

UD-301/351

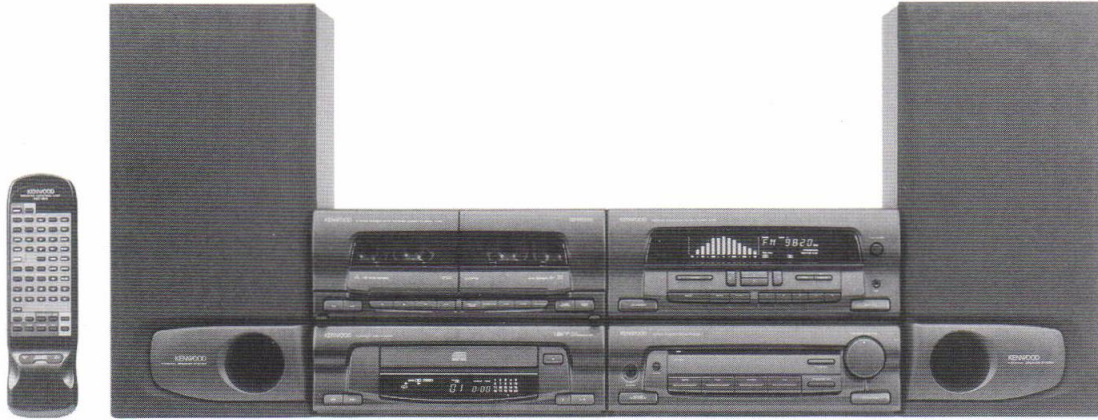
SERVICE MANUAL

(A-B3 / X-MB3 /LS-B3)
X-B3

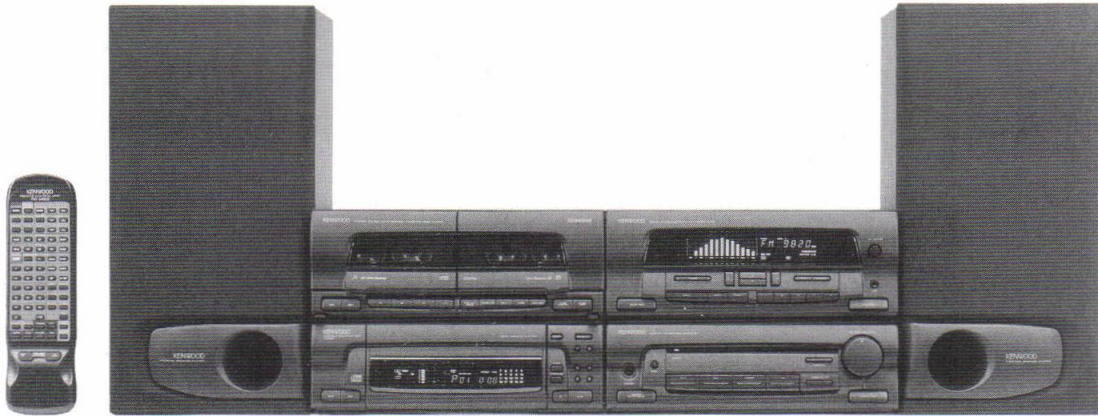
KENWOOD

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B51-4713-00(S) 4404

UD-301



UD-351



Name	RECEIVER	CD	SPEAKER	PACKING		Remocon
				Polystyrene foamed fixture	Outer carton case	
UD-301	A-B3	X-B3	LS-B3	H12-2152-04(K,T,E)	H60-0146-04(K)	RC-B3
				H12-2153-04(K,T,E)	H60-0147-04(E,T) H60-0122-04(P,M,X)	
UD-351	A-B3	X-MB3	LS-B3	H12-2154-04(K,T,E)	H60-0148-04(K)	RC-MB3
				H12-2155-04(K,T,E)	H60-0149-04(E,T) H60-0125-04(Y,M,X)	

A-B3

X-B3

X-MB3

LS-B3


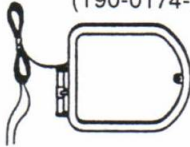



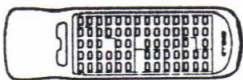
Precautions when performing repairs.

- (1) If you want to power on X-B3 without A-B3 need power supply jig (RM-90PS). Power-on procedure is written on page 20 (USE TEST MODE).
- (2) Do not look directly at the laser beam while repairing the CD Player.

