STEREO CASSETTE DECK

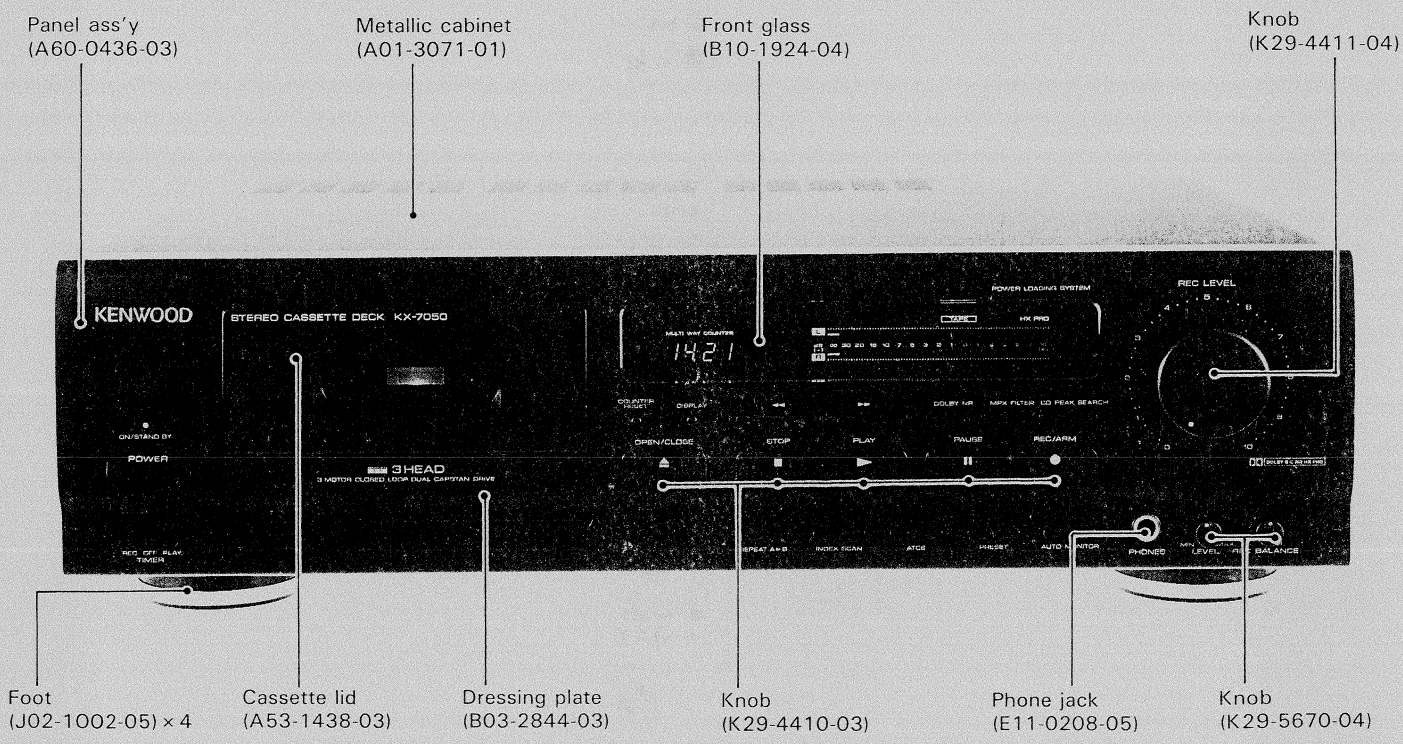
KX-7050/S

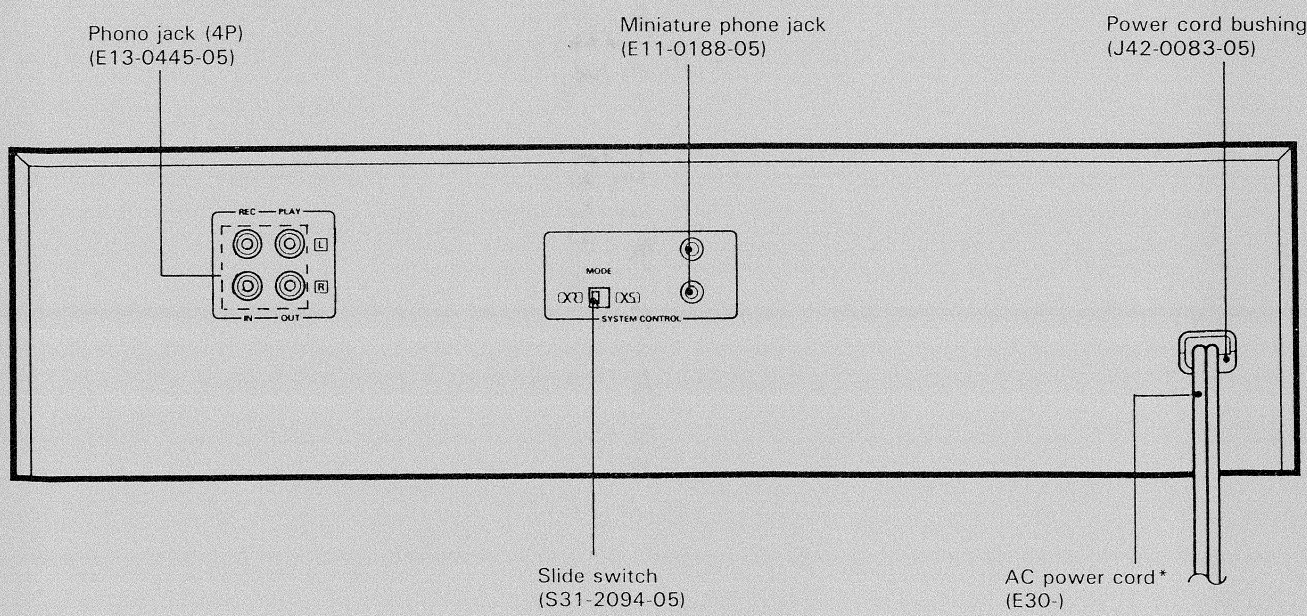
SERVICE MANUAL

KENWOOD

B51-4774-00(S)2328

KX-7050





*Refer to parts list on page 41 .

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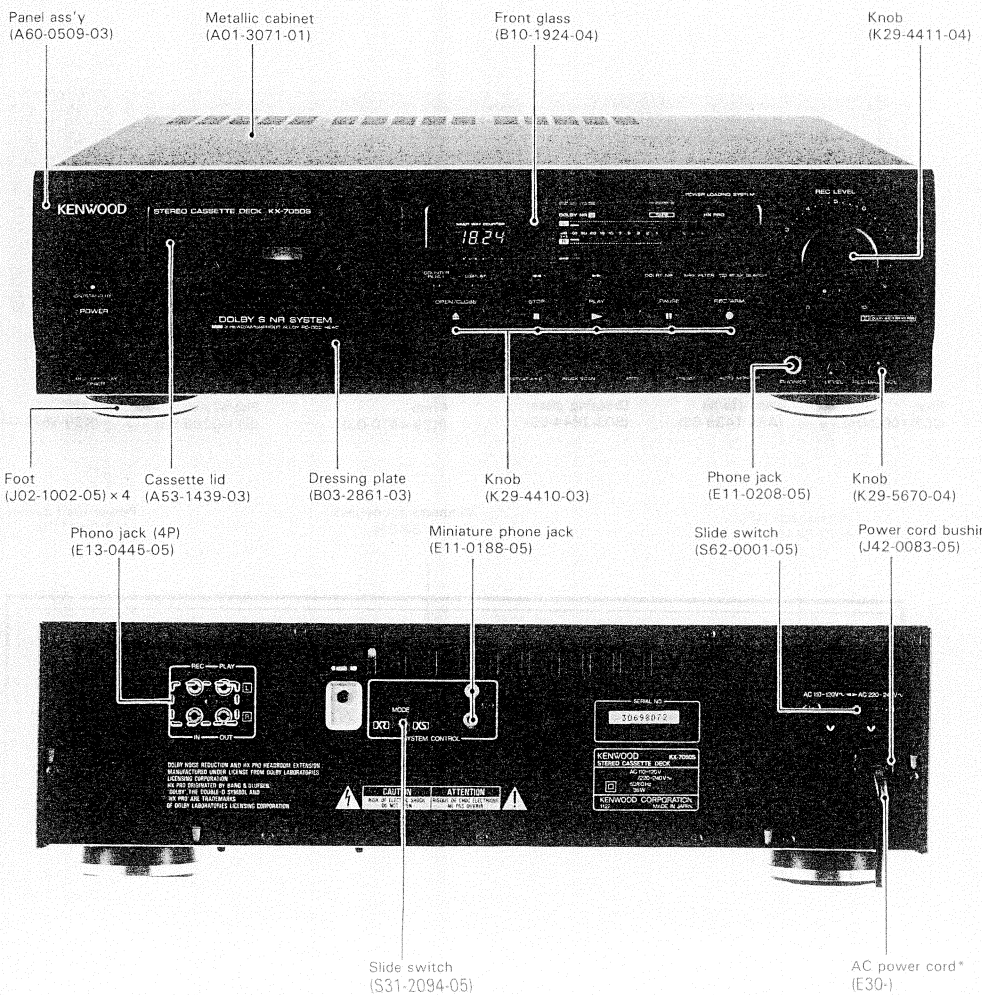
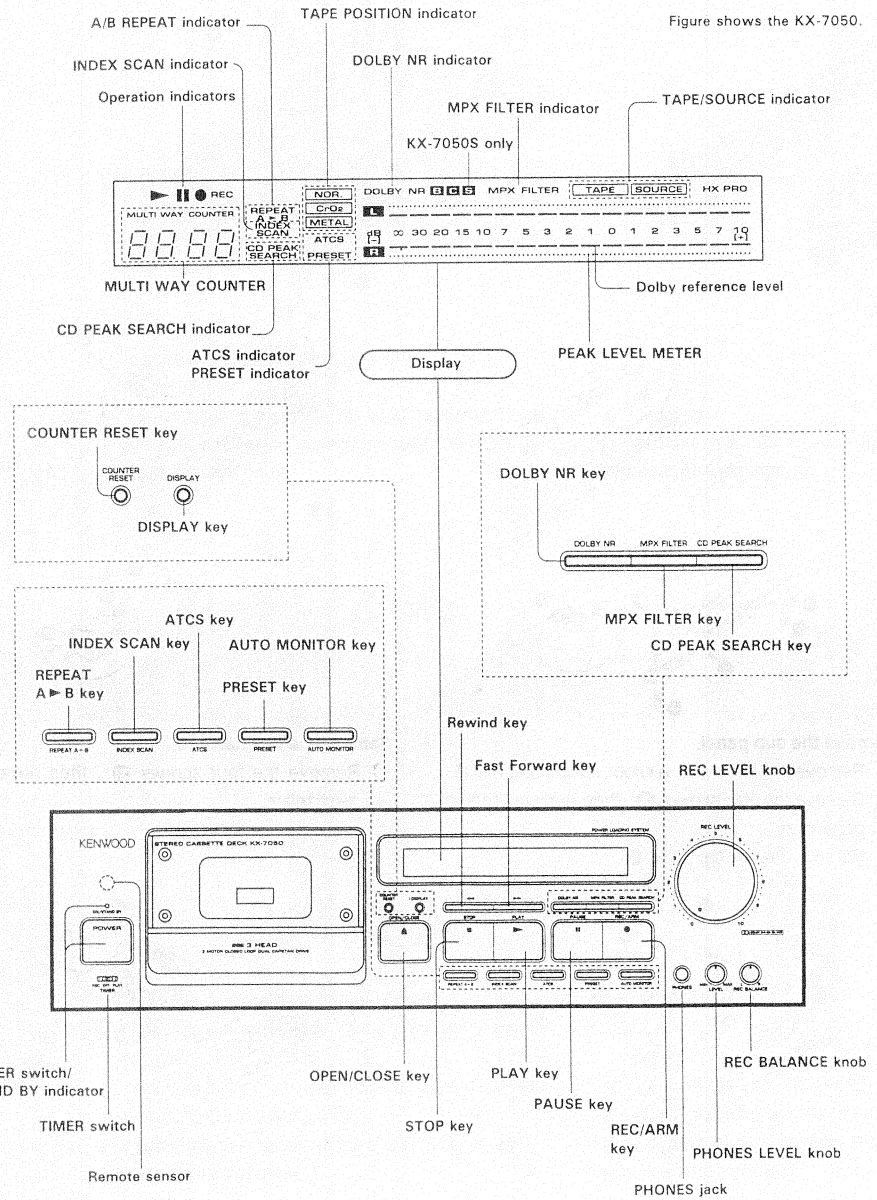
KX-7050S



*Refer to parts list on page 41 .

NAME AND OPERATION OF CONTROL

Figure shows the KX-7050.



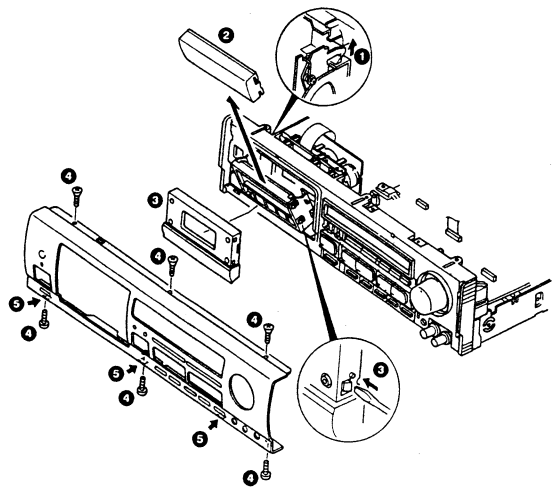
Instruction Manual

B60-1245-00	English		B60-1248-00	GE,DU,IT	E
B60-1247-00	French	EP	B60-1249-00	SPA,CHI	M

DISASSEMBLY FOR REPAIR

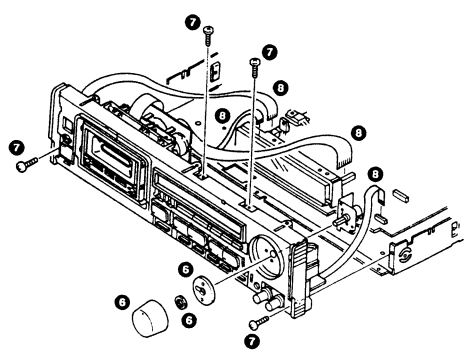
Remove the front panel.

1. The Eject lever moves to the arrow direction ❶ .
2. Remove the cassette lid ❷ .
3. Remove the two claws ❸ ,then remove the cassette holder.
4. Remove the six screws ❹ and remove the three claws ❺ , then remove the front panel.



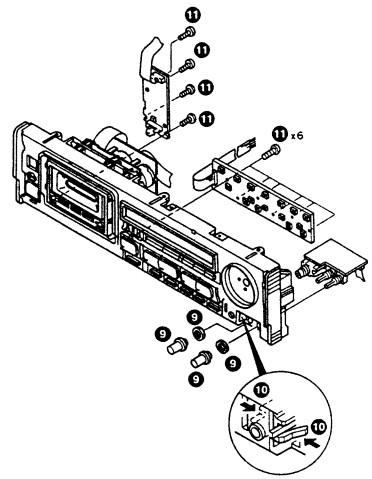
Remove the sub panel.

5. Remove the REC volume knob , spacer and nut ❻ .
6. Remove the four screws ❼ ,then remove the sub panel assy.
7. Remove the four flat cable ❽ .



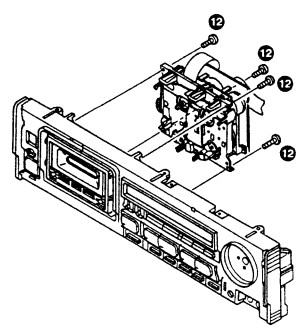
Remove the PC board.

8. Remove the REC balance , LEVEL knob and nut ❾ .
9. Remove the phono jack to arrow direction ❿ .
10. Remove the nine screws ⓫ , then remove the PC board.

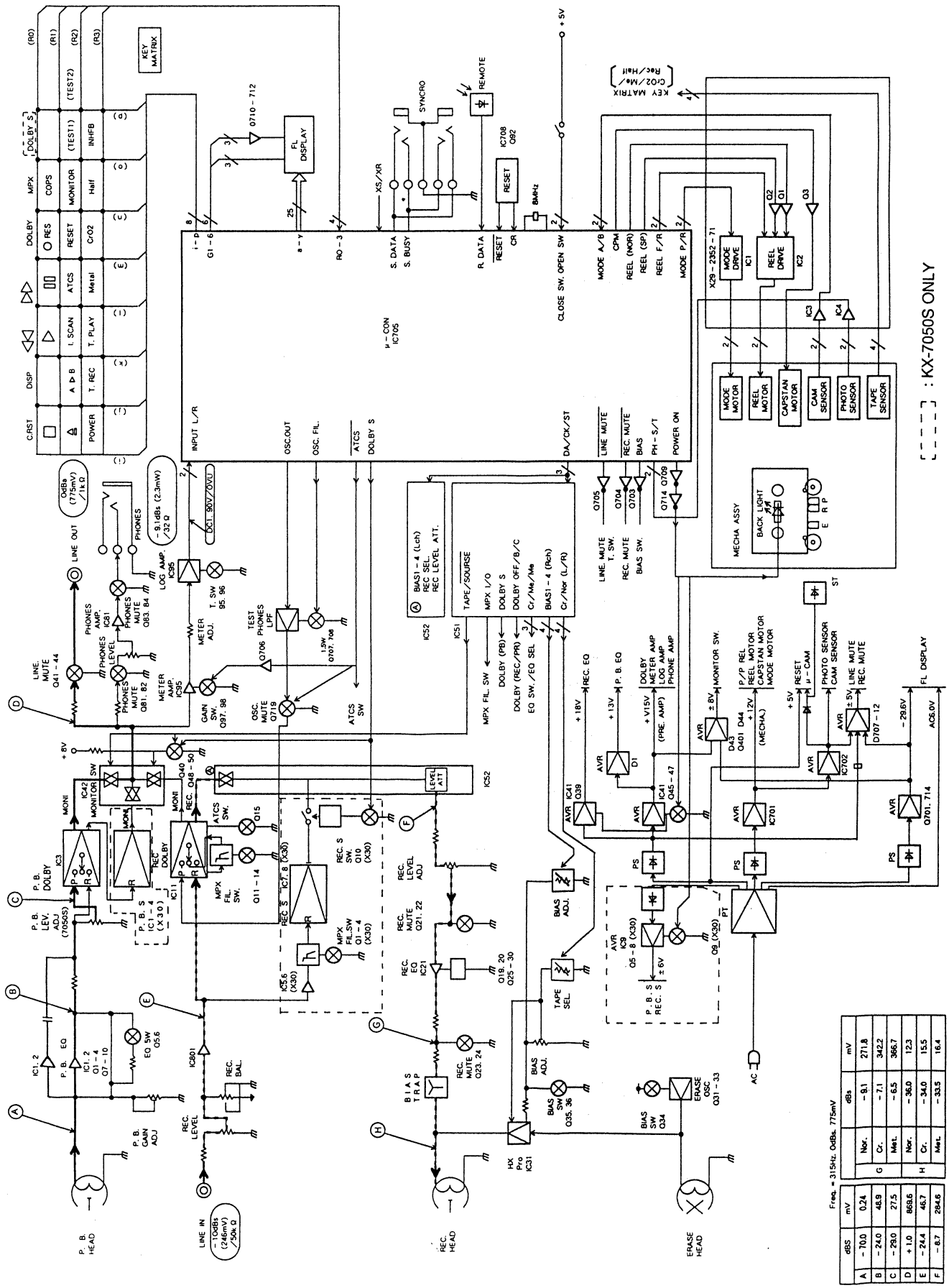


Remove the mechanism.

