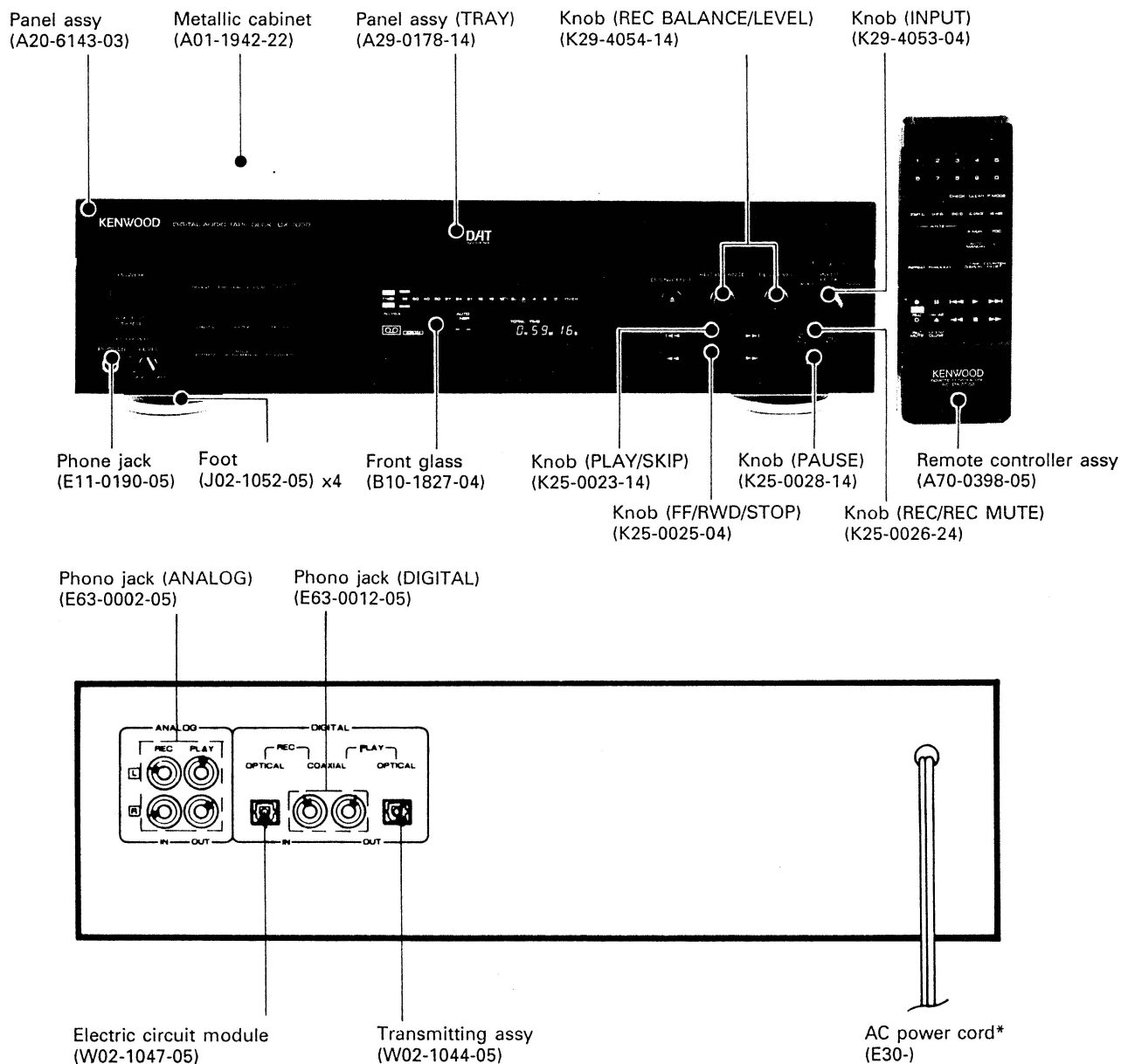


DIGITAL AUDIO TAPE DECK

DX-7030

SERVICE MANUAL

KENWOOD



* About circuit descriptions, refer to service manual (B51-4327-00).

* Refer to parts list on page 46.

CONTENTS/ACCESSORIES

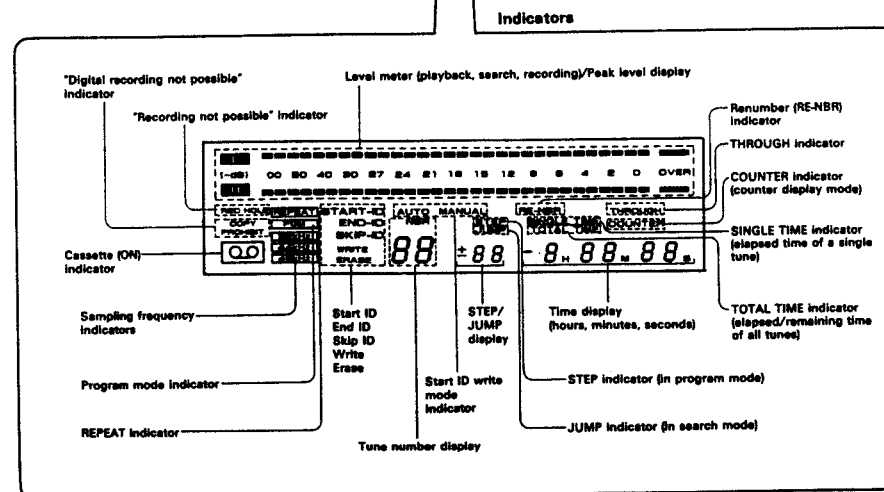
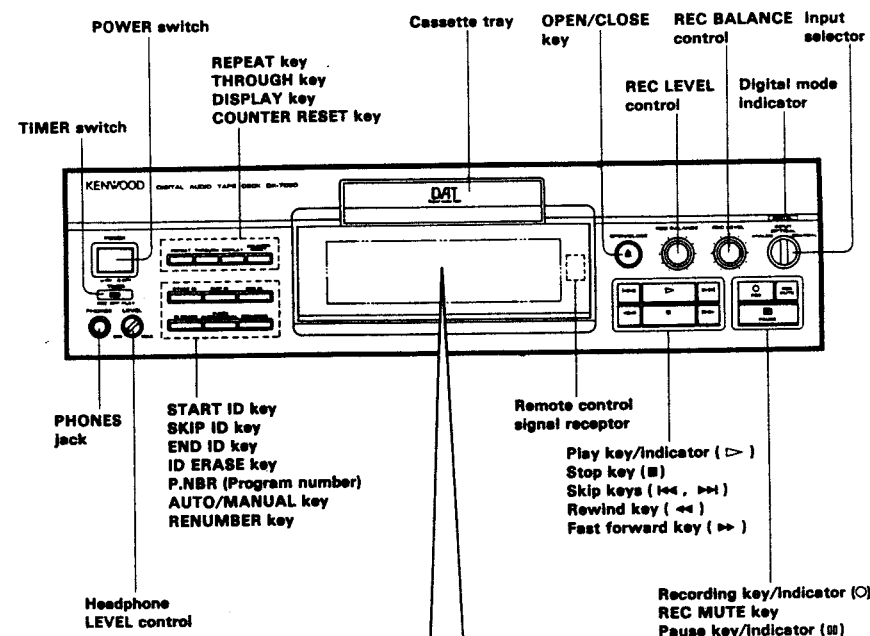
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Accessories

- Audio cord 2
(E30-0505-05)
- Remote control unit 1
(A70-0398-05)
- Battery ("AA" or "R6") 2
(-)
- Digital cords 2
(E30-2365-05)

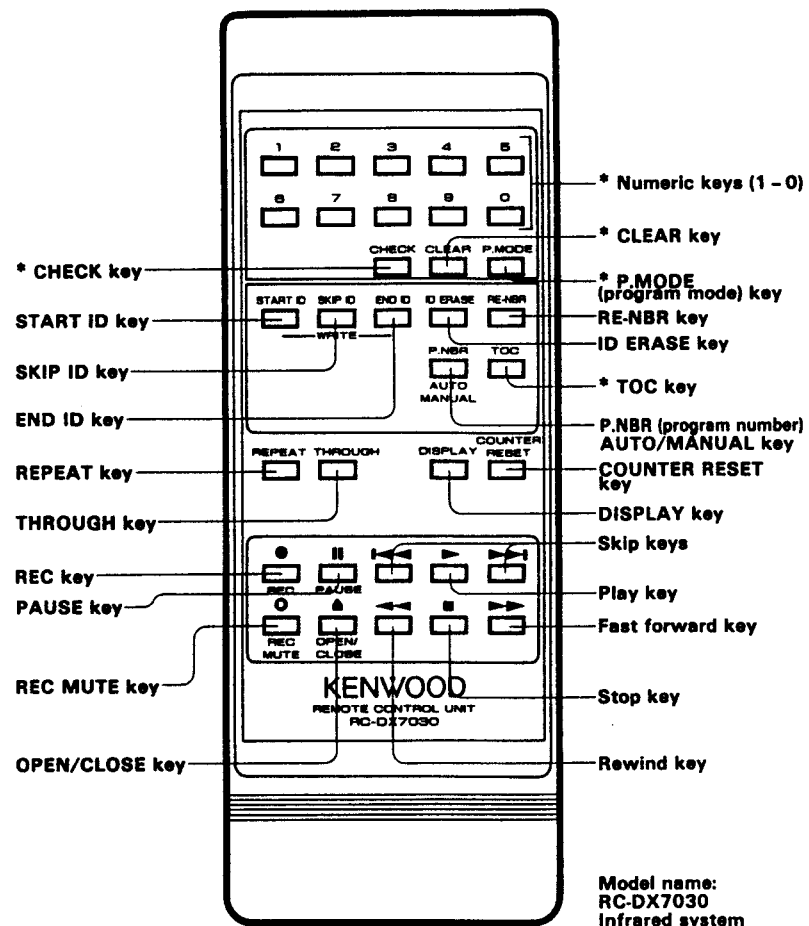


CONTROLS



REMOTE CONTROL OPERATION

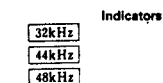
* Keys marked with an asterisk (*) are provided only on the remote control unit.



RECORDING DESCRIPTION

Sampling frequency

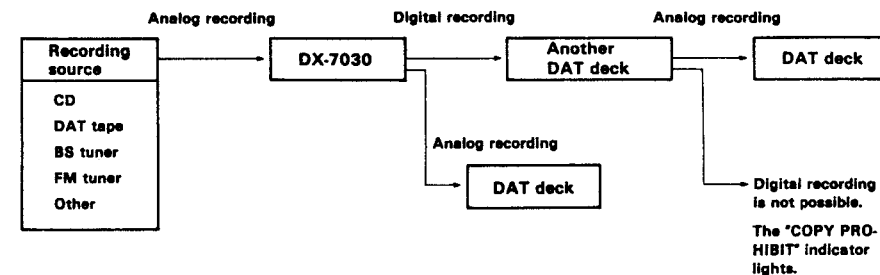
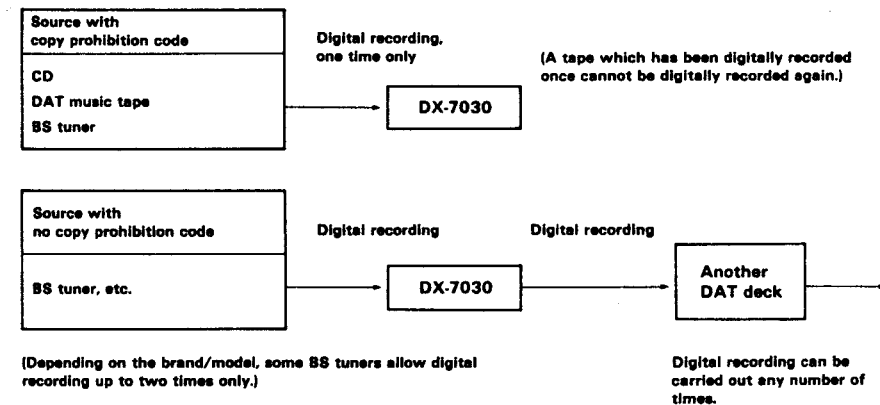
The sampling frequency is the division frequency used when an analog waveform is converted to digital. The sampling frequency indicators light up according to the sampling frequency of the current input source.
 32kHz: When a BS tuner is recorded or played in A mode; long playback DAT tapes
 44kHz: When CDs or DAT music tapes are recorded or played
 48kHz: When a BS tuner is recorded or played in B mode; when recording from an analog signal

**Copy prohibition code (SCMS: Serial Copy Management System)**

Sources which contain a copy prohibition code can be recorded only once.

When recording from an analog signal

Analog input sources do not contain copy prohibition codes and can be recorded as many times as desired.

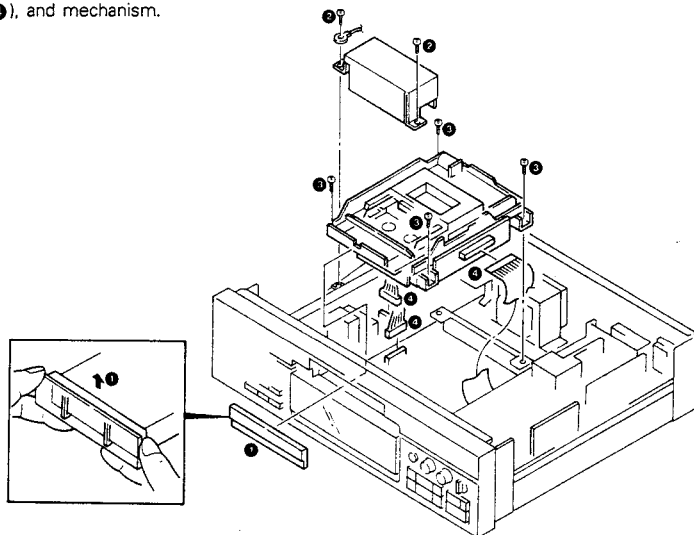
**When recording from a digital source**

DX-7030

DISASSEMBLY FOR REPAIR

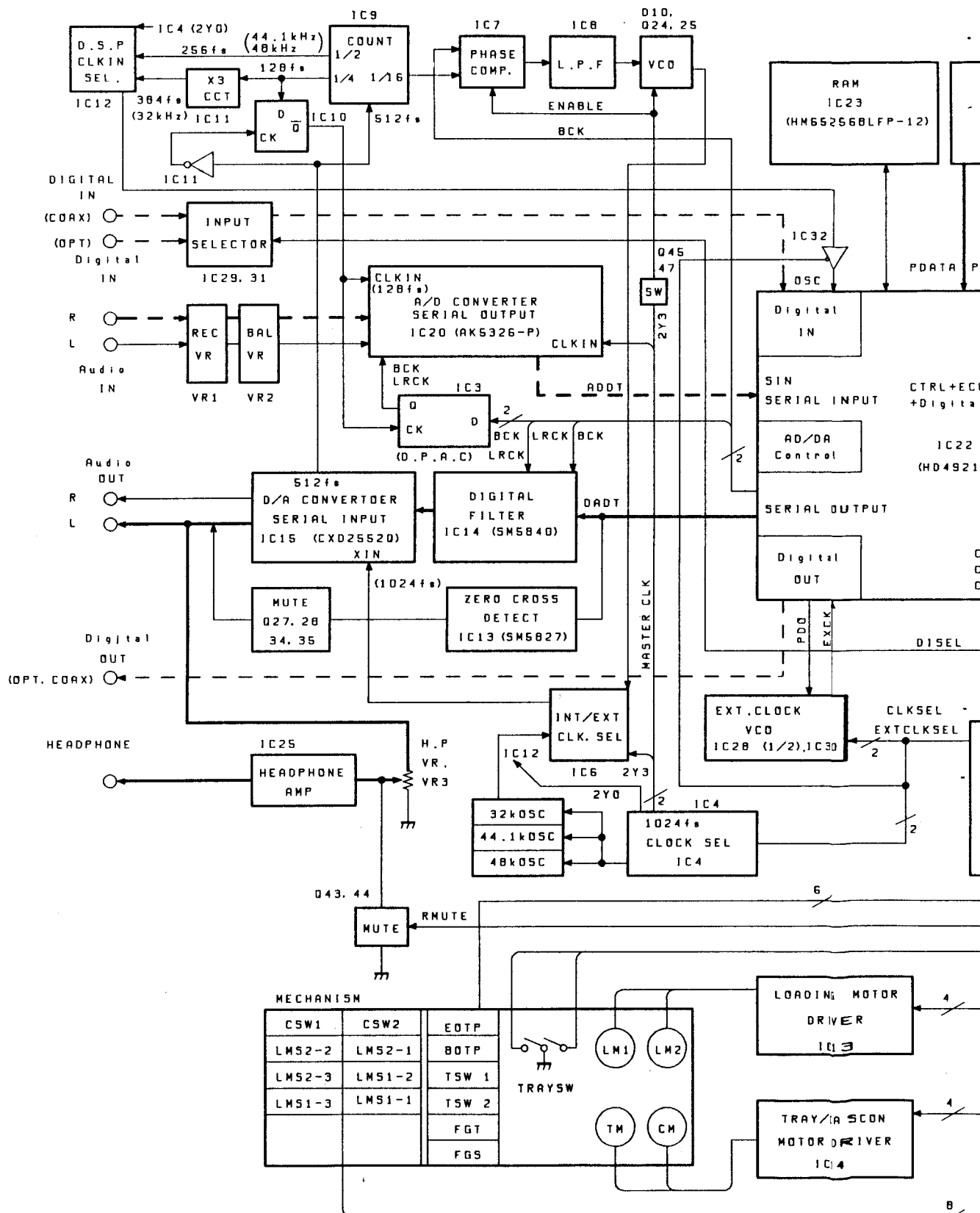
How to Disassemble Mechanism

1. Remove the tray panel (1).
2. Remove 2 screws (2), and shield cover.
3. Remove 4 screws (3).
4. Remove 3 connectors (4), and mechanism.



