

ONKYO SERVICE MANUAL

CASSETTE TAPE DECK COMPACT DISC PLAYER MODEL KCY-707

UD	120V AC, 60Hz
UM	220/230-240V AC, 50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

CD Player Section

CD changer type:	10 disc bank system
Signal readout system:	Optical non-contact
Reading rotation:	About 500-200 r.p.m. (constant linear velocity)
Linear velocity:	1.2-1.4 m/s
Error correction system:	Cross Interleave Reed Solomon code
D/A converter:	1 Bit D/A converter
Sampling frequency:	176.4 KHz (four-times oversampling)
Number of channels:	2 (stereo)

Cassette Deck Section

Deck mechanism type;	Double auto reverse
Track format:	4-track, 2-channels
Erasing system:	AC erase
Tape speed:	4.8 cm/sec 9.6 cm/sec (high-speed dubbing)
Wow and Flutter:	0.12 % (WRMS)
Motors:	DC servo motor x 2
Heads:	REC/PB: 1 PB: 1 ERASE: 1

General

Power supply rating:	U.S.A. model: AC 120V, 60Hz Asian model: AC 220/230-240V, 50/60Hz
Dimensions (W x H x D):	270 x 185 x 322mm 10-5/8" x 7-5/16" x 12-11/16"

Specifications and external appearance are subject to change without notice because of product improvements.



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CAUTION ON REPLACEMENT OF OPTIONAL PICKUP

The laser diode in the optical pickup block is so sensitive to static electricity, surge current and etc, that the components are liable to be broken down or its reliability remarkably deteriorated.

During repair, carefully take the following precautions. (The following precautions are included in the service parts.)

PRECAUTIONS

1. Ground for the work-desk.

Place a conductive sheet such as a sheet of copper (with impedance lower than $10M\Omega$) on the work-desk and place the set on the conductive sheet so that the chassis.

2. Grounding for the test equipment and tools.

Test equipments and toolings should be grounded in order that their ground level is the same the ground of the power source.

3. Grounding for the human body.

Be sure to put on a wrist-strap for grounding whose other end is grounded.

Be particularly careful when the workers wear synthetic fiber clothes, or air is dry.

4. Select a soldering iron that permits no leakage and have the tip of the iron well-grounded.

5. Do not check the laser diode terminals with the probe of a circuit tester or oscilloscope.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

Laser Diode Properties

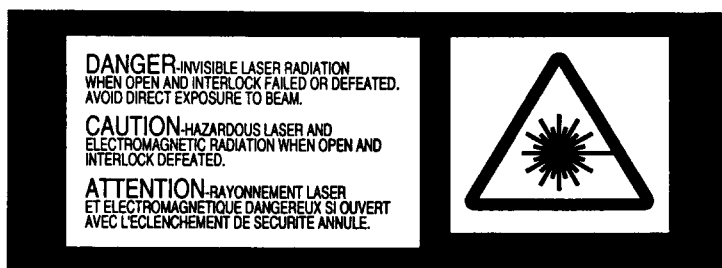
- Material: GaAs/GaAlAs
- Wavelength: 780nm
- Emission Duration: continuous
- Laser output: max. 0.5mW*

*This output is the value measured at a distance about 1.8mm from the objective lens surface on the Optical Pick-up Block.

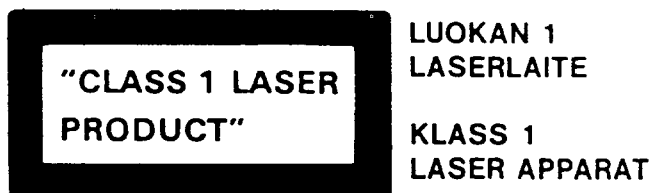
LASER WARNING LABELS

The label shown below are affixed.

1. Warning label



2. Class 1 label



ADVARSEL

Denna mækning er anbragt på apparatets højre side og indikerer, at apparatet arbejder med laserstråler af klasse 1, hvilket betyder, at der anvendes laserstråler af svageste klasse, og at man ikke på apparatets yderside kan blive udsat for utilladelig kraftig stråling.

APPARATET BØ/R KUN ÅBNES AF FAGFOLK MED SERLIGT KENDSKAB TIL APPARATER MED LASERSTRÅLERI

Indvendigt i apparatet er anbragt den her gengivne advarselmærkning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsætte sig for laserstråling.

VAROITUS! LAITTEEN KAYTTAMINEN MUULLA KUIN TASSA KAYTTOOHJEESSA MAINTULLA TAVALLA SAATTA ALTISTAA KAYTTAJAN TURVALLISUUSLUOKAN 1 YLITTAVALLE NAKYMATTOVALLE LASERSATEILYLLE

ADJUSTMENT PROCEDURES FOR CASSETTE TAPE DECK

PRECAUTION

- Before adjustment, clean the following parts with an alcohol moistend swab.
 - *record/playback head
 - *erase head
 - *pinch roller
 - *capstan
- Do not use magnetized screwdriver for adjustment.
- Demagnetized record/plaiback head with a lead demagnetizer.

TEST EQUIPMENT / TOOL REQUIRED

Audio oscillator
 Digiyal frequency counter
 Oscilloscope
 Attenuator
 AC voltmeter
 Non-magnetic screwdriver
 Test tapes
 TCC-153 : 10kHz, -10dB
 MTT-111N : 3kHz, -10dB
 MTT-150 : Dolby level calibration
 400Hz, tone 200nWb/m

Item	Connection of instrument	Line input	Test tape	Mode	Output indicator	Adjustment point	Adjust	Remarks
1 Tape speed	Frequency counter to TP1,2 output terminal		MTT-111N	PB	Frequency counter	Nomal Speed VR809,811	3,000 to 3030Hz	
						High Speed VR810,812	6,000 to 6060Hz	
2 Head azimuth	AC voltmeter and oscilloscope to TP1,2 output terminal		TCC-153	PB	AC voltmeter	Head azimuth screw	Maximum level & same phase at channels L and R	Fig.1
3 Plaback level	AC voltmeter to terminals TP1 (L) TP2 (R)		MTT-150	PB	AC voltmeter	A DECK VR803 (L ch) VR804 (R ch) B DECK VR806 (L ch) VR805 (R ch)	548mV (-3dBm)	
4 OSC Block	Frequency counter to erase head lead loose coupling		METAL TAPE	REC	Frequency counter	L803	85KHz	
5 Bias current	AC voltmeter to TP1,2 output terminal	1kHz & 12kHz	NORMAL TAPE	REC/PB	AC voltmeter	VR802 (L ch) VR801 (R ch)	Same level at REC/PB	Fig.2
6 Recording level	Fig.2	1kHz	NORMAL TAPE	REC	AC voltmeter	Attenuator or AF OSC output	245mV (-10dBm)	TP3 (L ch) TP4 (R ch)
				REC/PB	AC voltmeter	VR807 (L ch) VR808 (R ch)	Same level at REC/PB	TP1 (L ch) TP2 (R ch)

Blank tapes

NORMAL ··· UD-1 C-90
 HIGH ····· XL-II C-90
 METAL ··· XS C-90

PLAY torque ····· 30~70g/cm
 FF.REW torque ··· 80~170g/cm
 Back tension ····· 2~6g/cm

