E.HD
R.SW
PB Lch
GND
GND
PB Rch
REC Rch
GND
GND
REC Lch
COLD
HOT
SB
SC
SD
SA
ASSIST-R
ASSIST-F
CPM-F
CPM-R
REEL-R
REEL-F
+12V
GND
PHT
PHS
PH-S
PH-T
HALF
REC
CROME
COMON
METAL
SHALF
SREC
SCrO2
SMET
EJECT MOTOR
SL
LEAF SWITCH
MOTOR (-)
+5V
SW
SW
CN1
PB HEAD
CN32
REC HEAD
CN31
ER HEAD
BIAS (L)
BIAS (R)
IC1 (1/2)
IC1 (2/2)
IC21 (1/2)
IC21 (2/2)
IC2
IC11
DOLBY
P.B AMP
REC AMP
P.B LEVEL ADJ. (L)
P.B LEVEL ADJ. (R)
REC LEVEL ADJ. (L)
REC LEVEL ADJ. (R)
0V (TAPE)
15V (SOURCE)
15V (TAPE)
0V (SOURCE)
2.8V (OFF)
7.4V (B)
11.6V (C)
-5.1V (REC)
3.9V (Other)
15V (Cr)
0V (N.M)
15V (M)
0V (N.Cr)
15V (N.Cr)
0V (M)
6V (MPX ON)
10V (MPX OFF)



I J K L M N O P Q R S
SIGNAL LINE
REC LINE
GND LINE
+B LINE
IC1 : TA8125S or NJM4565D-D
IC2, 11 : HA12170NT
IC21 : RC4565D-D
IC31 : μPC1297CA or TA7815S
IC41 : μPC7815HF
IC43 : XRU40668 or TC40668P
IC51 : TC9164N
Q1, 225~30, 46 : 2SC3311A(Q, R) or 2SC17405(Q, R)
Q21~24, 41, 42 : 2SD1302(S, T) or DTC113ZS
Q31, 32 : 2SD863(E, F)
Q33 : 2SC3246
Q34, 35 : UN4219
Q43, 45, 51 : UN4212 or DTC124ES
D1 : RD11ES(B2) or HZS11N(B2)
D31, 41, 51~56 : 1SS133
0V (TAPE)
15V (SOURCE)
15V (TAPE)
0V (SOURCE)
IC43
J41
LINE OUT
LINE IN
WH1
1 to Vol. (L)
2 GND (GUARD)
3 to Vol. (R)
4 VDD
5 DOLBY OUT-R
6 GND (OP AMP)
7 DOLBY OUT-L
8 GND (H.P.)
9 from Vol. (L)
10 GND (Vol.)
11 from Vol. (R)
12 GND (GUARD)
13 BACK LIGHT
14 Vin (+)
15 PS GND
IC41
CONTROL
DOLBY HX
IC31
13.3V (REC)
0V (Other)
3.9V (Other)
-5.1V REC PLAY SOURCE
BIAS ADJ. (L)
BIAS ADJ. (R)
VR31 100K (B)
VR32 100K (B)
9.6V (REC)
0V (Other)
3.4V (REC)
0V (Other)
REC IN
MPX ON)
MPX OFF)
IC51
J51
SYNCRO
SCRW EARTH
S51
WH2
1 XS/XR
2 S.BUSY
3 S.DATA
4 DA
5 CK
6 ST
7 D-GND
8 REC.MUTE
9 BIAS
10 LINE MUTE
A B C D E F



IC1	: TA8125S or NJM4565D-D
IC2, 11	: HA12170NT
IC21	: RC4565D-D
IC31	: μPC1297CA or TA7815S
IC41	: μPC7815HF
IC43	: XRU40668 or TC40668P
IC51	: TC9164N
Q1, 225~30, 46	: 2SC3311A (Q, R) or 2SC17405 (Q, R)
Q21~24, 41, 42	: 2SD1302 (S, T) or DTC113ZS
Q31, 32	: 2SD863 (E, F)
Q33	: 2SC3246
Q34, 35	: UN4219
Q43, 45, 51	: UN4212 or DTC124ES
D1	: RD11ES (B2) or HZS11N (B2)
D31, 41, 51~56	: 1SS133

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y26-3270-00

KX-7030

KENWOOD

V W X Y Z AA AB AC AD AE

1 2 3 4 5 6 7

(X25-440X-XX) (C/8)

(X25-440X-XX) (B/8)

(X25-) (F/8)

(X25-440X-XX) (A/7)

IC81 (1/2)

IC81 (2/2)

IC95 (1/2)

IC95 (2/2)

IC96

LOG AMP

IC702

IC701

IC708

IC704

IC703

RM DRIVE

AM DRIVE

TIMER SW S101

PLAY OFF REC

FWD PLAY D724 S724

FF D726 S726

REW D727 S727

STOP D728 S728

REC/ARM D729 S729

PAUSE D730 S730

EJECT D731 S731

C.RESET D732 S732

DOLBY NR D733 S733

DISP D734 S734

CCRS D735 S735

I.SCAN D736 S736

A/B REP. D737 S737

AUTO BIAS D738 S738

BIAS PST. D739 S739

MPX D740 S740

AUTO MONI D741 S741

BALANCE

VR102 200K (W)

TEST-1

METER ADJ

CN41

IN (L)
GND (Guard)
IN (R)
Vdd
DOLBY OUT-R
GND (OP Amp)
DOLBY OUT-L
GND (H.P.)
OUT (L)
GND (Volume)
OUT (R)

BACK LIGHT
Vin (+)
PS GND

CN51

L.MUTE
BIAS
REC.MUTE
D-GND
ST
CLK
DATA
S.DATA
S.BUSY
XS/XR

−5.2V (REC)
4.0V (Other)

4.0V (REC/REC.PAUSE/PLAY)
−5.2V (Other)