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ACCESSORIES

<p>FM indoor antenna 1 (T90-0175-05)</p> 	<p>AM loop antenna 1 (T90-0174-05)</p> 	<p>Batteries (*R03* or *AAA*)..... 2</p> 
<p>Loop antenna holder 1 (J19-2815-04)</p> 	<p>AC plug adaptor 1 (E03-0115-05)</p> 	<p>Remote control unit 1 (X94-1011-31):UD-301 (X94-1011-21):UD-351 (A09-0126-03):BATTERY COVER</p> 

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(A-B3)

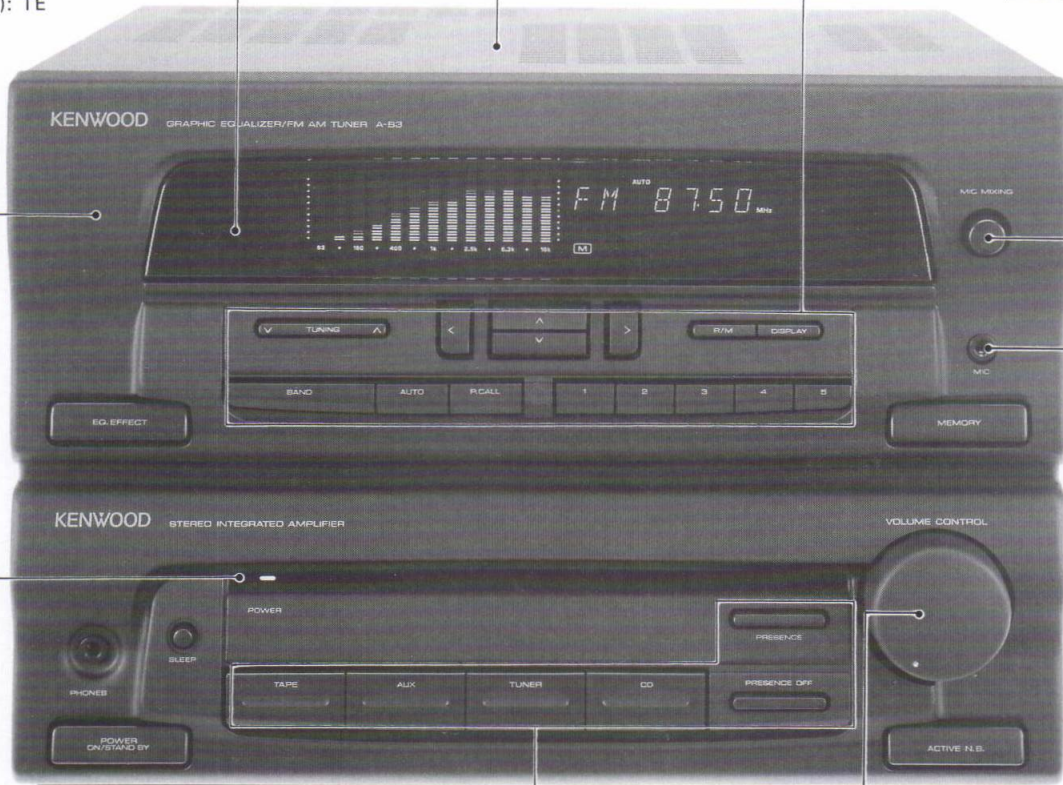
Panel assy
(A60-0388-12): KP
(A60-0389-12): YMX
(A60-0390-12): TE

Front glass
(B10-1961-03)

Metallic cabinet
(A01-3020-01)

Knob
(K29-5665-02)

Knob
(K29-3632-04)



Dressing plate
(B03-2820-03)

Knob
(K29-5666-02)

Knob
(K29-5667-04)

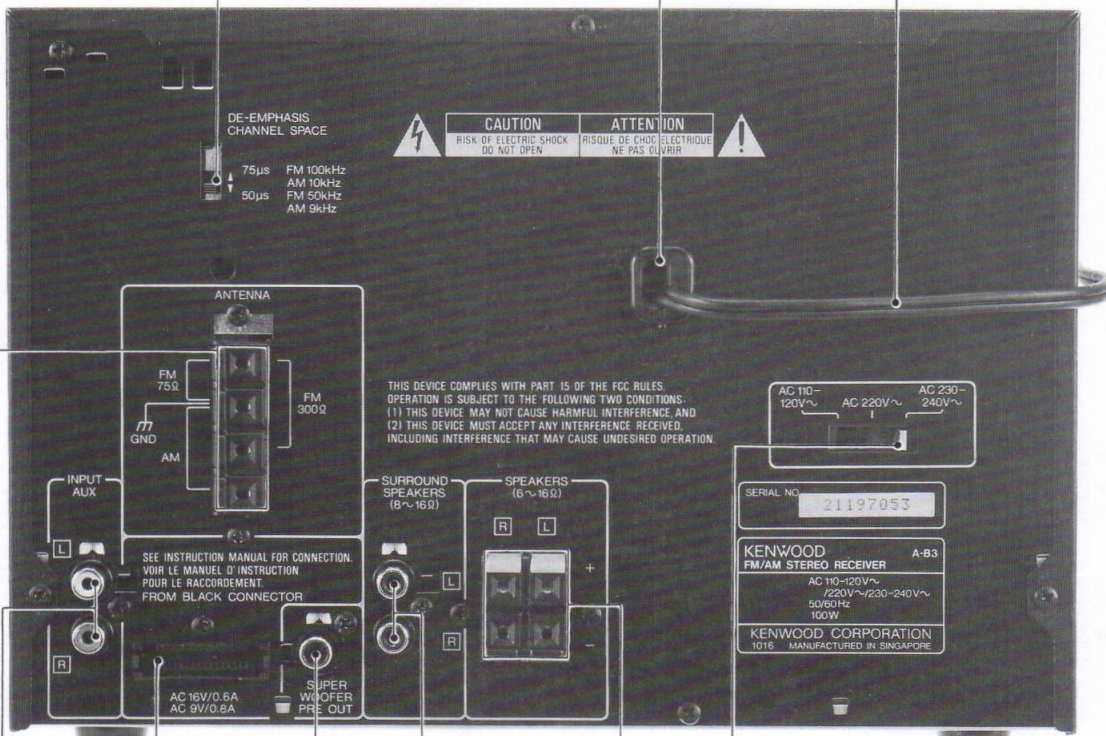
Miniature phone jack
(E11-0220-05)