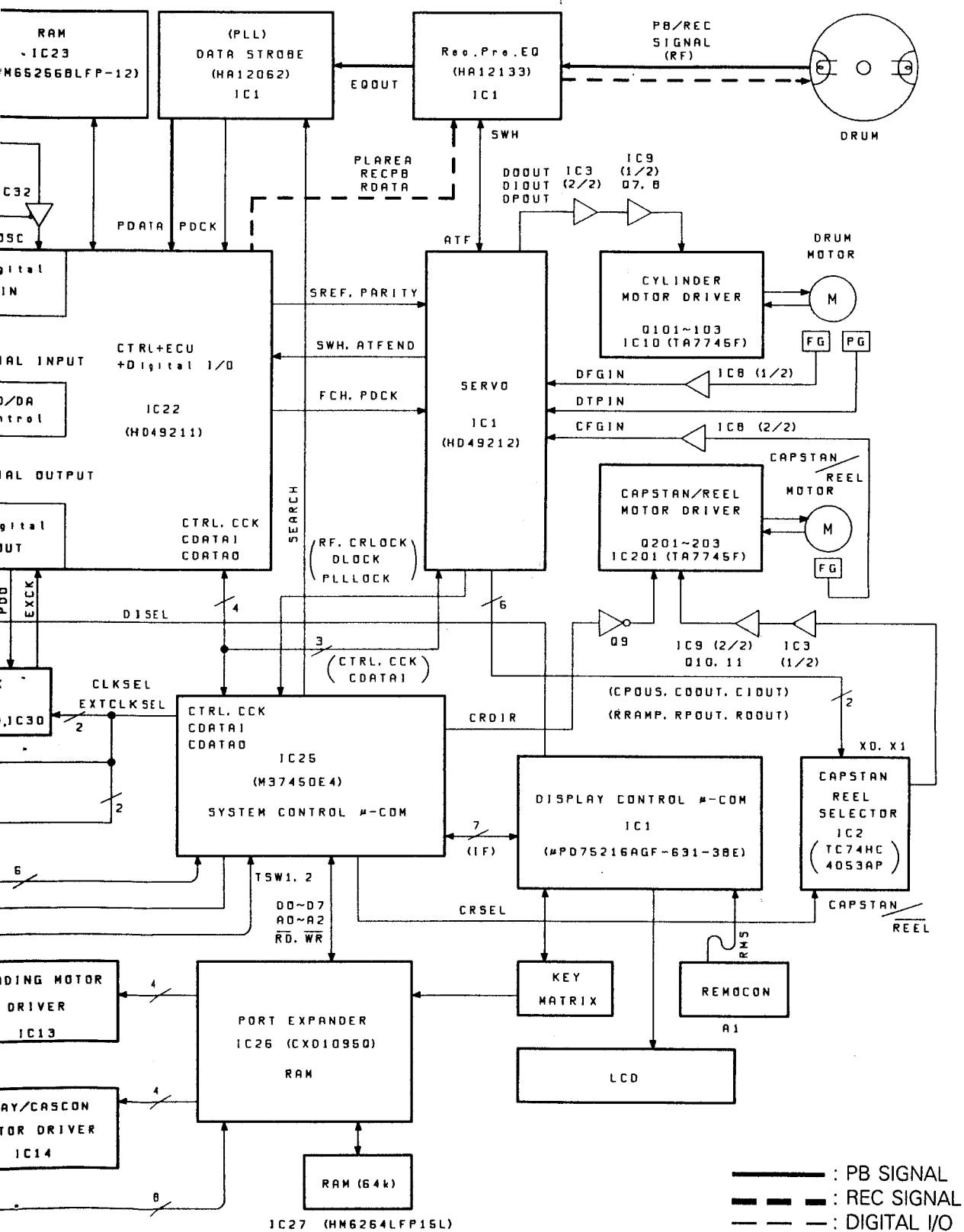
DX-7030 D

BLOCK DIAGRA



30 DX-7030

LOCK DIAGRAM



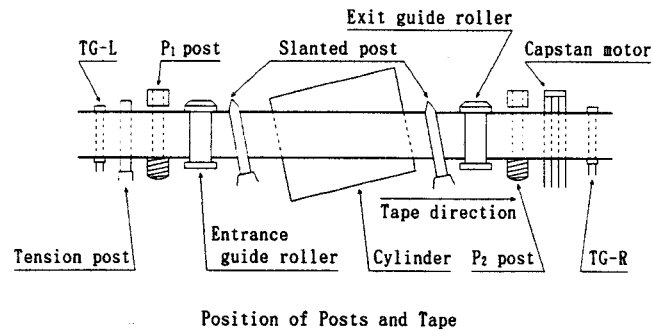
ADJUSTMENT (MECHANISM)

ADJUSTMENT (MECHANISM)

ADJUSTING THE MECHANISM

Tape Run Post System

The tape run post system consists of nine posts, cylinder, and capstan motor shown in the figure below. The capstan motor runs the tape at a constant speed and the tape runs steadily along the nine posts.



Preparing for Adjustment

1. Checking the height of the guide roller

No adjustment is necessary unless the tape edges are wrinkled or folded. No adjustment is necessary unless the RF waveform is correct as shown in the figure.

2. Connection points of the measuring instrument

Connect the oscilloscope as follows:

CH1: CN7 pin 3 (RF)

CH2: CN8 pin 6 (SWH)

Trigger: Use the CH2 SWH. SWH "L" → Ach, "H" → Bch

3. Load the test tape TY7251 for the adjustment.

4. Turn on the test mode switch (S1) on the X29 board.

Adjustment

1. Press the PLAY key and check the RF waveform. Check the parts that require adjustment. (To be adjusted in the entrance or exit?)
2. Press the AUTO/MANUAL key and set to MANUAL. (The ATF servo goes off, then.)
3. According to the adjustment guide, adjust the RF envelope of each waveform the correct waveform.

Envelope waveform

	Tape floated		Tape sunk		Correct waveform
	Entrance	Exit	Entrance	Exit	
Adjustment guide	Turn the entrance guide roller clockwise (lower the guide roller) to flatten the envelope.	Turn the exit guide roller clockwise (lower the guide roller) to flatten the envelope.	Turn the entrance guide roller counterclockwise (raise the guide roller) to float the tape. Rotate the entrance guide roller clockwise to flatten the envelope.	Turn the exit guide roller counterclockwise (raise the guide roller) to float the tape. Rotate the exit guide roller clockwise to flatten the envelope.	

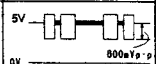
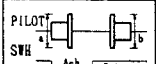
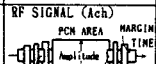
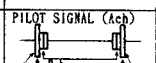
Note: Dot lines indicate the envelope waveform when the tape floats or sinks significantly.

After adjustment, lock the guide rollers with the guide roller clamp screw (in the unloading status). Play the tape again and check for any changes in the envelope waveform.

First, adjust the entrance guide roller to flatten the RF envelope. Next, adjust the exit guide roller.

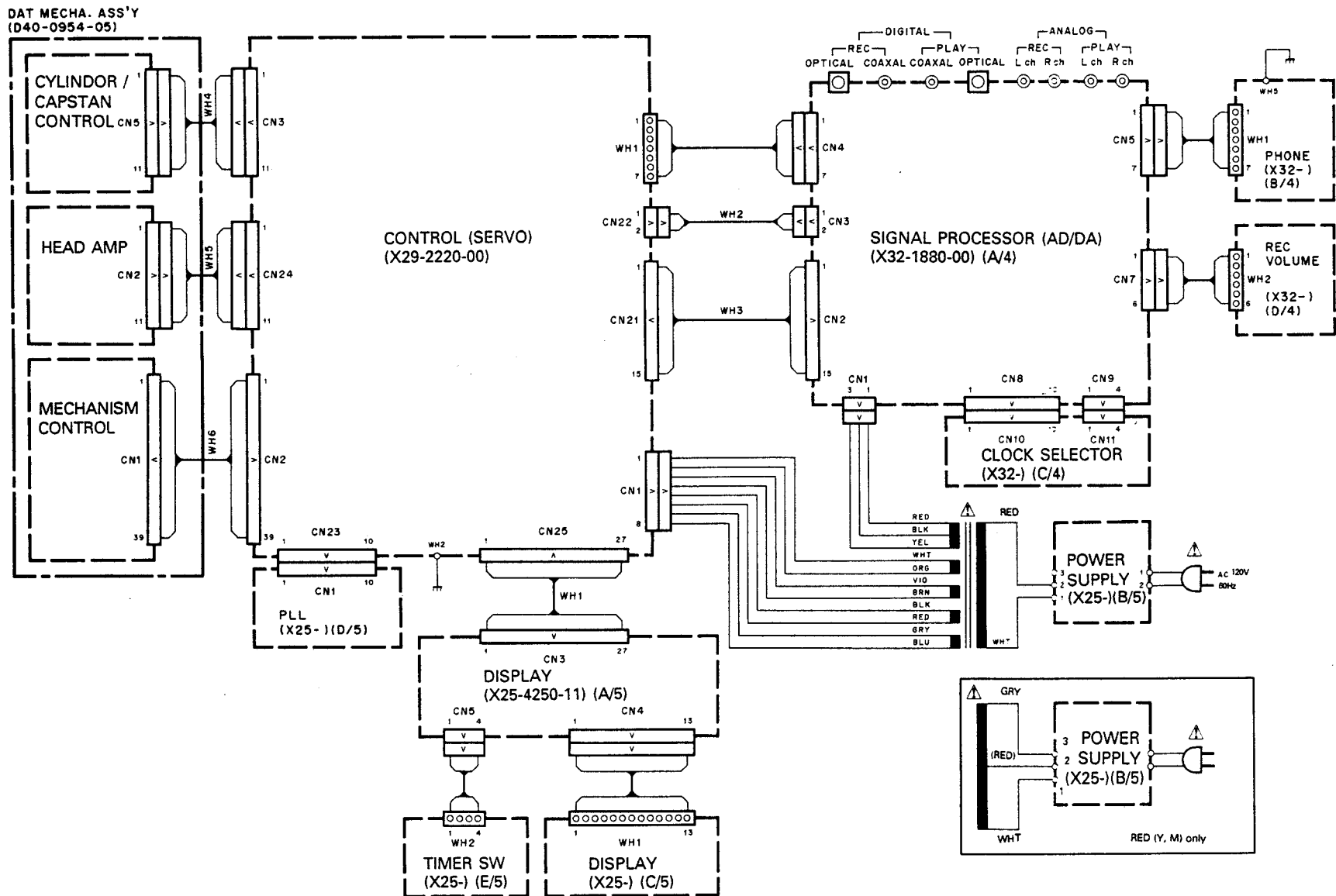
4. After adjustment, press the OPEN/CLOSE button to reload and press the PLAY key again. Confirm the RF envelope waveform is correct.

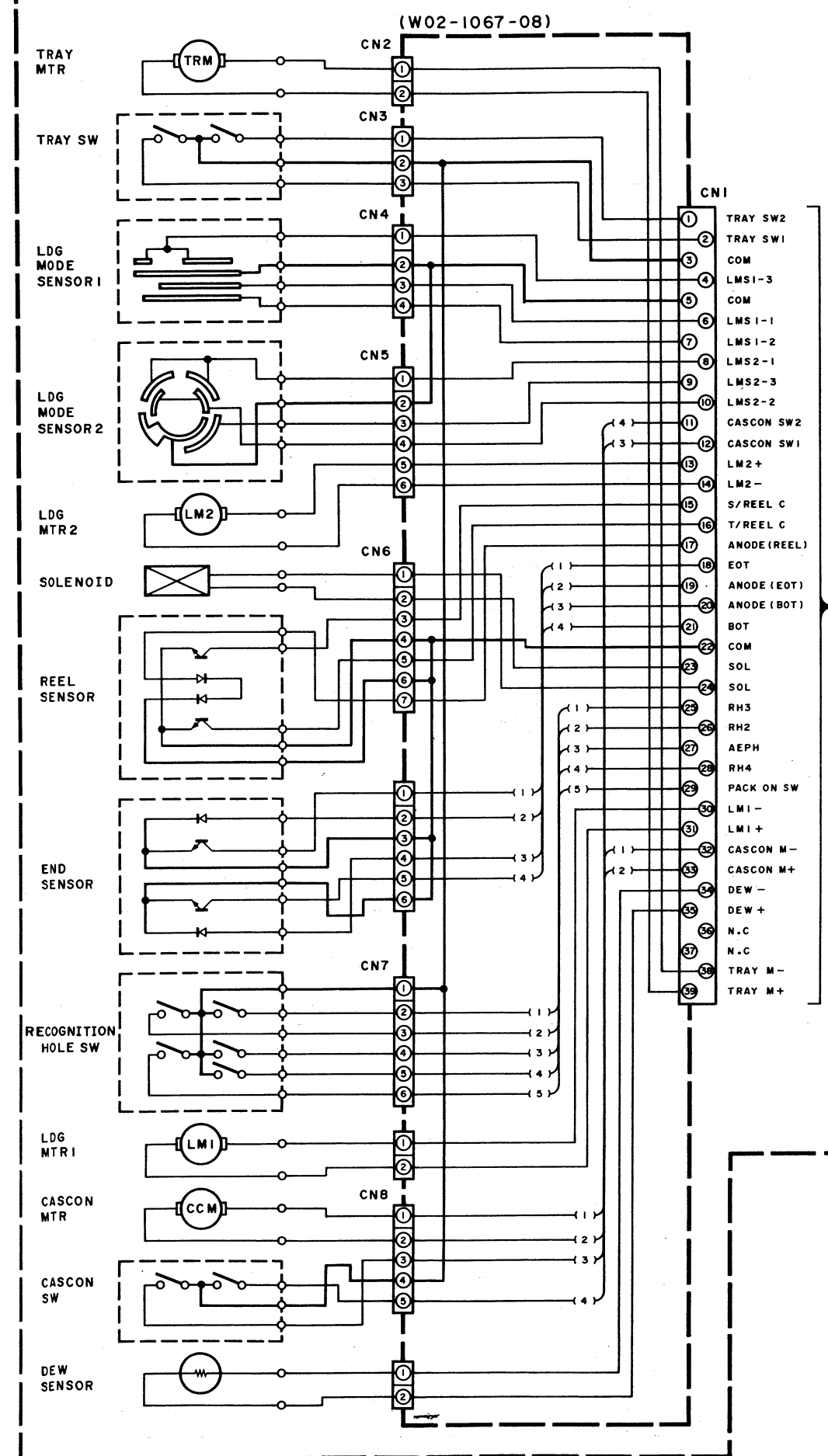
ADJUSTMENT (CIRCUIT)

No.	ITEM	INPUT SETTING	OUTPUT SETTING	SETTING	ALIGNMENT POINT	ALIGN POR	FIG.
1	PLL FREE FM FREQUENCY ADJ.	—	X25-4250-00 Connect CN2-4 (EQ) to GND. Connect FREQ. counter to CN2-2 (PDC).	STOP	L1	8.35MHz	
2	RFDT LEVEL	TY-7111 (LEVEL TAPE)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CN6-1 (RFDT) (DC Coupled) CH2: CN8-6 (SWH) (DC Coupled)	PLAY	VR1	 Adjust RFDT to 600mVp-p.	
3	ATF GAIN	TY-7111 (LEVEL TAPE)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CN7-1 (PILOT) (AC Coupled) CH2: CN8-6 (SWH) (DC Coupled)	PLAY	Ach: VR3 Bch: VR4	 Adjust a and b to 200mVp-p.	
4	TACH PULSE	TY-7251 (TRACKING)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CN6-4 (TACH) (DC Coupled) CH2: CN8-6 (SWH) (DC Coupled)	PLAY	VR2	 Adjust TACH pulse width.	
5	EQ ADJ	TY-7551 (FUNCTION)	X29-2220-00 (2/2) Connect an oscilloscope as follows: CH1: CN8-3 (FLAG) (DC Coupled)	PLAY	(RF unit of mechanism) VR5	Optimum eye pattern or minimum pulse of "H" level.	
6	VCO(DIGITAL IN PLL)	Non-Recorded tape. Connect DIGITAL SG (or CD player with DIGITAL-OUT) set to $f_s=44.1\text{kHz}$ to DIGITAL IN.	X32-1880-00 Connect an AC voltmeter to CN12-FC.	TEST MODE ↓ RECORD	L1	1.5 ± 0.2V	
7	RECORDING CURRENT (PCM 1.5MHz)	TEST TAPE TY-7111 (LEVEL)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CN7-3 (RF) (AC Coupled) CH2: CN8-6 (SWH) (DC Coupled) Trigger: CH2	PLAY		 Check amplitude of PCM area in Ach and Bch.	
		BLANK TAPE	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CN7-3 (RF) (AC Coupled) CH2: CN8-6 (SWH) (DC Coupled) Trigger: CH2 If adjust Bch, set trigger to (+) positive.	REC ↓ REW ↓ PLAY	Ach: VR2 Bch: VR1 (RF unit of mechanism)	Adjust PCM area's amplitude to the same one in playback and recording repeatedly.	
8	RECORDING CURRENT (PILOT 130kHz)	TEST TAPE TY-7111 (LEVEL)	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CN7-1 (PILOT) (AC Coupled) CH2: CN8-6 (SWH) (DC Coupled) Trigger: CH2	PLAY		 Check pilot levels of Ach and Bch.	
		BLANK TAPE	X29-2220-00 (1/2) Connect an oscilloscope as follows: CH1: CN7-1 (PILOT) (AC Coupled) CH2: CN8-6 (SWH) (DC Coupled) Trigger: CH2 If adjust Bch, set trigger to (+) positive.	REC ↓ REW ↓ PLAY	Ach: VR4 Bch: VR3 (RF unit of mechanism)	Adjust amplitude of pilot levels to the same in playback and recording repeatedly.	