CN72

CN76

+12V GND

BUCK LIGHT LED

CN75

ASSIST-R
ASSIST-F
CAM-F
CAM-R
REEL-R
REEL-F
+12V
GND

1.55V/0VU

4.9V

12V

15V

14.5V

7.5V

6.0V

12.6V

4.2V

28.7V

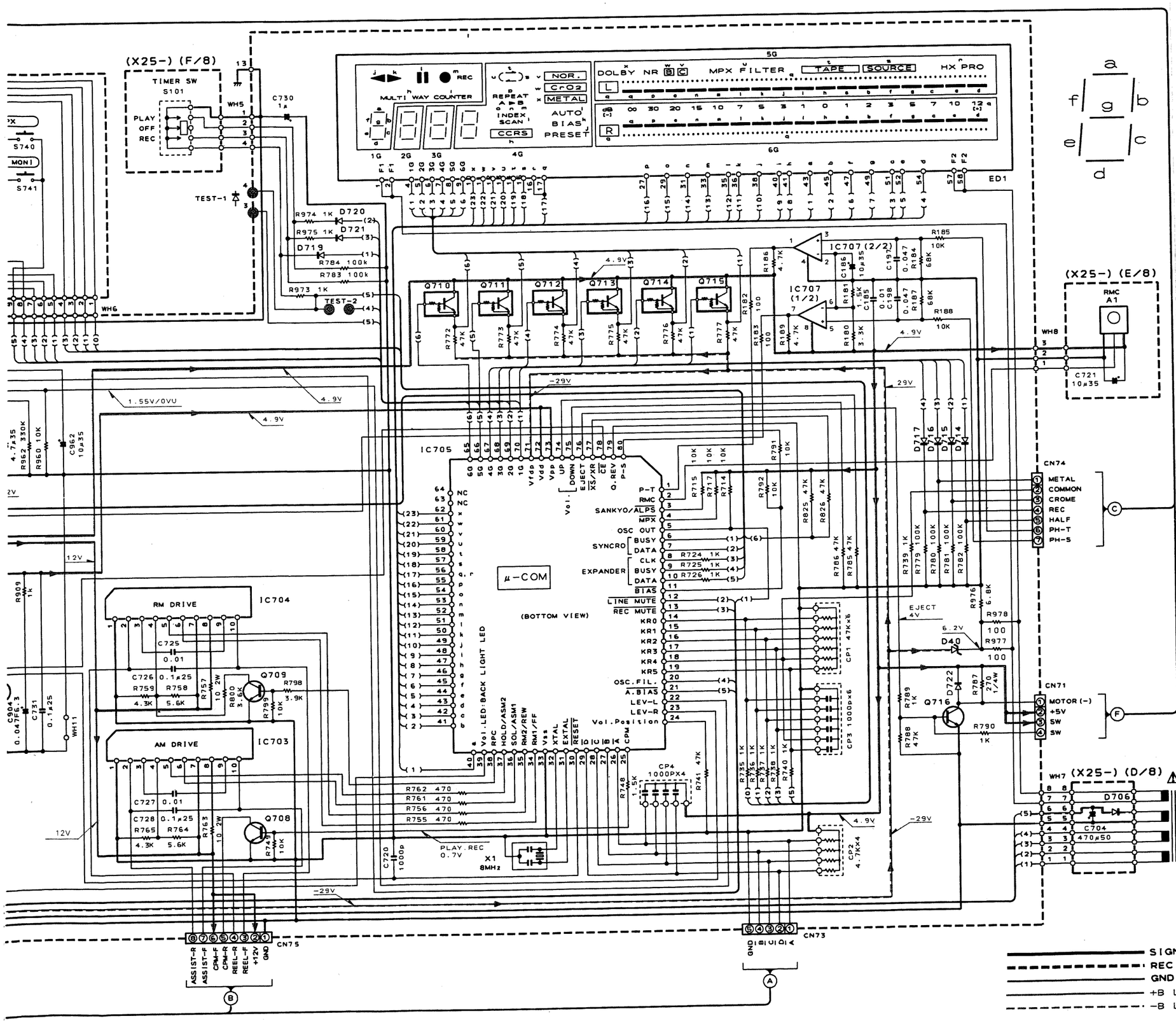
5.6V

15.8V

20.6V

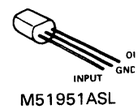
−5.1V

−29V

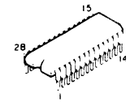


IC81	: M5218AL
IC95	: RC4565D-D or NJM4565D-D
IC96	: BA6138
IC701	: μPC7812HF or TA7812S
IC702	: μPC7805HF or TA7805S
IC703	: BA6209N
IC704	: BA6229
IC705	: CXP82124-1030
IC707	: BA10393N
IC708	: PST529D or M51951ASL
Q71~73, 92, 95~97, 707, 709	: 2SC3311A (Q, R) or 2SC1740S (Q
Q81, 82	: 2SD1302 (S, T)
Q83, 703	: UN4212 or DTC124ES
Q701	: 2SB941
Q708, 716	: 2SC4236
Q710~715	: UN4129 or DTC113ZS
Q718	: UN4119 or DTA113ZS
D16~21, 91~93, 708, 710~712, 722, 723, 743~747	: 1SS133 or HSS104
D40	: RD6.2ES (B2) or HZS6.2N (B2)
D701~704, 706, 713	: 1SR139-100 or S56888
D705	: KBP02ML-6127
D707	: RD5.1JS (B) or HZS5.1S (B)
D709	: RD3.9ES (B) or HZS5.9N (B)
D714~717, 719~721, 724, 726~741	: 1SS131 or HSS104A