Lock terminal board
(E20-0476-05): KP/YMX
(E20-0321-05): TE

Slide switch
(S31-2094-05)

Power cord bushing
(J42-0083-05)

AC power cord*
(E30-)



Phono jack
(E63-0013-05)

Rectangular receptacle
(E08-1509-05)

Phono jack
(E13-0138-05)

Phono jack
(E63-0041-05)

Lock terminal board
(E20-0475-05)

Slide switch
(S31-2322-05)

Foot
(J02-0370-05)

A-B3

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(X-B3)

Cassette holder assy
(A53-1388-13)

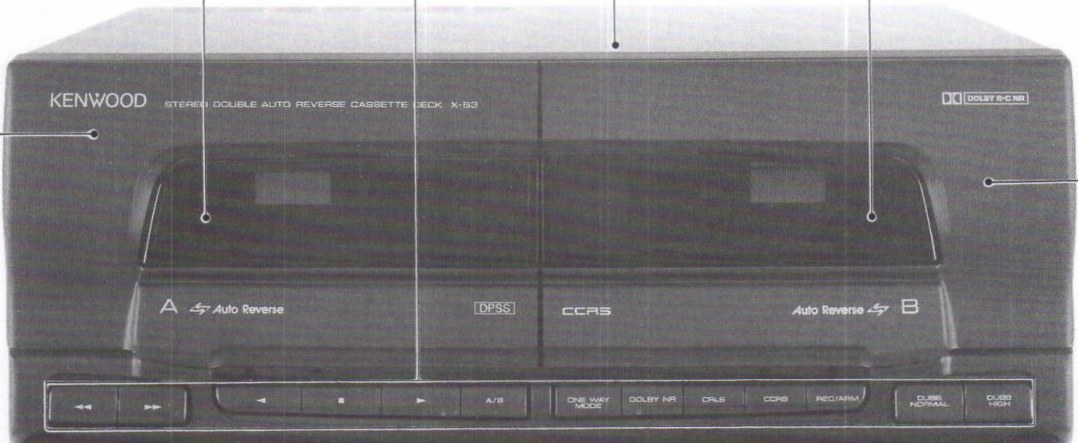
Front glass
(B10-1955-03)

Knob
(K29-5646-03)

Metallic cabinet
(A01-3006-01)

Front glass
(B10-1956-03)

Cassette holder assy
(A53-1390-03)



Knob
(K29-5647-04)

Knob
(K29-5645-03)

Front glass
(B10-1957-03)

panel
(A60-0345-11)

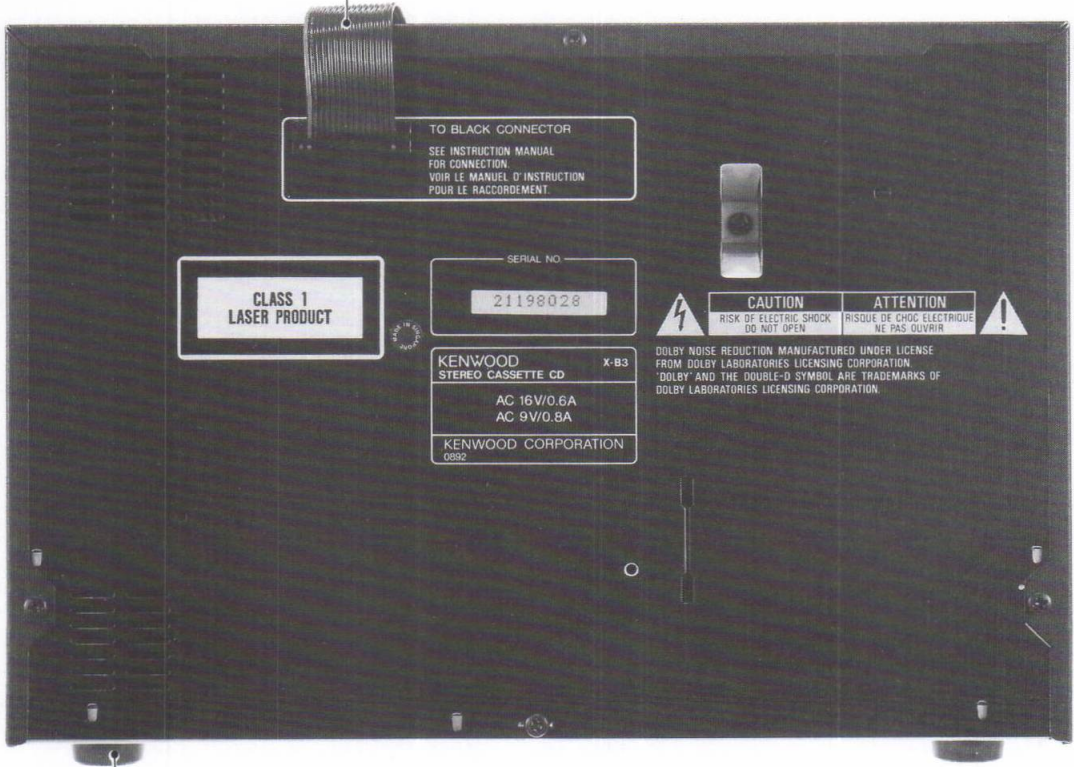
Panel
(A29-0329-03)