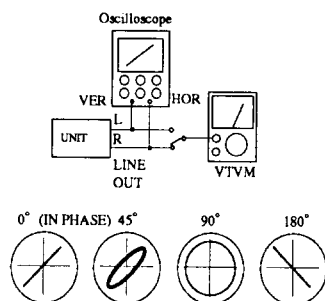


Fig. 1 Confirming phase relationship

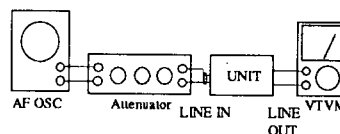


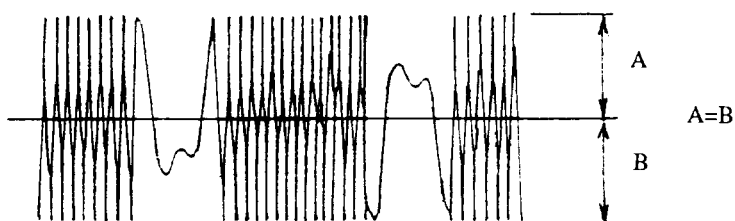
Fig. 2

ADJUSTMENT PROCEDURES FOR COMPACT DISC PLAYER

E-F BALANCE ADJUSTMENT

PROCEDURE:

1. Connect oscilloscope to the test points TE and Vref.
2. Press and hold down the SUPER DUBBING button, then press the POWER button.
3. Press FUNCTION CD button for 4 seconds or more. (CD section is TEST MODE.)
4. Put the disc (YEDS-18) in and press PLAY button.
5. Press the MEMORY button. (Tracking servo is OFF.)
6. Adjust VR701 so that the traverse waveform becomes symmetrical above and below.
7. Press the MEMORY button. (Tracking servo is ON.)
8. Press the STOP button.
9. Turn POWER switch off.



VOLT/DIV: 0.5V
TIME/DIV: 1mSEC

FOCUS BIAS ADJUSTMENT

PROCEDURE:

1. Connect oscilloscope to test points RF and GND.
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press PLAY button.
4. Adjust VR702 for an optimum waveform eye pattern or so that the peak is maximum.
Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.

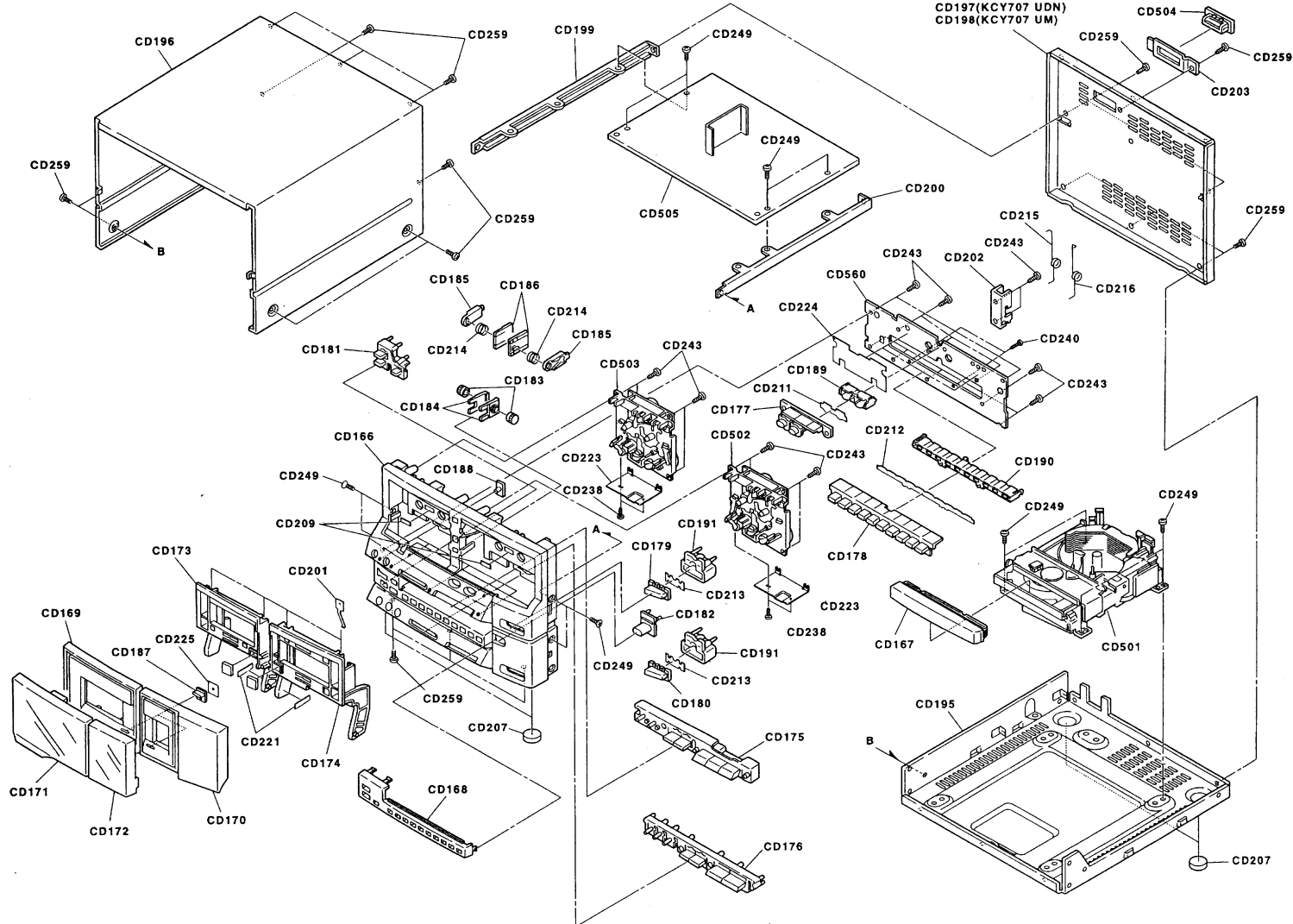


RF signal waveform

Remarks: When adjusting, set the oscilloscope AC rang and raise its vertical sensitivity so that the eye pattern can easily be seen.