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



M51951ASL
PST529D



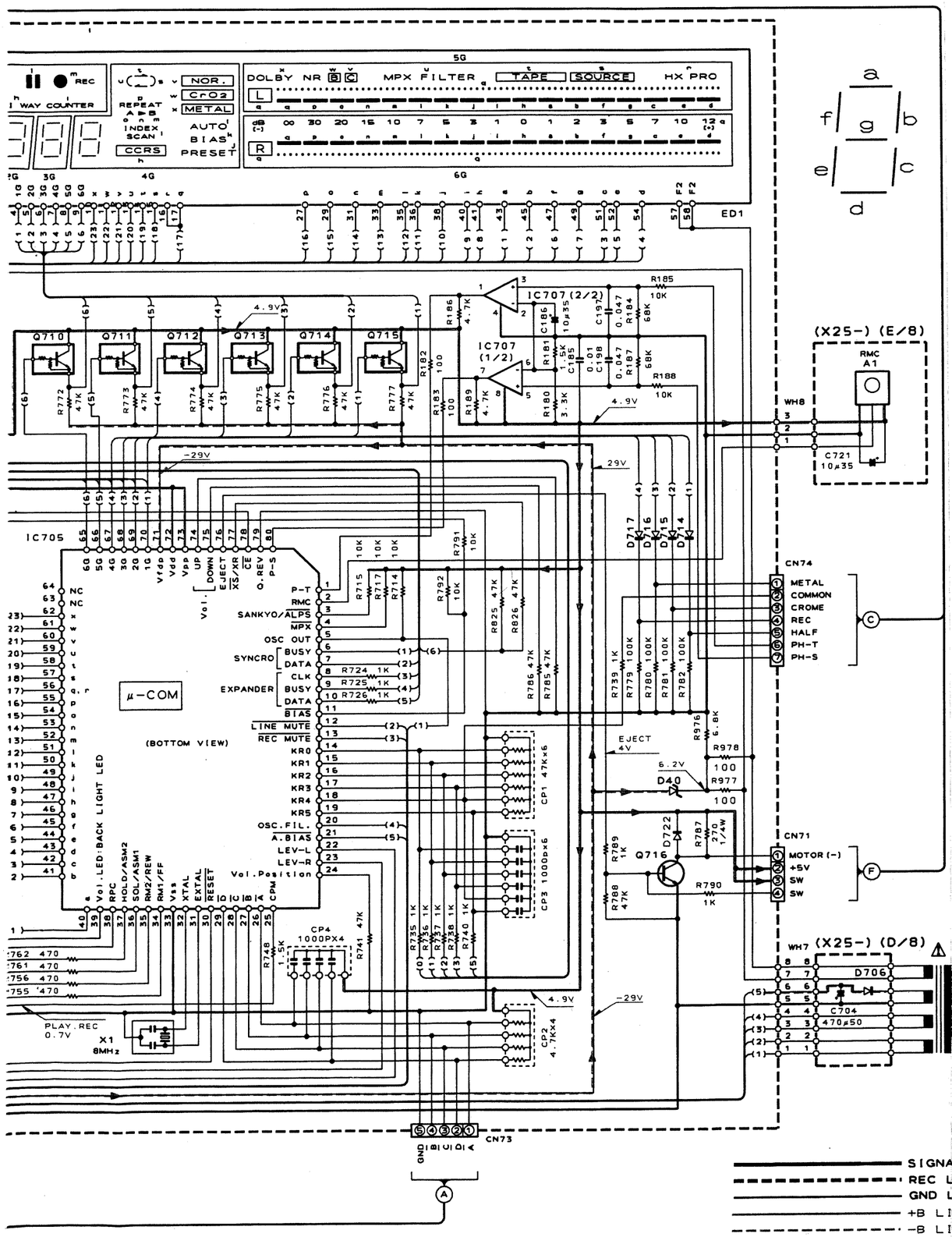
TC9164N

DESTINATION / Ref.No.	0-11 (K, P)	0-21 (M)	2-70 (X, T, E)
*WH14~16	NO	YES	NO
*11, 12	YES	NO	YES

DC voltages are as measured wi
ter with a cassette loaded at play
slightly due to variations betw
or/and units. Bias circuit DC volta
the record mode.

Les tensions c.c. doivent être m
haute impédance, une cassette
ture. Les valeurs peuvent différer
tions inhérentes aux appareils e
individuels.
Les tensions c.c. du circuit de p
l'appareil étant en mode d'enregi

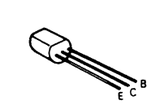
Die angegebenen Gleichspann
setzter Cassette in der Wiederg
Spannungsmesser gemessen.
werte aufgrund von Unterschi
strumenten oder Geräten u. U.
Gleichspannungswerte der
wurden in der Aufnahme-Betrieb

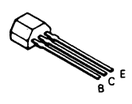


IC81	: M5218AL
IC95	: RC4565D-D or NJM4565D-D
IC96	: BA6138
IC701	: μPC7812HF or TA7812S
IC702	: μPC7805HF or TA7805S
IC703	: BA6209N
IC704	: BA6229
IC705	: CXP82124-1030
IC707	: BA10393N
IC708	: PST529D or M51951ASL
Q71~73, 92, 95~97, 707, 709	: 2SC3311A (Q, R) or 2SC1740S (Q, R)
Q81, 82	: 2SD1302 (S, T)
Q83, 703	: UN4212 or DTC124ES
Q701	: 2SB941
Q708, 716	: 2SC4236
Q710~715	: UN4129 or DTC113ZS
Q718	: UN4119 or DTA113ZS
D16~21, 91~93, 708, 710~712, 722, 723, 743~747	: 1SS133 or HSS104
D40	: RD6.2ES (B2) or HZS6.2N (B2)
D701~704, 706, 713	: 1SR139-100 or S56888
D705	: KBP02ML-6127
D707	: RD5.1JS (B) or HZS5.1S (B)
D709	: RD3.9ES (B) or HZS5.9N (B)
D714~717, 719~721, 724, 726~741	: 1SS131 or HSS104A

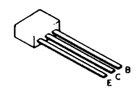
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

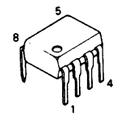
DESTINATION / Ref.No.	0-11 (K, P)	0-21 (M)	2-70 (X, T, E)
*WH14~16	NO	YES	NO
*11, 12	YES	NO	YES

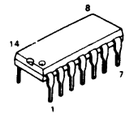

2SC3246
2SD1302
2SD863

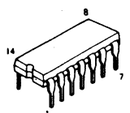

DTC124ES
2SA933S
2DC1740S

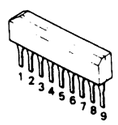

2SB941

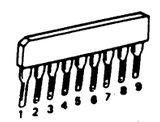

UN4212
UN4219
2SA1309A
2SC3311A


NJM4565D-D

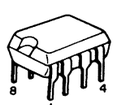

XRU4066B

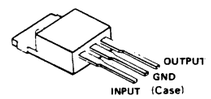

TC4066BP


TA8125S

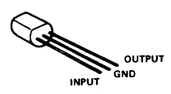

M5218AL


BA6138

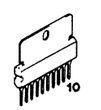

RC4565D-D



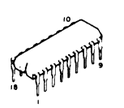
UPC7805HF
UPC7812HF
UPC7815HF

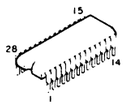


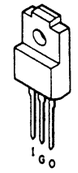
M51951ASL
PST529D

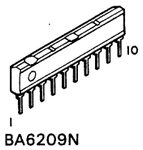

BA6229


BA10393N


UPC1297CA


TC9164N


TA7805S
TA7812S
TA7815S


BA6209N

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

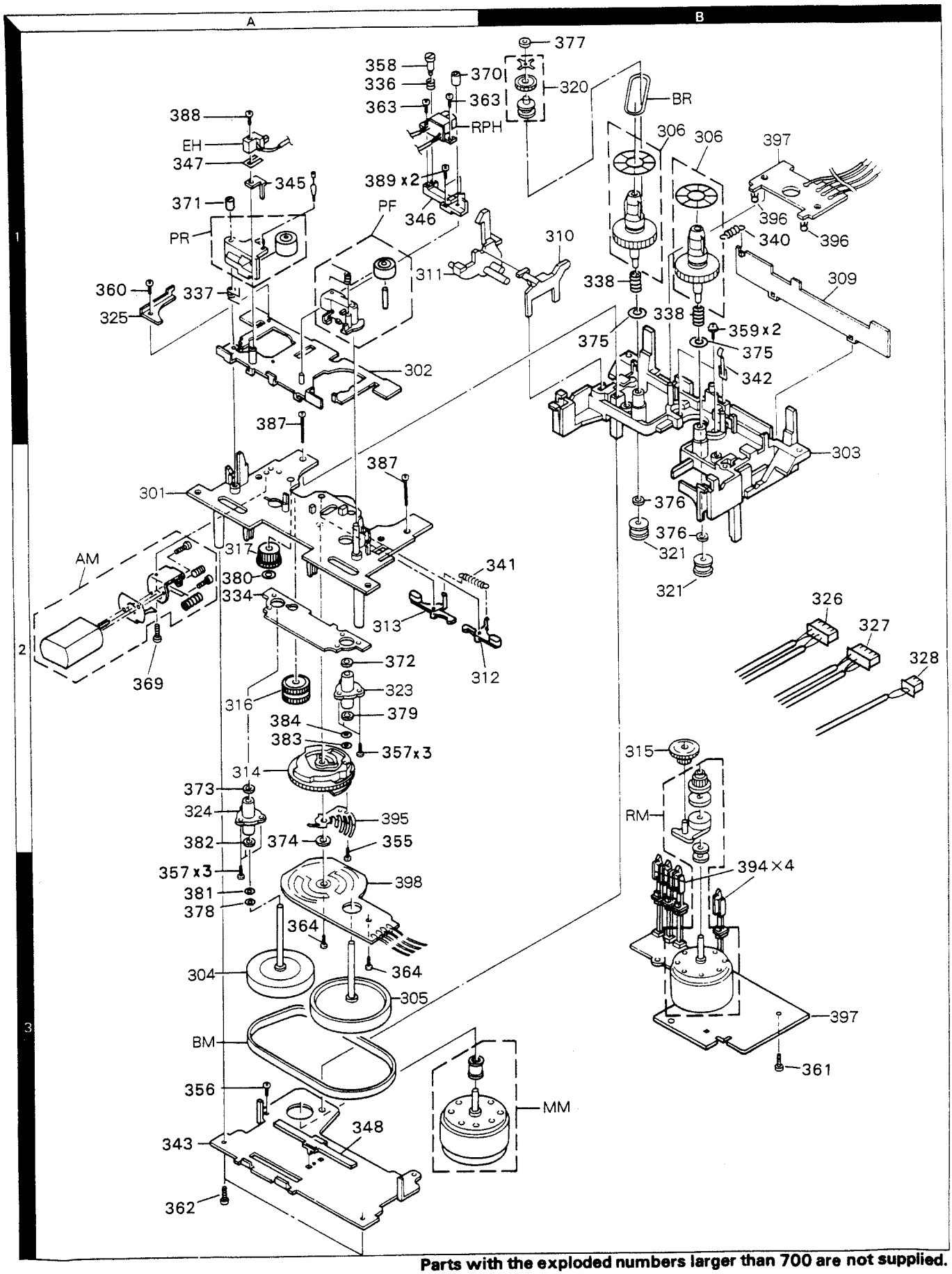
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