Knob
(K29-5645-03)

Knob
(K29-5647-04)



Cord with connector
(E30-2686-05)



Foot
(J02-0370-05)

X-B3

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(X-MB3)

Cassette holder assy
(A53-1392-13)

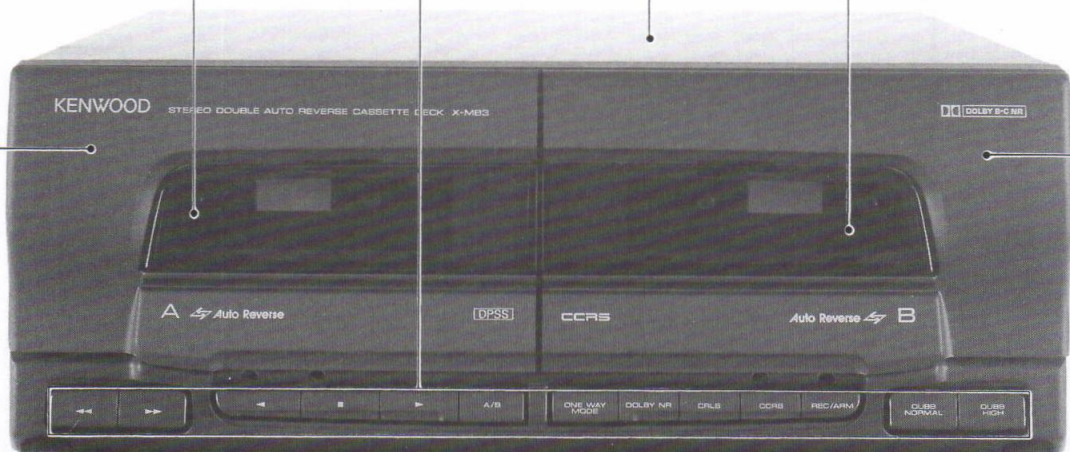
Front glass
(B10-1955-03)

Knob
(K29-5646-03)

Metallic cabinet
(A01-3008-01)

Front glass
(B10-1956-03)

Cassette holder assy
(A53-1390-13)



Knob
(K29-5647-04)

Knob
(K29-5648-03)

Front glass
(B10-1958-03)

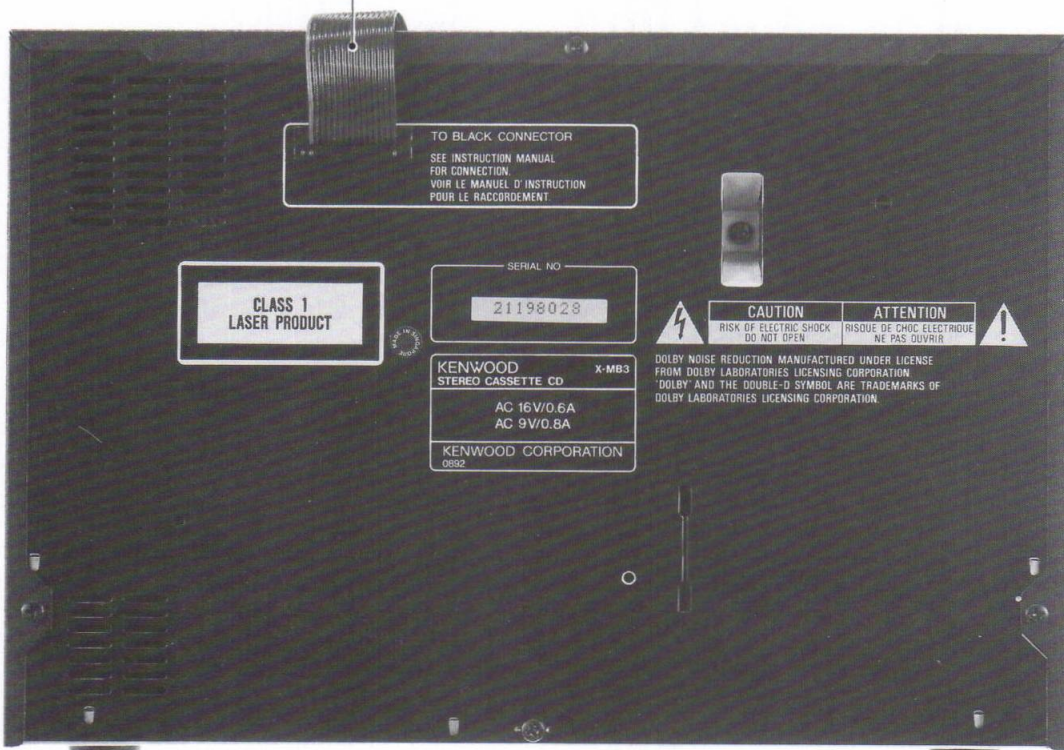
Panel
(A60-0346-01)