MICROPROCESSOR TERMINAL DESCRIPTION

PIN NO.	SYMBOL	I/O	DESCRIPTION	PIN NO.	SYMBOL	I/O	DESCRIPTION
1	MB	O	Motor control for CD changer mechanism	41	SPXOE	O	Chip enable output to extended port IC
2	MC	O		42	NC	O	Not used
3	PRG	O	Plunger control for CD changer mechanism	43	CDCLK	O	Clock output to CD servo IC
4	CD-MUTE	O	Muting control for audio signal of CD	44	CDXLT	O	Data latch output to CD servo IC
5	CD-POWER	O	Power supply control for CD circuit	45	CDDATA	O	Data output to CD servo IC
6	AUSEL2	O	Output selector pin for CD or cassette signal	46		I	Not used
7	AUSEL1	O		47	CDXRST	O	Reset input for CD section
8	TEST	I	Test mode setting input pin	48	S-CLK	I	Transfer clock signal input from main microprocessor
9	NC	O	Not used	49	S-IN	I	Transfer data signal input from main microprocessor
10	DOLBY	O	Dolby ON/OFF control	50	S-OUT	O	Transfer data signal output to main microprocessor
11	DUBBING	O	Dubbing setting signal	51	SQCLK	O	Data read clock output to CD DSP IC
12	L-MUTE	O	Muting control for audio signal of DECK	52	SQSI	I	Data input pin from CD DSP IC
13	HI-SPEED	O	Dubbing speed dubbing control	53	NC	O	Not used
14	PB-SEL	O	Playback selector control for deck A/B	54	DISC-SEN	I	Detection input for size of CD
15	BIAS	O	Recording bias resonator control for cassette deck	55	TRV-DWN	I	Detection input for finish of down operation of traverse.
16	REC-MUTE	O	Recording muting control	56	TRV-UP	I	Detection input for finish of up operation of traverse.
17	REC/PB	O	Recording/playback control signal for deck B	57	TRY-CLS	I	Detection switch input for tray close
18	B-MTR	O	Motor speed control for deck B	58	NC	O	Not used
19	B-SOL	O	Solenoid coil control for deck B	59	NC	O	Not used
20	ERP-B	I	Prevention detection input for the side B of cassette tape	60	TRY-OPN	I	Detection switch input for tray open
21	ERP-A	I	Prevention detection input for the side A of cassette tape	61	LOAD-SEL	I	Detection sensor input for position of loading plate
22	B-PST	I	Detection input for cassette tape for deck B	62	S-RQI	O	Transfer request output to main microprocessor
23	B-END	I	Tape ending detection input for deck A	63	S-RQI	I	Transfer request input from main microprocessor
24	B-MODESW	I	Operation switch input for deck A	64	LOAD-SW	I	Position detection input for loading plate.
25	A-PST	I	Detection input for cassette tape for deck A	65	LEDS1	O	Scan signal output for operation indicator.
26	A-END	I	Tape finish detection input for deck A	66	LEDS2	O	
27	A-MODESW	I	Operation switch input for deck A	67	LEDS3	O	
28	A-SOL	O	Solenoid coil control for deck A	68	KEYIN0	I	Key matrix input
29	A-MTR	O	Motor speed control for deck A	69	KEYIN1	I	
30	RESET	I	Reset input for sub microprocessor	70	KEYIN2	I	
31	EXTAL	I	Resonator connection terminal for system clock	71	KEYIN3	I	
32	XTAL	-	Connect the 8.0MHz ceramic resonator.	72	Vdd	-	Power supply pin (+5V)
33	Vss	-	Ground pin	73	NC	-	Connect to +5v
34	NC	-	Not used	74	KEYIN4	I	Key matrix input
35	NC	I	Not used	75	KEYIN5	I	
36	AVss	-	Ground pin for A/D converter	76	KEYIN6	I	
37	AVref	-	Reference voltage pin for A/D converter	77	KEYIN7	I	
38	SPCLK	O	Clock output to extended port IC	78	CASE-POS	I	Sensor input for position of disc case
39	SPDATA	O	Data output to extended port IC	79	CASE-RST	I	Initialize position detection for disc case
40	SPLCK	O	Data latch output to extended port IC	80	MA	O	Motor control for CD changer mechanism



PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
166	10-3467010101	FRONT PANEL (A)	202	20-1129010101	TAPE HOLDER BRACKET
167	10-3468010101	CD DOOR	203	20-1168010101	CABLE BRACKET
168	10-3469010101	CD PANEL	207	30-0756010101	FOOT RUBBER
169	10-3470010101	TAPE COVER (A)	209	46-0402-1	REFLECTION PAPER
170	10-3471010101	TAPE COVER (B)	211	10-3494010101	LED FILTER (A)
171	10-3472010101	TAPE COVER WINDOW (A)	212	10-3495010101	LED FILTER (B)
172	10-3473010101	TAPE COVER WINDOW (B)	213	10-3496010101	LED FILTER (C)
173	10-3474010101	TAPE HOLDER (A)	214	20-1136010101	PUSH LOCK SPRING
174	10-3475010101	TAPE HOLDER (B)	215	20-1133010101	TAPE HOLDER SPRING (A)
175	10-3476010101	DECK BUTTON	216	20-1134010101	TAPE HOLDER SPRING (B)
176	10-3482010101	CD BUTTON	501	34-0022-1	TN-2300T-122, CD MECHANISM
177	10-3477010101	REC BUTTON	502	31-0064-1	CRH-44-04 (REC/PB), CASSETTE MECHANISM
178	10-3481010101	DISC BUTTON	503	31-0065-1	CRH-44-05 (PB), CASSETTE MECHANISM
179	10-3446010101	FUNCTION BUTTON	504	10-3510010101	FLAT CABLE BUSHING
180	10-3446020101	FUNCTION BUTTON	LW601	12P15-0003	CFG1315-0101+FLAT, LEAD CONNECTOR ASS'Y
181	10-3480010101	RANDOM BUTTON	1W701	12-0157-1	AWM2896 BNC-D-P1.25x18, FFC -
182	10-3479010101	OPEN BUTTON	LW702	CL019 06-35	<u>6P WHT</u> , LEAD CONNECTOR ASS'Y
183	10-3483010101	DUMPER GEAR	LW703	CL019 08-25	8P RED, LEAD CONNECTOR ASS'Y
184	10-3484010101	DUMPER CASE	LW704	CL019 08-25	8P WHT, LEAD CONNECTOR ASS'Y
185	10-3485010101	PUSH LOCK	LW801	CL0412 6/7-18	6P-7P WHT, LEAD CONNECTOR ASS'Y
186	10-3486010101	PUSH LOCK HOLDER	LW802	CL041 03-18	3P WHT, LEAD CONNECTOR ASS'Y
187	10-3487010101	LIGHT GUIDE (A)			
188	10-3488010101	LIGHT GUIDE (B)			
189	10-3490010101	LED BOX (A)			
190	10-3491010101	LED BOX (B)			
191	10-3492010101	LED BOX (C)			
195	20-1127010101	BOTTOM COVER (A)			
196	20-1126010101	TOP COVER (A)			
197	20-1128010101	REAR COVER (A) <U>			
198	20-1128020101	REAR COVER (A) <A>			
199	20-1115010101	PCB BRACKET (A)			
200	20-1116010101	PCB BRACKET (B)			