Y26-3270-00

KX-7030
KENWOOD

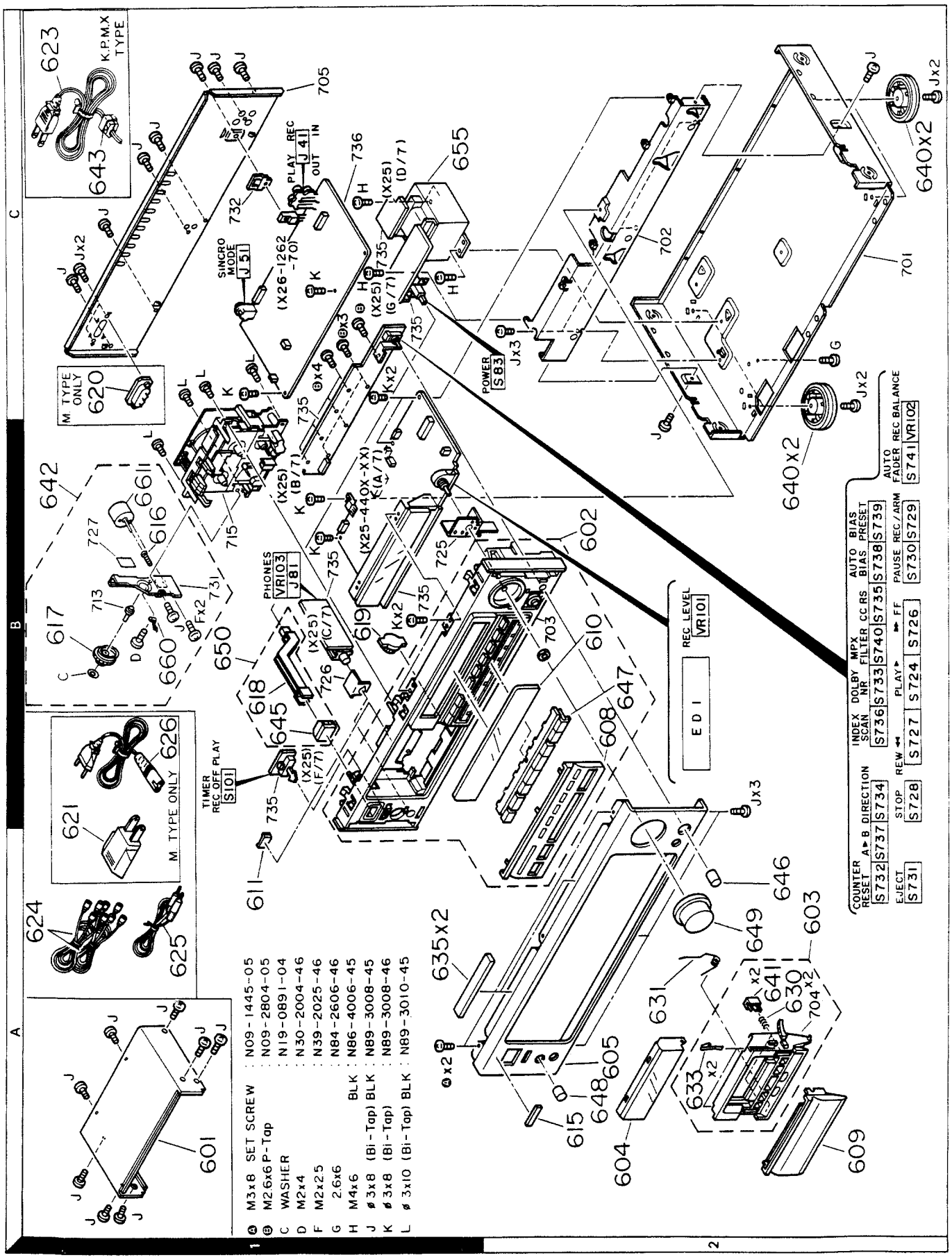
EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

KX-7030

EXPLODED VIEW (MAIN UNIT)



× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KX-7030			
601	1C	*	A01-1944-01	METALLIC CABINET		
602	1D, 2D	*	A22-1484-02	SUB PANEL ASSY		
603	2C	*	A53-1287-03	CASSETTE HOLDER ASSY		
604	2C	*	A53-1290-03	CASSETTE LID		
605	2C	*	A60-0057-02	PANEL		
608	2C, 2D	*	B03-2712-03	DRESSING PLATE (PANEL)		
609	2C	*	B03-2714-03	DRESSING PLATE (CASSETTE)		
610	1D, 2D	*	B10-1848-03	FRONT GLASS		
611	1C, 1D		B30-1036-05	LED(SLF-601C)		
615	2C		B43-0287-04	KENWOOD BADGE		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0096-23	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B60-0416-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0417-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-0418-00	INSTRUCTION MANUAL (SPA,CHI)	M	
-		*	B60-0419-00	INSTRUCTION MANUAL (GE,DU,IT)	E	
616	1D		D13-0282-04	WORM		
617	1D	*	D13-0918-03	GEAR		
618	1D	*	D21-1648-03	EXTENSION SHAFT		
619	1D		D39-0176-05	DAMPER		
⚠ 620	1E		E03-0102-25	AC INLET	M	
⚠ 621	1C, 1D		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 623	1E		E30-0459-05	AC POWER CORD	E	
⚠ 623	1E		E30-0780-05	AC POWER CORD	KP	
⚠ 623	1E		E30-1341-05	AC POWER CORD	X	
⚠ 623	1E		E30-1416-05	AC POWER CORD	T	
624	1C		E30-0505-05	AUDIO CORD		
625	1C		E30-0977-05	CORD WITH PLUG	KPMX	
⚠ 626	1D		E30-1329-05	AC POWER CORD (INLET)	M	
630	2C		G01-2288-04	COMPRESSION SPRING		
631	2C	*	G01-3351-04	TORSION COIL SPRING		
633	2C		G02-0937-04	FLAT SPRING		
635	1C, 2C	*	G11-0185-04	SOFT TAPE		
		*	H50-0047-04	ITEM CARTON CASE		
-		*	H10-5117-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5118-12	POLYSTYRENE FOAMED FIXTURE		
-			H20-0417-14	PROTECTION COVER(460X370X360)	M	
-			H25-0224-04	PROTECTION BAG (800X400X0.03)	KPXTE	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
640	2D, 2E		J02-1052-05	FOOT		
641	2C		J11-0140-04	CLAMPER ASSY		
642	1D	*	J21-5710-15	MOUNTING HARDWARE ASSY (EJECT)		
⚠ 643	1E		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
645	1D		K29-3835-04	KNOB POWER (K29-4180-04 ASSY)		
646	2C		K29-4010-04	KNOB REC BALANCE		
647	2D	*	K29-4150-03	KNOB TAPE CONTROL		
648	2C	*	K29-4151-04	KNOB PHONES LEVEL		
649	2C	*	K29-4153-04	KNOB REC LEVEL		

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Destination list

	JAPAN MADE
KX-7030	K, P, M, X, T, E

Display unit

X25-4400-11	KX-7030K, P
X25-4400-21	KX-7030M
X25-4402-70	KX-7030X, T, E

Cassette unit

X26-1262-70	KX-7030K, P, M, X, T, E

Mechanism ass'y

D40-0972-05	KX-7030K, P, M, X, T, E

PARTS LIST

KX-7030

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No.2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
650	1D	*	K29-4180-04	KNOB ASSY POWER		
⚠ 655	1E	*	L07-0296-05	POWER TRANSFORMER	KP	
⚠ 655	1E	*	L07-0297-05	POWER TRANSFORMER	XTE	
⚠ 655	1E	*	L07-0298-05	POWER TRANSFORMER	M	
A	1C		N09-1445-05	SET SCREW (M3X8)		
B	1D		N09-2804-05	TAPPING SCREW (2.6X6)		
C	1D		N19-0891-04	FLAT WASHER		
D	1D		N30-2004-46	PAN HEAD MACHIN SCREW		
F	1D		N39-2025-46	PAN HEAD MACHIN SCREW		
G	1D		N84-2606-46	PAN HEAD TAPTITE SCREW		
H	1E		N86-4006-45	BINDING HEAD TAPTITE SCREW		
J	1C,1E		N89-3008-45	BINDING HEAD TAPTITE SCREW		
K	1D		N89-3008-46	BINDING HEAD TAPTITE SCREW		
L	1D,1E		N89-3010-45	BINDING HEAD TAPTITE SCREW		
M	1C		N09-2776-05	SET SCREW (M3X8)		
660	1D	*	S74-0001-05	LEAF SWITCH		
661	1D		T42-0567-05	DC MOTOR (EJECT)		
DISPLAY UNIT (X25-4400-11: K, P, 0-21: M, 2-70:X, T, E)						
C71			CE04KW1V100M	ELECTRO 10UF 35WV		
C74			CF92FV1H104J	MF 0.10UF J		
C75			CE04KW1C101M	ELECTRO 100UF 16WV		
C123,124			CE04KW1V100M	ELECTRO 10UF 35WV		
C185			CK45FF1H103Z	CERAMIC 0.010UF Z		
C186			CE04KW1V100M	ELECTRO 10UF 35WV		
C197,198			CK45FF1H473Z	CERAMIC 0.047UF Z		
C701			CE04KW1V222M	ELECTRO 2200UF 35WV		
C702		*	C90-1872-05	ELECTRO 10000UF 25WV		
C704			CE04KW1H471M	ELECTRO 470UF 50WV		
C705,706			CK45FF1H103Z	CERAMIC 0.010UF Z		
C707			CE04KW1V470M	ELECTRO 47UF 35WV		
C708,709			CF92FV1H104J	MF 0.10UF J		
C710			CE04KW1V100M	ELECTRO 10UF 35WV		
C711			CF92FV1H103J	MF 0.010UF J		
C712			CF92FV1H104J	MF 0.10UF J		
C714			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C715			CE04KW1V100M	ELECTRO 10UF 35WV		
C716			CK45FF1H103Z	CERAMIC 0.010UF Z		
C717			CE04KW1V470M	ELECTRO 47UF 35WV		
C720			CK45FF1H103Z	CERAMIC 0.010UF Z		
C721			CE04KW1V100M	ELECTRO 10UF 35WV		
C722			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C723			CF92FV1H393J	MF 0.039UF J		
C724			CF92FV1H392J	MF 3900PF J		
C725			CK45FF1H103Z	CERAMIC 0.010UF Z		
C726			C91-0700-05	CERAMIC 0.1UF J		
C727			CK45FF1H103Z	CERAMIC 0.010UF Z		
C728,729			C91-0700-05	CERAMIC 0.1UF J		
C730			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C731			C91-0700-05	CERAMIC 0.1UF J		
⚠ C753			C91-1421-05	FILM 0.01UF 250AC	MXTE	
C753		*	C91-1439-05	FILM 0.01uF 250VAC	KP	
C801,802			CE04KW1H010M	ELECTRO 1.0UF 50WV		