11. Remove the four screws ⓬ , then remove the mechanism.



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

CASSETTE UNIT (X26-1342-70)

Ref No.	NAME	USE/FUNCTION	OPERATION/CONDITION
IC1	NJM4565L-D	Playback equalizer amplifier(L)	
IC2	NJM4565L-D	Playback equalizer amplifier(R)	
IC3	CXA1330S	Dolby C IC (decode)	
IC11	CXA1330S	Dolby C IC (encode)	
IC21	NJM4565D-D	Record equalizer amplifier	
IC31	UPC1297CA	HX-pro. IC	
IC41	NJM4565L-D	Audio section power supply regulator	NJM4558D
IC42	XRU4052B	Monitor switching IC	
IC51	TC9164N	Audio section control IC	NJU7313L
IC52	TC9162N	Audio section control IC	NJU7311L
IC95	NJM4565D-D	Meter amplifier	NJM4558D
IC96	BA6138	Meter IC	
IC701	BA17812T	Mechanism +12V power supply	μPC7812HF
IC702	BA17812T	μ-COM +5V	μPC7805HF
IC705	CXP82324-147Q	μ-COM	
IC708	PST529D	Reset IC	
IC801	NJM4565L-D	Line buffer	
Q1～4	2SK170	Playback equalizer first stage	
Q5,6	2SK170	70 μ /120 μ switch	
Q7～10	2SC3311A(Q,R)	For cascode	
Q11～14	UN4216	For MPX ON/OFF	
Q15	UN4212	For audio switching	Decode IC11 during ATCS ,Q15 ON.
Q19,20	2SC3311A	REC EQ peaking frequency switch	ON during CrO_2.
Q21～24	2SD1302(S,T)	REC MUTE	
Q25,26	2SC3311A	REC EQ CrO_2 calibration	ON during CrO_2.
Q27,28	2SC3311A	REc EQ METAL calibration	ON during METAL.
Q29,30	2SC3311A	REC EQ peaking switch	ON during Nor,CrO_2.
Q31,32	2SC3940A	For ER OSC +B anti-magnetic	
Q33	2SC3248	ER OSC +B ON/OFF	
Q34	UN4216	BIAS OSC ON/OFF	
Q35,36	UN4216	HX-Pro. ON/OFF	
Q39	2SC3940A	Audio section +18V power suplly	2SD863(E,F)
Q40	UN4212	Control during IC 42 AC OFF	
Q41～44	2SD1302	LINE MUTE	
Q45	2SD2061	Audio section +15V power supply	2SD1266
Q46,47	UN4212	For audio section power supply ON/OFF	
Q48	UN4219	Dolby S switch	
Q49	UN4212	Tape/source switch	
Q50	UN4212	Tape source switch during Dolby IC	
Q92	2SC3311A	For reset	
Q95,96	2SC3311A	Constant switch during meter IC	
Q97,98	2SC3311A	Meter amplifier gain switch	
Q401	2SB764	-8V power supply	

CIRCUIT DESCRIPTION

Ref. No.	NAME	USE/FUNCTION	OPERATION/CONDITION
Q701	2SA1309A	FL -B power supply regulator	
Q702	2SA1309A	Power ON/OFF switch	
Q703	2SA1309A	BIAS control	
Q704	2SA1309A	REC MUTE drive	
Q705	2SA1309A	LINE MUTE drive	
Q706	2SA1309A	ATCS control	
Q707	UN4216	OSC filter SW	ON during 400Hz
Q708	UN4116	OSC filter SW control	ON during 400Hz
Q709	UN4212	Power ON/OFF control	
Q710 ～712	2SC3311A	Grid Drive	
Q714	2SB1370	FL -B power supply	2SB941
Q719	UN4212	ATCS signal MUTE	OFF during ATCS
D1	HZS13N(B2)	Playback line equalizer amplifier power supply	RD13ES(B2)
D15,16	HSS104	For SYNCHRO	1SS133
D17～20	HSS104	For SYNCHRO static electricity countermeasure	1SS133
D31	HSS104	For BIAS control	1SS133
D32	E-352	Fixed current for audio sectiion +15V	
D33	E-352	Fixed current for audio section +18V	
D34,35	1SS199	For audio section power supply ON/OFF	
D36	HZS7.5S(B)	Voltage shift	RD7.5JS(B)
D37,38	HSS104	For detection of power supply short in the audio section	1SS133
D39,40	HZS3.9N(B)	For FL erasure voltage	RDS3.9ES(B)
D41	HZS7.5S(B)	Voltage shift	RD7.5JS(B)
D42	HZS5.1S(B)	Audio section voltage reference	RD5.1JS(B)

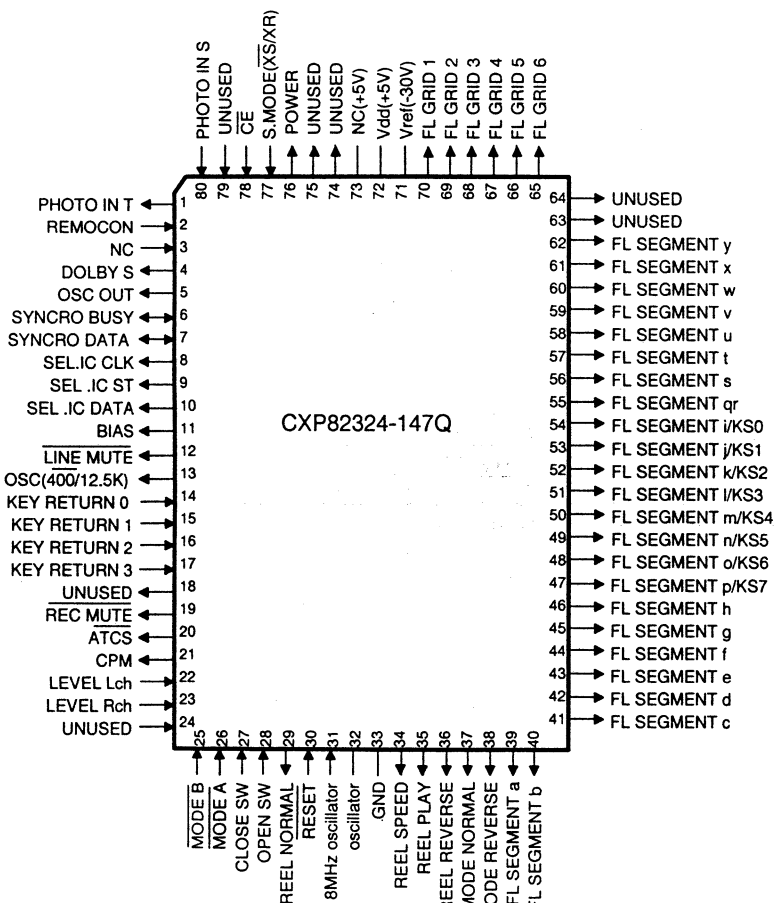
DOLBY UNIT (X30-1302-70)(KX-7050S ONLY)

Ref.No.	NAME	USE/FUNCTION	OPERATION/CONDITION
Q1～4	2SD1302(S,T)	MPX FILTER SW	MPX filter switch (S706 : X25-546) ON/OFF turns Q1-Q4 ON/OFF and turns the MPX filter is turned ON/OFF .
Q5,7	2SD2021	+6V AVR	
Q6,8	2SB1375	-6V AVR	
Q9	UN4219	±6V AVR ON/OFF SW	The control signal (Power +B) from μ-COM turns ±6V AVR ON/OFF. (When power = +2V, AVR = ON ; When power = 0V , AVR = OFF)
Q10	UN4219	SW for REC OUT ON/OFF relay	Dolby NR SW (S705:X25-546)switching turns Q10 ON during Dolby S NR ON.
IC1,2	M5238L	Dolby S decoder amplifier and output buffer	] Dolby S decoder
IC3,4	CXA1417S	Dolby S IC	
IC5,6	RC4565L-D,NJM4565L-D	MPX filter buffer	] Dolby S encoder
IC7,8	CXA1417S	Dolby S IC	
IC9	NJM4558L	For ±6V AVR control	

CIRCUIT DESCRIPTION

Microprocessor(CXP82324-147Q)(X26-:IC705)

Pin connection



KX-7050/S

CIRCUIT DESCRIPTION

Pin description

Pin No.	I/O	NAME	DESCRIPTION	
1	I	PHOTO IN T	Photo sensor input(take-up side)	
2	I	REMOCON	Remote controller input	
3			NC	
4	O	DOLBY S	Dolby S switch output	
5	O	OSC OUT	Rectangular wave output terminal	
6	I/O	SBUSY	Serial BUSY I/O	
7	I/O	SDATA	Serial DATA I/O	
8	O	CLK	Selector IC clock output	
9	O	ST	Selector IC strobe output	
10	O	DATA	Selector IC data output	
11	O	BIAS	Bias ON/OFF control	H : ON
12	O	LINEMUTE	Line mute control	L : ON
13	O	OSC FILTER	400 / 12.5k filter switch	
14	I	KR0	Key return signal input	
15	I	KR1	Key return signal input	
16	I	KR2	Key return signal input	
17	I	KR3	Key return signal input	
18	O		Unused	
19	O	RECMUTE	Rec mute control	L : ON
20	O	ATCS	ATCS NORMAL / OSC switch	
21	O	CPM	Capstan motor ON/OFF control	
22	I	LEVEL Lch	L channel level input	
23	I	LEVEL Rch	R channel level input	
24	I		Unused	
25	I	MODE B	Mechanism position detection switch B	
26	I	MODE A	Mechanism position detection switch A	
27	I	CLOSE	Loading close detection switch input	
28	I	OPEN	Loading open detection switch input	
29	O	REEL NOR	Reel motor control (forward rotation)	
30	I	RESET	Reset signal input (LOW RESET)	
31	I	EX	Clock oscillator connector	
32		X	Clock oscillator connector	
33		Vss	GND terminal	
34	O	REEL SP	Reel speed control	H : High speed
35	O	REEL PLAY	Reel speed control	H : Low speed
36	O	REEL REV	Reel motor control	(reverse rotation)
37	O	MODE NOR	Mode motor control	(forward rotation)
38	O	MODE REV	Mode motor control	(reverse rotation)
39	O	a	FL segment	
40	O	b	FL segment	

CIRCUIT DESCRIPTION

Pin description

Pin No.	I/O	NAME	DESCRIPTION
41	O	c	FL segment
42	O	d	FL segment
43	O	e	FL segment
44	O	f	FL segment
45	O	g	FL segment
46	O	h	FL segment
47	O	p/KS7	FL segment and key scan signal output 7
48	O	o/KS6	FL segment and key scan signal output 6
49	O	n/Ks5	FL segment and key scan signal output 5
50	O	m/KS4	FL segment and key scan signal output 4
51	O	l/KS3	FL segment and key scan signal output 3
52	O	k/KS2	FL segment and key scan signal output 2
53	O	j/KS1	FL segment and key scan signal output 1
54	O	i/KS0	FL segment and key scan signal output 0
55	O	q, r	FL segment
56	O	s	FL segment
57	O	t	FL segment
58	O	u	FL segment
59	O	v	FL segment
60	O	w	FL segment
61	O	x	FL segment
62	O	y	FL segment
63	O		Unused
64	O		Unused
65	O	6G	FL grid
66	O	5G	FL grid
67	O	4G	FL grid
68	O	3G	FL grid
69	O	2G	FL grid
70	O	1G	FL grid
71			FL voltage supply terminal
72			Positive power supply terminal
73			(connected to VDD)
74	O		Unused
75	O		Unused
76	O	POWER	Power ON/OFF control
77	I	S. MODE	Synchro mode (XS/XR) discrimination
78	I	$\overline{CE}$	Backup detect terminal
79	I		Unused
80	I	PHOTO IN S	Photo sensor input (supply side)

KX-7050/S

CIRCUIT DESCRIPTION

TEST MODE

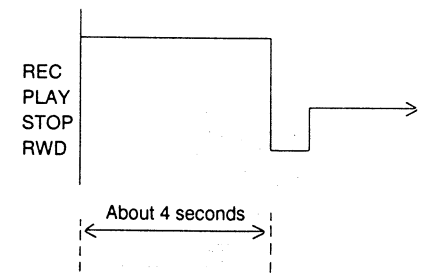
•Setting method : TP7 ⊣▷⊢ TP8

The test mode is entered by shorting the above two terminals with a diode and then turning on the power supply (AC plug IN) .

•Release method :

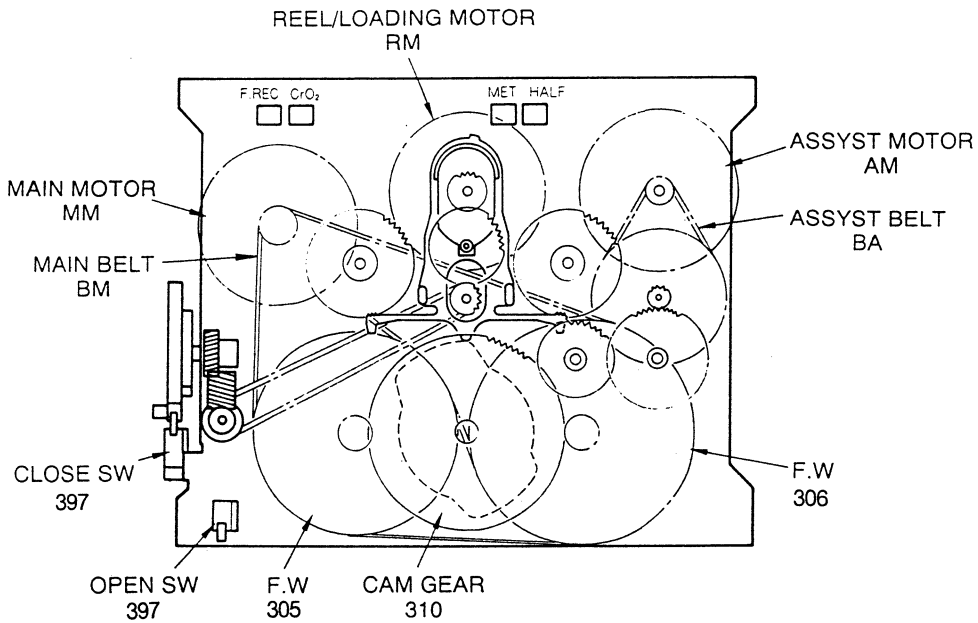
Pressing the PAUSE key releases the test mode. Also, the contents of the test mode are not backed up.

1. Everything illuminated
   The indicators come ON 500ms after the power supply is turned on, and remain illuminated for about 1.5 seconds. Operation of the and key is possible after the all-illuminated state ends.
2. Mechanism switch display
   The status of each mechanism's switch is displayed on the level meter during LINE MUTE ON.
   CrO_2 , METAL , F.REC INH
   +3dB +7dB +12dB
3. Direct change
   The REC mode is entered directly even when in play mode.
4. CDPS
   When the CDPS key is input, the "CCRS"serial code is output and then the REC PAUSE mode is entered.
5. 4-second REC
   When the REC key is pressed, recording continues for 4 seconds and then the tape is rewound to the beginning and playback commences.



6. ATCS
   This shortens the ATCS setting time .
   It turns LINE MUTE to OFF.
7. PRESET
   This shortens the memorization and recall time of bias and level values.

MECHANISM DESCRIPTION

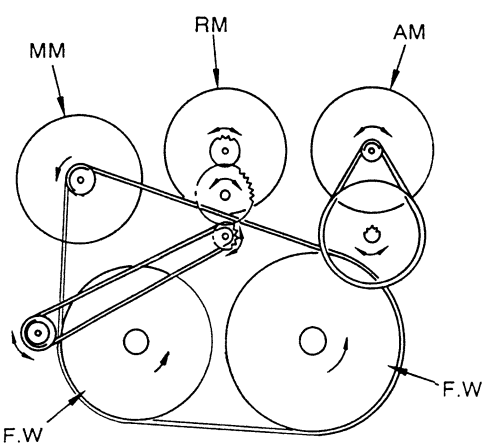


Mechanism specification

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

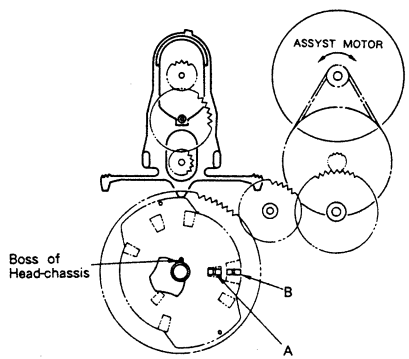
PLAY Torque: 35~55 g·cm
FF/RWD Torque: 70~160 g·cm
Back Tension Torque: 2~5 g·cm



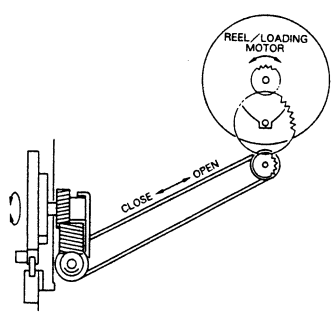
MECHANISM DESCRIPTION

STOP/OPEN/CLS

1. The assist motor rotates, and sets the mechanism to the STOP position by watching the state of the mechanism position detection SW.
   Both mechanism position detection SW A and B stop at the ON position .
   The brake ASSY is pushed up , and the reel idler is fixed. The head is pushed down, because the cam of the came gear is at the position shown in the figure.