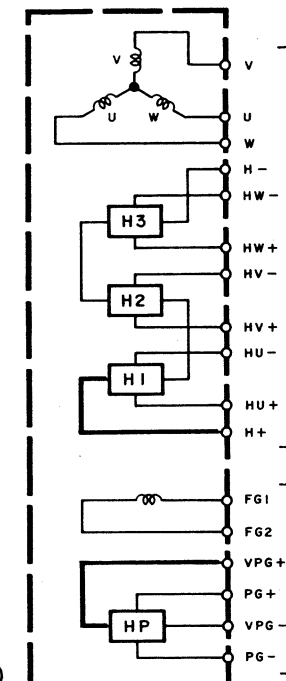
* Connect an oscilloscope CH2 to SWH terminal for triggering while adjustment No.2 to 5.

WIRING

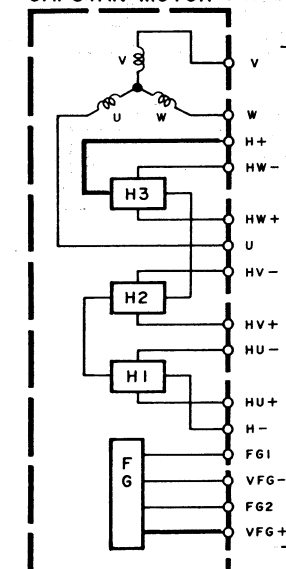




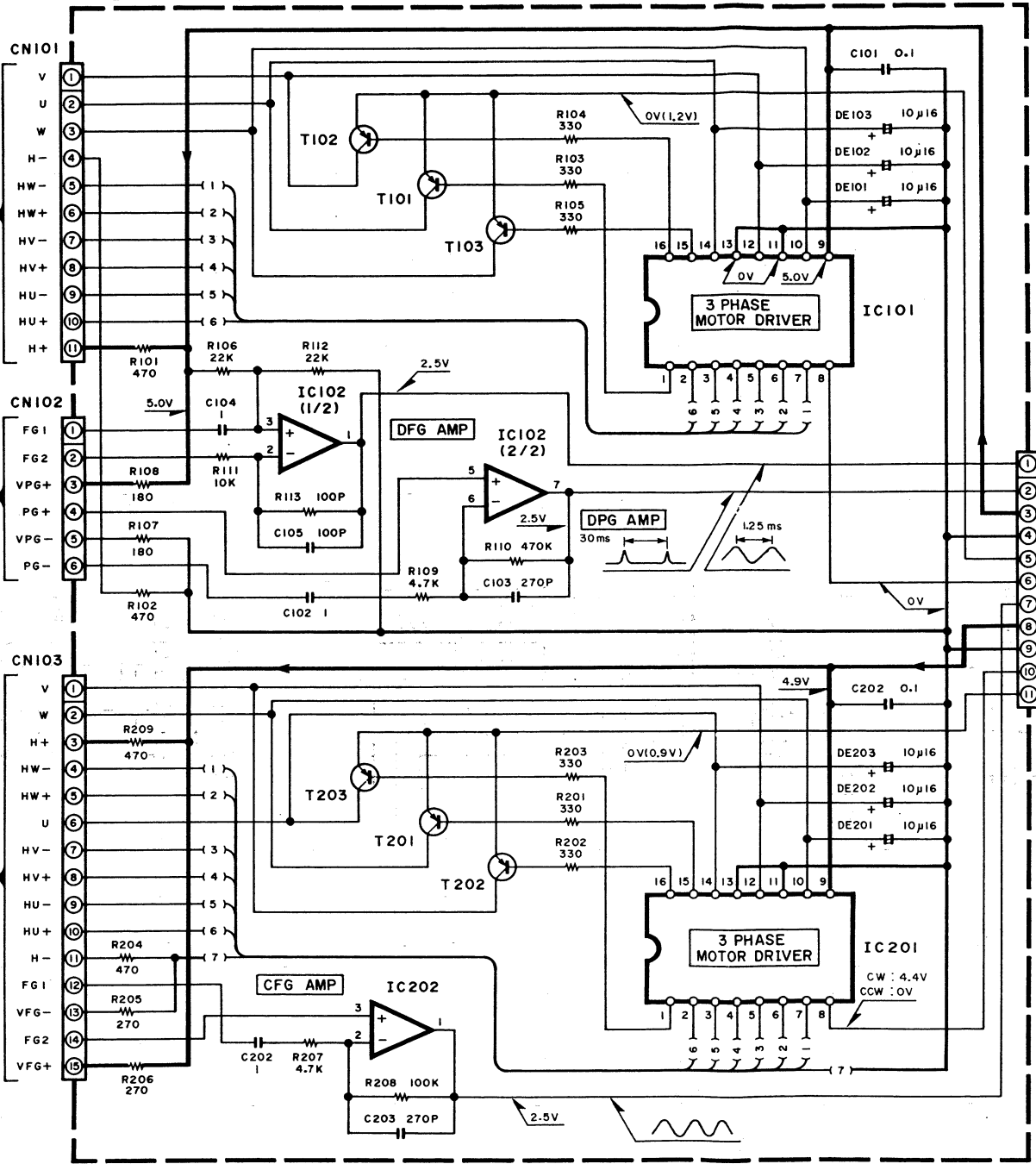
CYLINDOR MOTOR



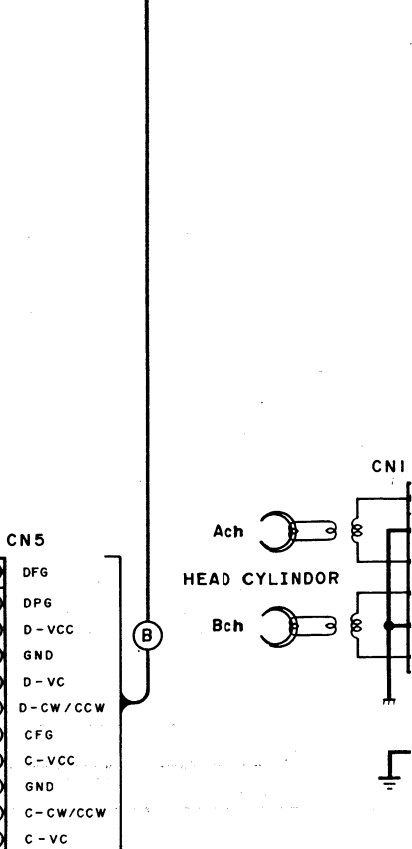
CAPSTAN MOTOR



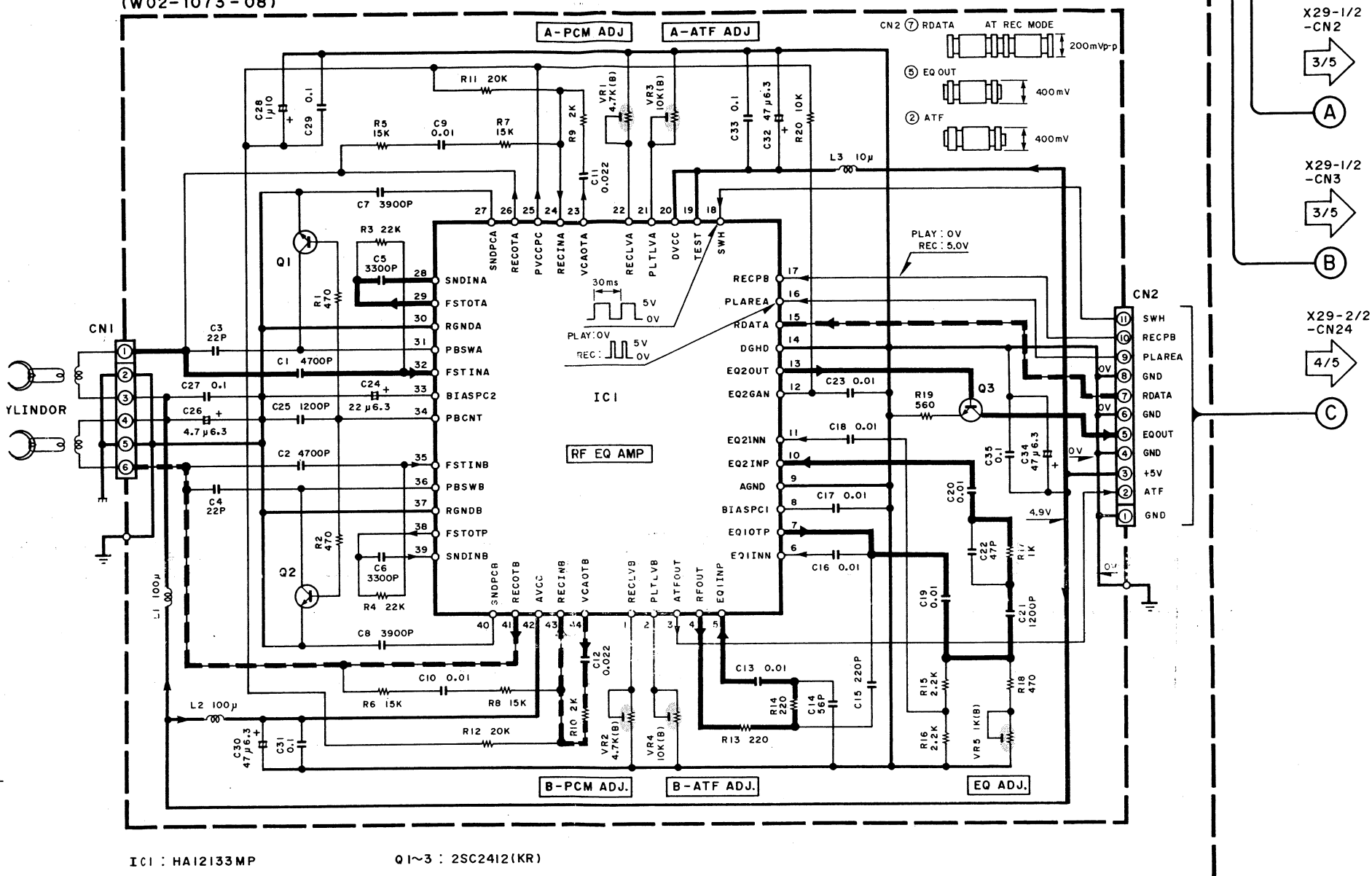
(W02-1068-08)



IC101,201 : TA7745F
IC102,202 : μ PC358
T101 ~ 103, 201 ~ 203 : 2SA1314



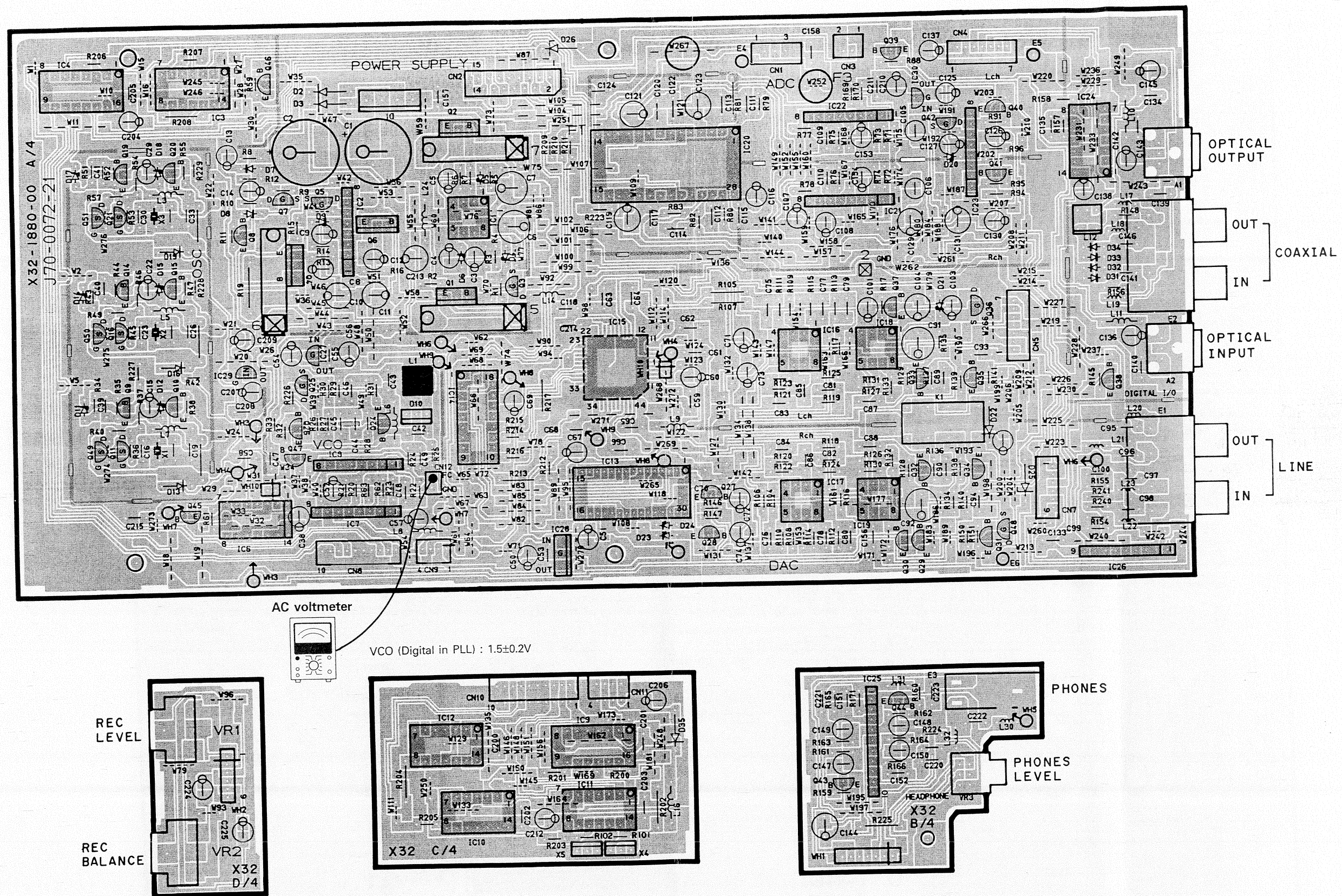
(W02-1073-08)

X29-1/2
-CN23/5
AX29-1/2
-CN33/5
BX29-2/2
-CN244/5
C

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

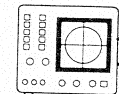
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

PC BOARD (COMPONENT SIDE VIEW)



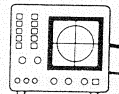
Refer to the schematic diagram for the values of resistors and capacitors.

Oscilloscope



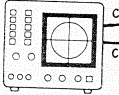
TACH pulse
: Adjust TACH pulse width

Oscilloscope

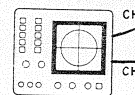


RFDT level
: Adjust RFDT to 600mVp-p.

Oscilloscope

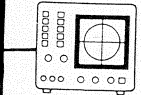


Recording current
(PILOT 130kHz)
• Test tape TY-7111 (level)
• Check pilot levels of Ach and Bch.
• Blank tape
: Adjust amplitude of pilot levels to the same in playback and recording repeatedly.