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No.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C803,804			CC45FSL1H101J	CERAMIC 100PF J		
C805,806			CE04KW1C470M	ELECTRO 47UF 16WV		
C807,808			CK45FB1H102K	CERAMIC 1000PF K		
C809,810			CC45FSL1H220J	CERAMIC 22PF J		
C811-813			CE04KW1V100M	ELECTRO 10UF 35WV		
C814			CE04DW1C471M	ELECTRO 470UF 16WV		
C815			CE04KW1C470M	ELECTRO 47UF 16WV		
C816			C90-1352-05	NP-ELEC 4.7UF 25WV		
C901			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C903			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C904			C90-1826-05	BACKUP 0.047F 5.5WV		
C951,952			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C953,954			CF92FV1H332J	MF 3300PF J		
C956			CK45FB1H561K	CERAMIC 560PF K		
C957,958			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C959			CE04KW1V100M	ELECTRO 10UF 35WV		
C960			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C961,962			CE04KW1V100M	ELECTRO 10UF 35WV		
C963			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C965,966			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
J81			E11-0189-05	PHONE JACK HEAD PHONE		
X1			L78-0275-05	RESONATOR 8MHz		
CP1			R90-0819-05	MULTI-COMP 47K X6		
CP2			R90-0824-05	MULTI-COMP 4.7KX6		
CP3			R90-0499-05	MULTI-COMP 1000PX6		
CP4			R90-0478-05	MULTI-COMP 1000PX4		
R79			RD14NB2E102J	RD 1.0K J 1/4W		
R704			RD14GB2E102J	FL-PROOF RD 1.0K J 1/4W		
R705			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R706		*	RD14NB2E222J	RD 2.2K J 1/4W		
R757			RS14KB3D100J	FL-PROOF RS 10 J 2W		
R763			RS14KB3D6R8J	FL-PROOF RS 6.8 J 2W		
R787			RD14NB2E271J	RD 270 J 1/4W		
R823			RD14NB2E151J	RD 150 J 1/4W		
R972			RD14NB2E101J	RD 100 J 1/4W		
VR95		*	R12-1619-05	TRIMMING POT.(4.7K)		
VR101		*	R06-4085-05	POTENTIOMETER REC LEVEL		
VR102		*	R05-5043-05	POTENTIOMETER REC BALANCE		
VR103		*	R10-4040-05	POTENTIOMETER HEADPHONE LEVEL		
S83			S40-1153-05	PUSH SWITCH POWER		
S101			S31-1017-05	SLIDE SWITCH TIMER		
S724			S40-1064-05	PUSH SWITCH KEY BOAD		
S726-741			S40-1064-05	PUSH SWITCH KEY BOAD		
D16 -21			HSS104	DIODE		
D16 -21			1SS133	DIODE		
D40			HZS6.2N(B2)	ZENER DIODE		
D40			RD6.2ES(B2)	ZENER DIODE		
D91 -93			HSS104	DIODE		
D91 -93			1SS133	DIODE		
D701-704			S5688B	DIODE		
D701-704			1SR139-100	DIODE		
D705			KBP02ML-6127	DIODE		
D706			S5688B	DIODE		

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No.4

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D706			1SR139-100	DIODE		
D707			HZS5.1S(B)	ZENER DIODE		
D707			RD5.1JS(B)	ZENER DIODE		
D708			HSS104	DIODE		
D708			1SS133	DIODE		
D709			HZS3.9N(B)	ZENER DIODE		
D709			RD3.9ES(B)	ZENER DIODE		
D710-712			HSS104	DIODE		
D710-712			1SS133	DIODE		
D713			S5688B	DIODE		
D713			1SR139-100	DIODE		
D714-717			HSS104A	DIODE		
D714-717			1SS131	DIODE		
D719-721			HSS104A	DIODE		
D719-721			1SS131	DIODE		
D722,723			HSS104	DIODE		
D722,723			1SS133	DIODE		
D724			HSS104A	DIODE		
D724			1SS131	DIODE		
D726-741			HSS104A	DIODE		
D726-741			1SS131	DIODE		
D743-749			HSS104	DIODE		
D743-749			1SS133	DIODE		
ED1		*	FIP17AW6Y	FLUORESCENT INDICATOR TUBE		
IC81			M5218AL	IC(OP AMP X2)		
IC95			NJM4565D-D	IC(OP AMP X2)		
IC95		*	RC4565D-D	IC(OP AMP X2)		
IC96			BA6138	IC(ROOT AMP X2)		
IC701		*	TA7812S	IC(VOLTAGE REGULATOR/ +12V)		
IC701			UPC7812HF	IC(VOLTAGE REGULATOR/ +12V)		
IC702			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC702			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)		
IC703			BA6209N	IC(MOTOR DRIVER)		
IC704			BA6229	IC(MOTOR DRIVER)		
IC705		*	CXP82124-104Q	IC		
IC707			BA10393N	IC(DUAL COMPARATOR)		
IC708			M51951ASL	IC(SYSTEM RESET)		
IC708			PST529D	IC(SYSTEM RESET)		
Q71 -73			2SC1740S(Q,R)	TRANSISTOR		
Q71 -73			2SC3311A(Q,R)	TRANSISTOR		
Q74		*	2SA1309A(Q,R)	TRANSISTOR		
Q74			2SA933S(Q,R)	TRANSISTOR		
Q81 ,82			2SD1302(S,T)	TRANSISTOR		
Q83			DTC124ES	DIGITAL TRANSISTOR		
Q83			UN4212	TRANSISTOR		
Q92			2SC1740S(Q,R)	TRANSISTOR		
Q92			2SC3311A(Q,R)	TRANSISTOR		
Q95 -97			2SC1740S(Q,R)	TRANSISTOR		
Q95 -97			2SC3311A(Q,R)	TRANSISTOR		
Q701			2SB941	TRANSISTOR		
Q702		*	2SA1309A(Q,R)	TRANSISTOR		
Q702			2SA933S(Q,R)	TRANSISTOR		
Q703			DTC124ES	DIGITAL TRANSISTOR		
Q703			UN4212	TRANSISTOR		
Q704-706		*	2SA1309A(Q,R)	TRANSISTOR		