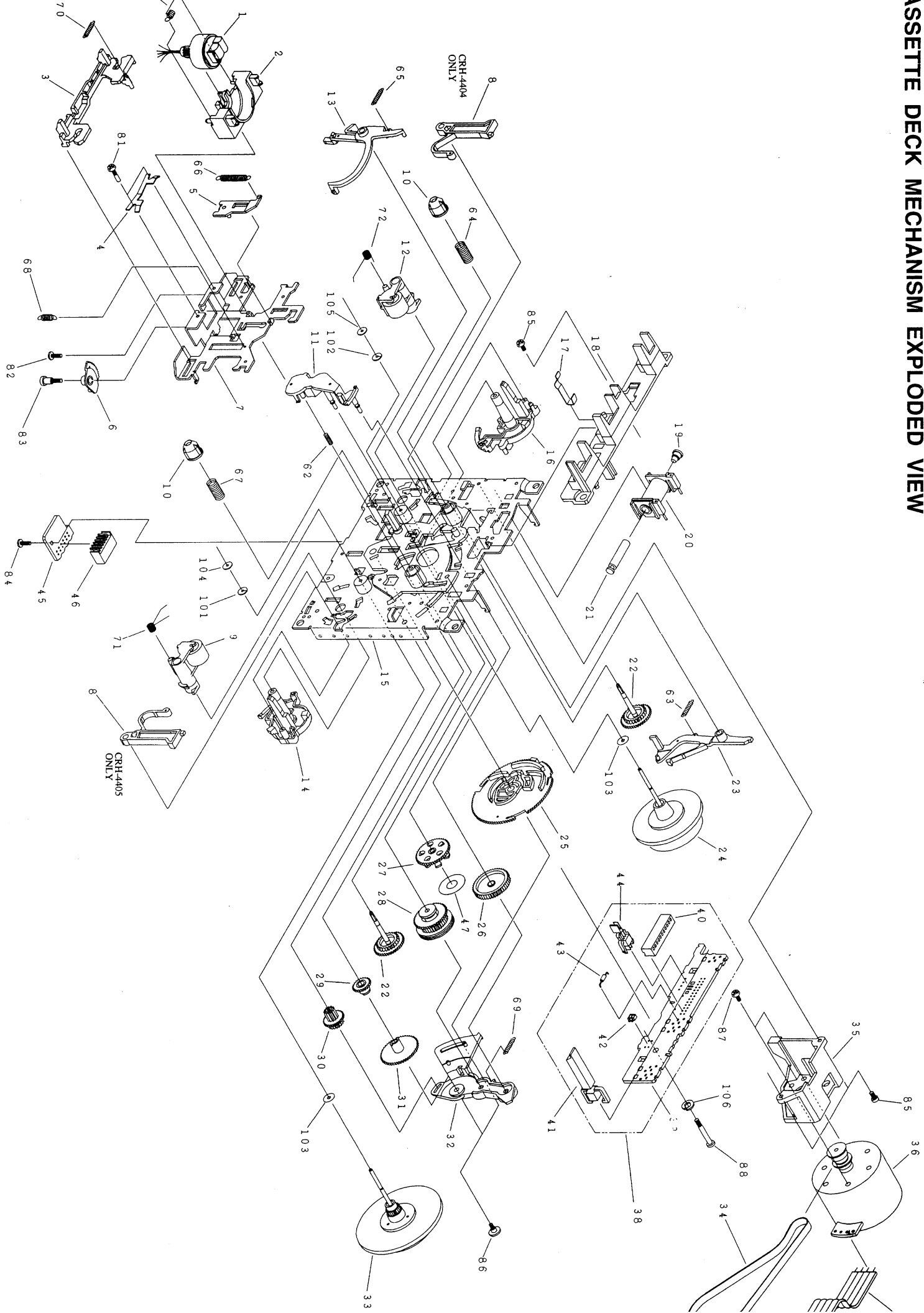
<U> : U.S.A. model only

<A> : Asian model only

ASSETTE DECK MECHANISM EXPLODED VIEW

KCY-707

KCY-707



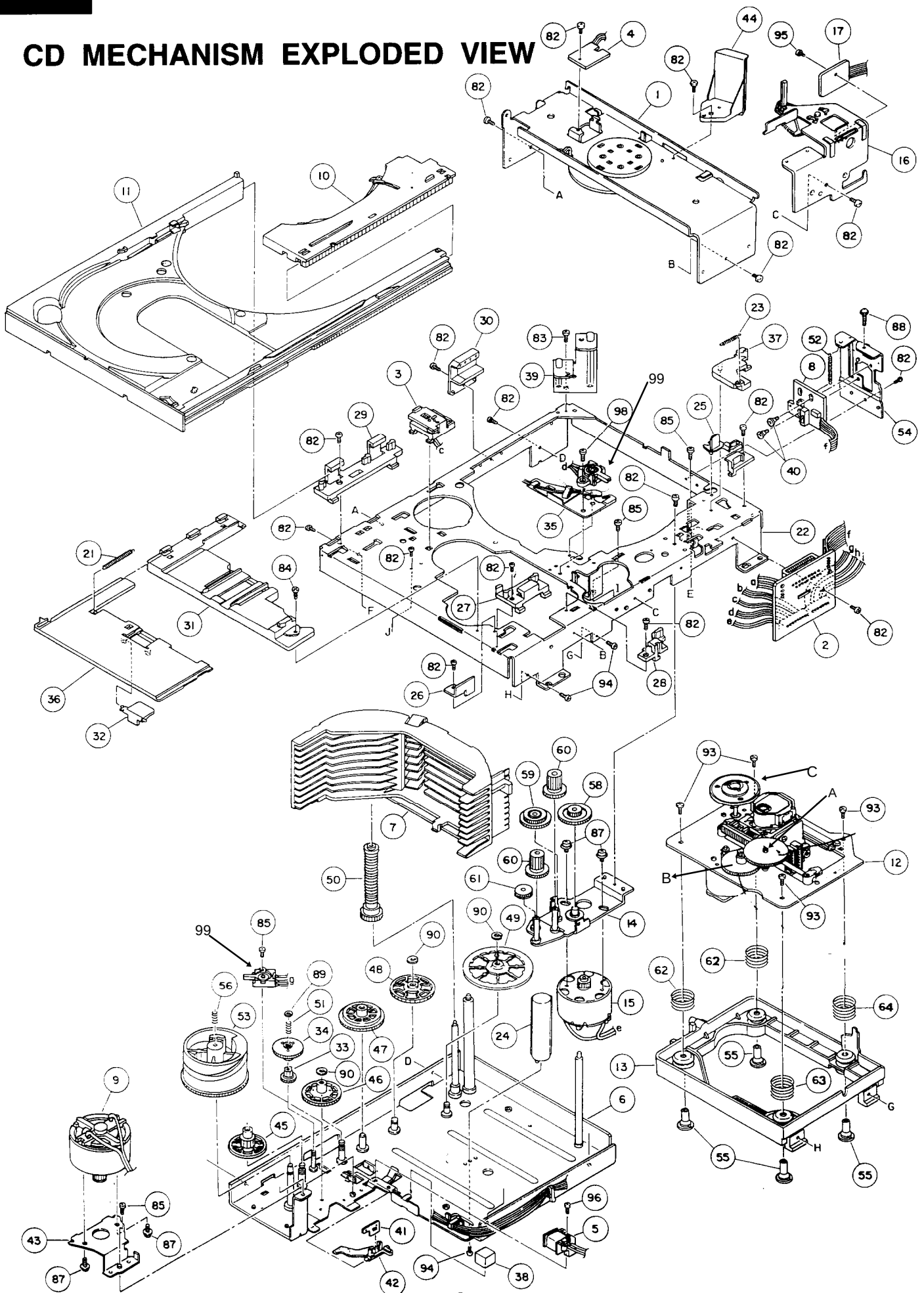
CASSETTE DECK MECHANISM PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	330934148	holder head ass'y 	47	330004140	reflector
	330934120	holder head ass'y <A>	61	10804535	spring
2	332193023	frame head	62	10814483	spring
3	332593015	lever head	63	10804480	spring
4	161604032	spring azimuth	64	10814493	spring
5	330934055	lever assist ass'y	65	10804482	spring
6	222394020	gear arm head	66	10804489	spring
7	33112303	chassis head B	67	10814492	spring
8	332394024	eject lock	68	10804478	spring
9	330934060	arm pinch R ass'y	69	10804543	spring
10	182283231	cap reel	70	10804479	spring
11	332393012	arm UD	71	10824485	spring
12	330934059	arm pinch L ass'y	72	10824486	spring
13	332393014	arm brake	81	33004056	screw
14	332113019	frame B	82	GSL20A2008	screw
15	330933056	chassis ass'y	83	33004043	screw
16	332112020	frame C	84	GSE10A2004	screw
17	331604031	spring cassette	85	GSD20A2005	screw
18	332112021	frame D	86	33004344	screw
19	033194259	K. plunger	87	GSP11A2605	screw
20	330934051	coil ass'y	88	33004368	screw
21	033004338	plunger	101	GWN13X050040S	washer
22	332224009	gear reel	102	GWN13X060040S	washer
23	3322683013	arm trigger	103	GWP18X060050	washer
24	330934050	flywheel L ass'y	104	GWN16X40050	washer
25	332212010	gear cam	105	GWN15S040050	washer
26	332224008	gear idl	106	GWS30N	washer
27	332224007	gear ref			
28	330933045	clutch ass'y			
29	332224002	gear P			
30	332224001	gear A			
31	33222403	gear fr			
32	332393011	arm fr			
33	330934048	flywheel R ass'y			
34	020844124	belt			
35	332193025	bracket MM	<A> :	DECK-A(CRH-4405) ONLY	
36	330934104	motor ass'y	 :	DECK-B(CRH-4404) ONLY	
37	160724055	wire			
38	330933100	P.C.B. ass'y 			
	330933145	P.C.B. ass'y <A>			
39	330703035	P.C.B.			
40	HBRK11R-2	housing 			
	HBRK9R-2	housing <A>			
41	LSA1135 or	switch (leaf)			
	MTS10041MVLO				
42	SG105 BC	photo sensor			
43	ERDS2TJ681	resistor			
44	MSW1722NCV	mode switch			
45	3307040615	P.C.B. head			
46	S6BEH	housing 			
	S3BEH	housing <A>			