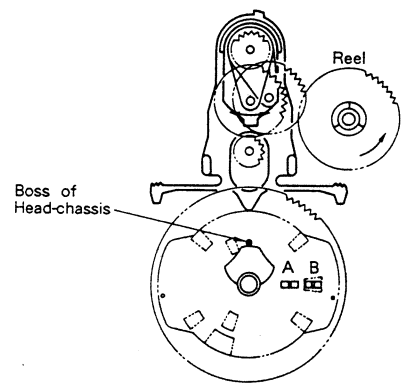


2. The rotation of the reel motor rotates the OPEN/CLOSE pulley via reel idller .



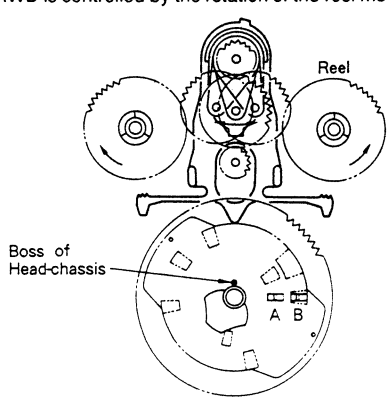
PLAY/REC

3. Rotate the assist motor, and adjust the cam gear by watching the state of the mechanis position detection SW.
   A OFF H B ON L corresponds to the PLAY/REC position .
   At this position the pulley is engaged with the reel, and the tape is wound by the rotation of the reel motor. The head is raised by the cam of the cam gear , and the deck is in the PLAY/REC mode.



FF/RWD

4. The cam gear is adjusted by the rotation of assist motor.
   A OFF B ON
   The cam gear is at the position shown in the figure , and the head is lowed.
   Moreover , the brake is also lowered.
   FF/RWD is controlled by the rotation of the reel motor.



ADJUSTMENT

RECORD/PLAYBACK UNIT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE DECK SETTINGS	ALIGMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified : each switch should be set as follows: 0dBs = 0.775V TAPE : NORMAL DOLBY : OFF INPUT : LINE CASSETTEE MECHANISM SECTION(REC/PB head adjustment)							
(1)	BIAS OSCILLATING FREQUENCY	Load the non recorded tapes onDECK.	Connect the frequency counter between R318.	REC	L33 (X26-134 A/2)	Adjust so that the frequency counter shows 210kHz.	
(2)	BIAS LEAK	Load the non recorded tapes onDECK.	Connect the AC VOLT METER between W61 and W91.	Load a metal tape.	L23(L) L24(R) (X26-134 A/2)	Minimum	
(3)	PLAYBACK LEVEL(1)	MTT-150 400Hz(200nWb)	(B)	(DOLBY OFF : 7050) PLAY	VR1(L) VR2(R) (X26-134 A/2)	Output level : -1.2dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Output level : -4.0dBs	
		MTT-256U,TCC-160 315Hz(250nWb)				Output level : 0 dBs	
(4)	PLAYBACK LEVEL(2) (KX-7050S)	MTT-150 400Hz(200nWb)		(DOLBY S : 7050S) PLAY	VR5(L) VR6(R) (X26-134 A/2)	Output level : -1.2dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Output level : -4.0dBs	
		MTT-256U,TCC-160 315Hz(250nWb)				Output level : 0 dBs	
(5)	BIAS CURRENT	(A) 1kHz,-30dBs 10kHz,-30dBs	(B)	Adjust REC VR (LEVEL,BALANCE) so that the REC monitor output becomes -20dBs at 1kHz , then record and reproduce signal of 1kHz and 10kHz in altertnation.	VR31(L) VR32(R) (X26-134 A/2)	Adjust the bias current adjusting VR so that the playback level of the 10kHz signal is +0.5dB higher than that of the 1kHz signal when recrding a 1kHz signal and a 10kHz signal alternately.	
(6)	RECORD LEVEL	(A) 1kHz,-30dBs	(B)	Record and reproduce a 1kHz signal under the conditions set in (5).	VR21(L) VR22(R) (X26-134 A/2)	Adjust the variable resistors so that a playback level of -20dBs is obtained.	
(7)	FL PEAK LEVEL METER	(A) 1kHz,-10dBs	-	REC PAUSE adjust REC VR(LEVEL,BALANCE) so that the monitor output is 0dBs at 1kHz.	VR95(R) (X26-134 A/2)	Adjust to the same level as that to L-channel.	
Note : On item (3) and (4).							
Although 3 kinds of tapes are set forth for the playback level adjusment , the use of one tape suffices for adjustment . Here is no necessity for the use of all these 3 kinds of tapes. Other than above mentioned tapes , when a test tape equa 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.							

KX-7050/S

ADJUSTMENT

MECHANISM

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION TAPE : NORMAL DOLBY : OFF INPUT : LINE 0dBs = 0.775V 1 REC/PLAY HEAD							
[1]	DEMAGNETIZATION	-	-	POWER : OFF Remove the cassette door.	REC/PLAY head	Demagnetige the REC/PLAY head with a head demagnetizer.	
[2]	CLEANING	-	-	-	REC/PLAY head erase head. capstan. pinch roller.	Clean the REC/PLAY head erase head , capstan and pinch roller, using a cotton swab slightly damped with alcohol.	
[3]	Verification of the rec/play head. (KX-7050S)	* MTT-94201	-	PLAY	-	Check that the level difference between the left and right channels is within 4 dB, If the difference exceeds 4 dB, perform the adjustments descrived in [7].	
[4]	Azimuth	MTT-114 TCC-153 SCC-1727 10kHz,-10dB	-	PLAY	Azimuth adjustment screw Ⓒ	Adjust the output to the maximum, then set the azimuth screw so that the oscilloscope resurge wave-length approaches a 45 deg. linearity.	
[5]	Check with mirror tape	mirror tape	-	PLAY	-	Play back the mirror tape and check that the edges of the tape do not touch the tape guide. If they do , perform the adjustments descrived in [7] onward.	
[6]	TAPE SPEED	(A) MTT-111, TCC-110,SCC-1727 3kHz,-4dB		PLAY	Triming potentiometer in the DC motor	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	
[7]	Height of the supply pinch arm	THG-801	-	PLAY	Supply pinch arm height adjustment screw Ⓓ	Mount the standard THG-801 plate on the cassette receiving plate , then turn the block gage sideways and adjust the screws so that the gage fits in the tape guide.	
[8]	Height of REC/PLAY head	THG-801	-	PLAY	Head height adjustment screw Ⓐ	Mount the standard THG-801 plate on the cassette receiving plate , then turn the block gage sideways and adjust the screws so that the gage fits in the tape guide.	

ADJUSTMENT

MECHANISM

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE : NORMAL	DOLBY : OFF	INPUT : LINE		0dBs = 0.775V	
[9]	rec/play head adjustment	THG-801	-	PLAY	Head tilt adjustment screw Ⓑ	Turn the THG-801 , block gage sideway s and position it so that it is perpendicular to the head surface, Adjust screw B so that the gage and standard plate come into close contact.	
The head height can be altered by performing the adjustment in procedure [9] ,so repeat adjustment procedure, [8] and [9] several times.							
[10]	DEMAGNETIZATION	-	-	POWER : OFF Remove the cassette door.	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagne-tizer.	
	CLEANING	-	-	-	REC/PLAY head erase head, capstan,pinch roller.	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[11]	Azimuth	SCC-1727 MTT-111 TCC-110 3kHz , -4dB	-	PLAY	Azimuth adjustment screw Ⓒ	Adjust the output to maximum for the 3kHz output then set the azimuth screw C so that the oscilloscope resurge waveelength aproaches a 45 deg. liearrity.	
Check the adjustments in procedures [8], [9] and [11].							
[12]	Check the mirror tape	mirror tape	-	PLAY	-	Playback the mirror tape and check that the tape edges are not touching the tape guide . If they are? , repeat procedurees [8],[9] and [11] to adjust .	

Return to procedure [3].(KX-7050S)

REGLAGE

UNIT D'ENREGISTREMENT/LECTURE

N°.	ITEM	REGLAGES DEL'ENTREE	REGLAGES DE LA SORTIE	REGLAGES DU MAGNTOPHONE A CASSETTE	POINTS DE L'ALIG NEMENT	ALIGNER POUR	FIG.
Chaque commutateur doit être réglé comme suit, á mois d'indication comtraire: 0dBs = 0,775V BANDE : NORMAL DOLBY : OFF INPUT : LINE SECTION MAGNETOPHONE A CASSETTEadjustment de la tête d'enregistrement/lecture)							
(1)	FREQUENCEN OSCILLANTE DEPOLARI-SATION	Charger les bandes non enregistréees dans la platie	Connecter le freequencemètre entre R318.	REC	L33 (X26-134 A/2)	Ajuster de sortie que le fréquencemètre indique 210kHz.	
(2)	FUITE DE POLARI-SATION	Charger une bande non enregistrée dans la platie	Connecter le voltmètre de Centre W61 et W91.	Charger une bande Metal.	L23(G) L24(D) (X26-134 A/2)	Minimum	
(3)	NIVEU DE LECTURE (1)	MTT-150 400Hz(200 nWb)	(B)	(DOLBY OFF : 7050) PLAY	VR1(G) VR2(D) (X26-134 A/2)	Niveu de sortie : -1,2dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Niveu de sortie: -4,0dBs	
		MTT-256U,TCC-160 315Hz(250nWb)				Niveu de sortie: 0 dBs	
(4)	NIVEU DE LECTURE(2) (KX-7050S)	MTT-150 400Hz(200nWb)		(DOLBY S : 7050S) PLAY	VR5(G) VR6(D) (X26-134 A/2)	Niveu de sortie: -1,2dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Niveu de sortie: -4,0dBs	
		MTT-256U,TCC-160 315Hz(250nWb)				Niveu de sortie: 0 dBs	
(5)	COURANT DE POLARI-SATION	(A) 1kHz,-30dBs 10kHz,-30dBs	(B)	Ajuster la VR REC (LEVEL,BALANCE) pour que la sortie de contôle REC deviennent -24dBs á 1kHz, puis enregister et reproduire un signal de 1kHz et 10kHz alternativement.	VR31(G) VR32(D) (X26-134 A/2)	Ajuster le courant de polansation en ajustant VR de sortie qur le niveu de lecturre soit +0,5 dB plus haut que celui 10kHz lors de l'enregistrement alternativement d'un signal de 1kHz et d'un signal de 10kHz.	
(6)	NIVEU D'ENREGIST-REMENT	(A) 1kHz,-30dBs	(B)	Enregistrer et reproduire un signal de 1kHz dans les conditions établies en (5).	VR21(G) VR22(D) (X26-134 A/2)	Ajuster les résistances variables de sortie le niveu de lecture de -24dBs soit obtenu.	
(7)	INDICATEUR DE NIVEU DE CRETE FL	(A) 1kHz,-10dBs	-	REC PAUSE Ajuster la VR REC (LEVEL,BALANCE) pour que la sortie de contrôle soit de -4dBs à 1kHz.	VR95(D) (X26-134 A/2)	Ajuster au même niveu que celui du canal G.	
REMARQUE : Sur les items (3) et (4).							
Bien que 3 sortes de bande soient employées pour l'ajustement du niveu de lecture, l'utilisation d'une bande suffit pour l'ajustment.cela signifie qu'il n'est pas nécessaire d'utiliser les 3 types de bande. En plus des bandes citées ci-dessus,quand une bande test de flux magnétique et réquence égaux est disponible,l'ajustment est possible en réglant la sortie de lecture sur le niveu de sortie spécifique àcette bande,selon la méthode d'ajustment.							

REGLAGE

MECHANISM

Nº	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETOPHONE A CASETTEE	POINTS DE L'ALIGNE-MENT	ALIGNER POUR	FIG.
SECTION MAGNETOPHONE A CASSETTE 1 TETE D'ENREGISTREMENT/LECTURE		BANDE : NORMAL		DOLBY : OFF	INPUT : LINE	0dBs = 0.775V	
[1]	DEMAGNETISATION	-	-	ALIMENETATION: COUPEE Retirer la porte de cassette.	Tête d'enregistrement/ lecture	Démagnétiser la tête d'enregistrement/lecture avec l'effaceur de tête.	
[2]	NETTOYAGE	-	-	-	Tête d'enregistre-ment/ lecture,tête d'effacement, cabestan.galet presseur	Nettoyer la tête d'enregistrement/lecture, la tête d'effacement,le cabestan et le galet presseur avec un coton-tigelegerèment trempè dans de l'alcool.	
[3]	Vérification de la tête d'entregistrement/ lecture (KX-7050S)	* MTT-94201	-	PLAY	-	Vérifier que la différence de niveu entre les canaux droits et gauche soit inférieure à 4dB.Si la différence dépasse 4dB, effectuer les ajustements décrits en (7).	
[4]	Azimut	MTT-114 TCC-153 SCC-1727 10kHz,-10dB	-	PLAY	Vis d'ajustement de l'azimut Ⓒ	Ajuster la sortie du maximum,puis régler la vis d'azimut de sortie que la longueur d'onde sur l'oscilloscope approche d'une linéarité de 45 deg.	
[5]	Vérification avec une bande miroir	Bande miroir	-	PLAY	-	Reproduire la bande miroir et vérifier que les rebords de bande ne touchment pas le quide de bande.En cas de contact,effectuer les ajuste-ments décrits en (7) plus loin.	
[6]	Vitesse de la bande	(A) MTT-111, TCC-110,SCC-1727 3kHz,-4dB		PLAY	Potentiomètre d'equilibrage dans le moteur CC	Ajuster la vitesse de la bande pour qu'un signal de 3kHz soit produit au centre de la bande.	
[7]	Hauteur de bras galet presseur d'alimentation	THG-801	-	PLAY	Vis de reglage de hauteur de bras de galet presseur d'alimentation Ⓓ	Monter la plaque THG-801 standard sur la plaque de réception de cassette, puis touner le calibre latérale-ment et ajuster les vis de sortie que le calibre corespond au guide de bande.	
[8]	Hauteur de tête d'entrainement/ lecture	THG-801	-	PLAY	Vis d'ajustement de hauteur de tête Ⓐ	Monter la plaque THG-801 standard sur la plaque de réception de cassette, puis touner le calibre latérale-ment et ajuster les vis de sortie que le calibre corespond au guide de bande.	

REGLAGE

MECHANISM

Nº	ITEM	REGLAGES DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGES DU MAGNETOPHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MAGNETOPHONE A CASSETTE		TAPE : NORMAL		DOLBY : OFF	INPUT : LINE	0dBs = 0,775V	
[9]	Réglage de la tête d'enregistrement/ lecture	THG-801	-	PLAY	Visd'ajustement d'inclinasion de tête Ⓑ	Turn the THG-801 , block gage sideway s and position it so that it is perpendicular to the head surface, Adjust screw B so that the gage and standard plate come into close contact.	
La hauteur de tête peut être modifiee en effectuant dans la procédure (9), répéter plusieurs fois les procedurés de réglage (8) et (9).							
[10]	DEMAGNETISATION	-	-	ALIMENTATION : COUPEE	Tête d'enregistrement/ lecture	Démagnétiser la tête d'enregistrement/lecture avec un effaceur de tête.	
	NETTOYAGE	-	-	-	Tête d'enregist-rement/lecture, tête d'effacement, cabstan,galet presseure	Nettoyer la d'enregistrement/ lecture, la tête d'effacement,le cabstan et le galet presseur avec un coton-tige légèrement trempé dans de l'alcool.	
[11]	Azimut	SCC-1727 MTT-111 TCC-110 3kHz , -4dB	-	PLAY	Vis d'ajustement de l'azimut Ⓒ	Ajuster la sortie au maximum pour la sortie de 3kHz,puis régler la vis d'azimut Ⓒ de sortie que la longueur d'onde sur l'oscilloscope approche d'une linéarité de 45 deg.	
Vérifier les réglages dans les procédures (8),(9) et (11).							
[12]	Vérifier avec une bande miroir	mirror tape	-	PLAY	-	Reproduire la bande miroir et vérifier que les rebords de la bande ne touchene pas le guide de bande. En cas de contact, répéter les procédures (8), (9) et (11) pour effectuer lé reglage.	

Retourner à la procédure [3].(KX-7050S)

KX-7050/S

ABGLEICH

AUFNAHME-/WIEDERGABETEIL

Nr.	GEGEN-STAND	EINGANGSEIN-STELLUNG	AUSGANGSEIN-STELLUNG	CASSETTENDEC-KEINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
Faals nicht anders angegeben, müssen die einzelinen Schalter wie folgt eingestellt sein: 0dBs = 0.775V TAPE : NORMAL DOLBY : OFF INPUT : LINE							
KASSETTEMECHANISMUS-ABSCHNITT(Aufnahme/Wiedergabejopf-Einstellung)							
(1)	VORMAGNETI-SIERUNGS-OSZILLA-TOFREQUENZ	Nicht bespielte Bäder in das Deck einegeg	Den Frequenzmesser zweischen R318 schießn.	REC	L33 (X26-134 A/2)	So einstellen,daß der Frequenz messer 210kHz anzeigt.	
(2)	VORMAGNETI-SIERUNGS-STROMVER-LUST	Ein nicht bespieltes Band in das Deck einiegeg	Wechselspannungs-meter zwischen W61und W91.	Ein Metallband einlegen.	L23(L) L24(R) (X26-134 A/2)	Minimal	
(3)	WIEDERGABE-PEGEL(1)	MTT-150 400Hz(200nWb)	(B)	(DOLBY OFF : 7050) PLAY	VR1(L) VR2(R) (X26-134 A/2)	Ausgangspegel: -1.2dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Ausgangspegel: -4.0dBs	
		MTT-256U,TCC-160 315Hz(250nWb)				Ausgangspegel : 0 dBs	
(4)	WIEDERGABE-PEGEL(2) (KX-7050S)	MTT-150 400Hz(200nWb)		(DOLBY S : 7050S) PLAY	VR5(L) VR6(R) (X26-134 A/2)	Ausgangspegel: -1.2dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Ausgangspegel : -4.0dBs	
		MTT-256U,TCC-160 315Hz(250nWb)				Ausgangspegel: 0 dBs	
(5)	VORMAGNETI-SIERUNGS-STROM	(A) 1kHz,-30dBs 10kHz,-30dBs	(B)	REC VR(LEVEL,BALANCE)so einstellen,daß der REC-Monitor-Ausgang bei 1kHz,-24dBs wird,dann abwechseid ein Signal mit 1kHz und 10kHz aufzeichnen und wiedergeben.	VR31(L) VR32(R) (X26-134 A/2)	Den Vormagnetisierungs-stromStellwiderstand so einstellen,daß der Wiedergabepegel des 10kHz-Signal +0.5dB höer als der des 1kHz-Signal ist,wenn abwechseld ein 1kHz-Signal und ein 10kHz-Signal aufgezeichnet wird.	
(6)	AUFNAHME-PEGEL	(A) 1kHz,-30dBs	(B)	Unter den in (5) eingestellen Bedingungen ein 1kHz-Signal aufzeichnen und wiedergegben.	VR21(L) VR22(R) (X26-134 A/2)	Die Stellwiderstaäde so einstellen,daß ein Wiedergabepegel von -24dBs erhalten wird.	
(7)	FL-SPITZEN-PEGELMETER	(A) 1kHz,-10dBs	-	REC PAUSE, REC VR(LEVEL, BALANCE)so einstellen, daß der Monitorausgang bei 1kHz 4dBs beträgt.	VR95(R) (X26-134 A/2)	Auf deseiben Oegel wie den des liken Kanals einstellen.	
Hiweis : Bei Pukt (3) und (4) .							
Obwohl 3 Bandsorten für die Wiedergabepegeleinstellung vorligen,genüt der Gabrauch eines Bands zur Einstellung.Dies bedeutet,daß nicht alle 3Bandsorten verwendet werden,indem müssen.Die Einstellung kann auch mit einem Testband mit demseben Magnetfluß und derselben Frequenz der oben erwähnten Bänder durchgefürt werden,indem der Wiedergabeausgang dem Sollausgangspegel dieses Bands gemäß Einstellverfahren angeglichen wird.							