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No.5

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
Q704-706			2SA933S(Q,R)	TRANSISTOR		
Q707			2SC1740S(Q,R)	TRANSISTOR		
Q707			2SC3311A(Q,R)	TRANSISTOR		
Q708			2SC3246	TRANSISTOR		
Q709			2SC1740S(Q,R)	TRANSISTOR		
Q709			2SC3311A(Q,R)	TRANSISTOR		
Q710-715		*	DTC113ZS	DIGITAL TRANSISTOR		
Q710-715		*	UN4219	TRANSISTOR		
Q716			2SC3246	TRANSISTOR		
Q718		*	DTA113ZS	DIGITAL TRANSISTOR		
Q718			UN4119	TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		
CASSETTE UNIT (X26-1262-70)						
C1 ,2			CC45FSL1H151J	CERAMIC 150PF J		
C3 ,4			CE04KW1V100M	ELECTRO 10UF 35WV		
C5 ,6			CC45FSL1H221J	CERAMIC 220PF J		
C7 ,8			CE04KW1A101M	ELECTRO 100UF 10WV		
C9 ,10			CF92FV1H153J	MF 0.015UF J		
C11 ,12			CE04KW1V100M	ELECTRO 10UF 35WV		
C13 ,14			CF92FV1H183J	MF 0.018UF J		
C15 ,16			CK45FB1H222K	CERAMIC 2200PF K		
C17			CE04KW1C331M	ELECTRO 330UF 16WV		
C19			CK45FF1H473Z	CERAMIC 0.047UF Z		
C21 ,22			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C23 ,24			C90-1332-05	NP-ELEC 10UF 25WV		
C25 -30			CF92FV1H222J	MF 2200PF J		
C31 -34			CF92FV1H104J	MF 0.10UF J		
C35 ,36			CE04KW1V100M	ELECTRO 10UF 35WV		
C37		*	C90-1919-05	ELECTRO 4.7UF 25WV		
C38			CE04KW1E221M	ELECTRO 220UF 25WV		
C101			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C102			C90-1352-05	NP-ELEC 4.7UF 25WV		
C105,106			C90-1332-05	NP-ELEC 10UF 25WV		
C107-112			CF92FV1H222J	MF 2200PF J		
C113-116			CF92FV1H104J	MF 0.10UF J		
C117,118			CE04KW1V100M	ELECTRO 10UF 35WV		
C119		*	C90-1919-05	ELECTRO 4.7UF 25WV		
C120			CE04KW1E221M	ELECTRO 220UF 25WV		
C123,124			CF92FV1H332J	MF 3300PF J		
C201,202			CF92FV1H103J	MF 0.010UF J		
C203,204			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C205,206			CE04KW1V100M	ELECTRO 10UF 35WV		
C207,208			CC45FSL1H680J	CERAMIC 68PF J		
C209,210			CF92FV1H104J	MF 0.10UF J		
C211,212			CE04KW1V100M	ELECTRO 10UF 35WV		
C213,214		*	CQ09FS1H222J	POLYSTY 2200PF J		
C215,216		*	C91-1432-05	FILM 100PF J		
C217,218			CF92FV1H472J	MF 4700PF J		
C219,220			CF92FV1H182J	MF 1800PF J		
C221,222			CF92FV1H103J	MF 0.010UF J		
C223,224			CF92FV1H682J	MF 6800PF J		
C225,226			CF92FV1H272J	MF 2700PF J		
C227,228			CF92FV1H102J	MF 1000PF J		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C229			CE04KW1V100M	ELECTRO 10UF 35WV		
C230			CE04KW1A101M	ELECTRO 100UF 10WV		
C231			C90-1350-05	NP-ELEC 2.2UF 50WV		
C301-304		*	C91-1432-05	FILM 100PF J		
C305,306			CK45FB1H561K	CERAMIC 560PF K		
C307,308			CF92FV1H103J	MF 0.010UF J		
C309,310			CF92FV1H823J	MF 0.082UF J		
C311,312			CF92FV1H223J	MF 0.022UF J		
C313,314			CE04KW1V100M	ELECTRO 10UF 35WV		
C315			CK45FF1H103Z	CERAMIC 0.010UF Z		
C316			C91-0775-05	POLYPRO 1500PF J		
C317			CE04KW1C101M	ELECTRO 100UF 16WV		
C318			CE04KW1V100M	ELECTRO 10UF 35WV		
C319			CC45FSL2H100D	CERAMIC 10PF D		
C320			CF92FV1H822J	MF 8200PF J		
C321,322			CF92FV1H222J	MF 2200PF J		
C323			CF92FV1H562J	MF 5600PF J		
C324			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C325			CE04KW1V100M	ELECTRO 10UF 35WV		
C326			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C401,402			CK45FB1H471K	CERAMIC 470PF K		
C403,404			CF92FV1H394J	MF 0.39UF J		
C405			CE04KW1E221M	ELECTRO 220UF 25WV		
C406			C90-1922-05	ELECTRO 47UF 25WV		
C407,408			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C409			CE04KW1A101M	ELECTRO 100UF 10WV		
C410			C90-1350-05	NP-ELEC 2.2UF 50WV		
C411			CE04KW1C331M	ELECTRO 330UF 16WV		
C501			CC45FSL1H221J	CERAMIC 220PF J		
C502			CK45FB1H102K	CERAMIC 1000PF K		
C503			CE04KW1V100M	ELECTRO 10UF 35WV		
C505			CE04KW1C220M	ELECTRO 22UF 16WV		
C506			CE04KW1E101M	ELECTRO 100UF 25WV		
C507			CE04KW1C220M	ELECTRO 22UF 16WV		
J41			E13-0445-05	PHONO JACK (4P) LINE IN/OUT		
J51			E11-0188-05	MINIATURE PHONE JACK SYNCRO		
L1 ,2			L39-0190-05	TRAP COIL		
L11 ,12			L79-0792-05	LC FILTER		
L21 ,22			L40-1835-29	SMALL FIXED INDUCTOR(18MH ,J)		
L23 ,24			L39-0190-05	TRAP COIL		
L31 ,32			L32-0393-05	BIAS OSCILATING COIL		
L33			L32-0386-05	OSCILATING COIL		
R19			RD14NB2E221J	RD 220 J 1/4W		
R33			RD14NB2E100J	RD 10 J 1/4W		
R129			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R243			RD14NB2E101J	RD 100 J 1/4W		
R320			R92-0219-05	FUSE RESIST 10 G 1/4W		
R321			R92-0226-05	FUSE RESIST 68 G 1/4W		
R326			RD14GB2E102J	FL-PROOF RD 1.0K J 1/4W		
VR1 ,2			R12-3686-05	TRIMMING POT.(22K)		
VR21,22			R12-3145-05	TRIMMING POT.(22K)		
VR31,32		*	R12-5651-05	TRIMMING POT.(100K)		
S51			S31-2094-05	SLIDE SWITCH SYNCRO MODE		

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No.7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D1			HZS11N(B2)	ZENER DIODE		
D1			RD11ES(B2)	ZENER DIODE		
D31			HSS104	DIODE		
D31			1SS133	DIODE		
D41			HSS104	DIODE		
D41			1SS133	DIODE		
D51 -56			HSS104	DIODE		
D51 -56			1SS133	DIODE		
IC1			TA8125S	IC(2CH PRE AMP)		
IC2			HA12170NT	IC(DOLBY B/C NR)		
IC11			HA12170NT	IC(DOLBY B/C NR)		
IC21			NJM4565D-D	IC(OP AMP X2)		
IC21		*	RC4565D-D	IC(OP AMP X2)		
IC31			UPC1297CA	IC(DOL HX PRO SYSTEM)		
IC41		*	TA7815S	IC(VOLTAGE REGULATOR/ +15V)		
IC41			UPC7815HF	IC(VOLTAGE REGULATOR/ +15V)		
IC43			TC4066BP	IC(ANALOG/ DIGITAL SW)		
IC43		*	XRU4066B	IC(ANALOG SWITCH)L SW)		
IC51			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		
Q1 ,2			2SC3311A(Q,R)	TRANSISTOR		
Q21 -24			2SD1302(S,T)	TRANSISTOR		
Q25 -30			2SC1740S(Q,R)	TRANSISTOR		
Q25 -30			2SC3311A(Q,R)	TRANSISTOR		
Q31 ,32			2SD863(E,F)	TRANSISTOR		
Q33			2SC3246	TRANSISTOR		
Q34 ,35		*	DTC113ZS	DIGITAL TRANSISTOR		
Q34 ,35		*	UN4219	TRANSISTOR		
Q41 ,42			2SD1302(S,T)	TRANSISTOR		
Q43			DTC124ES	DIGITAL TRANSISTOR		
Q43			UN4212	TRANSISTOR		
Q45			DTC124ES	DIGITAL TRANSISTOR		
Q45			UN4212	TRANSISTOR		
Q46			2SC1740S(Q,R)	TRANSISTOR		
Q46			2SC3311A(Q,R)	TRANSISTOR		
Q51			DTC124ES	DIGITAL TRANSISTOR		
Q51			UN4212	TRANSISTOR		
MECHANISM ASSY (D40-0972-05)						
301	2A	*	A10-2891-08	CHASSIS CALKED ASSY		
302	1A	*	A10-2892-08	CHASSIS CALKED ASSY		
303	1B,2B	*	A11-0721-08	SUB CHASSIS ASSY		
304	3A	*	D01-0134-08	FLYWHEEL		
305	3A		D01-0122-08	FLYWHEEL		
306	1B	*	D03-0293-08	REEL DISK ASSY		
309	1B		D10-2429-08	CASSETTE LEVER		
310	1B		D10-2430-08	LEVER		
311	1A,1B		D10-2431-08	EJECT LEVER		
312	2A,2B	*	D10-3198-08	BRAKE LEVER (L)		
313	2A	*	D10-3199-08	BLAKE LEVER (R)		
314	2A		D13-0874-08	CAM GEAR		
315	2B		D13-0875-08	IDLER GEAR		
316	2A	*	D13-0953-08	GEAR ASSY		
317	2A	*	D13-0954-08	GEAR ASSY		
320	1B		D15-0308-08	PULLEY ASSY		