CASSETTE DECK MECHANISM

<A> : DECK-A(CRH-4405) ONLY
 : DECK-B(CRH-4404) ONLY

CD MECHANISM EXPLODED VIEW



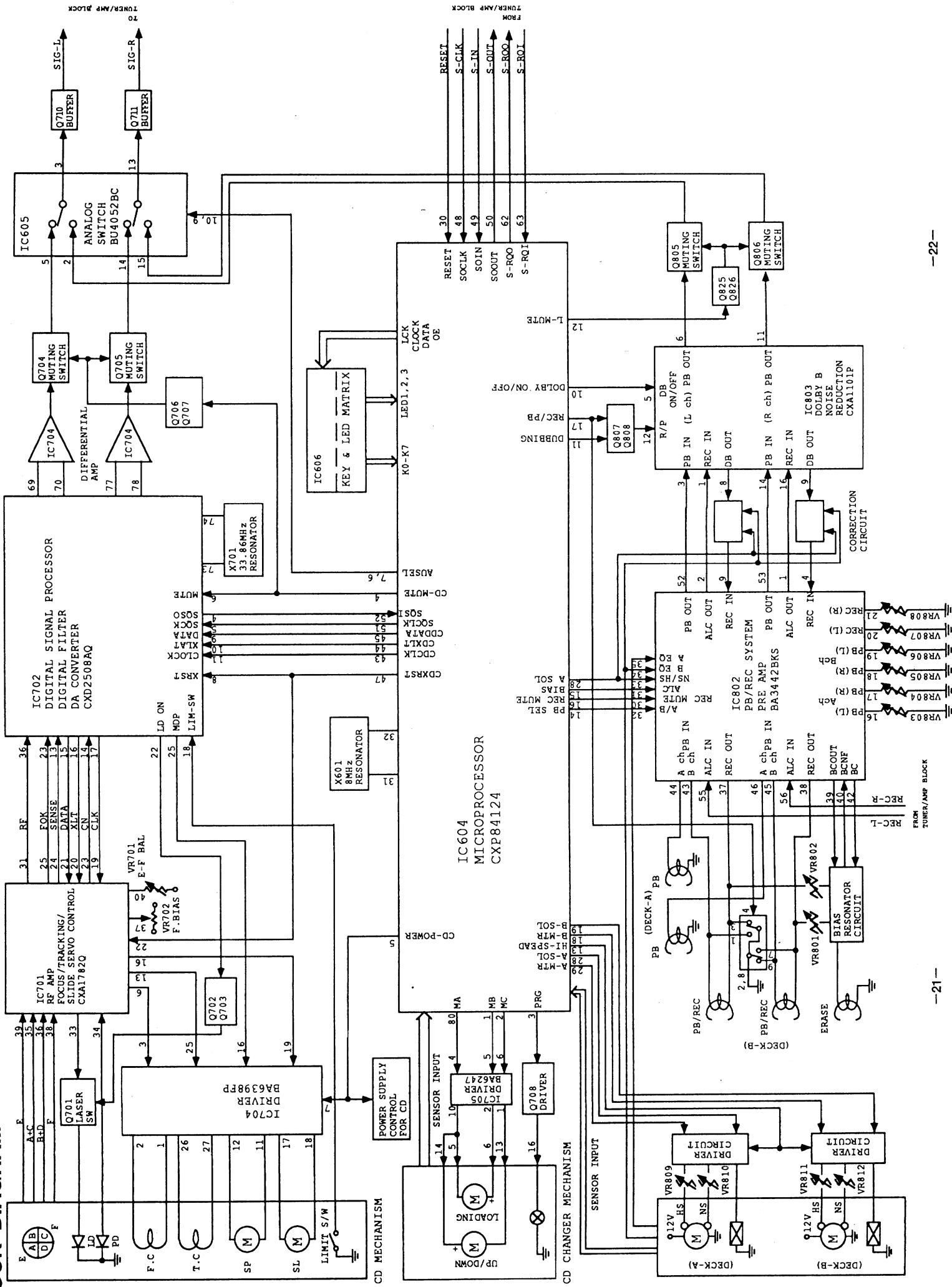
CD MECHANISM PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	300701316	clumper bracket ass'y	55	30070713	float rubber holder
2	300701306	connector PCB ass'y	56	30070283	E gear G4 spring
3	300701309	disc sensor PCB A ass'y	58	300701125	L gear B(N)
4	300701311	disc sensor PCB B ass'y	59	300701126	L gear C(N)
5	300702317	coil ass'y	60	30071105	L gear D
6	300702512	gear chassis ass'y	61	30071106	L gear E
7	300702318	disc case ass'y	62	30070766	floating spring NB
8	300702319	E sensor PCB ass'y	63	30070768	floating spring ND
9	300702302	E motor ass'y	64	30070767	floating spring NC
10	300706316	loading plate ass'y	82	9P0420041	tapping screw M2x4
11	300706317	disc base ass'y	83	9B1320041	C tapping bind screw M2x4
**12	69020301	traverse KSM-2102BAM	84	9P0420061	tapping screw M2x6
13	300707317	T.T. base holder ass'y	85	PC2020301	tapping screw SG M2x3
14	300711501	L gear bracket ass'y	87	9P03026221	cup screw M2.6x2.2
15	300711301	L motor ass'y	88	9P1720102	cup screw (+-)M2x10
16	300711306	guide plate ass'y	89	9PW0250080	PW cut 1.85x5x0.5
17	300711304	L sensor PCB ass'y	90	9PW0250110	PW cut 2.6x6x0.5
21	30070187	cover plate spring(N)	93	9B1220041	P tapping bind screw M2x4
22	30070185	chassis(N)	94	9P0720061	P tapping screw M2x6
23	30070144	lock lever spring	95	9C0320353	camera screw M2x3.5
24	30070179	disc stopper D	96	9P0420101	tapping screw M2x10
25	30070186	guide R4	98	9P0420051	tapping screw M2.6x5
26	30070149	disc base bracket	99	25065375	Switch
27	30070150	guide R1(S)	A	24506903	Wheel A
28	30070151	guide R2(S)	B	24506904	Wheel B
29	30070153	guide L1(S)	C	24502258-1	Spindle Motor
30	30070106	guide L2	12	8-848-137-11	Traverse Assembly (Alternate PN#)
31	30070155	cover plate B(S)			
32	30070156	disc stopper(S)			
33	300702111	E gear G2(P)A			
34	30070256	E gear G2(S)B			
35	30070184	switch base			
36	30070162	cover plate A(S)			
37	30070163	locker lever(S)			
38	300702116	cushion rubber(P10)			
39	30070298	worm gear bracket(P10)			
40	19001204	coller screw			
41	30070296	E control plate(P)			
42	30070292	E control lever(P)			
43	300702100	E motor bracket(P10)			
44	30070175	guide stopper(P10)			
45	30070277	E gear G3(N)			
46	300702122	gear G5(TN)			
47	30070279	gear G6(N)			
48	300702113	gear G7(P10)			
49	30070293	gear G8(P10)			
50	300702112	E gear G9(P10)			
51	30070232	E gear G2 spring			
52	300702119	E sensor spring T			
53	30070259	E gear G4(S)			
54	30070297	E sensor bracket(P10)			