Panel
(A29-0330-12)

Knob
(K29-5648-03)

Knob
(K29-5647-04)

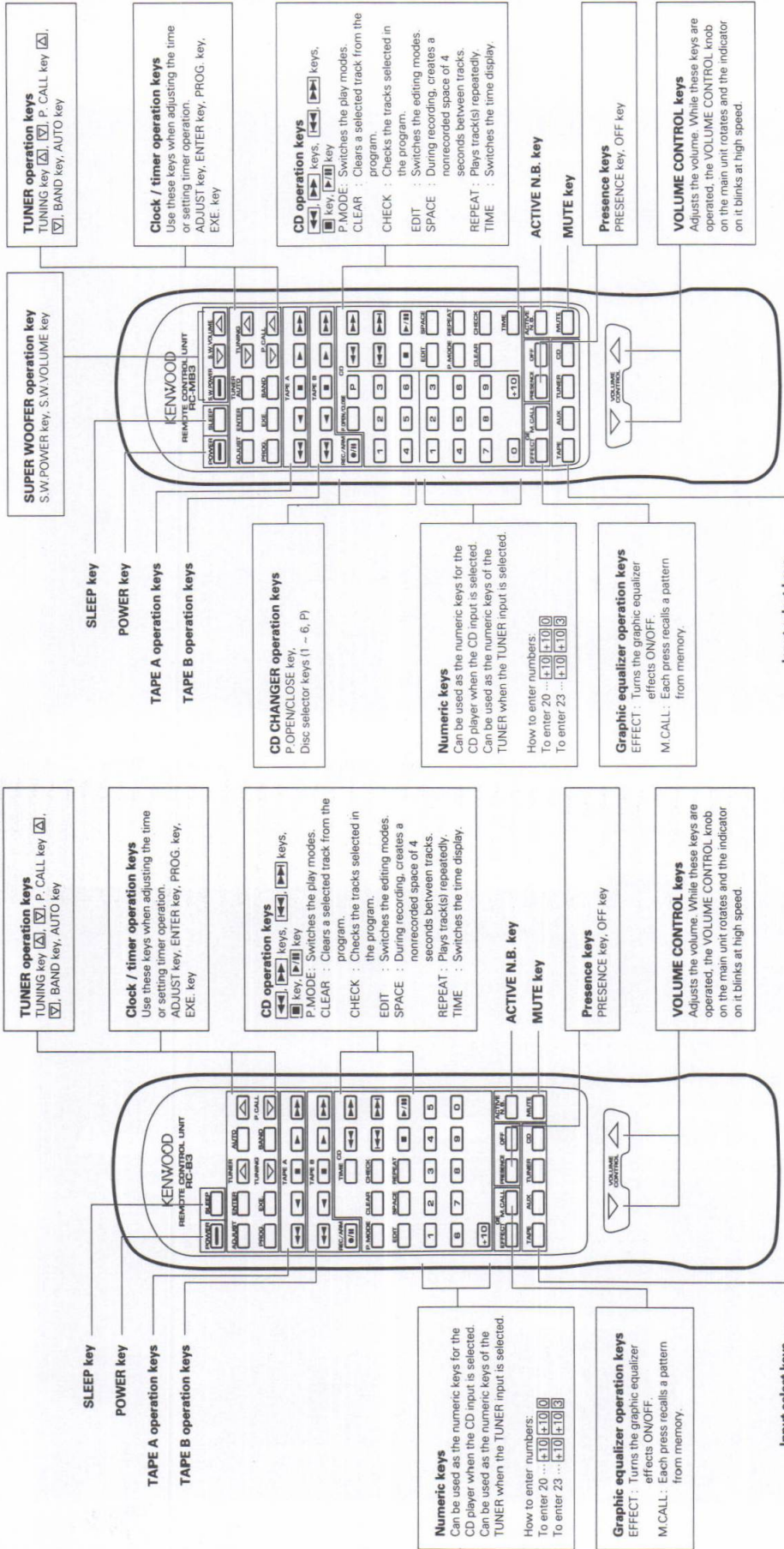
Cord with connector
(E30-2686-05)



Foot
(J02-0370-05)