ABGLEICH

LAUFWERK

Nr.	GEGNSTAND	EINGANGSEIN-STELLUNG	AUSGANGSEIN-STELLUNG	CASSETTENDEC-KEINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTENDECK-TEIL		TAPE : NORMAL DOLBY : OFF INPUT : LINE				0dBs = 0.775V	
1 AUFAHME/WIEDERGABKOPF							
[1]	ENTMAGNETISEI-RUNG	-	-	POWER : OFF Die Cassettenklappe entfernen.	Aufnahme/Wie-dergabekopf (REC/PLAY)	Den REC/PLAY-Kopf mit einem Tonkopf-Entmagnetisierer entmagnetisieren.	
[2]	REINIGUNG	-	-	-	REC/PLAY-kopf, Löschkopf, Tonwelle, Andruckrolle.	REC/PLAY-Kopf,Lschkopf, Tonwelle und Andruckrolle mit einem leicht mit alkohol angefeuvheten Wattesräbchen reinigen.	
[3]	Kontrolle des Aufahme/Wieder-gabekopfs. (KX-7050S)	* MTT-94201	-	PLAY	-	Sicherstellen,daß der Pegelunter-schied zwischen dem linken und rechten Kanal innerhalb von 4dB liegt.Wenn der Unterschied 4dB überschreitet,die in (7) beschriebeben Einstellungen vornehmen.	
[4]	Azimut	MTT-114 TCC-153 SCC-1727 10kHz,-10dB	-	PLAY	Azimut-Ein-stellschrauube Ⓒ	Den Ausgang auf den Höchstwert einstellen,dann die Azimut-Schraube so justieren,daß sich die Oszilloskop-Wiederanstiegs-wellenläge einer Linearität von 45Grad annähert.	
[5]	Mit Spiegelband überprüren	Spiegelband	-	PLAY	-	Den Spiegelband abspielen und sicherstellen,daß die Bandkanten die bandfürung nicht berüren, die ab (7) beschriebeben Einstellungen drurchfuren.	
[6]	BANDGESCH-WINDIGKEIT	(A) MTT-111, TCC-110,SCC-1727 3kHz,-4dB.		PLAY	Trimm-Potentio-meter im Gleich-strommotor	Die Bandgeschwindigkeit so einstellen,daß ein 3kHz-Signal in der Mitte des Bands erzeugt wird.	
[7]	Höhe des Zuführan druckrolenarms	THG-801	-	PLAY	Zufürandruckrol-lenarm-Höhenein-stellschraube Ⓓ	DieStandard-THG-801-Platte an der Cassettenempfangsplatte monitieren,dann die Blocklehre seitwß ts grehen und die Schrauben so einstellen,daß die Lehre in die Bandfrung paß.	
[8]	Höhe des REC/PLAY-kopfes	THG-801	-	PLAY	Kopfhöhenein-stellschraube Ⓐ	DieStandard-THG-801-Platte an der Cassettenempfangsplatte monitieren,dann die Blocklehre seitwß ts grehen und die Schrauben so einstellen,daß die Lehre in die Bandfrung paß.	

KX-7050/S

ABGLEICH

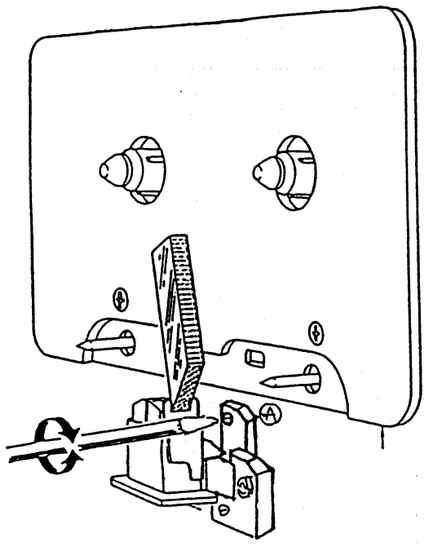
Nr.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	CASSETTENDECK-EINSELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜr	ABB.
CASSETTENDECK-TEIL		TAPE : NORMAL DOLBY : OFF INPUT : LINE				0dBs = 0.775V	
[9]	Aufnahme/Wieder-gabekopf-Einstellung	THG-801	-	PLAY	Das Cassettenklappe entferrnen. Ⓑ	Die THG-801-Blocklehre seitwärts drehen und so positionieren, daß sie senkrecht zur Kopfoberfläche ist.Die Schraube B so einstellen. daß lehre und Standard-Platte miteinander in enge Beuhrüng gelangen.	
Die Kopfhöhe kann durch Einstellverfahren (9) geän dert werden, daher Einstellverfahren (8) und (9) einige Male Wiederholen.							
[10]	ENTMAGNET-ISIERUNG	-	-	POWER : OFF Die Cassetten-klappenfernen.	Aufnahme/ Wiedergabekopf (REC/PLAY)	Den REC/PLAY-kopf mit einem Tonkopf-Entmagnetisierer entmagnetisieren.	
	REINIGUNG	-	-	-	REC/PLAY-Kopf,Löschkopf, Tonwelle, Andruckrolle.	REC/PLAY-kopf,Löschkopf,Tonwelle und Andruckrolle mit einem leicht mit Alkohol angefeuchteten Wattestabchen reinigen.	
[11]	Azimut	SCC-1727 MTT-111 TCC-110 3kHz , -4dB	-	PLAY	Azimut-Einstellschraube Ⓒ	Den ausgang für den 3kHz-Ausgang auf den Höchstwert einstellen,dann die Azimut-Schraube C so einstellen, daß sich die Oszilloskop-Wiederanstiegs-wellenläge einer Lineartität von 45Grad annähert.	
Die Einstellungen bei Verfahnen (8),(9) und (11) überrpüfen.							
[12]	Mit Spiegelband überprüfen	Spiegelband	-	PLAY	-	Das Spiegelband abspielen und sicherstellen,daß die Bandkanten die Bandführung nicht berühren. Wenn sie die Bandführung berühren, Verahren (8),(9) und (11) zur Einstellung wiederholen.	

Zu Verfahnen [3] .(KX-7050S)

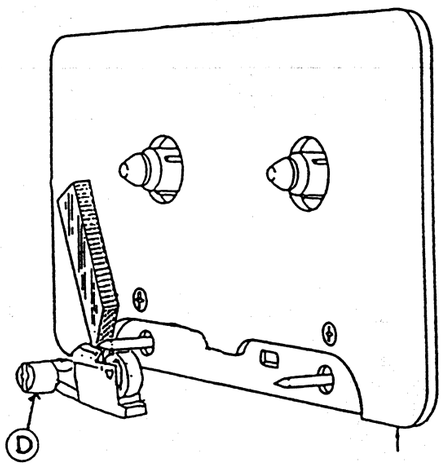
ADJUSTMENT

Adjusting REC/PLAY head

Head height adjustment



Suppry PINCH roller height Adjustment.



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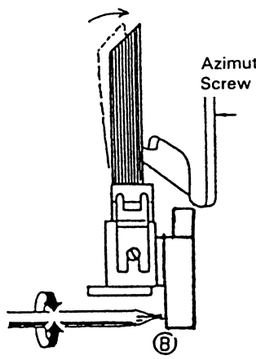
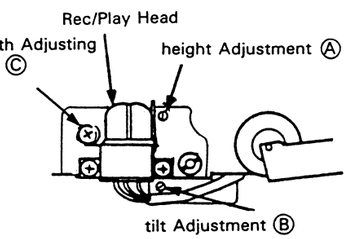
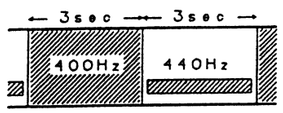
Head tilt adjustment



Tape Speed Adjustment

* MTT-94201 (TEST TAPE for HEAD height adjustment)

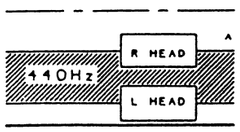


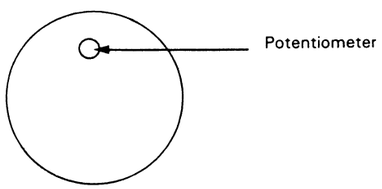


400 Hz Full track

440 Hz 0.8 mm width track

Level difference is about the same of L, R ch output when the adjustment is complate.

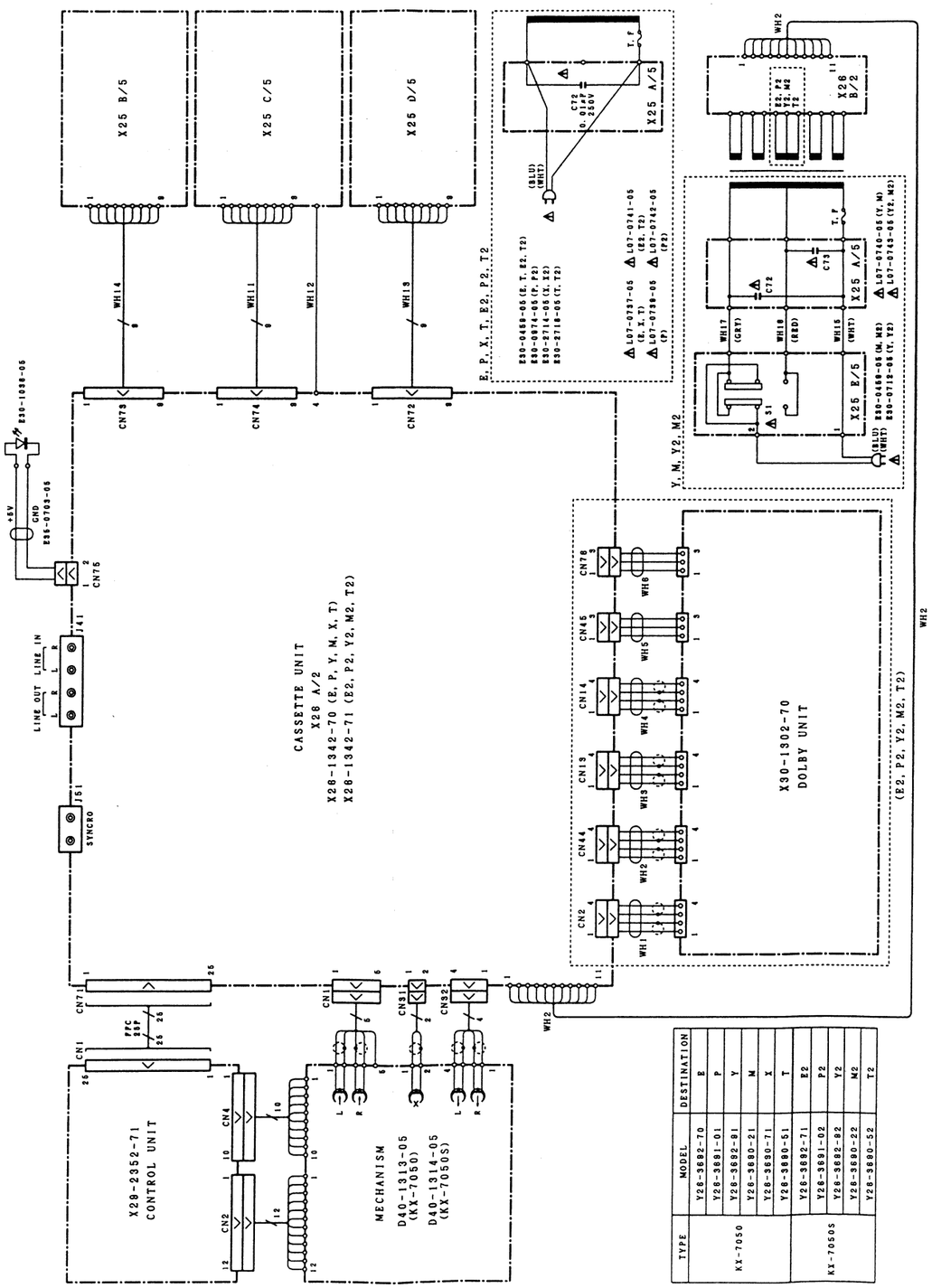




Capstan Motor

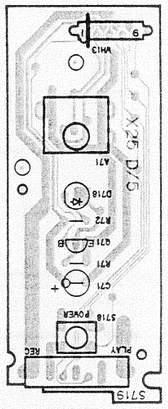
KX-7050/S

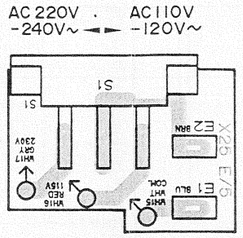
WIRING DIAGRAM

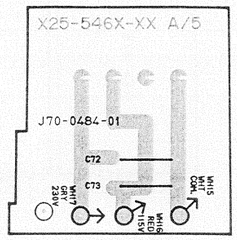


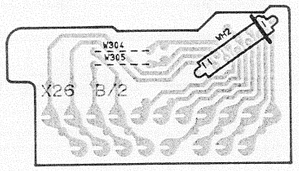
PC BOARD (Component side view)

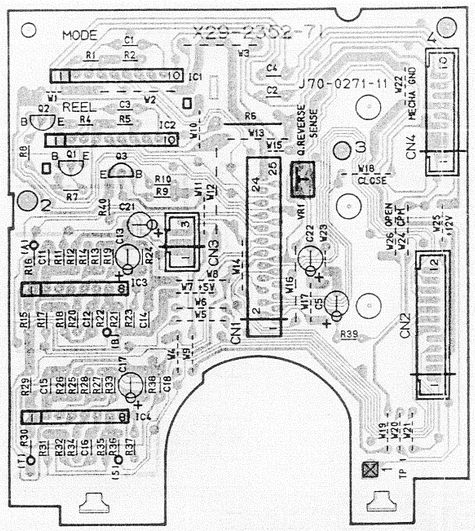
ACCESSORY UNIT(X25-546X-XX)
CASSETTE UNIT(X26-134X-XX)