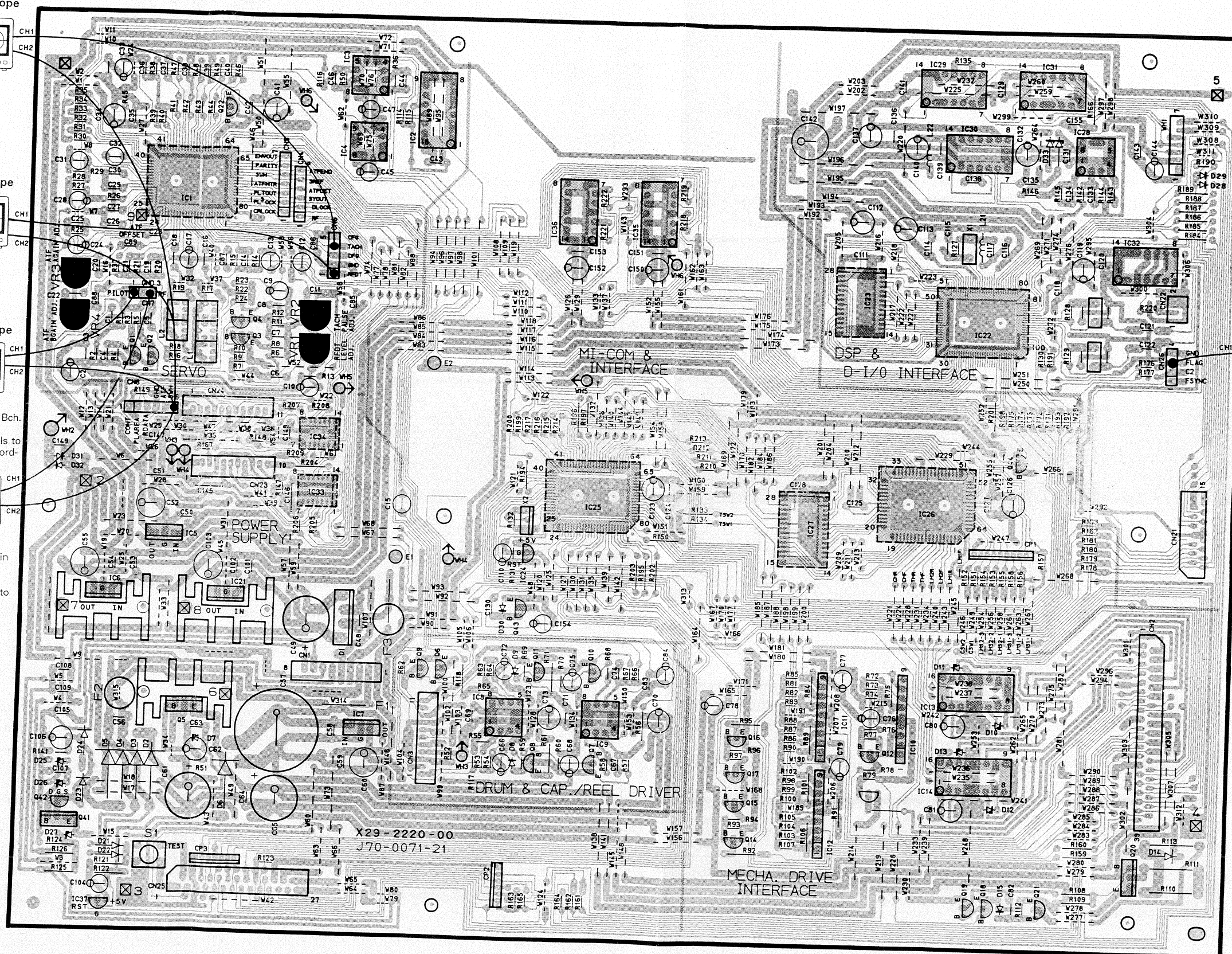


Recording current
(PCM 1.5MHz)
• Tape test TY-7111 (level)
• Check amplitude of PCM area in Ach and Bch.
• Blank tape
: Adjust PCM area's amplitude to the same one in playback and recording repeatedly.

Oscilloscope



EQ ADJ
: Optimum eye pattern or minimum pulse of "H" level.



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

BI

BJ

BK

BL

BM

BN

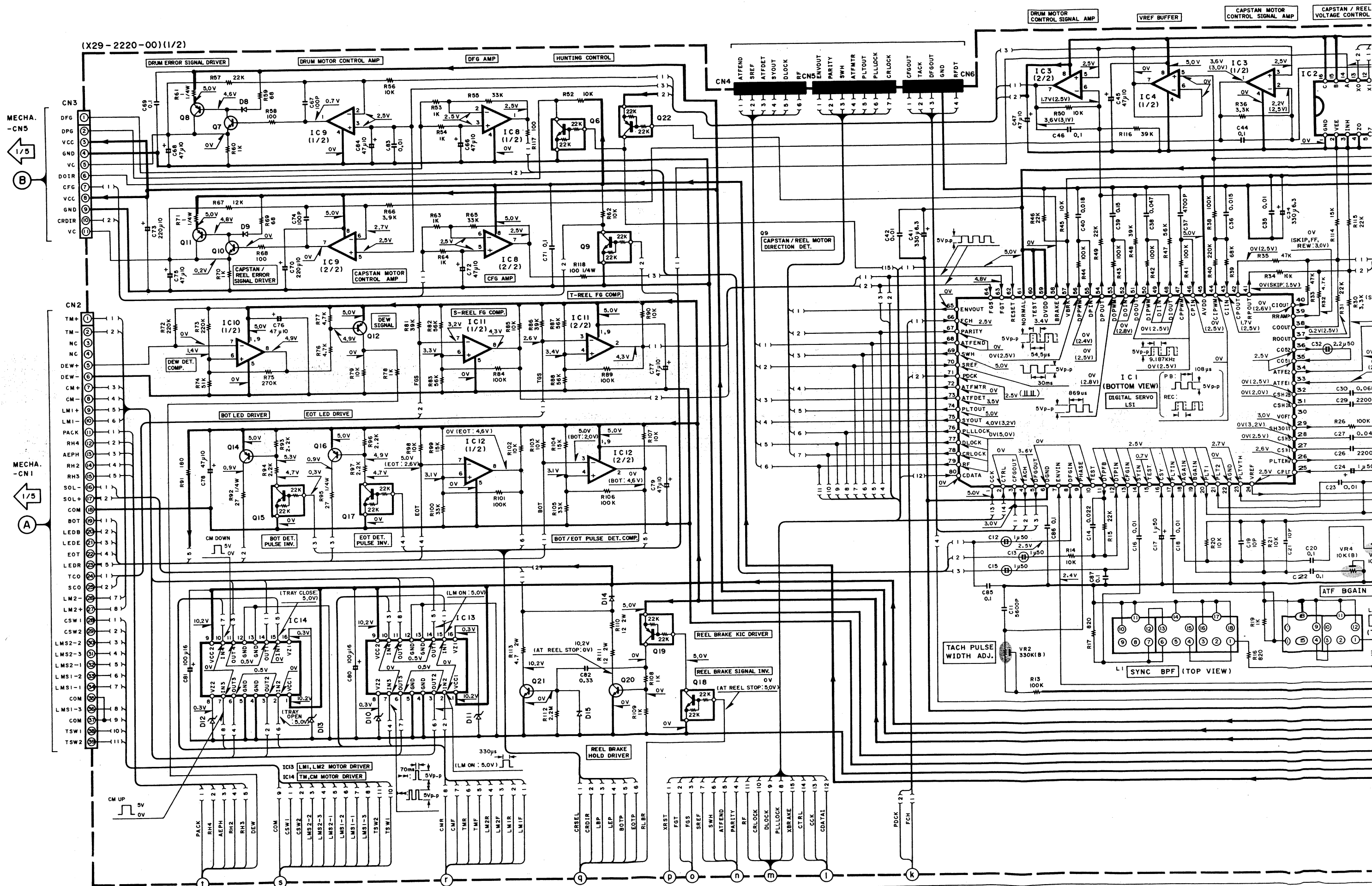
BO

BP

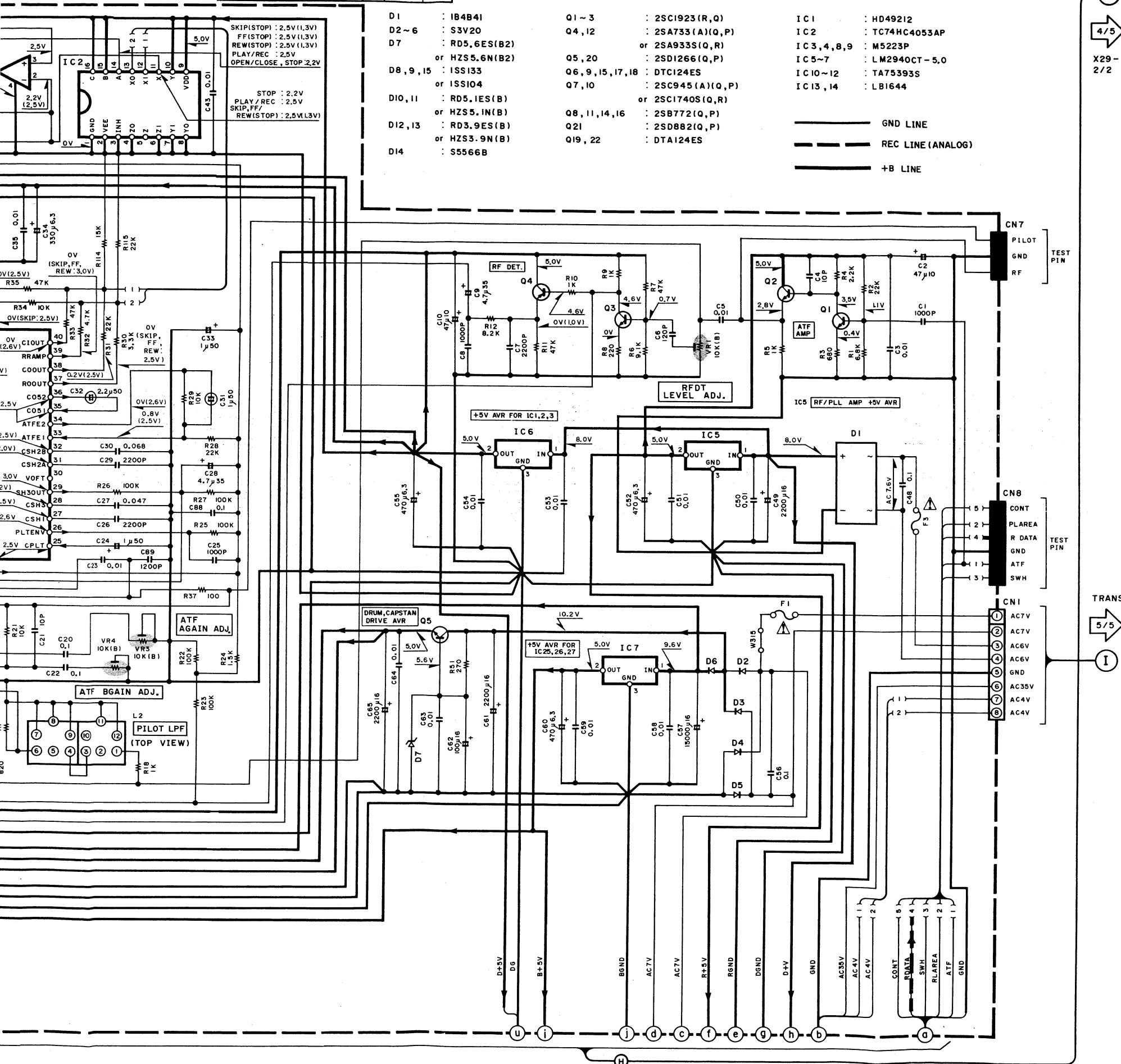
BQ

BR

(X29-2220-00)(1/2)

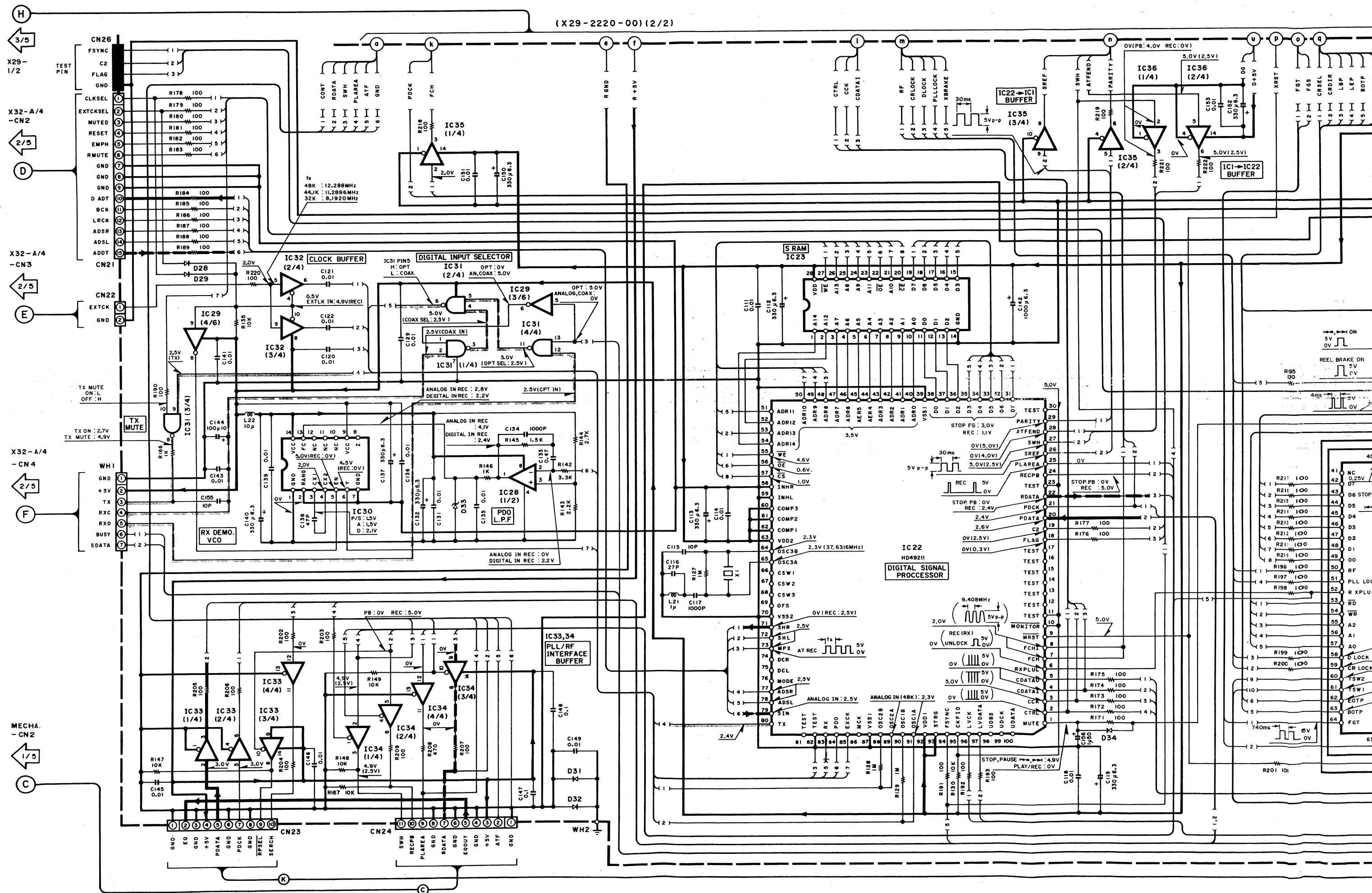


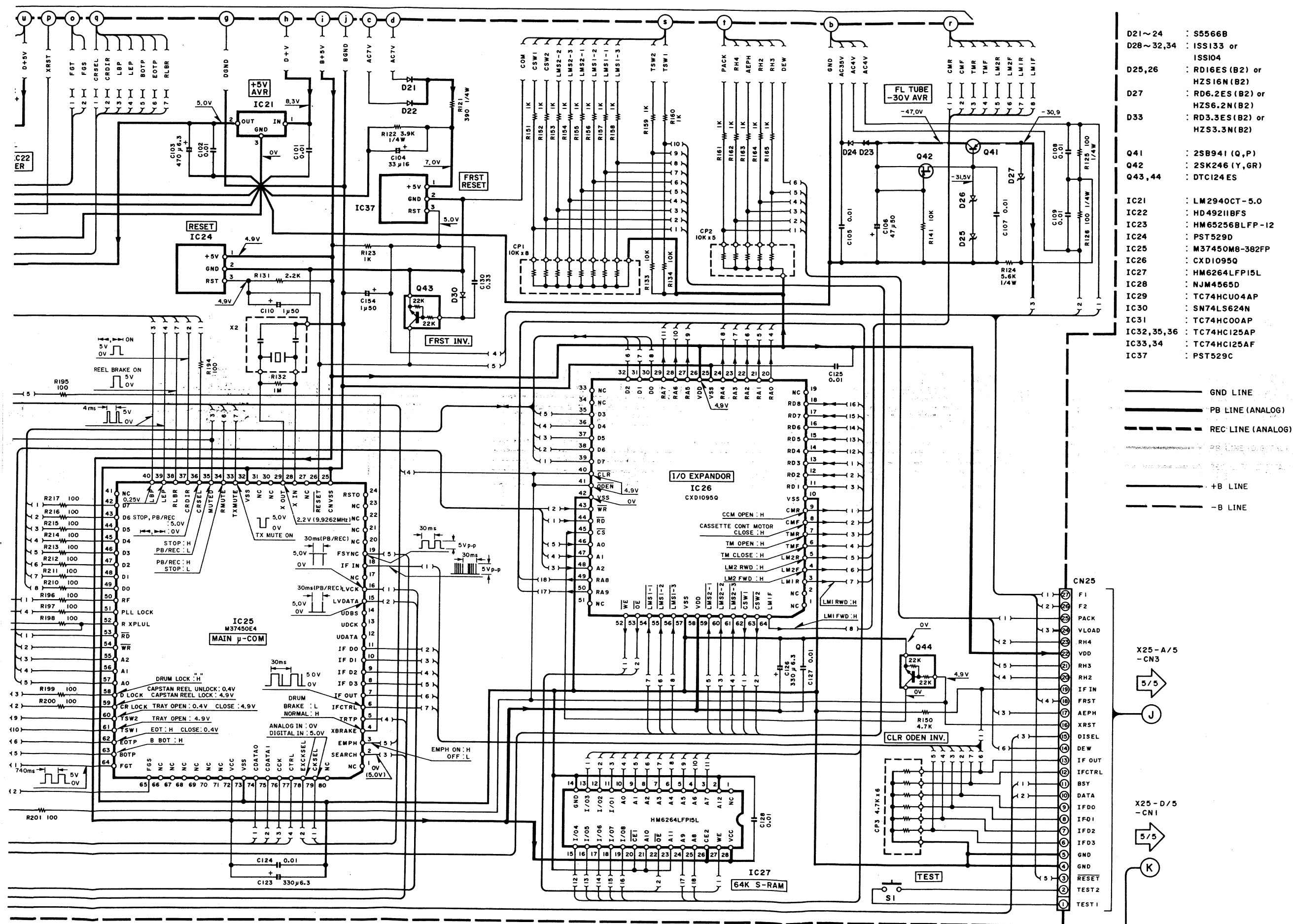
IC2		PLAY/REC	STOP	FF	REW	UNLOAD	LOAD
X1	0V	1.2V	2.5V	2.5V	2.5V	0V	0V
X0	2.5V	0V	0V	0V	0V	2.5V	2.5V



• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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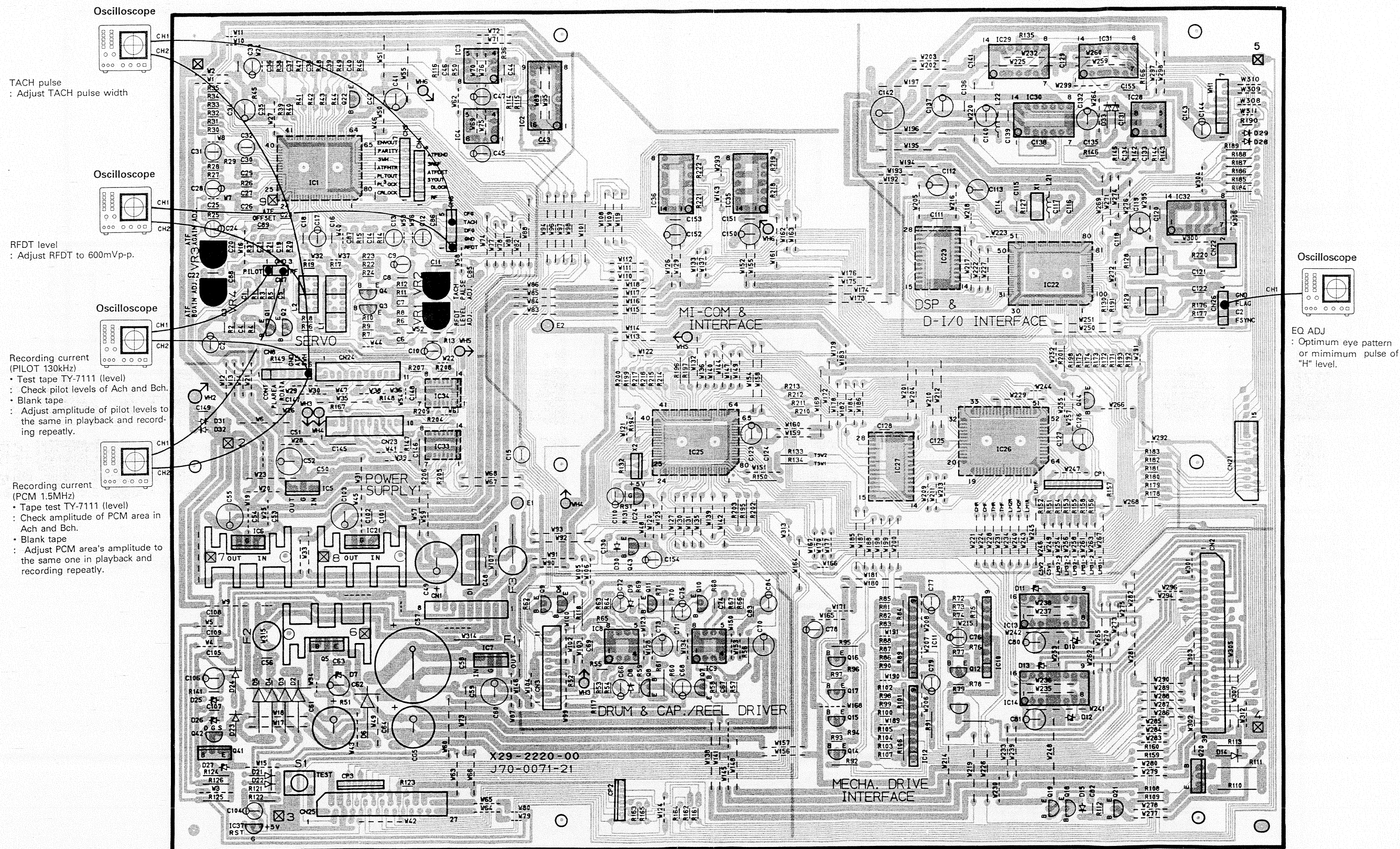
- D21~24 : S5566B
 D28~32,34 : ISS133 or ISS104
 D25,26 : RD16ES (B2) or HZS16N (B2)
 D27 : RD6.2ES (B2) or HZS6.2N (B2)
 D33 : RD3.3ES (B2) or HZS3.3N (B2)
 Q41 : 2SB941 (Q,P)
 Q42 : 2SK246 (Y,GR)
 Q43,44 : DTC124ES
 IC21 : LM2940CT-5.0
 IC22 : HD49211BFS
 IC23 : HM65256BLFP-12
 IC24 : PST529D
 IC25 : M37450M8-382FP
 IC26 : CXD1095Q
 IC27 : HM6264LFP15L
 IC28 : NJM4565D
 IC29 : TC74HC04AP
 IC30 : SN74LS624N
 IC31 : TC74HC00AP
 IC32,35,36 : TC74HC125AP
 IC33,34 : TC74HC125AF
 IC37 : PST529C

— GND LINE
 — PB LINE (ANALOG)
 - - - REC LINE (ANALOG)
 — PB LINE (DIGITAL)
 — +B LINE
 — -B LINE

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

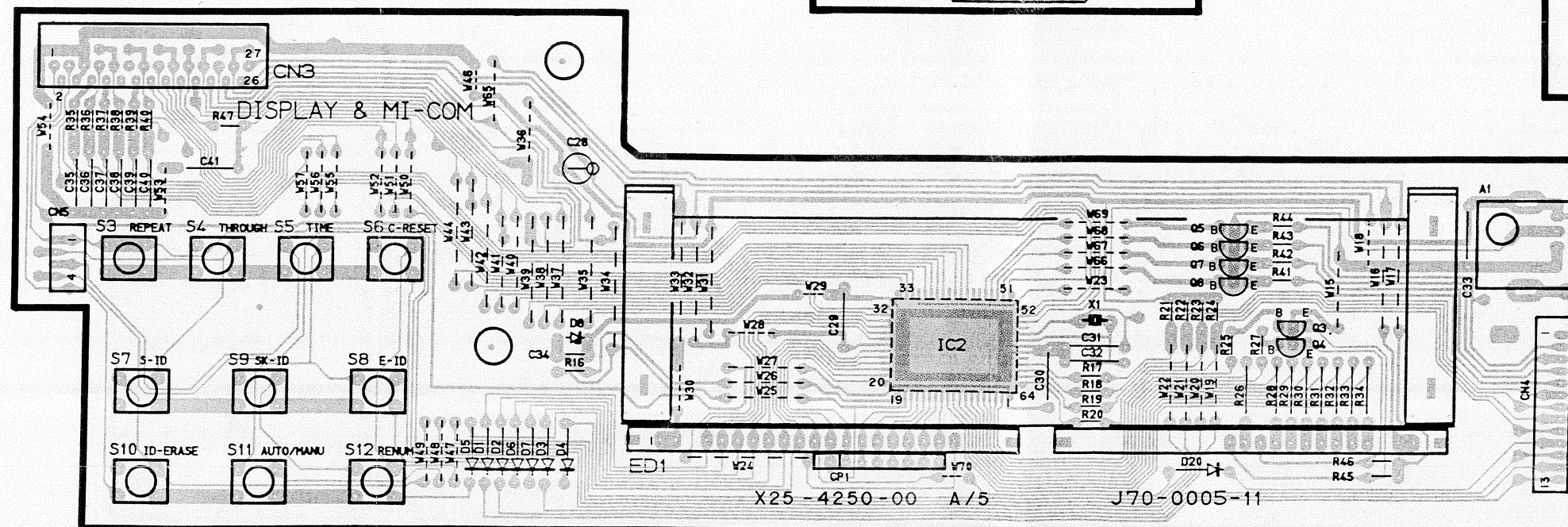
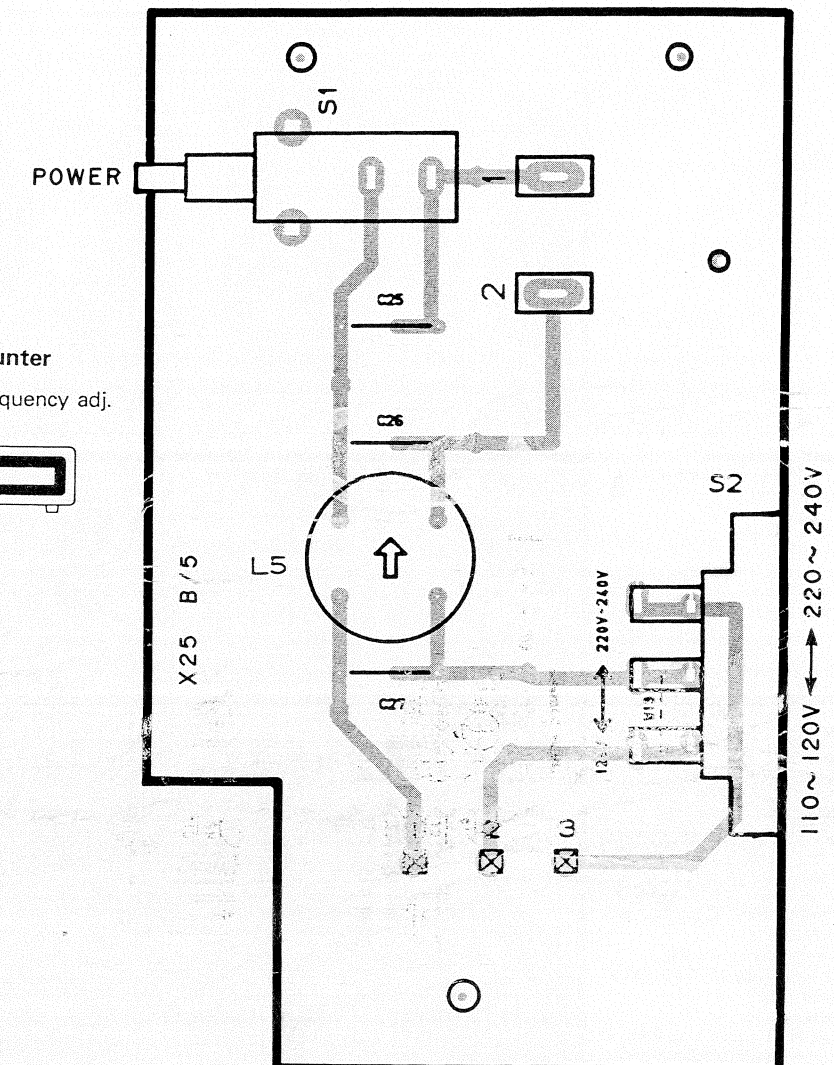
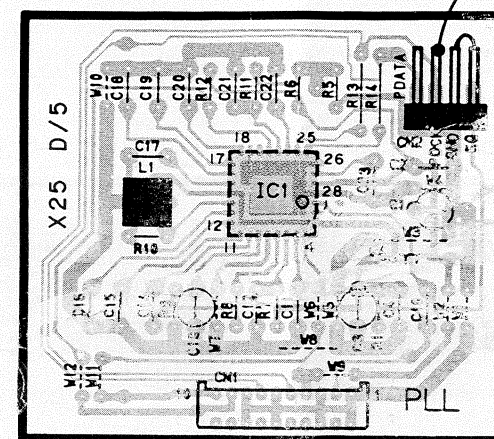
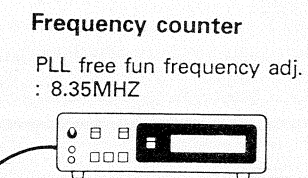
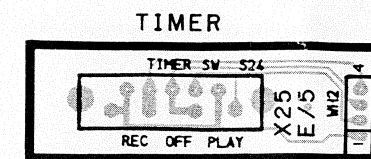
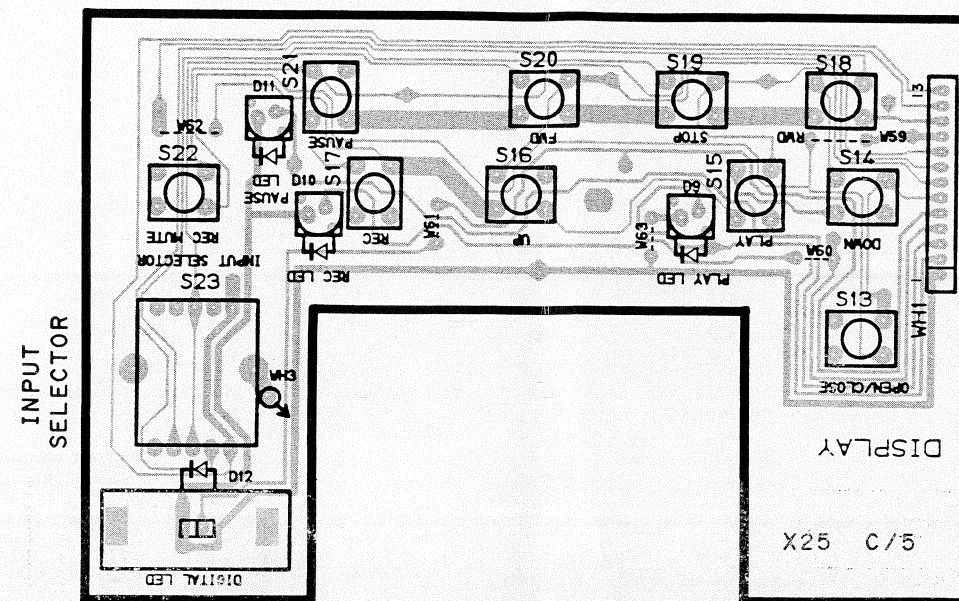
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PC BOARD (COMPONENT SIDE VIEW)



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

PC BOARD (COMPONENT SIDE VIEW)