X-MB3

REMOTE CONTROL OPERATION

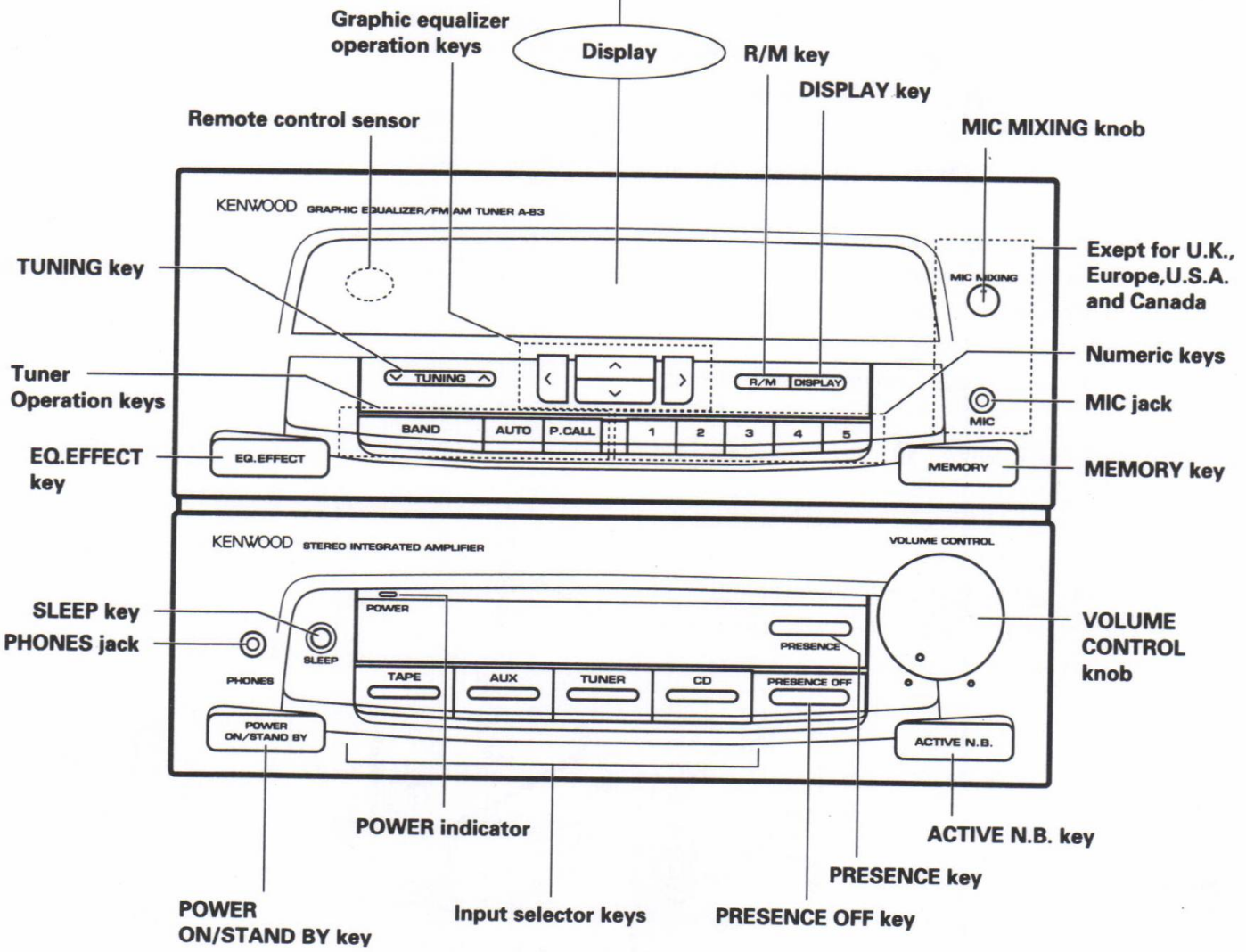
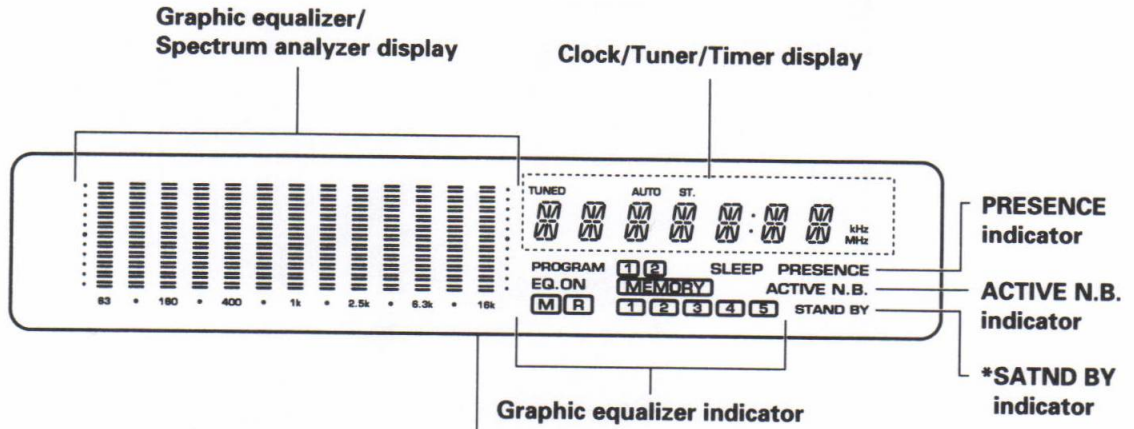