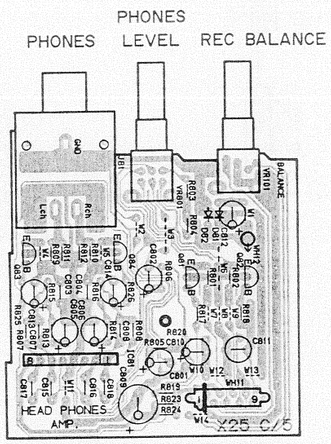


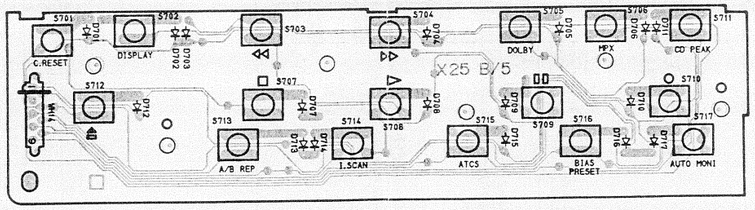


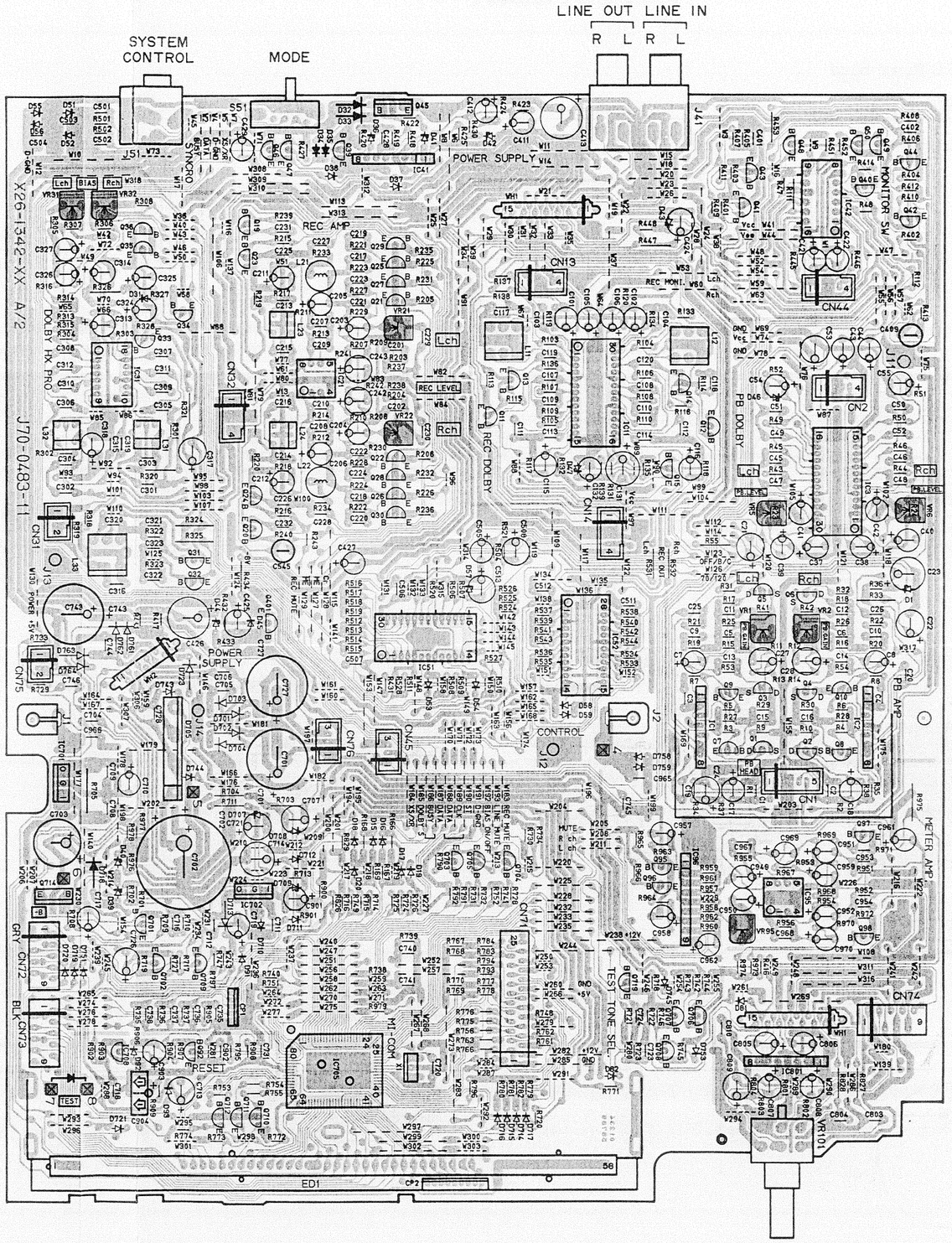












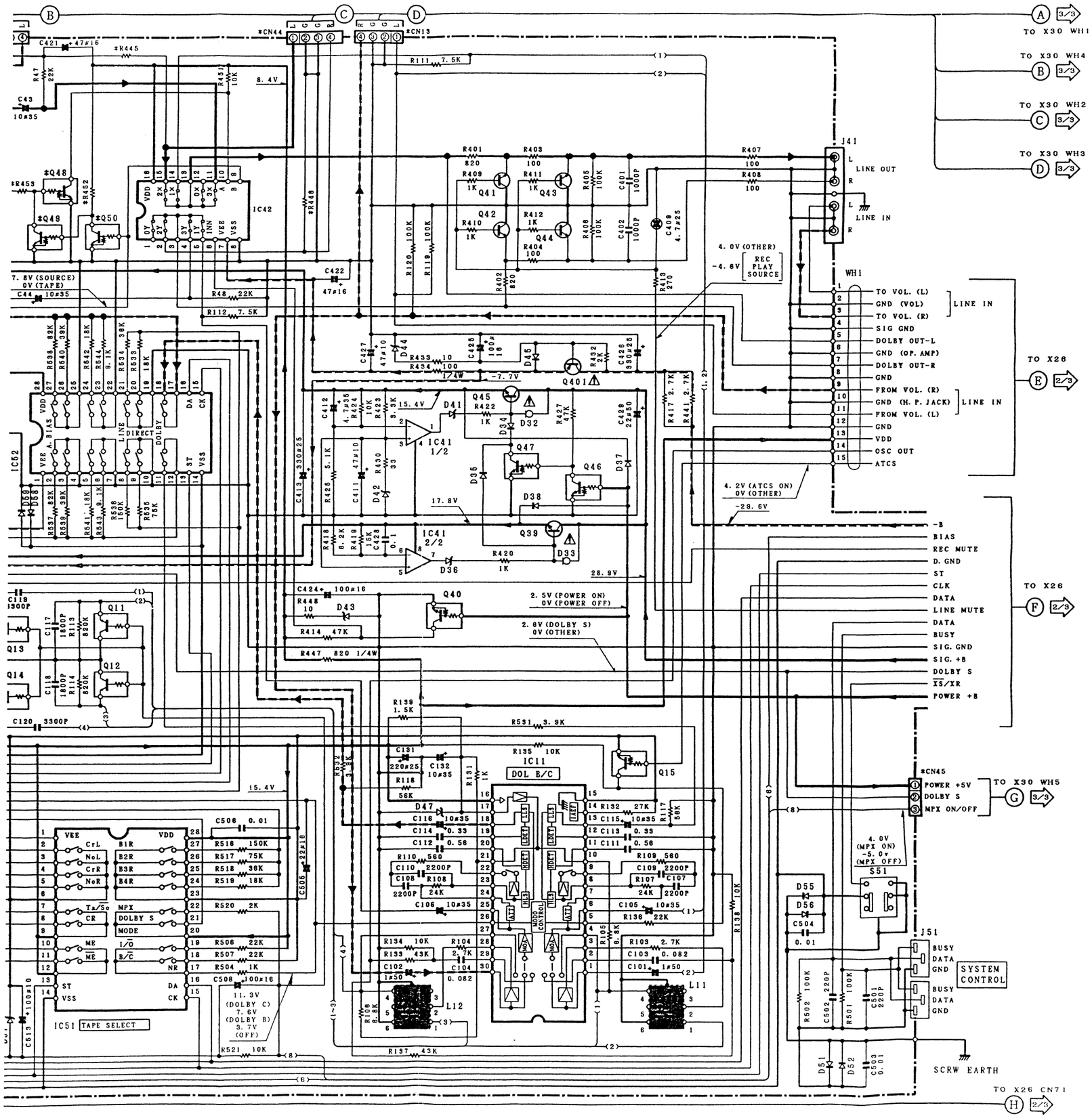
Refer to the schematic diagram for the values of resistors and capacitors.

X26-1342-70 A/2 KX-7050 (P, Y, M, X, T, E)
X26-1342-71 A/2 KX-7050S (P, Y, X, T, E)

D40-1314-05 (7050S)
D40-1313-05 (7050)

IC1 :BA6209
IC2 :BA6229
IC3, 4 :BA10393N
Q1, 2 :UN4219 or DTC113ZS
Q3 :2SC3246

(X29-2352-71)



TYPE / REF. NO	KX-7050 2-70 P, Y, M, X, T, E	KX-7050S 2-71 P, Y, M, T, E
C1, 2	390P	150P
C9, 10	0. 056μ	0. 039μ
C11, 12	8200P	0. 01μ
C17, 18	22μ35	22μ50
C25, 26	2700P	4700P
C27, 28	47μ35	33μ50
C55	NO	10μ35
C201, 202	6800P	5600P
C209, 210	0. 068μ	0. 091μ
C213, 214	560P	3300P
C217, 218	6800P	5600P
C219, 220	2200P	2700P
C221, 222	8200P	0. 01μ
C223, 224	1500P	4700P
C225, 226	2000P	2200P
C227, 228	220P	100P
C229, 230	4700P	2700P
R1, 2	200K	100K
R11, 12	NO	75
R13, 14	43	27
R17, 18	NO	20K
R19, 20	3. 9K	4. 3K
R23, 24	51K	NO
R37, 38	270K	100K
R41, 42	33K	15K
R55	NO	4. 7K
R203, 204	10K	16K
R211, 212	30K	20K
R217, 218	750	510
R219, 220	3. 9K	1K
R221, 222	9. 1K	8. 2K
R223, 224	33K	30K
R227, 228	7. 5K	6. 8K
R229, 230	18K	24K
R233, 234	470	560
R237, 238	4. 7K	3. 9K
R301, 302	180K	100K
R307, 308	43K	33K
R313, 315	7. 5K	8. 2K
R314, 316	2K	1. 2K
R445, 446	NO	22K
R452	NO	10K
R453	NO	1K
R512, 514	18K	13K
R513, 515	43K	27K
VR5, 6	NO	22KB
L31, 32	L32-0393-05	L32-0545-05
Q48~50	NO	YES
CN2, 13, 14 CN44, 45	NO	YES
W102, 105	YES	NO

IC1, 2, 41 : NJM4565L-D
IC3, 11 : CXA1330S
IC21 : NJM4565D-D
IC31 : μPC1297CA
IC42 : XRU4052BorTC4052BP
IC51 : TC9164N
IC52 : TC9162N

Q1~6 : 2SK170 (BL, V)
Q7~10, 19, 20, 25~30 : 2SC3311A (Q, R) or 2SC2458 (Y, GR)
Q11~14, 34~36 : UN4216orDTC143TS
Q15, 40, 46, 47, 49, 50 : UN4212orDTC124ES
Q21~24, 41~44 : 2SD1302 (S, T)
Q31, 32, 39 : 2SC3940A (R, S)
Q33 : 2SC3246
Q45 : 2SD2061or2SD2012
Q48 : UN4219orDTC113ZS
Q401 : 2SB764 (E, F)

D1 : RD13ES (B2) orHZS13N (B2)
D31, 37, 38, 45 51~56, 58, 59 : 1SS133orHSS104
D32, 33 : Z-352
D34, 35 : 1SS199
D36, 41, 46, 47 : RD7. 5JS (B) orHZS7. 5S (B)
D42, 57 : RD5. 1JS (B2) orHZS5. 1S (B2)
D43, 44 : RD8. 2JS (B2) orHZS8. 2S (B2)

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 hochomigen 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 retumed to the customer.

1/3 KX-7050

SIGNAL LINE
GND LINE
+B LINE
-B LINE

X26-134X-XX(A/2)

CN74
from VOL. (R)
GND (VOL.)
from VOL. (L)
Vdd
DOLBY OUT-L
GND (OP. AMP)
DOLBY OUT-R
GND (H. P. JACK)
LINE MUTE

WH1
to VOL. (L)
GND
to VOL. (R)
GND (VOL.)
DOLBY OUT-L
GND (OP. AMP)
DOLBY OUT-R
GND
from VOL. (R)
GND (H. P. JACK)
from VOL. (L)
GND
Vdd
OSC. OUT
ATCS

TO X26 1/3 E
TO X26 1/3 F
TO X29 CN1 1/3 H
TO X29 CN1 1/3 I
TO X29 CN1 1/3 J
TO X29 CN1 1/3 K

CN75
BACK LIGHT LED
+5V
GND

*CN76
SIG. +B
SIG. GND
SIG. -B

WH2
AC11.2V
AC24.0V
AC12.3V
AC12.3V
AC17.3V
AC 6.3V

-B
BIAS
REC. MUTE
D-GND
ST
CLK
DATA
LINE MUTE
DATA
BUSY
SIG. GND
SIG+B
DOLBY S
XS/XR
POWER+B
2.5V (POWER ON)
0V (POWER OFF)

11.8V
+15.4V
1.90V
5.0V
28.9V
-29.6V
14.9V
-37.1V
-15.1V
20.6V
11.8V
0V (POWER OFF)
4.7V (POWER ON)

METER ADJ.
(VR95)

IC801 (2/2)
IC801 (1/2)
IC95 (2/2)
IC95 (1/2)
IC96
IC702
IC701
IC705
μ-COM
(BOTTOM VIEW)
IC708

X1
8MHz

MODE (R)
MODE (F)
REEL (R)
REEL (NOR)
REEL (SP)
Vss
XTAL
EXTAL
RESET
REEL (F)
O-SW
C-SW
M (A)
M (B)

ED1
G1 G2 G3 G4 G5 G6
REC
MULTI WAY COUNTER
REPEAT
INDEX SCAN
CCRS
CD PEAK SEARCH
NOR.
CrO2
METAL
ATCS
BIAS
PRESET
DOLBY NR B C 5 MPX FILTER TAPE SOURCE HX PRO
L
R
dB (-)
∞ 30 20 15 10 7 5 3 2 1 0 1 2 3 5 7 10 (+)

CP1 47KX4
CP2 47KX8

CN71
+12V
GND
MODE (F)
MODE (R)
REEL (F)
REEL (R)
REEL (NOR)
REEL (SP)
CPM
MODE (M)
MODE (S)
PHOTO (S)
PHOTO (T)
+5V
GND
METAL
CrO2
HALF
COM
FWD. REC
REV. REC
CLOSE
OPEN
Q. REV
NC

EXPANDER
SYNCRO
OSC. FIL. (400/10K)
LINE MUTE

X26-134×-××

IC801	:NJM4565L-D
IC85	:NJM4565D-D
IC96	:BA6138
IC701	:BA17812T or μPC7812AHF
IC702	:BA17805T or μPC7805AHF
IC705	:CXP82324-147Q
IC708	:PST529DorM51951ASL
Q92, 95~98	:2SC3311(Q, R) or
710~712	2SC2458(Y, GR)
Q707	:UN4216orDTC143TS
Q709, 719	:UN4212orDTC124ES
Q701~706	:2SA1309A(Q, R) or
	2SA1048(Y, GR)
Q714	:2SB1370or2SB1375
Q708	:UN4116orDTA143TS
D15~20, 81, 82	:1SS133orHSS104
91~93, 708,	
710~712, 745,	
753, 758, 759	
D39, 40	:RD3.9ES(B)orHZS3.9N(B)
D701~704, 713	:S5688BorISR139-100
723, 761~764	
D705	:D3SBA20F03orRDV-402LFA
D707, 709	:RD4.7ES(B)orHZS4.7N(B)
D714~717,	:1SS131orHSS104A
719~721, 743	
744, 751	
D718	:E-152

	C701 C727	C705 C706	D701~704 D721	CN76
7050	NO	NO	NO	NO
7050S	2200μ 25V	0.01μ	YES	YES

X25-546×-××

7050S	2-70	(P, T, E)
	0-21	(Y, M)
7050	2-70	(P, X, T, E)
	0-21	(Y, M)

X25-546×-××

IC81	:NJM4565L or XRA15218N
Q81, 82	:2SC3311A(Q. R) or
	2SC2458(Y. GR)
Q83, 84	:2SD1302(S. T)
Q71	:UN4212 or DTC124ES
D81, 82	:1SS133 or HSS104
D701~717	:1SS131 or HSS104A
D718	:B30-1290-05

X25-546×-×× C/5

X25- B/5

X25- D/5

X26-134X-XX(SUB)

Y, M TYPE(7050, 7050S)

P, X, T, E TYPE(7050)

P, T, E TYPE(7050S)

TO X30 WH6

SIGNAL LINE
GND LINE
+B LINE
-B LINE

X30-1302-70 (KX-7050S)

TO X26 CN2 (A)
TO X26 CN14 (B)
TO X26 CN44 (C)
TO X26 CN13 (D)
TO X26 CN45 (G)
TO X26 CN76 (I)

WH1 L GND GND R
WH2 R GND GND L

IC3 IC4 IC7 IC8

DOL S DECODER

DOL S ENC

IC1 1/2 IC1 2/2 IC2 1/2 IC2 2/2 IC5 1/2 IC6 1/2

Q1 Q2 Q3 Q4

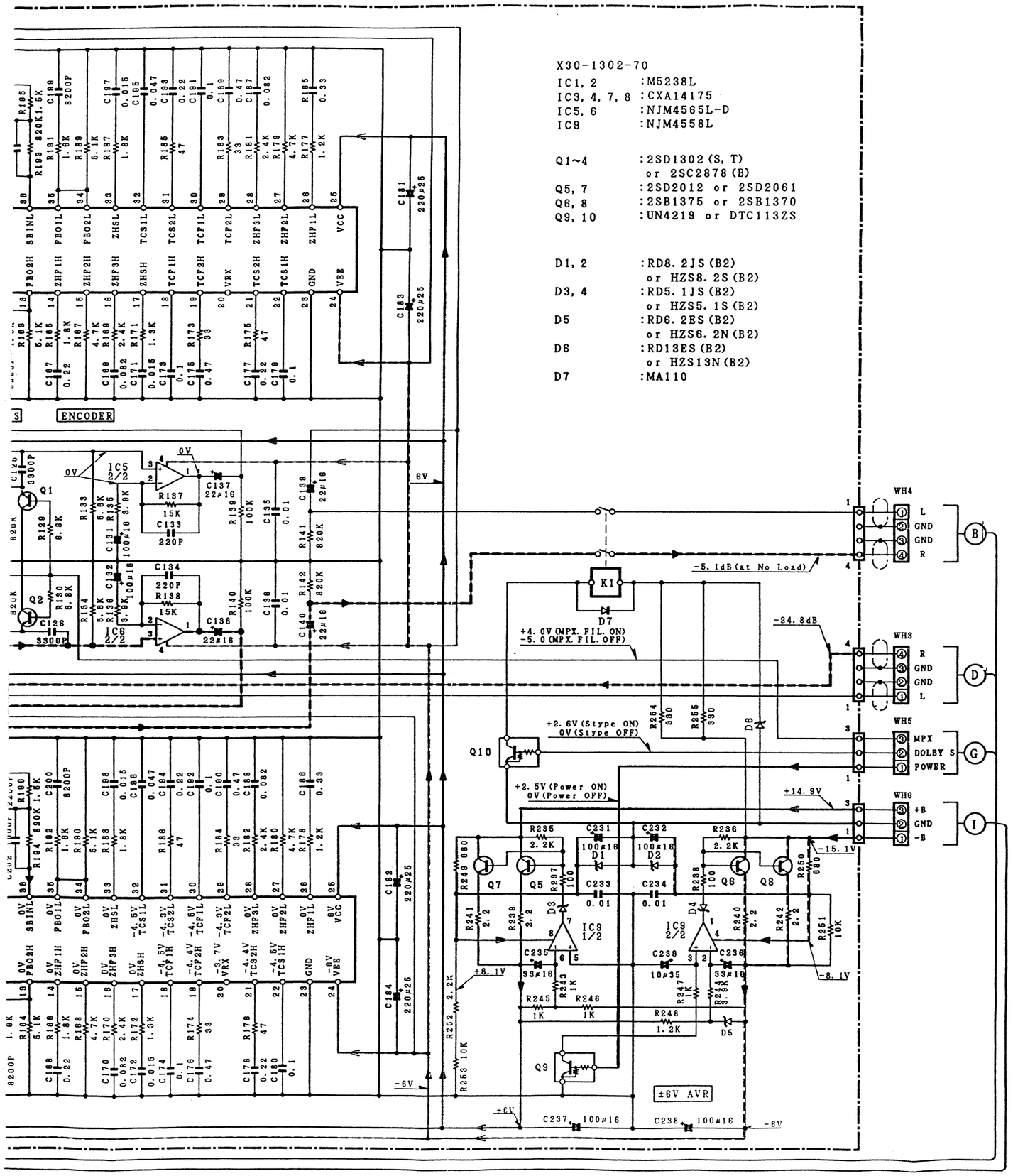
L3 L4

-6dB -22.4dB -0.1dB

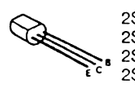
0V 6V -6V

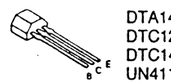
X30-1302-70

IC1, 2	:M5238L
IC3, 4, 7, 8	:CXA14175
IC5, 6	:NJM4565L-D
IC9	:NJM4558L
Q1~4	:2SD1302 (S, T) or 2SC2878 (B)
Q5, 7	:2SD2012 or 2SD2061
Q6, 8	:2SB1375 or 2SB1370
Q9, 10	:UN4219 or DTC113ZS
D1, 2	:RD8.2JS (B2) or HZS8.2S (B2)
D3, 4	:RD5.1JS (B2) or HZS5.1S (B2)
D5	:RD6.2ES (B2) or HZS6.2N (B2)
D6	:RD13ES (B2) or HZS13N (B2)
D7	:MA110