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

DQ

DR

DS

DT

DU

DV

DW

DX

DY

DZ

X29-2/2

-CN25

4/5

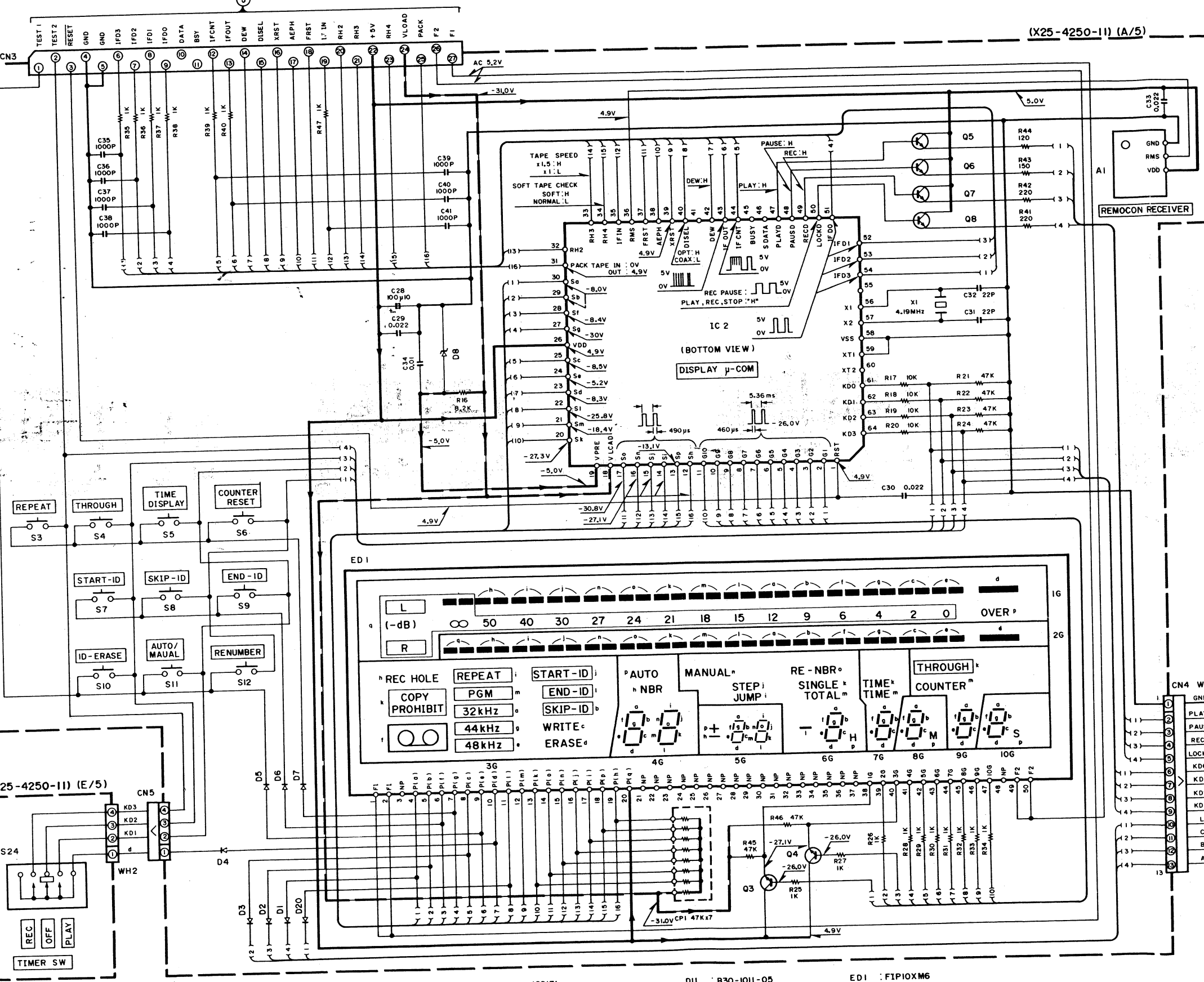
J

K

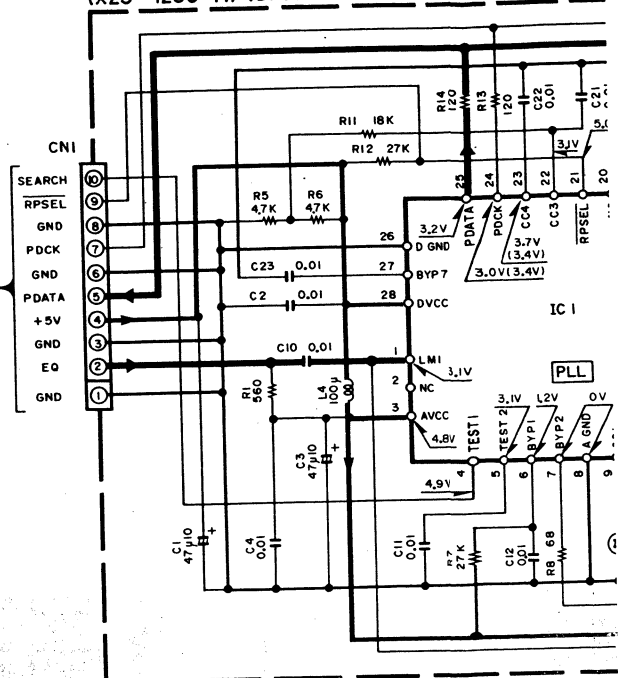
X29-2/2

-CN23

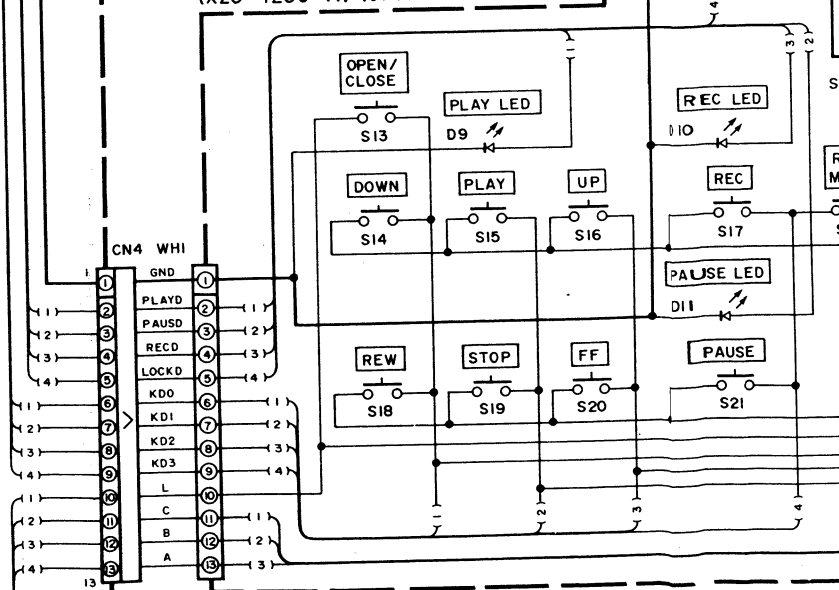
4/5

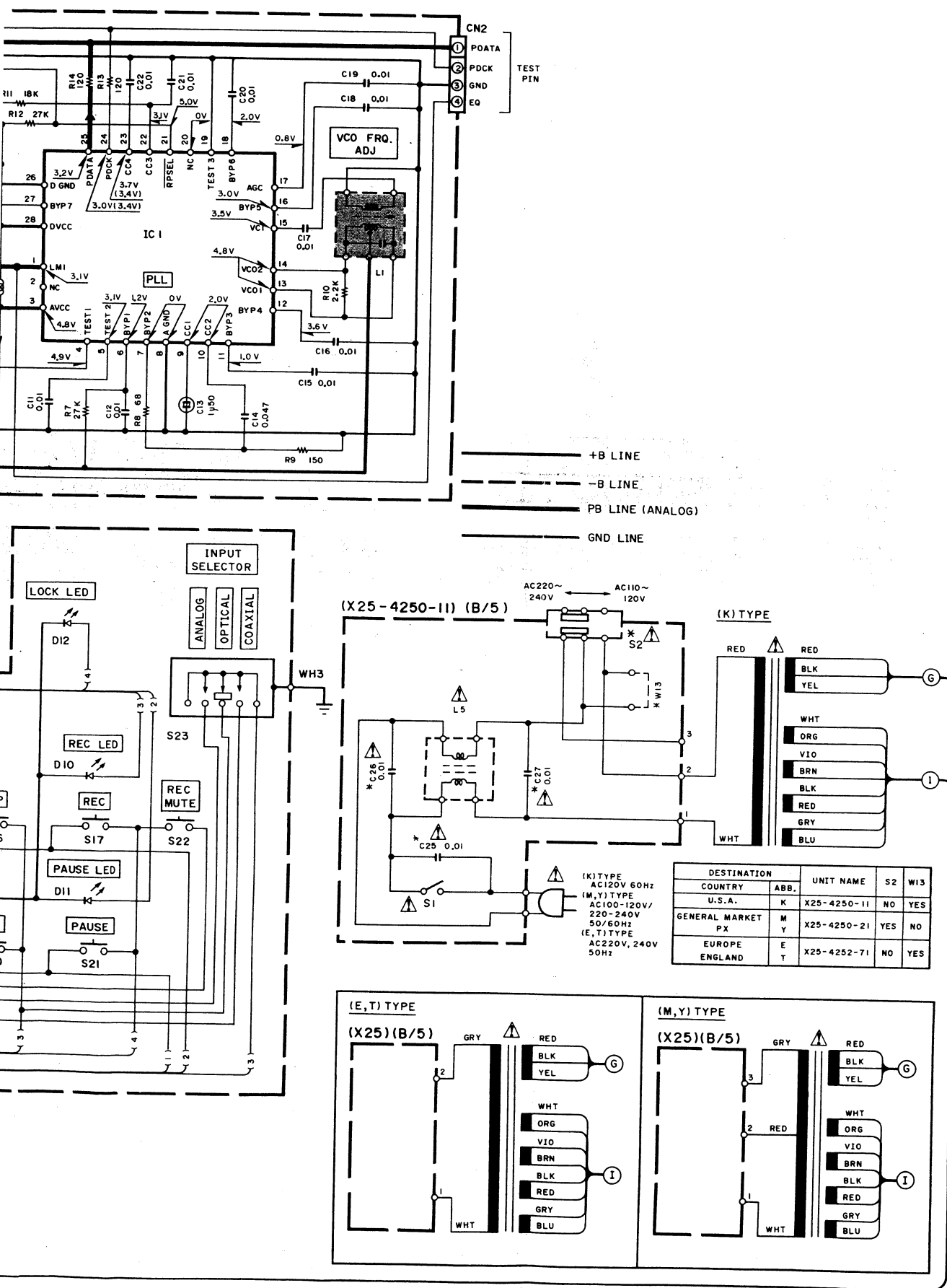


(X25-4250-11) (D/5)



(X25-4250-11) (C/5)





2SA1534A
2SC1923
2SC3940

2SA733(A)
2SC2878
2SC945(A)

2SB772
2SD882

2SD1266

2SC2021F

DTA124ES
2SA933S

DTC124ES
2SC1740S

2SB941

NJM4558D
NJM4565D

SN74LS624N

TC74HCU04AP
TC74HC00AP
TC74HC74AP

TC74HC139AP
TC74HC4053AP

NJM4558L
TA75393S

M5220L

M5223P
M5238P

TA8410AK

LM2940CT-5.0
UPC7805H

PST529D

UPC78L05J

NJM79L12A

PST529C

2SK246

2SK163
2SK170

2SK241

SM5840EP

SM5827CP

CXD1095Q

HD49212

CXD2552Q

M37450M8-382FP

LB1644

HD49211BFS

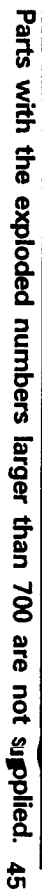
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EXPLODED VIEW (MECHANISM)



DX-7030



* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
DX-7030						
601	1I	*	A01-1942-22	METALLIC CABINET ASSY		
602	2I	*	A20-6143-03	PANEL ASSY		
603	2I	*	A22-1457-02	SUB PANEL ASSY		
604	2I	*	A29-0178-14	PANEL ASSY (TRAY)		
605	1J	*	A70-0398-05	REMOTE CONTROLLER ASSY		
606	1I		A09-0078-08	BATTERY COVER		
619	1K		B09-0068-05	CAP		
620	2I	*	B10-1827-04	FRONT GLASS		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0297-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0298-00	INSTRUCTION MANUAL(FRENCH)	E	
-		*	B60-0299-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B60-0300-00	INSTRUCTION MANUAL(GER/DUT)	E	
-		*	B60-0432-00	INSTRUCTION MANUAL(CHINESE)	M	
-		*	B60-0433-00	INSTRUCTION MANUAL(ITALIAN)	E	
625	1J	*	D21-1103-13	EXTENSION SHAFT		
629	1I		E03-0115-05	AC PLUG ADAPTER	M	
631	1K		E30-0459-05	AC POWER CORD	ME	
631	1K		E30-0505-05	AUDIO CORD		
631	1K		E30-0780-05	AC POWER CORD	K	
631	1K		E30-0812-05	AC POWER CORD	Y	
631	1K		E30-1416-05	AC POWER CORD	T	
632	1J		E30-2365-05	CORD WITH PLUG		
633	2K	*	E35-0016-05	WIRING HARNESS (2P,X29)		
634	1J	*	E35-0017-05	WIRING HARNESS (11P, GREEN)		
635	2K	*	E35-0018-05	FLAT CABLE (X29)		
636	2I	*	E35-0019-05	FLAT CABLE		
637	2K	*	E35-0020-05	FLAT CABLE (X29)		
638	1J	*	E35-0046-05	WIRING HARNESS (11P, WHITE)		
643	1J	*	F07-0577-13	COVER		
644	2I	*	F19-1028-04	BLIND PLATE		
646	1J	*	F29-0106-04	INSULATING COVER	YMTE	
648	1J	*	G10-0169-04	NON-WOVEN FABRIC		
-		*	G11-2046-04	SOFT TAPE		
-		*	G11-2060-04	SOFT TAPE		
-		*	G11-2061-04	SOFT TAPE		
-		*	H01-8912-04	ITEM CARTON CASE		
-		*	H10-5071-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5072-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H20-0568-04	PROTECTION COVER	M	
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0368-04	PROTECTION BAG	KYTE	
654	2J, 2K		J02-1052-05	FOOT		
655	2K		J19-2855-15	UNIT HOLDER		
656	1J		J19-3163-05	UNIT HOLDER		

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参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
657	1K	*	J19-3329-05	UNIT HOLDER		
658	1J	*	J19-3336-04	HOLDER		
659	1K	*	J19-3337-04	HOLDER		
660	1J	*	J19-3338-03	HOLDER		
661	2I	*	J21-3326-05	JACK MOUNTING HARDWARE		
662	1K	*	J42-0083-05	POWER CORD BUSHING		
-		*	J21-5666-04	MOUNTING HARDWARE		
-			J61-0033-05	WIRE BAND		
-			J61-0307-05	WIRE BAND		
665	2I	*	K25-0023-14	KNØB ASSY (PLAY/SKIP)		
666	2I	*	K25-0025-04	KNØB (FF/RWD/STOP)		
667	2J	*	K25-0026-24	KNØB ASSY (REC/REC MUTE)		
668	2I	*	K25-0028-14	KNØB ASSY (PAUSE)		
669	2I	*	K29-2507-04	KNØB (LEVEL)		
670	1I		K29-3835-04	KNØB (POWER)		
671	2J	*	K29-4053-04	KNØB (INPUT)		
672	2I	*	K29-4054-14	KNØB (REC BALANCE/LEVEL)		
675	1K	*	L07-0199-15	POWER TRANSFORMER	K	
675	1K	*	L07-0200-15	POWER TRANSFORMER	TE	
675		*	L07-0201-15	POWER TRANSFORMER	YM	
675		*	L92-0028-05	FERRITE CORE	TE	
-			N89-3010-46	BINDING HEAD TAPTITE SCREW		
A			N09-1445-05	SET SCREW (M3X8)		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-45	BINDING HEAD TAPTITE SCREW		
D			N86-4006-45	BINDING HEAD TAPTITE SCREW		
E			N89-3008-46	BINDING HEAD TAPTITE SCREW		
F			N09-1729-05	TAPTITE SCREW (4X8)		
G			N09-0301-05	TAPTITE SCREW (3X8)		
DISPLAY (X25-4250-11)						
684	2J	*	A33-0121-04	REFLECTOR		
D9			B30-1010-05	LED(SLP-281F-50U)		
D10			B30-1012-05	LED(SLP-981C-50)		
D11			B30-1011-05	LED(SLP-481C-50)		
D12			B30-1285-05	LED		
C1			CE04KW1A470M	ELECTRO 47UF 10WV		
C2			CK45FF1H103Z	CERAMIC 0.010UF Z		
C3			CE04KW1A470M	ELECTRO 47UF 10WV		
C4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C10 -12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			C90-1349-05	NP-ELEC 1UF 50WV		
C14			CF92FV1H473J	MF 0.047UF J		
C15 -23			CK45FF1H103Z	CERAMIC 0.010UF Z		
C25 -27			C91-0971-05	FILM 0.01UF 250WV		
C28			CE04KW1A101M	ELECTRO 100UF 10WV		
C29 ,30			C91-0085-05	CERAMIC 0.022UF N		
C31 ,32			C91-0729-05	CERAMIC 22PF J		
C33			C91-0085-05	CERAMIC 0.022UF N		
C34			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35 -41			C91-0757-05	CERAMIC 1000PF K		
L1		*	L32-0524-05	OSCILLATING COIL		
L4			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L5			L79-0733-05	LINE FILTER		

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X1			L77-1176-05	CRYSTAL RESONATOR		
CP1			R90-0438-05	MULTI-COMP 47KX7 J 1/6W		
S1	1J		S40-1153-05	PUSH SWITCH (POWER)	YM	
S2			S31-2131-05	SLIDE SWITCH (POWER TYPE)		
S3	2I, 2J		S40-1064-05	PUSH SWITCH (20KEY)		
S23	2J		S29-1151-05	ROTARY SWITCH (INPUT)		
S24	2I		S31-1030-05	SLIDE SWITCH (TIMER)		
D1	-7		HSS104A	DIODE		
D1	-7		1SS131	DIODE		
D8			HZS5.1N(B2)	ZENER DIODE		
D8			RD5.1ES(B2)	ZENER DIODE		
D20			HSS104A	DIODE		
D20			1SS131	DIODE		
ED1	2I	*	FIP10XM6	FLUORESCENT INDICATOR TUBE		
IC1		*	HA12062AMP	IC(PLL)		
IC2		*	UPD75216AGF-631	IC(DISPLAY u-COM)		
Q3	-8		2SC2021F	TRANSISTOR		
A1	1K		W02-1043-05	OPTIC RECEIVING MODULE		
SERVO (X29-2220-00)						
C1			CF92FV1H102J	MF 1000PF J		
C2			CE04KW1A470M	ELECTRO 47UF 10WV		
C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4			CC45FSL1H100D	CERAMIC 10PF D		
C5			CF92FV1H103J	MF 0.010UF J		
C6			CC45FSL1H121J	CERAMIC 120PF J		
C7			CF92FV1H222J	MF 2200PF J		
C8			CF92FV1H102J	MF 1000PF J		
C9			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C10			CE04KW1A470M	ELECTRO 47UF 10WV		
C11			CF92FV1H562J	MF 5600PF J		
C12	, 13		C90-1349-05	NP-ELEC 1UF 50WV		
C14			CF92FV1H223J	MF 0.022UF J		
C15			C90-1349-05	NP-ELEC 1UF 50WV		
C16			CF92FV1H103J	MF 0.010UF J		
C17			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C18			CF92FV1H103J	MF 0.010UF J		
C19			CC45FSL1H100D	CERAMIC 10PF D		
C20			CF92FV1H104J	MF 0.10UF J		
C21			CC45FSL1H100D	CERAMIC 10PF D		
C22			CF92FV1H104J	MF 0.10UF J		
C23			CF92FV1H103J	MF 0.010UF J		
C24			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C25			CF92FV1H102J	MF 1000PF J		
C26			CF92FV1H222J	MF 2200PF J		
C27			CF92FV1H473J	MF 0.047UF J		
C28			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C29			CF92FV1H222J	MF 2200PF J		
C30			CF92FV1H683J	MF 0.068UF J		
C31			C90-1349-05	NP-ELEC 1UF 50WV		
C32			C90-1350-05	NP-ELEC 2.2UF 50WV		
C33			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C34			CE04KW0J331M	ELECTRO 330UF 6.3WV		
C35			CK45FF1H103Z	CERAMIC 0.010UF Z		