Model Name: RC - MB3
Infrared ray system

Model Name: RC - B3
Infrared ray system

CONTROLS & INDICATORS

A-B3

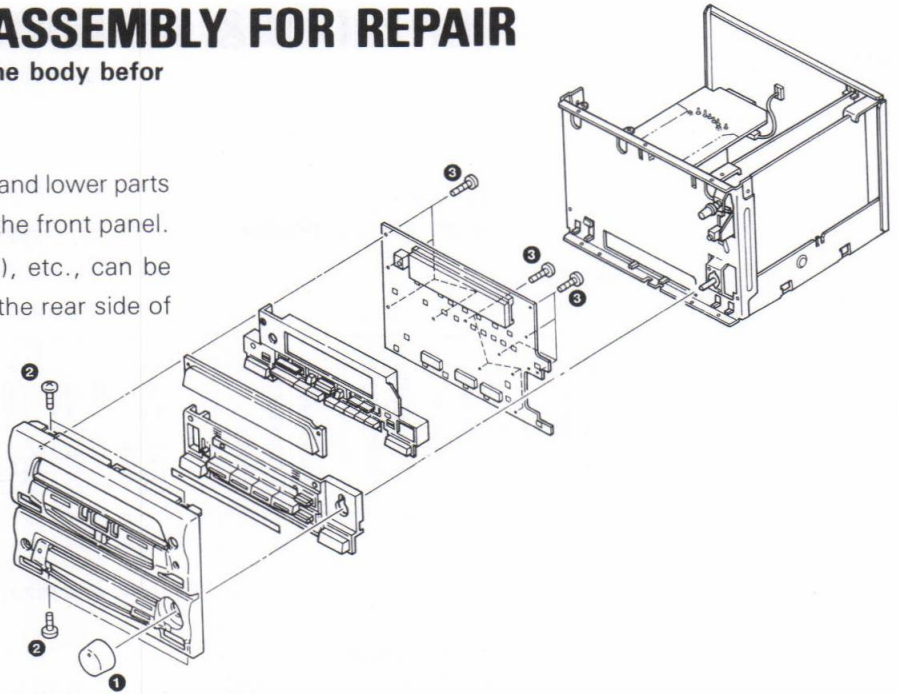


UD-301/351

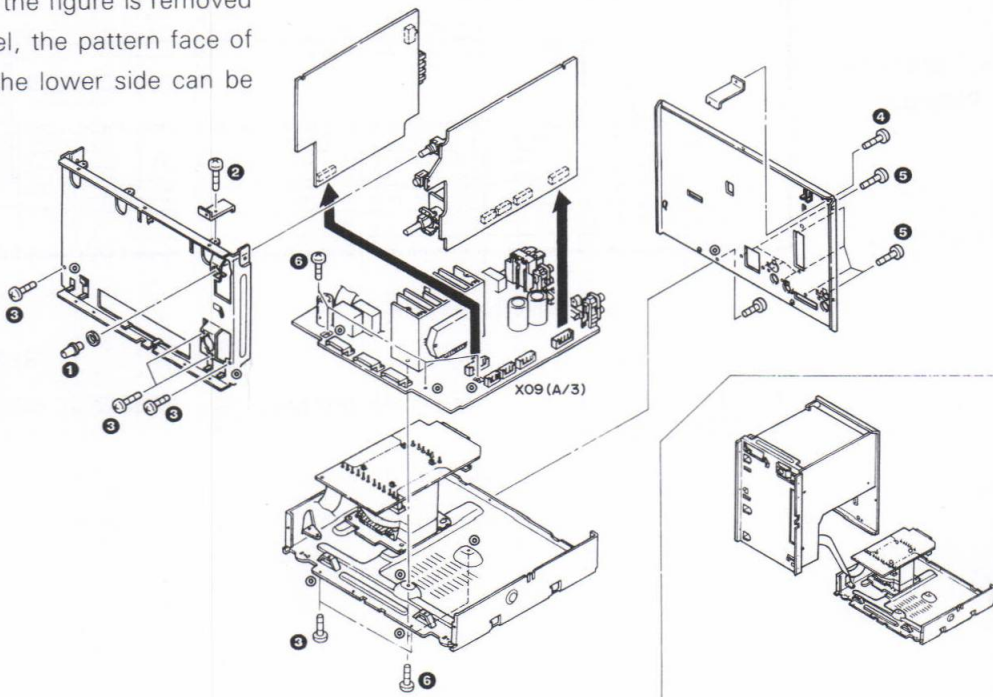
DISASSEMBLY FOR REPAIR

***Remove the metallic cabinet from the body before hand.**

- (1) Remove the knob ❶.
- (2) Remove the 4 screws ❷ of the upper and lower parts of the front panel, and then remove the front panel.
- (3) The printed circuit boards (X05-A/3), etc., can be removed when the 12 screws ❸ at the rear side of the front panel are removed.