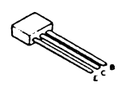


SIGNAL LINE
GND LINE
+B LINE
-B LINE


2SB764
2SC2878
2SC3246
2SC3940A
2SD1302

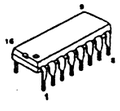

DTA143TS
DTC124ES
DTC143TS
UN4116
2SA1048
2SC2458

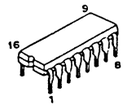

2SB1370
2SD2061

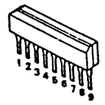

UN4212
UN4216
UN4219
2SA1309A
2SC3311A

2SB1375
2SD2012


NJM4565D-D

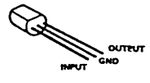

XRU4052B


TC4052BP


NJM4558L

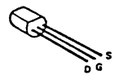

BA6138


M5238L



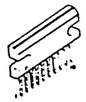
M51951ASL
PST529D

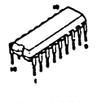

BA17805T
BA17812T
UPC7805AHF
UPC7812AHF

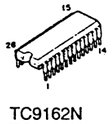

2SK170

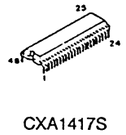

BA6209
BA6229

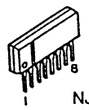

BA10393N


CXA1330S


UPC1297CA


TC9162N
TC9164N


CXA1417S


NJM4565L
NJM4565L-D

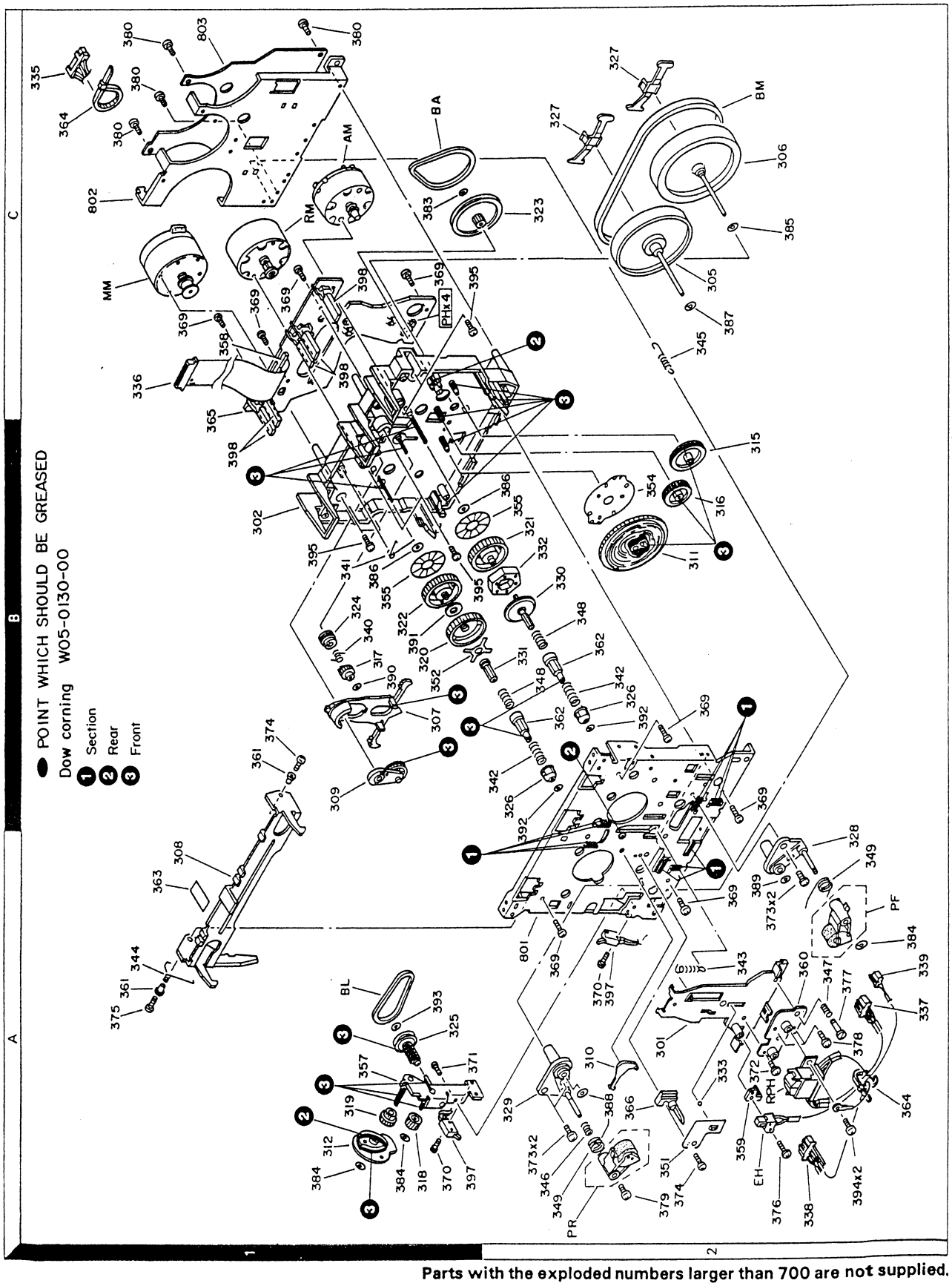
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

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 hochomigen 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.

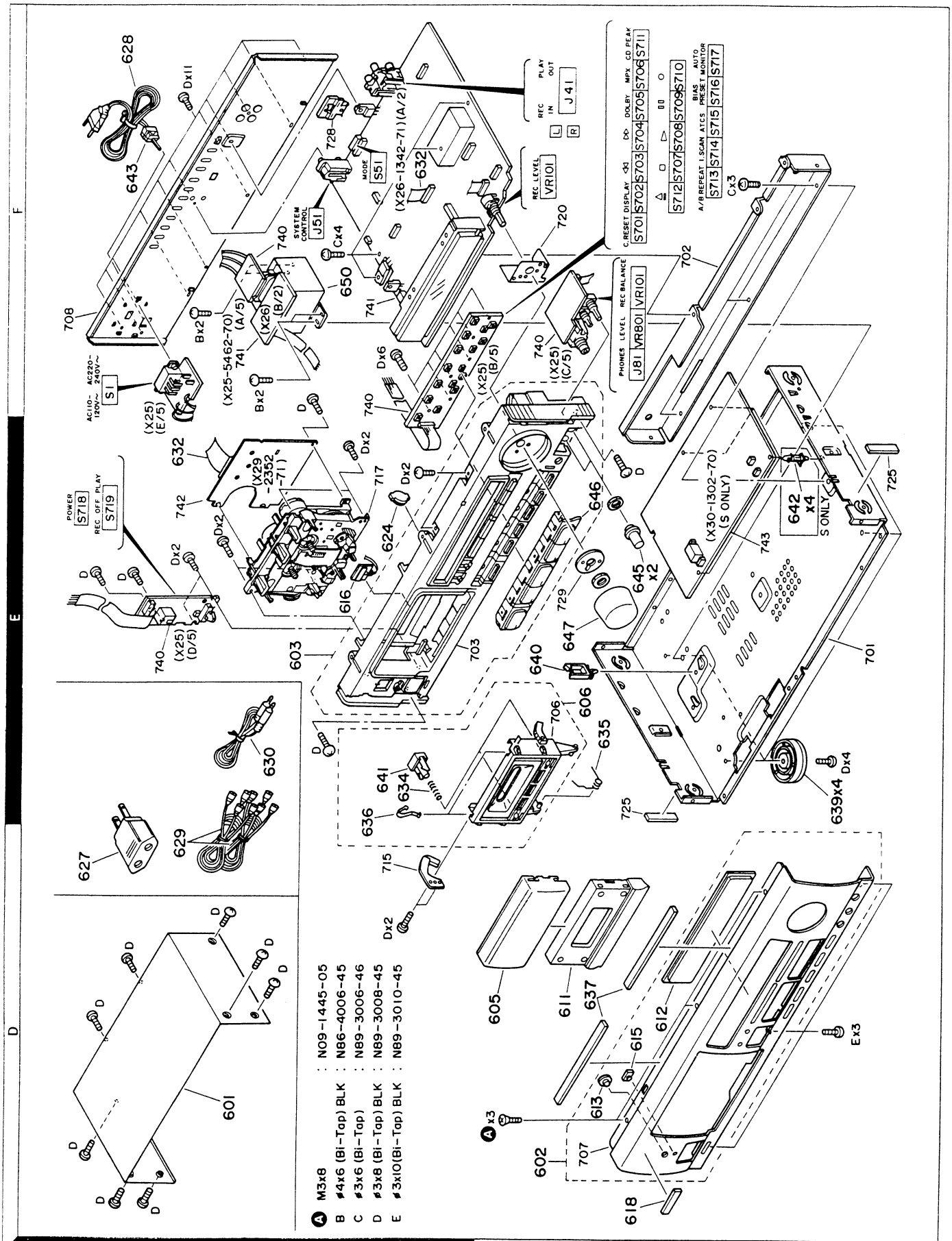
EXPLODED VIEW (MECHANISM UNIT)



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

KX-7050/S

EXPLODED VIEW (UNIT)



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

* 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

NO.2

* 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.

* 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-7050						
601	1D	*	A01-3071-01	METALLIC CABINET		
602	2D	*	A60-0436-03	PANEL ASSY		
603	1E	*	A22-1643-02	SUB PANEL ASSY		
605	2D	*	A53-1438-03	CASSETTE LID		
606	2E	*	A53-1368-13	CASSETTE HOLDER ASSY		
611	2D	*	B03-2844-03	DRESSING PLATE		
612	2D		B10-1924-04	FRONT GLASS		
613	2D		B11-0237-14	COLOR FILTER		
615	2D		B12-0212-14	INDICATOR		
616	1E		B30-1036-05	LED(SLF-601C)		
618	2D		B43-0287-04	KENWOOD BADGE		
-			B46-0096-33	WARRANTY CARD	X	
-		*	B46-0121-33	WARRANTY CARD	P	
-			B46-0310-03	WARRANTY CARD	ET	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-1245-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1247-00	INSTRUCTION MANUAL (FRENCH)	EP	
-		*	B60-1248-00	INSTRUCTION MANUAL (GE,DU,IT)	E	
-		*	B60-1249-00	INSTRUCTION MANUAL (SPA,CHI)	M	
624	1E		D39-0200-05	DAMPER		
⚠ 627	1D		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 628	1F		E30-0459-05	AC POWER CORD	EM	
⚠ 628	1F		E30-0712-05	AC POWER CORD	Y	
⚠ 628	1F		E30-0974-05	AC POWER CORD	P	
⚠ 628	1F	*	E30-2714-05	AC POWER CORD	X	
⚠ 628	1F		E30-2718-05	AC POWER CORD	T	
629	1D		E30-0505-05	AUDIO CORD		
630	1E		E30-2733-05	CORD WITH PLUG		
632	1E,1F		E35-0407-05	FLAT CABLE X26(CN71)-X29(CN1)		
634	1E		G01-3503-04	COMPRESSION SPRING		
635	2E		G01-3504-14	TORSION COIL SPRING		
636	1E		G02-1008-04	FLAT SPRING		
637	2D		G11-0185-04	SOFT TAPE (120X5X2)(PANEL)		
		*	H50-0704-04	ITEM CARTON CASE	EPYMX	
		*	H50-0705-04	ITEM CARTON CASE	T	
-		*	H10-5538-02	POLYSTYRENE FOAMED FIXTURE L	EPYMX	
-		*	H10-5539-02	POLYSTYRENE FOAMED FIXTURE R	EPYMX	
-		*	H10-5673-02	POLYSTYRENE FOAMED FIXTURE L	T	
-		*	H10-5674-02	POLYSTYRENE FOAMED FIXTURE R	T	
-			H20-0417-14	PROTECTION COVER(460X370X360)	M	
-			H25-0224-04	PROTECTION BAG (800X400X0.03)	EPYX	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EPYMX	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0653-04	PROTECTION BAG (0224 PRINTED)	T	
639	2E		J02-1002-05	FOOT		
640	2E		J11-0055-05	WIRE CLAMPER		
641	1E		J11-0140-04	CLAMPER ASSY		
⚠ 643	1F		J42-0083-05	POWER CORD BUSHING		
-			J61-0039-05	WIRE BAND		
645	2E		K29-5670-04	KNOB LEVEL,REC BALANCE		
646	2E		K29-4410-03	KNOB MECHA CONTROL		

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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
647	2E		K29-4411-04	KNOB REC LEVEL		
650	1F	*	L07-0737-05	POWER TRANSFORMER	EXT	
650	1F	*	L07-0739-05	POWER TRANSFORMER	P	
650	1F	*	L07-0740-05	POWER TRANSFORMER	YM	
A	2D		N09-1445-05	SET SCREW (M3X8)		
B	1F		N86-4006-45	BINDING HEAD TAPTITE SCREW		
C	2F		N89-3006-46	BINDING HEAD TAPTITE SCREW		
D	1D,1E		N89-3008-45	BINDING HEAD TAPTITE SCREW		
E	2D		N89-3010-45	BINDING HEAD TAPTITE SCREW		
KX-7050S						
601	1D	*	A01-3071-01	METALLIC CABINET		
602	2D	*	A60-0509-03	PANEL ASSY		
603	1E	*	A22-1643-02	SUB PANEL ASSY		
605	2D	*	A53-1439-03	CASSETTE LID		
606	2E	*	A53-1368-13	CASSETTE HOLDER ASSY		
611	2D	*	B03-2861-03	DRESSING PLATE		
612	2D		B10-1924-04	FRONT GLASS		
613	2D		B11-0237-14	COLOR FILTER		
615	2D		B12-0212-14	INDICATOR		
616	1E		B30-1036-05	LED(SLF-601C)		
618	2D		B43-0287-04	KENWOOD BADGE		
-		*	B46-0121-33	WARRANTY CARD	P	
-			B46-0310-03	WARRANTY CARD	ET	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-1245-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1247-00	INSTRUCTION MANUAL (FRENCH)	EP	
-		*	B60-1248-00	INSTRUCTION MANUAL (GE,DU,IT)	E	
-		*	B60-1249-00	INSTRUCTION MANUAL (SPA,CHI)	M	
624	1E		D39-0200-05	DAMPER		
⚠ 627	1D		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 628	1F		E30-0459-05	AC POWER CORD	EM	
⚠ 628	1F		E30-0712-05	AC POWER CORD	Y	
⚠ 628	1F		E30-0974-05	AC POWER CORD	P	
⚠ 628	1F		E30-2718-05	AC POWER CORD	T	
629	1D		E30-0505-05	AUDIO CORD		
630	1E		E30-2733-05	CORD WITH PLUG		
632	1E,1F		E35-0407-05	FLAT CABLE X26(CN71)-X29(CN1)		
634	1E		G01-3503-04	COMPRESSION SPRING		
635	2E		G01-3504-14	TORSION COIL SPRING		
636	1E		G02-1008-04	FLAT SPRING		
637	2D		G11-0185-04	SOFT TAPE (120X5X2)(PANEL)		
-		*	H10-5538-02	POLYSTYRENE FOAMED FIXTURE L	EPYM	
-		*	H10-5539-02	POLYSTYRENE FOAMED FIXTURE R	EPYM	
-		*	H10-5673-02	POLYSTYRENE FOAMED FIXTURE L	T	
-		*	H10-5674-02	POLYSTYRENE FOAMED FIXTURE R	T	
-			H20-0417-14	PROTECTION COVER(460X370X360)	M	
-			H25-0224-04	PROTECTION BAG (800X400X0.03)	EPY	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EPYM	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0653-04	PROTECTION BAG (0224 PRINTED)	T	
-		*	H50-0706-04	ITEM CARTON CASE	EPYM	
-		*	H50-0707-04	ITEM CARTON CASE	T	

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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
639	2E		J02-1002-05	FOOT		
640	2E		J11-0055-05	WIRE CLAMPER		
641	1E		J11-0140-04	CLAMPER ASSY		
642	1F		J19-3326-15	UNIT HOLDER		
643	1F		J42-0083-05	POWER CORD BUSHING		
-			J61-0039-05	WIRE BAND		
645	2E		K29-5670-04	KNOB LEVEL,REC BALANCE		
646	2E		K29-4410-03	KNOB MECHA CONTROL		
647	2E		K29-4411-04	KNOB REC LEVEL		
650	1F	*	L07-0741-05	POWER TRANSFORMER	ET	
650	1F	*	L07-0742-05	POWER TRANSFORMER	P	
650	1F	*	L07-0743-05	POWER TRANSFORMER	YM	
A	2D		N09-1445-05	SET SCREW (M3X8)		
B	1F		N86-4006-45	BINDING HEAD TAPTITE SCREW		
C	2F		N89-3006-46	BINDING HEAD TAPTITE SCREW		
D	1D,1E		N89-3008-45	BINDING HEAD TAPTITE SCREW		
E	2D		N89-3010-45	BINDING HEAD TAPTITE SCREW		
ACCESSORY UNIT(X25-546X-XX)						
D718			B30-1290-05	LED(LN21RCALSLX(U)-(TA4))		
C71			CE04KW1V100M	ELECTRO 10UF 35WV		
C72			C91-1439-05	FILM 0.01UF 250VAC	EPXT	
C72 ,73			C91-1439-05	FILM 0.01UF 250VAC	YM	
C801,802			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C803,804			CK45FB1H102K	CERAMIC 1000PF K		
C805,806			CE04KW1V100M	ELECTRO 10UF 35WV		
C807,808			CC45FSL1H220J	CERAMIC 22PF J		
C809			CE04KW1C221M	ELECTRO 220UF 16WV		
C810			CE04KW1C470M	ELECTRO 47UF 16WV		
C811			CE04HW1A330M	NP-ELEC 33UF 10WV		
C812			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C813,814			CE04KW1C470M	ELECTRO 47UF 16WV		
C815-818			CC45FSL1H560J	CERAMIC 56PF J		
J81			E11-0208-05	PHONE JACK PHONES		
VR101			R05-5035-05	POTENTIOMETER(200K)REC BALANCE		
VR801			R10-4044-05	POTENTIOMETER PHONES LEVEL		
S1			S62-0001-05	SLIDE SWITCH VOLTAGE SELECTOR	YM	
S701-718			S40-1064-05	PUSH SWITCH KEY BOARD		
S719			S31-1017-05	SLIDE SWITCH TIMER(REC/PLAY)		
D81 ,82			HSS104	DIODE		
D81 ,82			1SS133	DIODE		
D701-717			HSS104A	DIODE		
D701-717			1SS131	DIODE		
IC81			NJM4565L	IC(OP AMP X2)		
IC81			XRA15218N	IC		
Q71			DTC124ES	DIGITAL TRANSISTOR		
Q71			UN4212	DIGITAL TRANSISTOR		
Q81 ,82			2SC2458(Y,GR)	TRANSISTOR		
Q81 ,82			2SC3311A(Q,R)	TRANSISTOR		
Q83 ,84			2SD1302(S,T)	TRANSISTOR		
A71			W02-0975-05	ELECTRIC CIRCUIT MODULE		