E: Scandinavia & Europe K: USA P: Canada
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⚠ indicates safety critical components.

No.8

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
321	2B	*	D15-0321-08	PULLEY ASSY		
323	2A		D23-0263-08	CAPSTAN RETAINER ASSY		
324	2A		D23-0264-08	CAPSTAN RETAINER ASSY		
325	1A		D32-0191-08	STOPPER		
326	2B	*	E35-0202-08	WIRING HARNESS (4P PLAY HEAD)		
327	2B	*	E35-0203-08	WIRING HARNESS (4P REC HEAD)		
328	2B	*	E35-0204-08	WIRING HARNESS (2P ERSE HEAD)		
334	2A		F39-0053-08	REINFORCING PARTS		
336	1A		G01-2466-08	COMPRESSION SPRING		
337	1A		G01-2471-08	TORSION SPRING		
338	1B	*	G01-3413-08	COMPRESSION SPRING BLUE		
340	1B	*	G01-3416-08	TORSION SPRING		
341	2A,2B	*	G01-3423-08	TORSION SPRING (BRAKE)		
342	1B		G02-0959-08	FLAT SPRING (CASSETTE)		
343	3A		J21-5598-08	MOUNTING HARDWARE (MOTOR)		
345	1A		J21-5600-08	MOUNTING HARDWARE (ERASE HEAD)		
346	1A	*	J21-5773-08	MOUNTING HARDWARE		
347	1A		J30-0274-08	SPACER (ERASE HEAD)		
348	3A		J39-0158-08	SPACER		
355	3A		N09-2757-08	SCREW M2X3		
356	3A		N09-2758-08	SCREW M2.6X3		
357	3A		N09-2759-08	SCREW M2X8		
358	1A		N09-2760-08	SCREW		
359	1B		N09-2762-08	SCREW M2.6X1.6		
360	1A		N09-2763-08	SCREW M2X2.5		
361	3B		N09-2764-08	SCREW M2.6X8		
362	3A		N09-2765-08	SCREW M2.6X8		
363	1A	*	N09-2851-08	SCREW M2X4		
364	3A	*	N09-2852-08	SCREW M2X3		
369	2A	*	N09-2857-08	SCREW		
370	1A		N14-0189-08	NUT		
371	1A		N14-0190-08	NUT		
372	2A		N19-1235-08	FLAT WASHER /2.5X7X0.8		
373	2A		N19-1236-08	FLAT WASHER /2.2X7X0.8		
374	2A		N19-1237-08	FLAT WASHER /3X8X0.5		
375	1B		N19-1239-08	FLAT WASHER		
376	2B		N19-1240-08	FLAT WASHER /2.6X5.5X0.13		
377	1B		N19-1241-08	FLAT WASHER		
378	2A	*	N19-1275-08	FLAT WASHER		
379	2A	*	N19-1276-08	FLAT WASHER /2.6X7X0.13		
380	2A	*	N19-1277-08	FLAT WASHER		
381	2A	*	N19-1278-08	FLAT WASHER		
382	2A	*	N19-1279-08	FLAT WASHER		
383	2A	*	N19-1280-08	FLAT WASHER		
384	2A	*	N19-1281-08	FLAT WASHER		
387	2A		N30-2630-46	PAN HEAD MACHINE SCREW M2.6X30		
388	1A		N35-2012-46	BINDING HEAD MACHINE SCREW		
389	1A	*	N73-2004-46	SCREW M2X4		
394	3B	*	S74-0005-08	LEAF SWITCH		
395	2A		S90-0112-08	SWITCH WAFERS		
396	2B		T95-0118-08	PHOTO ISOLATOR		
397	3A	*	W02-1112-08	ELECTRIC UNIT		
398	3B	*	W02-1113-08	ELECTRIC UNIT		
-		*	J61-0094-08	WIRE BAND		
AM	2A	*	T42-0593-08	DC MOTOR ASSY		

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No.9

* New Parts
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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
BM	3A		D16-0299-08	MAIN BELT		
BR	1B	*	D16-0325-08	BELT		
EH	1A		T32-0309-05	ERASE HEAD		
MM	3A		T42-0560-08	DC MOTOR ASSY (CAPSTAN)		
PF	1A		D14-0319-08	PINCH ROLLER ASSY		
PR	1A	*	D14-0339-08	PINCH ROLLER ASSY		
RM	2B,3B	*	T42-0592-08	DC MOTOR ASSY		
RPH	1A	*	T34-0340-05	RECORD/PLAYBACK HEAD		

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KX-7030

SPECIFICATIONS

Track System	4-track, 2-channel stereo
Recording System	AC bias (Frequency: 210 kHz)
Heads	Playback/recording head (Combination head) ... 1
	Erasing head ... 1
Motors	DC motor × 3
Fast Winding Time	Approx. 80 seconds (C-60 tape)
Frequency Response:	
Normal Tape	20 Hz to 18,000 Hz, ±3 dB
CrO_2 Tape	20 Hz to 19,000 Hz, ±3 dB
Metal Tape	20 Hz to 20,000 Hz, ±3 dB
Signal-to Noise Ratio:	
Dolby C NR ON	75 dB (Metal tape)
Dolby B NR ON	67 dB (Metal tape)
Dolby NR OFF	59 dB (Metal tape)
Harmonic Distortion	Less than 0.7% (at 1 kHz, 3rd H.D.Metal Tape)
Wow and Flutter	0.045% (W.R.M.S.) ±0.10% (DIN)
Input sensitivity/Impedance:	
LINE IN	77.5 mV/50 kΩ
Output Level/Impedance:	
LINE OUT	490 mV/3 kΩ
Headphones	0.85 mW/8 Ω

[GENERAL]

Power Consumption	24 W
Dimensions	W: 440 mm (17-5/16″)
	H: 127 mm (5″)
	D: 324 mm (12-3/4″)
Weight (Net)	5.1 kg (11.2 lb)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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