PRINTED CIRCUIT BOARD PART LIST

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
MAIN CIRCUIT PC BOARD					
	IC		C605	354753329	25V3300 μ F
IC602	222780053 or 1-0185-1	NJM78L05	C618	3000079	5.5V0.22F
IC603	222780091 or 1-0138-1	NJM78M09	VR701,702,801,802	5210068	47K Ω
IC604	1-0311-1	CXP84124-136Q	VR803-806	5210064	10K Ω
IC605	22240328 or 1-0207-1	BU4052BC	VR807,808	5210066	22K Ω
IC701	1-0302-1	CXA1782BQ	VR809,811-812	5210062	4.7K Ω
IC702	1-0303-1	CXD2508AQ		SOCKET	
IC703	222652 or 1-0281-1	M5218L	J701	12-0151-1	CFF1118-0101 or HLEM18S-1
IC704	1-0304-1	BA6398FP	J702	12S6-J0001	B6B-PH
IC705	1-0306-1	BA6247	J703,704	12S8-J0001	B8B-PH
IC801	22240147 or 1-0309-1	μ PC1330HA	J801	12S7-J0001	B7B-EH
IC802	1-0307-1	BA3442BKS	J802	12S3-J0001	B3B-EH
IC803	22240086 or 1-0308-1	CXA1101P	J805	12S6-C0002	52147-0610
	TRANSISTOR		J806	12S3-C0002	52147-0310
Q601,603,607	2202705 or 2-2SD2394E-7	2SD2394E	J807	12S8-C0002	52147-0810
Q602,604,606,608, Q704,705,709,804, Q805,806,807,815, Q820,823,824	2213284 or 2-2SC1740S-S7	2SC1740SR	LW803	FLAT CABLE	
Q605	2213355 or 2-2SA933S-S7	2SA933AS	LW804	12-0177-1	UL2651#26 $\times$ 9
Q609,610,611	2-2SB1333-7	2SB1333	LW808	12-0178-1	UL2651#26 $\times$ 11
Q613-617,703,707, Q801,802,808,809, Q812,817	2213160 or 2-DTC124ES-7	DTC124ES	E600	12-0171-1	UL2651#26 $\times$ 6
Q701,810	2-2SA1585SQ-7	2SA1585SQ		OTHERS	
Q702,706,803,825	2212600 or 2-DTA124ES-7	DTA124ES	CONTROL CIRCUIT PC BOARD		
Q708,814,819	2-2SB1374Q-7	2SB1374Q	IC606	IC	
Q811	2-2SD2172-7	2SD2172		1-0319-1	BU2092F
Q813,816,818,821	2-2SC1741S-7	2SC1741S	D614,615,616,617	DIODE	
	FET			223163 or 3-1SS133-1	1SS133
Q710,711	2212195	2SK241GR		LED	
	ZENER DIODE		LED601,602	28-0063-1	SLR332MG
D605	3-Z-MTZJ10B-8	MTZJ10B	LED603,604,607,608, LED611-613,615,617, LED619,621,623,625, LED627,629,631,633, LED634	28-0057-1	SLV-312VC
D606	3-Z-MTZJ5.6B8	MTZJ5.6B	LED605,606	28-0062-1	SLR332VR
D607	3-Z-MTZJ13B-8	MTZJ13B	LED609,610,614,616, LED618,620,622,624, LED626,628,630,632, LED635,636	28-0058-1	SLV-312MC
D609,610,611	3-Z-MTZJ8.2B8	MTZJ8.2B		TACT SWITCH	
	DIODE		SW601-611,614-632	8-0263-2	SKHHAM
D608	3-RB100A	RB100A	SW612,613	8-0269-1	SKHHIAR
D612	223839	1N4002		FLAT CABLE	
	CERAMIC RESONATOR		LW805	12-0174-1	UL2651#26 $\times$ 6
X601	29-0069-1	CST8MTW	LW806	12-0163-1	UL2651#26 $\times$ 3
X701	29-0085-1	CSA33.86MXZ040	LW807	12-0176-1	UL2651#26 $\times$ 8
	COIL				
L801,802	6-0310-1	10RB type,39mH			
L803	CHNS-6010	10PA type			
	MICRO INDUCTOR				
L601,701	26-0012-2	LAL03,10 μ H			
L602	26-0056-1	LAL03,100 μ H			