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NO.4

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
C1 ,2			CC45FSL1H151J	CERAMIC 150PF J		S
C1 ,2			CK45FB1H391K	CERAMIC 390PF K		
C3 ,4			CF92FV1H222J	MF 2200PF J		
C5 ,6			CF92FV1H563J	MF 0.056UF J		
C7 ,8			CE04KW1V100M	ELECTRO 10UF 35WV		
C9 ,10			CF92FV1H393J	MF 0.039UF J		S
C9 ,10			CF92FV1H563J	MF 0.056UF J		
C11 ,12			CF92FV1H103J	MF 0.010UF J		S
C11 ,12			CF92FV1H682J	MF 6800PF J		
C13 ,14			CF92FV1H821J	MF 820PF J		
C15 ,16			CF92FV1H103J	MF 0.010UF J		
C17 ,18			CE04KW1H220M	ELECTRO 22UF 50WV		S
C17 ,18			CE04KW1V220M	ELECTRO 22UF 35WV		
C19 ,20			CK45FF1H223Z	CERAMIC 0.022UF Z		
C21 ,22			CE04KW1E101M	ELECTRO 100UF 25WV		
C23			CE04KW1E221M	ELECTRO 220UF 25WV		
C24			CE04KW1C101M	ELECTRO 100UF 16WV		
C25 ,26			CF92FV1H472J	MF 4700PF J		
C25 ,26			CF92FV1H562J	MF 5600PF J		S
C27 ,28			CE04KW1H330M	ELECTRO 33UF 50WV		S
C27 ,28			CE04KW1V470M	ELECTRO 47UF 35WV		
C37 -40			CE04KW1V100M	ELECTRO 10UF 35WV		
C41 ,42			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C43 ,44			CE04KW1V100M	ELECTRO 10UF 35WV		
C45 -48			CF92FV1H222J	MF 2200PF J		
C49 ,50			CF92FV1H564J	MF 0.56UF J		
C51 ,52			CF92FV1H334J	MF 0.33UF J		
C53			CE04KW1E101M	ELECTRO 100UF 25WV		
C54			CE04KW1V100M	ELECTRO 10UF 35WV		
C55			CE04KW1V100M	ELECTRO 10UF 35WV		S
C101,102			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C103,104			CF92FV1H823J	MF 0.082UF J		
C105,106			CE04KW1V100M	ELECTRO 10UF 35WV		
C107-110			CF92FV1H222J	MF 2200PF J		
C111,112			CF92FV1H564J	MF 0.56UF J		
C113,114			CF92FV1H334J	MF 0.33UF J		
C115,116			CE04KW1V100M	ELECTRO 10UF 35WV		
C117,118			CF92FV1H182J	MF 1800PF J		
C119,120			CF92FV1H332J	MF 3300PF J		
C131			CE04KW1E221M	ELECTRO 220UF 25WV		
C132			CE04KW1V100M	ELECTRO 10UF 35WV		
C201,202			CF92FV1H562J	MF 5600PF J		S
C201,202			CF92FV1H682J	MF 6800PF J		
C203,204			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C205,206			CE04KW1V100M	ELECTRO 10UF 35WV		
C207,208			CC45FSL1H680J	CERAMIC 68PF J		
C209,210			CF92FV1H823J	MF 0.082UF J		
C209,210			CF92FV1H913J	MF 0.091UF J		S
C211,212			CE04KW1V100M	ELECTRO 10UF 35WV		
C213,214			CF92FV1H332J	MF 3300PF J		S
C213,214			CF92FV1H561J	MF 560PF J		
C215,216			C91-1432-05	FILM 100PF J		
C217,218			CF92FV1H562J	MF 5600PF J		

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7 : KX-7050
S : KX7050S

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NO.5

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
C219,220			CF92FV1H222J	MF	2200PF	J		
C219,220			CF92FV1H272J	MF	2700PF	J		S
C221,222			CF92FV1H103J	MF	0.010UF	J		S
C221,222			CF92FV1H822J	MF	8200PF	J		
C223-226			CF92FV1H222J	MF	2200PF	J		
C223,224			CF92FV1H472J	MF	4700PF	J		S
C225,226			CF92FV1H222J	MF	2200PF	J		S
C227,228			CF92FV1H101K	MF	100PF	K		S
C227,228			CF92FV1H271K	MF	270PF	K		
C229,230			CF92FV1H272J	MF	2700PF	J		S
C229,230			CF92FV1H332J	MF	3300PF	J		
C231,232			CF92FV1H331K	MF	330PF	K		
C242			CE04KW1C101M	ELECTRO	100UF	16WV		
C243			CE04KW1E101M	ELECTRO	100UF	25WV		
C301-304			C91-1432-05	FILM	100PF	J		
C305,306			CK45FB1H681K	CERAMIC	680PF	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			C91-0774-05	POLYPRO	1200PF	J		
C317			CE04KW1C101M	ELECTRO	100UF	16WV		
C318			CE04KW1V100M	ELECTRO	10UF	35WV		
C319			CC45FSL2H100D	CERAMIC	10PF	D		
C320			CF92FV1H153J	MF	0.015UF	J		
C321,322			CF92FV1H222J	MF	2200PF	J		
C323			CF92FV1H562J	MF	5600PF	J		
C324			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C325			CE04KW1E330M	ELECTRO	33UF	25WV		
C326,327			CE04KW1V100M	ELECTRO	10UF	35WV		
C401,402			CK45FB1H102K	CERAMIC	1000PF	K		
C409			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV		
C411			CE04KW1A470M	ELECTRO	47UF	10WV		
C412			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C413			CE04DW1E331M	ELECTRO	330UF	25WV		
C421,422			CE04KW1C470M	ELECTRO	47UF	16WV		
C424,425			CE04KW1C101M	ELECTRO	100UF	16WV		
C426			CE04DW1E331M	ELECTRO	330UF	25WV		
C427			CE04KW1A470M	ELECTRO	47UF	10WV		
C428			CF92FV1H104J	MF	0.10UF	J		
C429			CE04KW1H220M	ELECTRO	22UF	50WV		
C501,502			CC45FSL1H221J	CERAMIC	220PF	J		
C503,504			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C505			CE04KW1C220M	ELECTRO	22UF	16WV		
C506,507			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C508			CE04KW1C101M	ELECTRO	100UF	16WV		
C511,512			CF92FV1H104J	MF	0.10UF	J		
C513			CE04KW1A101M	ELECTRO	100UF	10WV		
C545			CE04HW1E100M	NP-ELEC	10UF	25WV		
C701			CE04KW1E222M	ELECTRO	2200UF	25WV		S
C702			C90-1872-05	ELECTRO	10000UF	25WV		
C703			CE04KW1J471M	ELECTRO	470UF	63WV		
C704			CK45FB1H102K	CERAMIC	1000PF	K		
C705,706			CK45FF1H103Z	CERAMIC	0.010UF	Z		S

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NO.6

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
C707			CE04KW1H470M	ELECTRO	47UF	50WV		
C708,709			CF92FV1H104J	MF	0.10UF	J		
C710			CE04KW1V100M	ELECTRO	10UF	35WV		
C711,712			CF92FV1H104J	MF	0.10UF	J		
C713			CE04KW1C101M	ELECTRO	100UF	16WV		
C714			CE04KW0J471M	ELECTRO	470UF	6.3WV		
C716			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C717			CE04KW1V330M	ELECTRO	33UF	35WV		
C718			C91-0700-05	CERAMIC	0.1UF	J		
C719			CE04KW1V100M	ELECTRO	10UF	35WV		
C720			CK45FB1H102K	CERAMIC	1000PF	K		
C721			CE04KW1A101M	ELECTRO	100UF	10WV		
C723			CF92FV1H513J	MF	0.051UF	J		
C724			CF92FV1H222J	MF	2200PF	J		
C726			CE04KW1A101M	ELECTRO	100UF	10WV		
C727			CE04KW1E222M	ELECTRO	2200UF	25WV		S
C728			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C731			C91-0700-05	CERAMIC	0.1UF	J		
C735-738			CC45FSL1H221J	CERAMIC	220PF	J		
C740,741			CK45FB1H102K	CERAMIC	1000PF	K		
C743			C90-1591-05	ELECTRO	2200UF	50WV		
C744			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C745,746			CK45FB1H102K	CERAMIC	1000PF	K		
C803,804			CC45FSL1H101J	CERAMIC	100PF	J		
C805,806			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C807,808			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C809			CE04KW1A101M	ELECTRO	100UF	10WV		
C810			CF92FV1H103J	MF	0.010UF	J		
C901			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C902			CK45FB1H102K	CERAMIC	1000PF	K		
C903			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C904			C90-1826-05	BACKUP	0.047F	5.5WV		
C949,950			CE04KW1V100M	ELECTRO	10UF	35WV		
C951,952			CE04KW1HR33M	ELECTRO	0.33UF	50WV		
C953,954			CF92FV1H332J	MF	3300PF	J		
C957,958			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C959			CE04KW1V100M	ELECTRO	10UF	35WV		
C961,962			CE04KW1V100M	ELECTRO	10UF	35WV		
C965,966			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C967,968			CK45FB1H561K	CERAMIC	560PF	K		
C969,970			CE04KW1H010M	ELECTRO	1.0UF	50WV		
CN71	1F		E40-4165-05	FLAT CABLE CONNCTOR				
J41			E13-0445-05	PHONO JACK(4P) LINE(IN/OUT)				
J51			E11-0188-05	MINIATURE PHONE JACK SYNCHRO				
L11 ,12			L79-0792-05	LC FILTER				
L21 ,22			L40-2235-29	SMALL FIXED INDUCTOR(22MH ,J)				
L23 ,24			L39-0190-05	TRAP COIL				
L31 ,32			L32-0393-05	BIAS OSCILATING COIL				
L31 ,32			L32-0545-05	BIAS OSCILATING COIL				S
L33			L32-0544-05	OSCILATING COIL				
X1			L78-0290-05	RESONATOR (8MHZ)				
CP1			R90-0487-05	MULTI-COMP	47KX4	J 1/6W		
CP2			R90-0804-05	MULTI-COMP	47KX8	J 1/4W		

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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
R33			RD14NB2E101J	RD 100 J 1/4W		
R320			R92-0219-05	FUSE RESIST 10 G 1/4W		
R321			R92-0508-05	FUSE RESIST 22 G 1/4W		
R324,325			RD14NB2E4R7J	RD 4.7 J 1/4W		
R705			RS14KB3D391J	FL-PROOF RS 390 J 2W		
R711			R92-0508-05	FUSE RESIST 22 G 1/4W		
R975			RD14NB2E101J	RD 100 J 1/4W		
VR1 ,2			R12-0604-05	TRIMMING POT.(100) PLAY LEVEL		
VR5 ,6			R12-3686-05	TRIMMING POT.(22K) PLAY LEVEL		S
VR21,22			R12-3686-05	TRIMMING POT.(22K) REC LEVEL		
VR31,32			R12-3688-05	TRIMMING POT.(47K) BIAS ADJ		
VR95			R12-1619-05	TRIMMING POT.(4.7K) FL METER		
VR101			R06-4085-05	POTENTIOMETER REC LEVEL		
S51			S31-2094-05	SLIDE SWITCH MPX(ON/OFF)		
D1			HZS13N(B2)	ZENER DIODE		
D1			RD13ES(B2)	ZENER DIODE		
D15 -20			HSS104	DIODE		
D15 -20			1SS133	DIODE		
D31			HSS104	DIODE		
D31			1SS133	DIODE		
D32 ,33			E-352	CONSTANT CURRENT DIODE		
D34 ,35			1SS199	DIODE		
D36			HZS7.5S(B)	ZENER DIODE		
D36			RD7.5JS(B)	ZENER DIODE		
D37 ,38			HSS104	DIODE		
D37 ,38			1SS133	DIODE		
D39 ,40			HZS3.9N(B)	ZENER DIODE		
D39 ,40			RD3.9ES(B)	ZENER DIODE		
D41			HZS7.5S(B)	ZENER DIODE		
D41			RD7.5JS(B)	ZENER DIODE		
D42			HZS5.1S(B2)	ZENER DIODE		
D42			RD5.1JS(B2)	ZENER DIODE		
D43 ,44			HZS8.2S(B2)	ZENER DIODE		
D43 ,44			RD8.2JS(B2)	ZENER DIODE		
D45			HSS104	DIODE		
D45			1SS133	DIODE		
D46 ,47			HZS7.5S(B)	ZENER DIODE		
D46 ,47			RD7.5JS(B)	ZENER DIODE		
D51 -56			HSS104	DIODE		
D51 -56			1SS133	DIODE		
D57			HZS5.1S(B2)	ZENER DIODE		
D57			RD5.1JS(B2)	ZENER DIODE		
D58 ,59			HSS104	DIODE		
D58 ,59			1SS133	DIODE		
D81 ,82			HSS104	DIODE		
D81 ,82			1SS133	DIODE		
D91 -93			HSS104	DIODE		
D91 -93			1SS133	DIODE		
D701-704			S5688B	DIODE		S
D701-704			1SR139-100	DIODE		S
D705			D3SBA20F03	DIODE		
D705			RBV-402LFA	DIODE		
D707			HZS4.7N(B)	ZENER DIODE		
D707			RD4.7ES(B)	ZENER DIODE		

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NO.8

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
D708			HSS104	DIODE		
D708			1SS133	DIODE		
D709			HZS4.7N(B)	ZENER DIODE		
D709			RD4.7ES(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		
D718			E-152	CONSTANT CURRENT DIODE		
D719,720			HSS104A	DIODE		
D719,720			1SS131	DIODE		
D723			S5688B	DIODE		
D723			1SR139-100	DIODE		
D743,744			HSS104A	DIODE		
D743,744			1SS131	DIODE		
D745			HSS104	DIODE		
D745			1SS133	DIODE		
D751			HSS104A	DIODE		
D751			1SS131	DIODE		
D753			HSS104	DIODE		
D753			1SS133	DIODE		
D758,759			HSS104	DIODE		
D758,759			1SS133	DIODE		
D761-764			S5688B	DIODE		
D761-764			1SR139-100	DIODE		
ED1		*	CM1223C	INDICATOR TUBE		
IC1 ,2			NJM4565L-D	IC(OP AMP X2)		
IC3			CXA1330S	IC(DOLBY B/C)		
IC11			CXA1330S	IC(DOLBY B/C)		
IC21			NJM4565D-D	IC(OP AMP X2)		
IC31			UPC1297CA	IC(DOL HX PRO SYSTEM)		
IC41			NJM4565L-D	IC(OP AMP X2)		
IC42			TC4052BP	IC(4CH MPX/DE-MPX)		
IC42			XRU4052B	IC(MULTIPLEXER/DEMULTIPLEXER)		
IC51			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC52			TC9162N	IC(ANALOG SWITCH ARRAY)		
IC95			NJM4565D-D	IC(OP AMP X2)		
IC96			BA6138	IC(ROOT AMP X2)		
IC701			BA17812T	IC(VOLTAGE REGULATOR/ +12V)		
IC701			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)		
IC702			BA17805T	IC(VOLTAGE REGULATOR/ +5V)		
IC702			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
IC705		*	CXP82324-147Q	IC(8 bit MICROPROCESSOR)		
IC708			M51951ASL	IC(SYSTEM RESET)		
IC708			PST529D	IC(SYSTEM RESET)		
IC801			NJM4565L-D	IC(OP AMP X2)		
Q1 -6			2SK170(BL,V)	FET		
Q7 -10			2SC2458(Y,GR)	TRANSISTOR		
Q7 -10			2SC3311A(Q,R)	TRANSISTOR		
Q11 -14			DTC143TS	DIGITAL TRANSISTOR		
Q11 -14			UN4216	DIGITAL TRANSISTOR		
Q15			DTC124ES	DIGITAL TRANSISTOR		
Q15			UN4212	DIGITAL TRANSISTOR		

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NO.9

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
Q19 ,20			2SC2458(Y,GR)	TRANSISTOR				
Q19 ,20			2SC3311A(Q,R)	TRANSISTOR				
Q21 -24			2SD1302(S,T)	TRANSISTOR				
Q25 -30			2SC2458(Y,GR)	TRANSISTOR				
Q25 -30			2SC3311A(Q,R)	TRANSISTOR				
Q31 ,32			2SC3940A(R,S)	TRANSISTOR				
Q33			2SC3246	TRANSISTOR				
Q34 -36			DTC143TS	DIGITAL TRANSISTOR				
Q34 -36			UN4216	DIGITAL TRANSISTOR				
Q39			2SC3940A(R,S)	TRANSISTOR				
Q40			DTC124ES	DIGITAL TRANSISTOR				
Q40			UN4212	DIGITAL TRANSISTOR				
Q41 -44			2SD1302(S,T)	TRANSISTOR				
Q45			2SD2012	TRANSISTOR				
Q45			2SD2061	TRANSISTOR				
Q46 ,47			DTC124ES	DIGITAL TRANSISTOR				
Q46 ,47			UN4212	DIGITAL TRANSISTOR				
Q48			DTC113ZS	DIGITAL TRANSISTOR				S
Q48			UN4219	DIGITAL TRANSISTOR				S
Q49 ,50			DTC124ES	DIGITAL TRANSISTOR				S
Q49 ,50			UN4212	DIGITAL TRANSISTOR				S
Q92			2SC2458(Y,GR)	TRANSISTOR				
Q92			2SC3311A(Q,R)	TRANSISTOR				
Q95 -98			2SC2458(Y,GR)	TRANSISTOR				
Q95 -98			2SC3311A(Q,R)	TRANSISTOR				
Q401			2SB764(E,F)	TRANSISTOR				
Q701-706			2SA1048(Y,GR)	TRANSISTOR				
Q701-706			2SA1309A(Q,R)	TRANSISTOR				
Q707			DTC143TS	DIGITAL TRANSISTOR				
Q707			UN4216	DIGITAL TRANSISTOR				
Q708			DTA143TS	DIGITAL TRANSISTOR				
Q708			UN4116	DIGITAL TRANSISTOR				
Q709			DTC124ES	DIGITAL TRANSISTOR				
Q709			UN4212	DIGITAL TRANSISTOR				
Q710-712			2SC2458(Y,GR)	TRANSISTOR				
Q710-712			2SC3311A(Q,R)	TRANSISTOR				
Q714			2SB1370	TRANSISTOR				
Q714			2SB1375	TRANSISTOR				
Q719			DTC124ES	DIGITAL TRANSISTOR				
Q719			UN4212	DIGITAL TRANSISTOR				
CASSETTE UNIT(X26-134X-XX)								
C1			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C2			C91-0700-05	CERAMIC	0.1UF	J		
C3			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C4			C91-0700-05	CERAMIC	0.1UF	J		
C5			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C11 ,12			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C13			CE04KW1V100M	ELECTRO	10UF	35WV		
C14 -16			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C17			CE04KW1V100M	ELECTRO	10UF	35WV		
C18			CK45FF1H103Z	CERAMIC	0.010UF	Z		
CN1	1E		E40-4165-05	FLAT CABLE CONNCTOR				
-			J11-0098-05	WIRE CLAMPER				