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C36			CF92FV1H153J	MF 0.015UF J		
C37			CF92FV1H472J	MF 4700PF J		
C38			CF92FV1H473J	MF 0.047UF J		
C39			CF92FV1H154J	MF 0.15UF J		
C40			CF92FV1H183J	MF 0.018UF J		
C41			CE04KW0J331M	ELECTRO 330UF 6.3WV		
C42	, 43		CK45FF1H103Z	CERAMIC 0.010UF Z		
C44			CF92FV1H104J	MF 0.10UF J		
C45			CE04KW1A470M	ELECTRO 47UF 10WV		
C46			CF92FV1H104J	MF 0.10UF J		
C47			CE04KW1A470M	ELECTRO 47UF 10WV		
C48			CF92FV1H104J	MF 0.10UF J		
C49			CE04KW1C222M	ELECTRO 2200UF 16WV		
C50			CK45FF1H103Z	CERAMIC 0.010UF Z		
C51			C91-0769-05	CERAMIC 0.01UF K		
C52			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C53	, 54		CK45FF1H103Z	CERAMIC 0.010UF Z		
C55			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C56			CF92FV1H104J	MF 0.10UF J		
C57		*	C90-1838-05	ELECTRO 15000UF 16WV		
C58			CK45FF1H103Z	CERAMIC 0.010UF Z		
C59			CK45F1H103Z	CERAMIC 0.010UF Z		
C60			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C61			CE04KW1C222M	ELECTRO 2200UF 16WV		
C62			CE04KW1C101M	ELECTRO 100UF 16WV		
C63	, 64		CK45FF1H103Z	CERAMIC 0.010UF Z		
C65			CE04KW1C222M	ELECTRO 2200UF 16WV		
C66			CE04KW1A470M	ELECTRO 47UF 10WV		
C67			CC45FSL1H101J	CERAMIC 100PF J		
C68			CE04KW1A470M	ELECTRO 47UF 10WV		
C69			CF92FV1H104J	MF 0.10UF J		
C70			CE04KW1A221M	ELECTRO 220UF 10WV		
C71			CF92FV1H104J	MF 0.10UF J		
C72			CE04KW1A470M	ELECTRO 47UF 10WV		
C73			CE04KW1A221M	ELECTRO 220UF 10WV		
C74			CC45FSL1H101J	CERAMIC 100PF J		
C75	-79		CE04KW1A470M	ELECTRO 47UF 10WV		
C80	, 81		CE04KW1C101M	ELECTRO 100UF 16WV		
C82			CF92FV1H334J	MF 0.33UF J		
C83			CK45FF1H103Z	CERAMIC 0.010UF Z		
C84			CE04KW1A470M	ELECTRO 47UF 10WV		
C85	-88		CF92FV1H104J	MF 0.10UF J		
C89			CF92FV1H122J	MF 1200PF J		
C101, 102			CK45FF1H103Z	CERAMIC 0.010UF Z		
C103			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C104			CE04KW1C330M	ELECTRO 33UF 16WV		
C105			CK45FF1H103Z	CERAMIC 0.010UF Z		
C106			CE04KW1H470M	ELECTRO 47UF 50WV		
C107-109			CK45FF1H103Z	CERAMIC 0.010UF Z		
C110			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C111			CK45FF1H103Z	CERAMIC 0.010UF Z		
C112, 113			CE04KW0J331M	ELECTRO 330UF 6.3WV		
C114			CK45FF1H103Z	CERAMIC 0.010UF Z		
C115			CC45FSL1H100D	CERAMIC 10PF D		
C116			CC45FSL1H270J	CERAMIC 27PF J		

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C117 C118 C119 C120 C121,122			CF92FV1H102J CK45FF1H103Z CE04KW0J331M CK45FF1H103Z CF92FV1H103J	MF 1000PF J CERAMIC 0.010UF Z ELECTRO 330UF 6.3WV CERAMIC 0.010UF Z MF 0.010UF J		
C123 C124,125 C126 C127-129 C130			CE04KW0J331M CK45FF1H103Z CE04KW0J331M CK45FF1H103Z CF92FV1H334J	ELECTRO 330UF 6.3WV CERAMIC 0.010UF Z ELECTRO 330UF 6.3WV CERAMIC 0.010UF Z MF 0.33UF J		
C131 C132 C133 C134 C135			CK45FF1H103Z CE04KW0J331M CF92FV1H474J CF92FV1H102J CF92FV1H103J	CERAMIC 0.010UF Z ELECTRO 330UF 6.3WV MF 0.47UF J MF 1000PF J MF 0.010UF J		
C136 C137 C138 C139 C140			CK45FF1H103Z CE04KW0J331M CC45FCH1H470J CK45FF1H103Z CE04KW0J331M	CERAMIC 0.010UF Z ELECTRO 330UF 6.3WV CERAMIC 47PF J CERAMIC 0.010UF Z ELECTRO 330UF 6.3WV		
C141 C142 C143 C144 C145,146			CK45FF1H103Z CE04DW0J102M CK45FF1H103Z CE04KW1A101M C91-0769-05	CERAMIC 0.010UF Z ELECTRO 1000UF 6.3WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 0.01UF K		
C147,148 C149 C150 C151 C152			CF92FV1H104J CK45FF1H103Z CE04KW0J331M CK45F1H103Z CE04KW0J331M	MF 0.10UF J CERAMIC 0.010UF Z ELECTRO 330UF 6.3WV CERAMIC 0.010UF Z ELECTRO 330UF 6.3WV		
C153 C154 C155 C156			CK45F1H103Z CE04KW1H010M CC45FSL1H100D CE04DW1H010M	CERAMIC 0.010UF Z ELECTRO 1.0UF 50WV CERAMIC 10PF D ELECTRO 1.0UF 50WV		
CN2 CN21 CN25			E10-3901-05 E10-1507-05 E10-2703-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR		
F1 F2 F3 F3			F53-0010-05 F53-0022-05 F53-0007-05 F53-0020-05	FUSE FUSE FUSE FUSE	K YMTE K YMTE	
-		*	JL1-0098-05	WIRE CLAMPER		
L1 L2 L21 L22 X1		*	L39-1301-05 L39-1302-05 L40-1091-17 L40-1001-17 L77-1188-05	COMBINATION COIL COMBINATION COIL SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(10UH,K) CRYSTAL RESONATOR		
X2		*	L78-0280-05	RESONATOR		
- E			N35-3008-46 N89-3008-46	BINDING HEAD MACHIN SCREW BINDING HEAD TAPTITE SCREW		
CP1 CP2			R90-0805-05 R90-0856-05	MULTI-COMP 10KX8 J 1/4W MULTI-COMP 10KX5 J		

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CP3 R61 R71 R92 R95			R90-0819-05 RD14GB2E1R0J RD14GB2E1R0J RD14GB2E270J RD14GB2E270J	MULTIPLE RESISTOR FL-PROOF RD 1.0 J 1/4W FL-PROOF RD 1.0 J 1/4W FL-PROOF RD 27 J 1/4W FL-PROOF RD 27 J 1/4W		
R110,111 R113 R124 VR1 VR2			RS14KB3D120J RS14KB3D4R7J RD14GB2E562J R12-3126-05 R12-6016-05	FL-PROOF RS 12 J 2W FL-PROOF RS 4.7 J 2W FL-PROOF RD 5.6K J 1/4W TRIMMING POT.(10K) TRIMMING POT.(330K)		
VR3,4			R12-3126-05	TRIMMING POT.(10K)		
S1			S40-1064-05	PUSH SWITCH		
D1 D2 -6 D7 D7 D8,9			1B4B41 S3V20 HZS5.6N(B2) RD5.6ES(B2) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D8,9 D10,11 D10,11 D12,13 D12,13			1SS133 HZS5.1N(B) RD5.1ES(B) HZS3.9N(B) RD3.9ES(B)	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D14 D15 D15 D21 -24 D25,26			S5566B HSS104 1SS133 S5566B HZS16N(B2)	DIODE DIODE DIODE DIODE ZENER DIODE		
D25,26 D27 D27 D28 -32 D28 -32			RD16ES(B2) HZS6.2N(B2) RD6.2ES(B2) HSS104 1SS133	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D33 D33 D34 D34 IC1			HZS3.3N(B2) RD3.3ES(B2) HSS104 1SS133 HD49212	ZENER DIODE ZENER DIODE DIODE DIODE IC(DAT SERV0)		
IC2 IC3,4 IC5 -7 IC8,9 IC10-12			TC74HC4053AP M5223P LM2940CT-5.0 M5223P TA75393S	IC(ANALOG MULTIPLEXER) IC(OP AMP X2) IC(LOW VOLTAGE REGULATOR) IC(OP AMP X2) IC(COMPARATOR X2)		
IC13,14 IC21 IC22 IC23 IC24		*	LB1644 LM2940CT-5.0 HD49211BFS HM65256BLFP-12 PST529D	IC(MOTOR DRIVER) IC(LOW VOLTAGE REGULATOR) IC(DAT SIGNAL PROCESSOR) IC(MICROPROCESSOR) IC		
IC25 IC26 IC27 IC28 IC29		*	M37450N8-382FP CXD1095Q HM6264LFP15L NJM4565D TC74HC04AP	IC(MICROPROCESSOR) IC(I/O EXPANDER) IC IC(OP AMP X2) IC(CMOS INVERTER)		
IC30			SN74LS624N	IC(VCO)		

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IC31 IC32 IC33, 34 IC35, 36 IC37		*	TC74HC00AP TC74HC125AP TC74HC125AF TC74HC125AP PST529C	IC(QUAD 2-INPUT NAND GATE) IC IC IC IC(SYSTEM RESET)		
Q1 -3 Q4 Q4 Q5 Q6			2SC1923(R,θ) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SD1266(Q,P) DTC124ES	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q7 Q7 Q8 Q9 Q10			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SB772(Q,P) DTC124ES 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q10 Q11 Q12 Q12 Q14			2SC945(A)(Q,P) 2SB772(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SB772(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q15 Q16 Q17 ,18 Q19 Q20			DTC124ES 2SB772(Q,P) DTC124ES DTA124ES 2SD1266(Q,P)	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q21 Q22 Q41 Q42 Q43 ,44			2SD882(Q,P) DTA124ES 2SB941(Q,P) 2SK246(Y,GR) DTC124ES	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR FET DIGITAL TRANSISTOR		
SIGNAL (X32-1880-00)						
C1 ,2 C3 C4 C5 C6 ,7			CE04KW1E222M CE04KW1H100M CE04KW1A101M CE04KW1H100M CE04KW1C331M	ELECTRO 2200UF 25WV ELECTRO 10UF 50WV ELECTRO 100UF 10WV ELECTRO 10UF 50WV ELECTRO 330UF 16WV		
C8 C9 C10 C11 C12			CE04KW1H100M CE04KW1A101M CE04KW1C331M CE04KW0J221M CE04KW1C101M	ELECTRO 10UF 50WV ELECTRO 100UF 10WV ELECTRO 330UF 16WV ELECTRO 220UF 6.3WV ELECTRO 100UF 16WV		
C13 C14 ,15 C16 C19 C22			CE04KW1H4R7M CE04KW1H010M CF92FV1H121K CF92FV1H121K CE04KW1H010M	ELECTRO 4.7UF 50WV ELECTRO 1.0UF 50WV MF 120PF K MF 120PF K ELECTRO 1.0UF 50WV		
C23 C26 C29 C30 C33			CF92FV1H121K CF92FV1H121K CE04KW1H010M CF92FV1H121K CF92FV1H121K	MF 120PF K MF 120PF K ELECTRO 1.0UF 50WV MF 120PF K MF 120PF K		
C38 C39 -41 C42 C43			CE04DW1A101M CF92FV1H221J CC45FUJ1H100J CF92FV1H103J	ELECTRO 100UF 10WV MF 0.22UF J CERAMIC 18PF J MF 0.010UF J		

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C44 C45 C46 C47 C48			CC45FUJ1H390J CC45FUJ1H100D CC45FSL1H101J CF92FV1H102J CC45FSL1H101J	CERAMIC 39PF J CERAMIC 10PF D CERAMIC 100PF J MF 1000PF J CERAMIC 100PF J		
C49 C50 C51 C52 C53			CF92FV1H223J CE04KW1A101M CE04KW1C101M CE04KW1C330M CF92FV1H103J	MF 0.022UF J ELECTRO 100UF 10WV ELECTRO 100UF 16WV ELECTRO 33UF 16WV MF 0.010UF J		
C54 C55 C56 C57 C58			CE04KW1C101M CF92FV1H103J CE04KW1A221M CE04KW1A101M CF92FV1H102J	ELECTRO 100UF 16WV MF 0.010UF J ELECTRO 220UF 10WV ELECTRO 100UF 10WV MF 1000PF J		
C59 C60 C61 C62 -66 C67		*	CF92FV1H334J C90-1877-05 CF92FV1H103J CF92FV1H334J C90-1877-05	MF 0.33UF J ELECTRO 100UF 6.3WV MF 0.010UF J MF 0.33UF J ELECTRO 100UF 6.3WV		
C68 C69 C70 C71 -74 C75 ,76			CF92FV1H102J CE04KW1A101M CF92FV1H103J CE04KW1C101M CF92FV1H561J	MF 1000PF J ELECTRO 100UF 10WV MF 0.010UF J ELECTRO 100UF 16WV MF 560PF J		
C77 -80 C81 ,82 C83 ,84 C85 ,86 C87 ,88			CF92FV1H391K CF92FV1H332J CF92FV1H103J CF92FV1H331K CF92FV1H183J	MF 390PF K MF 3300PF J MF 0.010UF J MF 330PF K MF 0.018UF J		
C89 ,90 C91 ,92 C93 ,94 C95 -100 C101			CF92FV1H103J C90-1333-05 CF92FV1H103J CF92FV1H102J CE04KW1C101M	MF 0.010UF J NP-ELEC 22UF 10WV MF 0.010UF J MF 1000PF J ELECTRO 100UF 16WV		
C103 C104 C105,106 C107,108 C109,110			CE04KW1A101M CE04KW0J221M C90-1333-05 CE04KW1C101M CF92FV1H331K	ELECTRO 100UF 10WV ELECTRO 220UF 6.3WV NP-ELEC 22UF 10WV ELECTRO 100UF 16WV MF 330PF K		
C111-115 C116 C117 C118 C119			CF92FV1H103J CE04KW1H100M CF92FV1H103J CF92FV1H391K CE04KW0J331M	MF 0.010UF J ELECTRO 10UF 50WV MF 0.010UF J MF 390PF K ELECTRO 330UF 6.3WV		
C120 C121 C122 C123 C124			CF92FV1H103J CE04KW0J331M CF92FV1H103J CE04KW0J331M CF92FV1H121K	MF 0.010UF J ELECTRO 330UF 6.3WV MF 0.010UF J ELECTRO 330UF 6.3WV MF 120PF K		
C125,126 C127 C129 C130 C131			CE04KW1C221M CE04KW1A101M CE04KW0J221M CE04KW1H100M CE04KW0J221M	ELECTRO 220UF 16WV ELECTRO 100UF 10WV ELECTRO 220UF 6.3WV ELECTRO 10UF 50WV ELECTRO 220UF 6.3WV		

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C133			CF92FV1H103J	MF 0.010UF J		
C134			CF92FV1H104J	MF 0.10UF J		
C135			CC45FSL1H470J	CERAMIC 47PF J		
C136			CE04KW1A470M	ELECTRO 47UF 10WV		
C137, 138			CE04KW1A101M	ELECTRO 100UF 10WV		
C139-141			CF92FV1H104J	MF 0.10UF J		
C142			CE04KW1A470M	ELECTRO 47UF 10WV		
C143			CF92FV1H104J	MF 0.10UF J		
C144			CE04KW1V101M	ELECTRO 100UF 35WV		
C145			CE04KW1C330M	ELECTRO 33UF 16WV		
C146			CF92FV1H104J	MF 0.10UF J		
C147-150			C90-1333-05	NP-ELEC 22UF 10WV		
C151, 152			CC45FSL1H390J	CERAMIC 39PF J		
C153, 154			CE04KW1H220M	ELECTRO 22UF 50WV		
C156-158			CF92FV1H104J	MF 0.10UF J		
C200-203			CF92FV1H103J	MF 0.010UF J		
C204			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C205			CF92FV1H104J	MF 0.10UF J		
C206			CE04KW0J221M	ELECTRO 220UF 6.3WV		
C207			CE04KW1A101M	ELECTRO 100UF 10WV		
C208			CF92FV1H103J	MF 0.010UF J		
C209			CE04KW1E101M	ELECTRO 100UF 25WV		
C210			CE04KW1A101M	ELECTRO 100UF 10WV		
C211			CF92FV1H103J	MF 0.010UF J		
C212			CE04KW1A101M	ELECTRO 100UF 10WV		
C213			CE04KW1E101M	ELECTRO 100UF 25WV		
C214			CC45FSL1H050C	CERAMIC 5.0PF C		
C215			CF92FV1H104J	MF 0.10UF J		
C217			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C220-223			CF92FV1H103J	MF 0.010UF J		
C224, 225			C90-1333-05	NP-ELEC 22UF 10WV		
C226			CK45FF1H103Z	CERAMIC 0.010UF Z		
693	1K	*	E35-0051-05	WIRING HARNESS		
694	1K	*	E35-0052-05	WIRING HARNESS		
CN2			E10-1507-05	FLAT CABLE CONNECTOR		
E1	1K		E63-0002-05	PHONE JACK		
E2	1K	*	E63-0012-05	PHONE JACK		
E3	2J		E11-0190-05	PHONE JACK		
-			J61-0088-05	WIRE BAND		
L1		*	L32-0529-05	OSCILLATING COIL		
L3			L40-2291-17	SMALL FIXED INDUCTOR		
L5			L40-2291-17	SMALL FIXED INDUCTOR		
L6			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L7			L40-2291-17	SMALL FIXED INDUCTOR		
L8			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L9		*	L40-3381-17	SMALL FIXED INDUCTOR		
L10, 11			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L12			L39-0155-05	MATCHING COIL		
L14			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L16			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L17 -23			L92-0021-05	FERRITE CORE		
L24			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
L30 -32			L92-0021-05	FERRITE CORE		