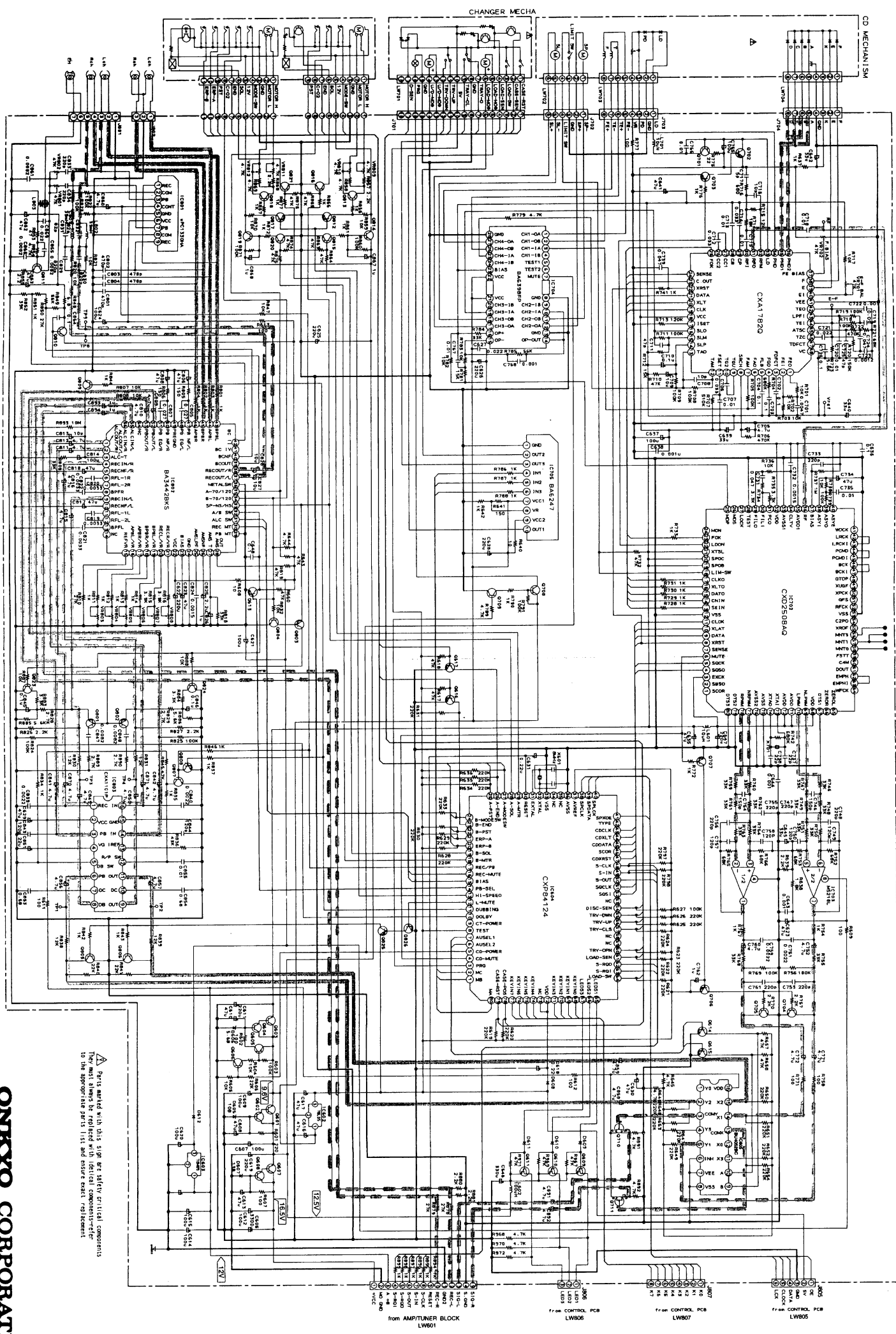
LOCK DIAGRAM



SCHEMATIC DIAGRAM

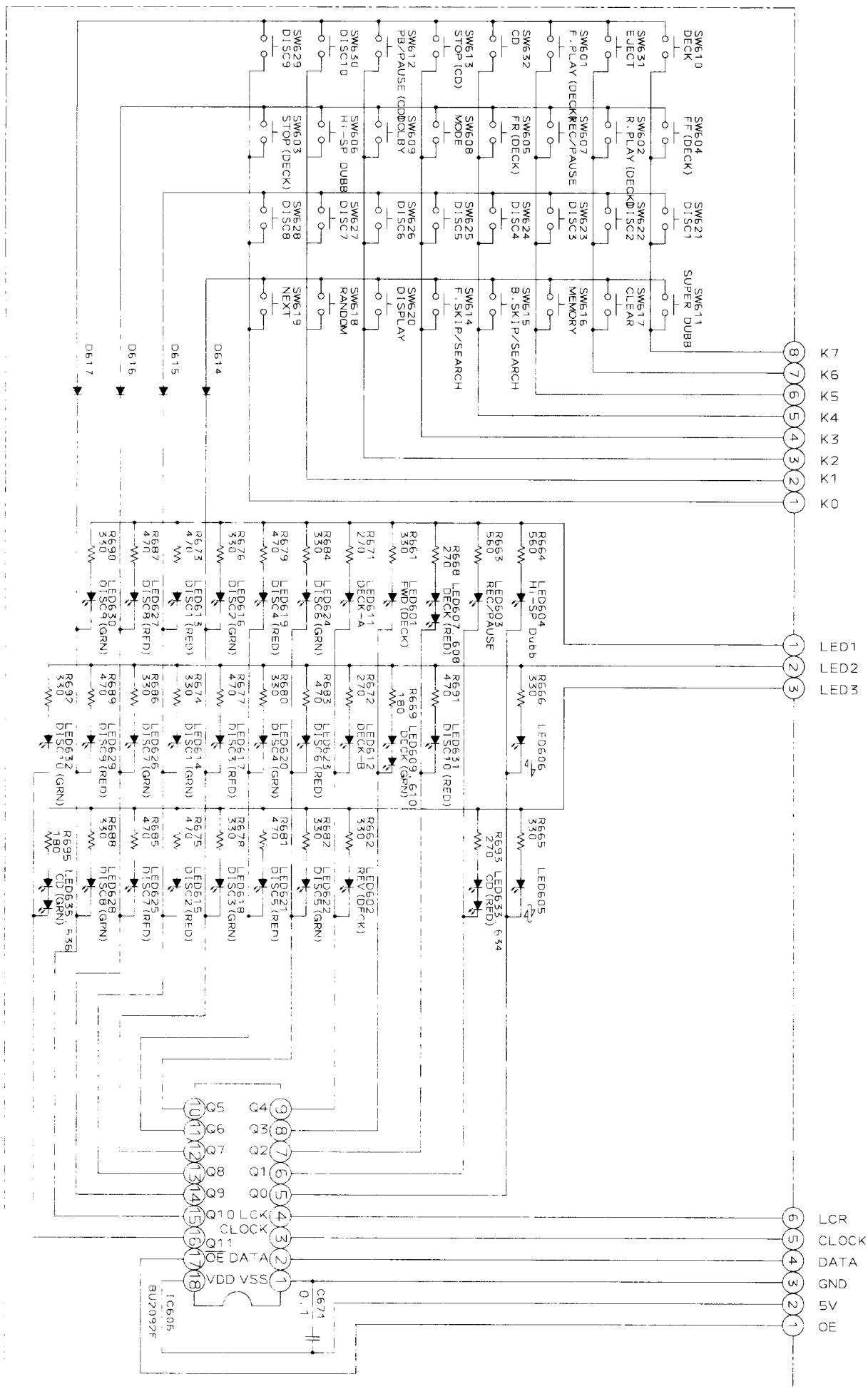
A B C D E F G

KCY-707 KCY-707



△ Parts marked with this sign are safety critical components
To the appropriate parts list and follow the drawing.

from AMP/TUNER BLOCK LW801
from CONTROL PCB LW806
from CONTROL PCB LW807
from CONTROL PCB LW808



02/10/1999

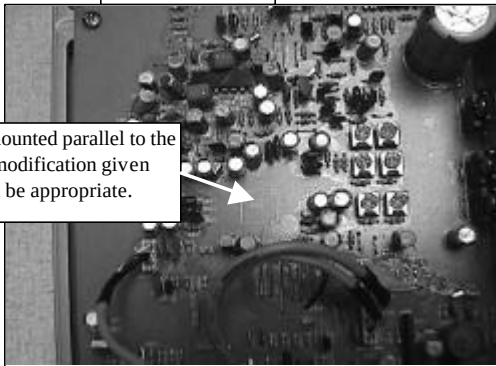
Page 01

Model: KCY707 for PTS series

Classification: Service tip:

Where in some units IC802 is mounted parallel to the main chassis, the modification as shown should be done. For all others please just loosen the wire described on page 2.