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NO.10

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
L1			L92-0017-05	FERRITE CORE				
IC1			BA6209	IC(MOTOR DRIVER)				
IC2			BA6229	IC(MOTOR DRIVER)				
IC3 ,4			BA10393N	IC(DUAL COMPARATOR)				
Q1 ,2			DTC113ZS	DIGITAL TRANSISTOR				
Q1 ,2			UN4219	DIGITAL TRANSISTOR				
Q3			2SC3246	TRANSISTOR				
CONTROL UNIT(X29-235X-XX)								
C1 ,2			CK73FB1H471K	CHIP C	470PF	K		
C3 ,4			CE04KW1E221M	ELECTRO	220UF	25WV		
C5 ,6			CF92FV1H103J	MF	0.010UF	J		
C7 ,8			CK73FB1H182K	CHIP C	1800PF	K		
C11 ,12			CE04KW1E221M	ELECTRO	220UF	25WV		
C13 ,14			CC73FSL1H221J	CHIP C	220PF	J		
C15 ,16			CF92FV1H103J	MF	0.010UF	J		
C17 ,18			CE04KW1C220M	ELECTRO	22UF	16WV		
C21 ,22			CE04KW1C220M	ELECTRO	22UF	16WV		
C23 ,24			CF92FV1H104J	MF	0.10UF	J		
C25 ,26			CE04KW1V100M	ELECTRO	10UF	35WV		
C27 ,28			CF92FV1H224J	MF	0.22UF	J		
C29 ,30			CF92FV1H333J	MF	0.033UF	J		
C31 ,32			CF92FV1H104J	MF	0.10UF	J		
C33 ,34			CF92FV1H223J	MF	0.022UF	J		
C35 ,36			CF92FV1H224J	MF	0.22UF	J		
C37 ,38			CF92FV1H105J	MF	1.0UF	J		
C39 ,40			CF92FV1H393J	MF	0.039UF	J		
C41 ,42			CF92FV1H681J	MF	680PF	J		
C43 ,44			CF92FV1H102J	MF	1000PF	J		
C45 ,46			CF92FV1H822J	MF	8200PF	J		
C47 ,48			CF92FV1H224J	MF	0.22UF	J		
C49 ,50			CF92FV1H823J	MF	0.082UF	J		
C51 ,52			CF92FV1H153J	MF	0.015UF	J		
C53 ,54			CF92FV1H104J	MF	0.10UF	J		
C55 ,56			CF92FV1H474J	MF	0.47UF	J		
C57 ,58			CF92FV1H224J	MF	0.22UF	J		
C59 ,60			CF92FV1H104J	MF	0.10UF	J		
C61 -64			CE04KW1E221M	ELECTRO	220UF	25WV		
C65 ,66			CF92FV1H334J	MF	0.33UF	J		
C67 ,68			CF92FV1H823J	MF	0.082UF	J		
C69 ,70			CF92FV1H474J	MF	0.47UF	J		
C71 ,72			CF92FV1H104J	MF	0.10UF	J		
C73 ,74			CF92FV1H224J	MF	0.22UF	J		
C75 ,76			CF92FV1H473J	MF	0.047UF	J		
C77 ,78			CF92FV1H153J	MF	0.015UF	J		
C79 ,80			CF92FV1H822J	MF	8200PF	J		
C81 ,82			CF92FV1H102J	MF	1000PF	J		
C83 ,84			CF92FV1H222J	MF	2200PF	J		
C85 ,86			CF92FV1H471J	MF	470PF	J		
C87 ,88			CF92FV1H182J	MF	1800PF	J		
C89 ,90			CF92FV1H393J	MF	0.039UF	J		
C91 ,92			CF92FV1H104J	MF	0.10UF	J		
C93 -96			CF92FV1H182J	MF	1800PF	J		
C97 ,98			CF92FV1H474J	MF	0.47UF	J		

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NO.11

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
C99 ,100			CF92FV1H223J	MF	0.022UF	J		
C101,102			CF92FV1H104J	MF	0.10UF	J		
C103,104			CF92FV1H183J	MF	0.018UF	J		
C105,106			CF92FV1H104J	MF	0.10UF	J		
C107,108			CF92FV1H182J	MF	1800PF	J		
C111,112			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C113,114			CC73FSL1H101J	CHIP C	100PF	J		
C117,118			CE04KW1E221M	ELECTRO	220UF	25WV		
C119,120			CC73FSL1H221J	CHIP C	220PF	J		
C121,122			CF92FV1H103J	MF	0.010UF	J		
C123,124			CE04KW1C220M	ELECTRO	22UF	16WV		
C125,126			CF92FV1H332J	MF	3300PF	J		
C127,128			CF92FV1H182J	MF	1800PF	J		
C131,132			CE04KW1C101M	ELECTRO	100UF	16WV		
C133,134			CC73FSL1H221J	CHIP C	220PF	J		
C135,136			CF92FV1H103J	MF	0.010UF	J		
C137-142			CE04KW1C220M	ELECTRO	22UF	16WV		
C143,144			CF92FV1H104J	MF	0.10UF	J		
C145,146			CE04KW1V100M	ELECTRO	10UF	35WV		
C147,148			CF92FV1H224J	MF	0.22UF	J		
C149,150			CF92FV1H333J	MF	0.033UF	J		
C151,152			CF92FV1H104J	MF	0.10UF	J		
C153,154			CF92FV1H223J	MF	0.022UF	J		
C155,156			CF92FV1H224J	MF	0.22UF	J		
C157,158			CF92FV1H105J	MF	1.0UF	J		
C159,160			CF92FV1H393J	MF	0.039UF	J		
C161,162			CF92FV1H681J	MF	680PF	J		
C163,164			CF92FV1H102J	MF	1000PF	J		
C165,166			CF92FV1H822J	MF	8200PF	J		
C167,168			CF92FV1H224J	MF	0.22UF	J		
C169,170			CF92FV1H823J	MF	0.082UF	J		
C171,172			CF92FV1H153J	MF	0.015UF	J		
C173,174			CF92FV1H104J	MF	0.10UF	J		
C175,176			CF92FV1H474J	MF	0.47UF	J		
C177,178			CF92FV1H224J	MF	0.22UF	J		
C179,180			CF92FV1H104J	MF	0.10UF	J		
C181-184			CE04KW1E221M	ELECTRO	220UF	25WV		
C185,186			CF92FV1H334J	MF	0.33UF	J		
C187,188			CF92FV1H823J	MF	0.082UF	J		
C189,190			CF92FV1H474J	MF	0.47UF	J		
C191,192			CF92FV1H104J	MF	0.10UF	J		
C193,194			CF92FV1H224J	MF	0.22UF	J		
C195,196			CF92FV1H473J	MF	0.047UF	J		
C197,198			CF92FV1H153J	MF	0.015UF	J		
C199,200			CF92FV1H822J	MF	8200PF	J		
C201,202			CF92FV1H102J	MF	1000PF	J		
C203,204			CF92FV1H222J	MF	2200PF	J		
C205,206			CF92FV1H471J	MF	470PF	J		
C207,208			CF92FV1H182J	MF	1800PF	J		
C209,210			CF92FV1H393J	MF	0.039UF	J		
C211,212			CF92FV1H104J	MF	0.10UF	J		
C213-216			CF92FV1H182J	MF	1800PF	J		
C217,218			CF92FV1H474J	MF	0.47UF	J		
C219,220			CF92FV1H223J	MF	0.022UF	J		
C221,222			CF92FV1H104J	MF	0.10UF	J		

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NO.12

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
C223,224			CF92FV1H183J	MF	0.018UF	J		
C225,226			CF92FV1H104J	MF	0.10UF	J		
C227,228			CF92FV1H182J	MF	1800PF	J		
C231,232			CE04KW1C101M	ELECTRO	100UF	16WV		
C233,234			CF92FV1H103J	MF	0.010UF	J		
C235,236			CE04KW1C330M	ELECTRO	33UF	16WV		
C237,238			CE04KW1C101M	ELECTRO	100UF	16WV		
C239			CE04KW1V100M	ELECTRO	10UF	35WV		
L3 ,4			L79-0792-05	LC FILTER				
W70 -88			R92-0670-05	CHIP R	0 OHM			
W70 -88			R92-2052-05	CHIP R	0	J 1/10W		
K1			S51-2089-05	MAGNETIC RELAY				
D1 ,2			HZS8.2S(B2)	ZENER DIODE				
D1 ,2			RD8.2JS(B2)	ZENER DIODE				
D3 ,4			HZS5.1S(B2)	ZENER DIODE				
D3 ,4			RD5.1JS(B2)	ZENER DIODE				
D5			HZS6.2N(B2)	ZENER DIODE				
D5			RD6.2ES(B2)	ZENER DIODE				
D6			HZS13N(B2)	ZENER DIODE				
D6			RD13ES(B2)	ZENER DIODE				
D7			MA110	DIODE				
IC1 ,2			M5238L	IC(OP AMP X2)				
IC3 ,4			CXA1417S	IC(DOLBY NR STYPE)				
IC5 ,6			NJM4565L-D	IC(OP AMP X2)				
IC7 ,8			CXA1417S	IC(DOLBY NR STYPE)				
IC9			NJM4558L	IC(OP AMP X2)				
Q1 -4			2SC2878(B)	TRANSISTOR				
Q1 -4			2SD1302(S,T)	TRANSISTOR				
Q5			2SD2012	TRANSISTOR				
Q5			2SD2061	TRANSISTOR				
Q6			2SB1370	TRANSISTOR				
Q6			2SB1375	TRANSISTOR				
Q7			2SD2012	TRANSISTOR				
Q7			2SD2061	TRANSISTOR				
Q8			2SB1370	TRANSISTOR				
Q8			2SB1375	TRANSISTOR				
Q9 ,10			DTC113ZS	DIGITAL TRANSISTOR				
Q9 ,10			UN4219	DIGITAL TRANSISTOR				
MECHANISM UNIT(D40-131X-XX)								
301	2A	*	A10-3107-08	HEAD CHASSIS CALKED ASSY				
302	1B		A11-0769-08	BASE CHASSIS ASSY				
305	2C	*	D01-0159-08	FLYWHEEL ASSY LEFT				
306	2C	*	D01-0160-08	FLYWHEEL ASSY RIGHT				
307	1B		D10-3290-08	BRAKE ARM				
308	1A		D10-3292-08	EJECT LEVER				
309	1B		D10-3323-08	FRICTION ARM ASSY				
310	2A	*	D10-3434-08	P TENSION ARM				
311	2B		D12-0143-08	PLAY CAM GEAR				
312	1A		D12-0144-08	LOADING CAM GEAR				
315	2B		D13-1503-08	EXTENTION GEAR A				
316	2B		D13-1504-08	EXTENTION GEAR B				
317	1B		D13-1505-08	SELECT GEAR				

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

* 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.13

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
318	1A		D13-1509-08	HOLDER GEAR A		
319	1A		D13-1510-08	HOLDER GEAR B		
320	1B	*	D13-1575-08	CLUTCH GEAR		
321	2B	*	D13-1576-08	REEL GEAR		
322	1B	*	D13-1582-08	REEL GEAR S		
323	2C		D15-0335-08	PULLEY GEAR (MB)		
324	1B		D15-0336-08	PULLEY (LA)		
325	1A		D15-0339-08	PULLEY GEAR		
326	2B		D19-0270-18	REEL CAP		
327	2C		D23-0303-08	CAPSTAN SPACER		
328	2A	*	D23-0304-08	HOUSING ASSY RIGHT		
329	2A	*	D23-0305-08	HOUSING ASSY LEFT		
330	2B	*	D32-0336-08	REEL STOPPER		
331	2B	*	D32-0338-08	REEL STOPPER		
332	2B	*	D39-0311-08	SPACER		
333	2A	*	D90-0037-08	STEEL BALL		
335	1C		E30-2727-08	MOTOR WIRE 10P		S
335	1C	*	E35-6764-08	MOTOR WIRE 10P		7
336	1C		E35-0577-08	FLAT WIRE 12P		7
336	1C	*	E35-0755-08	FLAT WIRE 12P		S
337	2A	*	E35-0756-08	HEAD WIRE 4P(REC)		
338	2A	*	E35-0757-08	HEAD WIRE 5P(PLAY)		
339	2A	*	E35-0758-08	HEAD WIRE 2P(ERACE)		
340	1B		G01-3521-08	PULLEY GEAR SPRING		
341	1B		G01-3522-08	BRAKE ARM SPRING		
342	2B		G01-3523-08	REEL SPRING		
343	2A		G01-3527-08	HEAD SHASSIS SPRING		
344	1A		G01-3528-08	EJECT LEVER SPRING		
345	2C		G01-3529-08	EARTH SPRING		
346	2A	*	G01-3636-08	PINCH ARM SPRING		
347	2A	*	G01-3637-08	AZIMUTH SPRING		
348	2B	*	G01-3638-08	BACK TENSION SPRING		
349	2A	*	G01-3639-08	PINCH ROLLER SPRING RIGHT		
349	2A	*	G01-3640-08	PINCH ROLLER SPRING LEFT		
351	2A	*	G02-1033-08	PRESS SPRING		
352	1B	*	G02-1034-08	CLUTCH SPRING		
354	2B		G16-0790-08	MODE REFLECTOR		
355	1B,2B		G16-0791-08	REFLECTOR SEAL		
357	1A		J19-3521-08	LOADING HOLDER ASSY		
358	1C		J19-3550-08	LEAD HOLDER		
359	2A	*	J21-6072-08	E HEAD HOLDER		
360	2A	*	J21-6105-08	HEAD BASE PLATE ASSY		
361	1B		J31-0853-08	EJECT LEVER COLLAR RIGHT		
361	1A		J31-0854-08	EJECT LEVER COLLAR LEFT		
362	2B		J42-0191-08	REEL BUSH		
363	1A		J60-0022-08	ACETATE TAPE 9X20		
364	1C		J61-0095-08	WIRE CLAMPER		
365	1C		J70-0320-08	MECHANISM CONTROL PCB		
366	2A		J90-0695-08	CASSETTE GUIDE (B)		
369	2A,1C		N09-2871-08	TAPPING SCREW M2X6		
370	1A,2A		N09-2872-08	TAPPING SCREW M1.7X8		
371	1A		N09-2877-08	TAP TITE SCREW M2X4		
372	2A		N09-2951-08	AZIMUTH SCREW		
373	2A		N09-2962-08	BIND TAPTITE S M2.6X6		
374	2A,1B		N09-2963-08	TAP TITE SCREW M2X6		

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7 : KX-7050
S : KX7050S

⚠ indicates safety critical components.

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Teile ohne Parts No. werden nicht geliefert.

NO.14

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
375	1A		N09-2966-08	TAP TITE SCREW M2X9		
376	2A		N09-2990-08	HEAD SCREW		
377	2A	*	N09-3037-08	AZIMUTH SCREW		
378	2A	*	N09-3038-08	CHILT SCREW		
379	2A	*	N09-3041-08	PAN HEAD SCREW M1.7X3.5		
380	1C	*	N09-3042-08	BIND TAPPING SCREW		
383	1C		N19-1031-08	FLAT WASHER /1.6X3.5X0.5		
384	1A,2A		N19-1242-08	FLAT WASHER /2.1X5.0X0.5		
385	2C		N19-1321-08	FLAT WASHER /2.6X6.0X0.25		
386	1B,2B		N19-1322-08	FLAT WASHER /2.1X4.0X0.25		
387	2C		N19-1326-08	FLAT WASHER /2.3X5.0X0.25		
388	2A		N19-1341-08	FLAT WASHER /2.1X5.0X0.5		
389	2A		N19-1342-08	FLAT WASHER /2.4X5.0X0.5		
390	1B		N19-1344-08	FLAT WASHER /1.5X5.0X0.13		
391	1B	*	N19-1357-08	FLAT WASHER /6X10X0.5		
392	2B	*	N19-1358-08	FLAT WASHER /1.6X3.5X0.25		
393	1A		N29-0206-04	E RING /2.0		
394	2A		N30-2003-46	PAN HEAD MACHIN SCREW		
395	1B,1C		N30-2604-46	PAN HEAD SCREW M2.6X4		
397	1A,2A		S74-0011-08	SWITCH OPEN/CLOSE		
398	1B,1C		S74-0016-08	LEAF SWITCH HALF,REC,MET,Cr02		
BA	1C		D16-0341-08	ASSYST BELT		
BL	1A		D16-0340-08	LOADING BELT		
BM	2C	*	D16-0356-08	MAIN BELT		
PF	2A	*	D14-0359-08	PINCH ROLLER ASSY RIGHT		
PR	2A	*	D14-0360-08	PINCH ROLLER ASSY LEFT		
AM	1C		T42-0630-08	ASSYST MOTOR ASSY		
MM	1C	*	T42-0652-08	MAIN MOTOR		7
MM	1C	*	T42-0653-08	MAIN MOTOR		S
RM	1C	*	T42-0655-08	REEL MOTOR		
EH	2A		T32-0325-05	ERASE HEAD		
RPH	2A		T34-0340-05	RECORD/PLAYBACK HEAD		7
RPH	2A		T34-0343-05	RECORD/PLAYBACK HEAD		S
-			RD14BB2C102J	RD 1.0K J 1/6W		
PHA	1C		T95-0125-08	PHOTO INTERRUPTER (SG107LF)		
PHB	1C		T95-0125-08	PHOTO INTERRUPTER (SG107LF)		
PHS	1C		T95-0125-08	PHOTO INTERRUPTER (SG107LF)		
PHT	1C		T95-0125-08	PHOTO INTERRUPTER (SG107LF)		

L:Scandinavia K:USA P:Canada
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7 : KX-7050
S : KX7050S

⚠ indicates safety critical components.

PARTS LIST

KX-7050/S

KX-7050/S

SPECIFICATIONS

KX-7050

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. 90 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	76 dB (Metal tape)
Dolby B NR ON	67 dB (Metal tape)
Dolby NR OFF	59 dB (Metal tape)
Harmonic Distortion	Less than 1.6% (at 315 Hz, 3rd H.D. 250 nWb/m Metal Tape)
Wow and Flutter	0.055% (W.R.M.S.) ±0.16% (DIN)
Input sensitivity/Impedance:	
LINE IN	100 mV/47 kΩ
Output Level/Impedance:	
LINE OUT	775 mV/1 kΩ
Headphones	2.3 mW/32 Ω
[GENERAL]	
Power Consumption	36 W
Dimensions	W: 440 mm (17-5/16″)
	H: 127 mm (5″)
	D: 326 mm (12-13/16″)
Weight (Net)	5.4 kg (11.9 lb)

KX-7050S

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. 90 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 22,000 Hz, ±3 dB
Signal-to Noise Ratio:	
Dolby S NR ON	81 dB (Metal tape)
Dolby C NR ON	78 dB (Metal tape)
Dolby B NR ON	69 dB (Metal tape)
Dolby NR OFF	60 dB (Metal tape)
Harmonic Distortion	Less than 1.1% (at 315 Hz, 3rd H.D. 250 nWb/m Metal Tape)
Wow and Flutter	0.055% (W.R.M.S.) ±0.16% (DIN)
Input sensitivity/Impedance:	
LINE IN	100 mV/47 kΩ
Output Level/Impedance:	
LINE OUT	775 mV/1 kΩ
Headphones	2.3 mW/32 Ω
[GENERAL]	
Power Consumption	36 W
Dimensions	W: 440 mm (17-5/16″)
	H: 127 mm (5″)
	D: 326 mm (12-13/16″)
Weight (Net)	5.8 kg (12.8 lb)

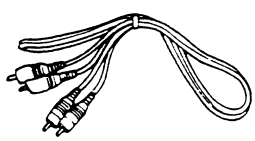
Kenwood follows a policy of continuous advancements in development
For this reason specifications may be changed without notice

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) 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.

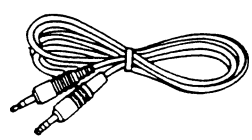
Accessories

Audio cord 2



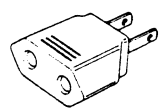
(E30-0505-05)

System control cord 1



(E30-2733-05)

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



(E30-0115-05)

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