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L33			L92-0028-05	FERRITE CORE		
X1		*	L77-1196-05	CRYSTAL RESONATOR		
X2		*	L77-1197-05	CRYSTAL RESONATOR		
X3		*	L77-1198-05	CRYSTAL RESONATOR		
X4, 5		*	L78-0281-05	RESONATOR		
-			N35-3008-45	BINDING HEAD MACHIN SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
R19			RS14KB3D151J	FL-PROOF RS 150 J 2W		
R73, 74			RN14BK2C1211F	RN 1.21K F 1/6W		
R104-107			RN14BK2C1002F	RN 10.0K F 1/6W		
R108-111			RN14BK2C4641F	RN 4.64K F 1/6W		
R112-115			RN14BK2C1962F	RN 19.6K F 1/6W		
VR1	2K		R06-4059-05	POTENTIOMETER(50KX2)		
VR2	2K	*	R06-5185-05	POTENTIOMETER(200K X2)		
VR3	2J		R10-4026-05	POTENTIOMETER		
K1			S51-2095-05	MAGNETIC RELAY		
D1			1B4B41	DIODE		
D2, 3			S5566B	DIODE		
D4, 5			HZS13N(B2)	ZENER DIODE		
D4, 5			RD13ES(B2)	ZENER DIODE		
D6			HZS5.1S(B2)	ZENER DIODE		
D6			RD5.1JS(B2)	ZENER DIODE		
D7			HSS104	DIODE		
D7			1SS133	DIODE		
D8			HZS6.2N(B2)	ZENER DIODE		
D8			RD6.2ES(B2)	ZENER DIODE		
D9			HZS5.1S(B2)	ZENER DIODE		
D9			RD5.1JS(B2)	ZENER DIODE		
D10		*	KV1350NT	VARIABLE CAPACITANCE DIODE		
D11			HZS13N(B2)	ZENER DIODE		
D11			RD13ES(B2)	ZENER DIODE		
D12			HZS5.1S(B2)	ZENER DIODE		
D12			RD5.1JS(B2)	ZENER DIODE		
D13			1SS85	DIODE		
D14			HZS13N(B2)	ZENER DIODE		
D14			RD13ES(B2)	ZENER DIODE		
D15			HZS5.1S(B2)	ZENER DIODE		
D15			RD5.1JS(B2)	ZENER DIODE		
D16			1SS85	DIODE		
D17			HZS13N(B2)	ZENER DIODE		
D17			RD13ES(B2)	ZENER DIODE		
D18			HZS5.1S(B2)	ZENER DIODE		
D18			RD5.1JS(B2)	ZENER DIODE		
D19			1SS85	DIODE		
D20, 21			HZS5.1S(B2)	ZENER DIODE		
D20, 21			RD5.1JS(B2)	ZENER DIODE		
D22			HSS104	DIODE		
D22			1SS133	DIODE		
D23 -26			HZS13N(B2)	ZENER DIODE		
D23 -26			RD13ES(B2)	ZENER DIODE		
D31 -35			HSS104	DIODE		
D31 -35			1SS133	DIODE		
IC1			NJM4558D	IC(OP AMP X2)		

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IC2 IC3 IC4 IC6 IC7		*	M5220L TC74HC74AP TC74HC139AP TC74HC125AP CX23065A	IC IC(DUAL D-TYPE FLIP FLOP) IC(DUAL 2-T0-4 LINE DECODER) IC IC		
IC8 IC9 IC10 IC11 IC12			NJM4558L TC74HC161AP TC74HC74AP TC74HC04AP TC74HC125AP	IC(OP AMP X2) IC IC(DUAL D-TYPE FLIP FLOP) IC(CMOS INVERTER) IC		
IC13 IC14 IC15 IC16, 17 IC18, 19		*	SM5827CP SM5840EP CXD2552Q M5238P NJM4565D	IC(RESET FOR 1 BIT DAC) IC(DIGITAL FILTER) IC(D/A CONVERTER) IC(DUAL OP AMP) IC(OP AMP X2)		
IC20 IC20 IC21, 22 IC23 IC24		*	AK5326-VP CS5326-KP M5238L NJM4558L TC74HC04AP	IC(A/D CONVERTER) IC(D/A CONVERTER) IC IC(OP AMP X2) IC(CMOS INVERTER)		
IC25 IC26 IC27 IC28 IC29		*	TA8410AK NJM5532S UPC78L08J UPC7805H NJM79L12A	IC(POWER OP AMP) IC IC IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ -12V)		
IC30 Q1 Q2 Q3 Q4			UPC78L05J 2SD1266 2SB941 2SK170(BL,V) 2SD1266	IC(VOLTAGE REGULATOR/ +5V) TRANSISTOR TRANSISTOR FET TRANSISTOR		
Q5 Q6 Q7 Q8 Q8			2SK170(BL,V) 2SD1266 2SK170(BL,V) 2SA733(A)(Q,P) 2SA933S(Q,R)	FET TRANSISTOR FET TRANSISTOR TRANSISTOR		
Q9 , 10 Q9 , 10 Q11 Q14 , 15 Q14 , 15			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SK241(GR) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR		
Q16 Q19 , 20 Q19 , 20 Q21 Q24			2SK241(GR) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SK241(GR) 2SC1923(R,0)	FET TRANSISTOR TRANSISTOR FET TRANSISTOR		
Q25 Q26 Q26 Q27 -30 Q31			2SK241 2SA733(A)(Q,P) 2SA933S(Q,R) DTC124ES 2SA733(A)(Q,P)	FET TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q31 Q32 -35 Q36 Q37 Q38 , 39			2SA933S(Q,R) 2SC2878(B) 2SK170(BL,V) 2SC3940A DTC124ES	TRANSISTOR TRANSISTOR FET TRANSISTOR DIGITAL TRANSISTOR		

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Q40 Q41 Q42 Q43 , 44 Q45 -47			2SC3940A 2SA1534A 2SK170(BL,V) 2SC2878(B) DTC124ES	TRANSISTOR TRANSISTOR FET TRANSISTOR DIGITAL TRANSISTOR		
Q48 Q49 -51			2SK163(N) 2SK241(GR)	FET FET		
A1 A2	1K 1K		W02-1044-05 W02-1047-05	TRANSMITTING ASSY ELECTRIC CIRCUIT MODULE		
MECHANISM (D40-0954-05)						
30 31 32 33 34	3F 1H 1C 2C 2H	*	D03-0289-08 D03-0290-08 D10-3155-08 D10-3156-08 D10-3157-08	REEL DISC ASSY REEL DISC ASSY SLIDER SLIDER SLIDER		
35 36 40 41 42	2H 1G 2E 2E 2C	*	D10-3158-08 D10-3159-08 D10-3161-08 D10-3162-08 D10-3164-08	SLIDER SLIDER SLIDER SLIDER LEVER		
43 44 45 46 47	2H 2H 1G 1G 3E	*	D10-3165-08 D10-3166-08 D10-3167-08 D10-3168-08 D10-3169-08	ARM ARM ARM ARM ARM		
48 49 50 53 54	2D 2D 2H 1F 1G	*	D10-3170-08 D10-3171-08 D10-3172-08 D10-3173-08 D10-3174-08	ARM ARM ARM ASSY ARM ASSY ARM ASSY		
55 56 57 58 61	1G 2F 2E 2D 3B	*	D10-3175-08 D10-3176-08 D10-3177-08 D10-3178-08 D13-0934-08	ARM ASSY ARM ASSY ARM ASSY ARM ASSY WORM		
62 63 64 65 66	1C, 3C 3D 3B 3C 2H	*	D13-0935-08 D13-0936-08 D13-0937-08 D13-0938-08 D13-0946-08	GEAR GEAR LACK LACK GEAR		
67 68 69 70 71	2H 3B 3B 3B 1C	*	D13-0947-08 D13-0948-08 D13-0949-08 D13-0950-08 D13-0951-08	GEAR GEAR GEAR GEAR GEAR		
72 73 74 75 76	2F 2F 1F, 2F 3H 3B	*	D14-0336-08 D14-0337-08 D15-0318-08 D14-0335-08 D15-0319-08	ROLLER ROLLER ASSY PULLEY CAPSTAN ASSY PULLEY		
77 78 79 80	1C, 3C 3F 3B 2D	*	D15-0320-08 D16-0319-08 D16-0320-08 D16-0321-08	PULLEY BELT BELT BELT		

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81	2E	*	D16-0322-08	BELT		
82	1D	*	D16-0323-08	BELT		
83	2H, 3H	*	D19-0266-08	CLUTCH		
85	1C	*	G01-3374-08	EXTENSION SPRING		
86	2H	*	G01-3375-08	COMPRESSION SPRING		
87	1H	*	G01-3376-08	COMPRESSION SPRING		
88	2F	*	G01-3377-08	COMPRESSION SPRING		
89	2H	*	G01-3378-08	EXTENSION SPRING		
90	2H	*	G01-3379-08	EXTENSION SPRING		
91	1G	*	G01-3380-08	EXTENSION SPRING		
92	1G	*	G01-3381-08	EXTENSION SPRING		
93	2F	*	G01-3382-08	EXTENSION SPRING		
94	2F	*	G01-3383-08	EXTENSION SPRING		
95	2E	*	G01-3384-08	EXTENSION SPRING		
96	2E	*	G01-3385-08	EXTENSION SPRING		
97	2G	*	G01-3386-08	EXTENSION SPRING		
98	3E	*	G01-3387-08	EXTENSION SPRING		
99	2C	*	G01-3388-08	EXTENSION SPRING		
100	2E	*	G01-3389-08	TORSION COIL SPRING		
101	2C	*	G02-0986-08	FLAT SPRING ASSY		
102	3C	*	G02-0987-08	FLAT SPRING ASSY		
103	3D	*	G02-0988-08	FLAT SPRING ASSY		
104	2F	*	G01-3412-08	EXTENSION SPRING		
106	2F	*	J10-0213-08	SLANGE		
107	1D	*	J19-3425-08	HOLDER		
108	1C, 2D	*	J19-3426-08	HOLDER		
109	3C, 2D	*	J19-3427-08	HOLDER		
110	1D	*	J19-3428-08	HOLDER		
111	2H	*	J19-3429-08	HOLDER		
113	3H	*	J21-5735-08	HARDWARE FIXTURE		
114	1G	*	J31-0845-08	COLLAR		
115	3F	*	J31-0846-08	COLLAR		
116	2F	*	J31-0847-08	COLLAR		
117	2C	*	J31-0848-08	COLLAR		
118	3B	*	J69-0078-08	RING		
119	3B	*	J69-0079-08	RING		
120	2E	*	J90-0671-08	POLE BASE ASSY		
121	1F	*	J90-0672-08	POLE BASE ASSY		
122	2F	*	J90-0673-08	POLE BASE ASSY		
123	3B	*	J99-0502-08	TRAY		
A			N19-0298-05	WASHER 1.7X0.25		
B			N19-0365-04	W POLY C 1.2X0.25 T		
C			N29-0205-04	ES 1.5 ZU		
D			N29-0206-04	ES 2.0 ZU		
E			N29-0208-04	ES 3.0 ZU		
F		*	N32-2003-46	SLAT HEAD MACHINE SCREW		
G		*	N35-2025-46	BINDING HEAD MACHINE SCREW		
H		*	N38-1416-41	PAN HEAD MACHINE SCREW 1.4X1.6		
J		*	N38-1720-45	PAN HEAD MACHINE SCREW 1.7X2		
K		*	N38-1725-41	PAN HEAD MACHINE SCREW 1.7X2.5		
L		*	N38-2020-41	PAN HEAD MACHINE SCREW 2.0X2		
M		*	N38-2040-41	PAN HEAD MACHINE SCREW 2.0X4		
N		*	N39-1725-45	PAN HEAD MACHINE SCREW 1.7X2.5		
P		*	N39-2025-45	PAN HEAD MACHINE SCREW 2.0X2.5		

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Q		*	N39-2060-41	PAN HEAD MACHINE SCREW 2.0X6		
R		*	N39-2080-41	PAN HEAD MACHINE SCREW 2.0X8		
S		*	N78-1740-46	PAN HEAD MACHINE SCREW 1.7X4		
T		*	N78-1760-45	PAN HEAD MACHINE SCREW 1.7X6		
U		*	N84-2003-45	PAN HEAD MACHINE SCREW 2.0X3		
V			N84-2003-46	PAN HEAD MACHINE SCREW 2.0X3		
W			N84-2004-46	PAN HEAD MACHINE SCREW 2.0X4		
X		*	N84-2005-46	PAN HEAD MACHINE SCREW 2.0X5		
AA		*	N09-2836-08	MACHINE SCREW		
BB		*	N09-2837-08	MACHINE SCREW		
CC		*	N09-2838-08	MACHINE SCREW		
DD		*	N09-2839-08	MACHINE SCREW		
EE		*	N09-2840-08	MACHINE SCREW		
FF		*	N09-2841-08	MACHINE SCREW		
GG		*	N09-2842-08	MACHINE SCREW		
HH		*	N09-2843-08	MACHINE SCREW		
JJ		*	N14-0192-08	HEXAGON NUT		
KK		*	N19-1263-08	FLAT WASHER		
LL		*	N19-1264-08	FLAT WASHER		
MM		*	N19-1265-08	FLAT WASHER		
NN		*	N19-1266-08	FLAT WASHER		
PP		*	N19-1267-08	FLAT WASHER		
QQ		*	N19-1268-08	FLAT WASHER		
127	3B	*	S62-0006-08	SLIDE SWITCH		
128	3D	*	S64-0002-08	LEVER SWITCH		
129	3D	*	S64-0003-08	LEVER SWITCH		
130	3D	*	S68-0001-08	PUSH SWITCH		
135	1F	*	T35-0005-08	DRUM ASSY		
136	3H	*	T42-0588-08	MOTOR ASSY		
137	2B	*	T42-0589-08	MOTOR ASSY		
138	1D, 2D	*	T42-0590-08	MOTOR ASSY		
139	3G	*	T94-0223-08	SOLENOID COIL		
142	3E	*	W02-1067-08	ELECTRIC CIRCUIT MODULE		
143	2B	*	W02-1073-08	ELECTRIC CIRCUIT MODULE		
144	2A, 3B	*	W02-1074-08	ELECTRIC CIRCUIT MODULE		
145	2B	*	W02-1080-08	DEW SENSOR		
IC1		*	HA12133MP	IC		
IC101, 102		*	TA7745F	IC (MOTOR DRIVER)		
IC201, 202		*	UPC358	IC		
Q1 -3		*	2SC2412(KR)	TRANSISTOR		
T101-103		*	2SA1314-B	TRANSISTOR		
T201-203		*	2SC1314-B	TRANSISTOR		

E: Scandinavia & Europe K: USA P: Canada W: Europe

Y: PX(Far East, Hawaii) T: England M: Other Areas

Y: AAFES(Europe) X: Australia

△ indicates safety critical components.

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PARTS LIST

DX-7030

DX-7030

SPECIFICATIONS

[Mechanism / transport system]

Type

.....Digital audio tape deck with rotating head system

Heads

.....Two rotating heads (sputtered sendust heads)

Motors (6 motors) DD motor (for capstan)

DD motor (for drum)

DC motor (for loading) x 4

Tape speed 8.15 mm/s

Recording time 120 minutes (with DR-120 tape)

Rewind time

..... approx. 40 sec (with 120 minute recorded tape)

[Digital format]

No. of channels 2 channel stereo

Sampling frequency

.....Recording : 48kHz, 32kHz (digital input only)

Playback : 48kHz, 44.1kHz, 32kHz

No. of quantization bits 16bit linear

[Electrical characteristics]

Frequency response 2Hz ~ 22kHz

Signal to noise ratio More than 93dB

Dynamic range More than 92dB

Total harmonic distortion Less than 0.005%

Wow flutter Below measurable limit

[Input terminals]

Line input (analog signal recording)

..... 500mV, input impedance 10k Ω

Digital coaxial input

..... 0.2V (P-P), input impedance 75 Ω

Digital optical output ... -15dBm ~ -24dBm (660nm)

[Output terminals]

Line output (analog signal playback)

..... 2V RMS, output impedance 1k Ω

Digital optical output

..... -18dBm (wavelength 660nm) rectangular type

Headphone output

..... 20mW (16 Ω), stereo standard jack

[General]

Power consumption 30W

External dimensions W : 440mm

H : 127mm

D : 370mm

Weight (net) 9.6kg

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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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