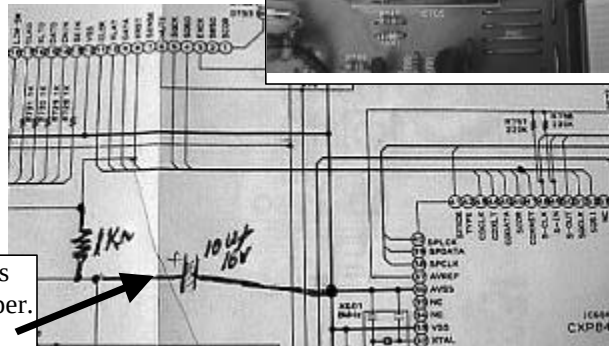
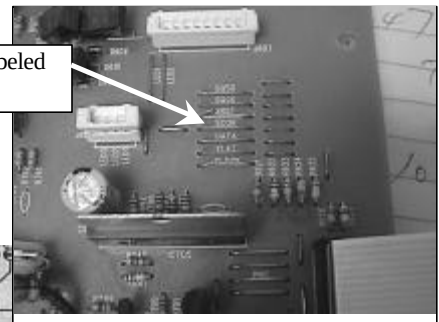
Rear of unit



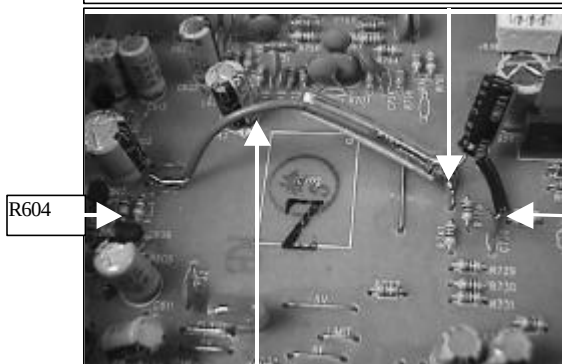
If IC802 is mounted parallel to the PCB layout modification given below would be appropriate.

Front of unit

Cut jumper wire labeled XRST



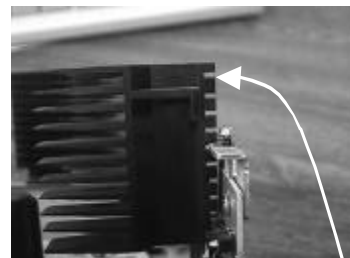
Add 1k-ohm resistor and 10uF 16V capacitor as seen. + Side of capacitor is solder at the jumper. Capacitor is 10uF 16volt.



R604

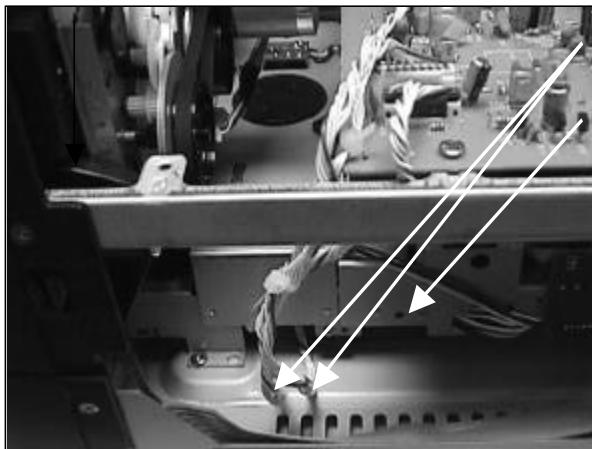
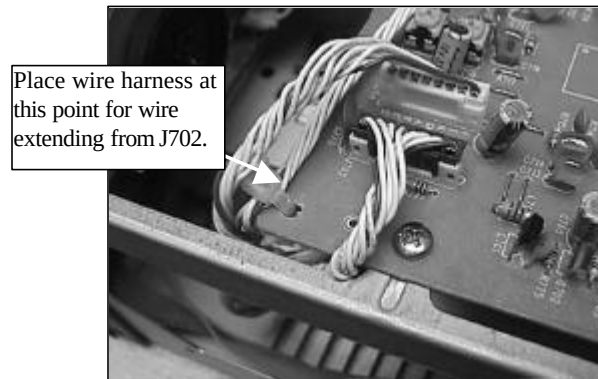
Negative side of capacitor is soldered on the rear side of C739 (ground) near R789.

The lead wire in series with 1k-ohm 1/4watt resistor is then soldered to a jumper closer to R604 as seen. Place a plastic tube or heat shrink tube over the resistor. Note jumper location!



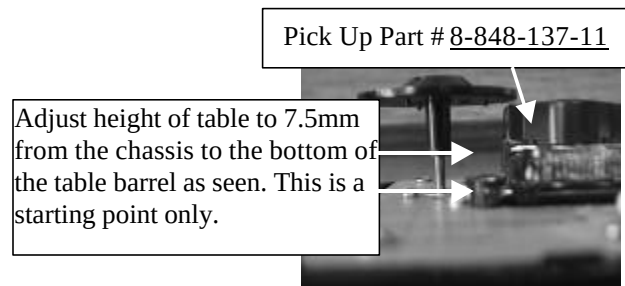
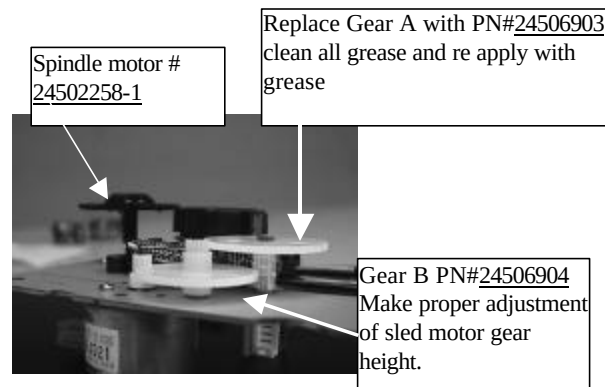
For unit having a smaller cut at this point (magazine home position sensor hole) compared to the rest sensor cutouts; please cut (shave) the top part of the plastic with shop utility knife until the hole matches the rest.

Classification: service tip:



The two wires coming from J703 and J704 are connected to the PICKUP assembly. In some units these two feed wires are tied to the CD chassis and may cause some binding to the traverse gear mechanism system causing gear damage. To alleviate this problem, remove (cut) all wire ties and retie them as illustrated in picture. Give a $\frac{3}{4}$ inch play for wires connected to J703 and J704 compared to wire connected at J702. These two wires should rest flat and close to the bottom chassis of the unit without any abstraction.

Please note: The complete CD mechanism for the PTS series is no longer available. Order individual components for parts shown below.



ONKYO.

SERVICE BULLETIN NO:98001-1
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LAST REVISED : 99/04/21

DATE : 98/08/03

MODELS : KCY-707

SUBJECT : Change of Microprocessor & Dolby IC

1. IC604(sub microprocessor)

a. CXP84124-139Q (find with service manual)

It has a program mistake. Please work with service bulletin no. 9602 if you use this IC..
Pls find the service information Ref.9602 dated 96/11/13.

b. CX84332-159Q

It is improved from 9/13/97 ship.
You can use it without above modification.

c. CX84332-164Q (SN:1-0447-1)

It is improved from 1/10/98 ship.
You can use it without above modification.

2. IC802 (Dolby IC)

a. BA3442BKS (find with service manual)

The number of PCB a'ssy is 33560 and 33560A.

b. CXA1897Q (SN:1-0374-1)👉

It is improved from 5701726913 of serial number.
The number of PCB a'ssy is 33563.