- (4) Remove the MIC knob ❶.
- (5) Remove the screw ❷, and then remove the bracket attached to the front sub-panel.
Remove the 6 screws ❸, and then remove the front sub-panel.
Remove the screw ❹, and then remove the bracket attached to the rear panel.
Pull out the printed circuit boards (X05-B/3) and (X09-B/3) in the direction of the arrow.
- (6) Remove the 8 screws ❺, and then remove the rear panel.
Remove the 6 screws ❻, and then remove the printed circuit board (X09-A/3).
- (7) Since the bottom plate can be removed when the screw bearing the mark ○ in the figure is removed after removing the front panel, the pattern face of the printed circuit board of the lower side can be checked as well.

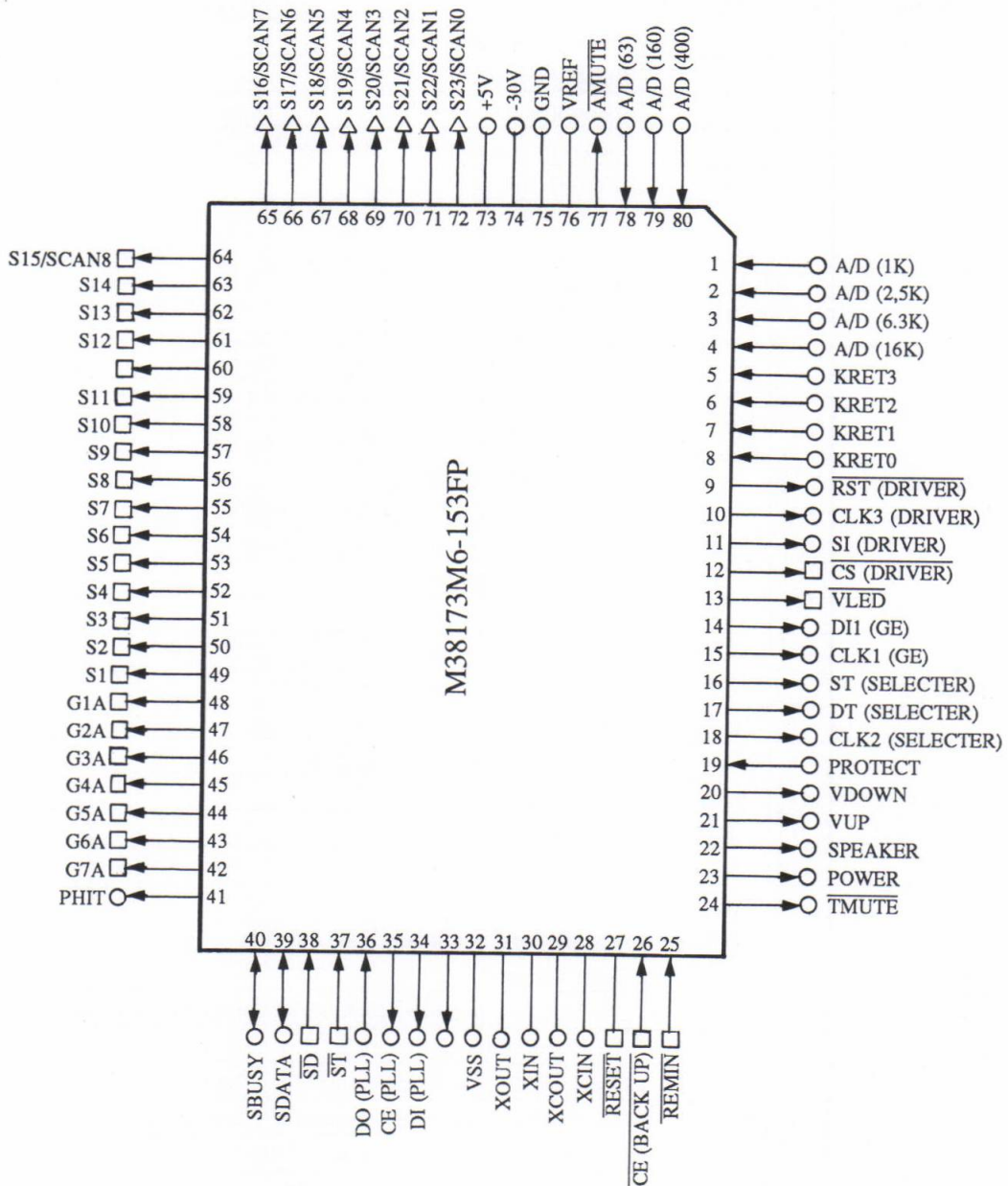


A-B3

CIRCUIT DESCRIPTION

Microprocessor (M38173M6-153FP)

Pin Connection



A-B3

TEST MODE

- (1) Plug the AC cord in the electrical outlet while pressing the CD key. (MEMORY RESET)
- (2) The TEST MODE is cancelled when the AC power cord is disconnected from the electrical outlet.
- (3) a: ALL FL light up. (The display switches to NOR when any KEY is pressed).
- b: The VR moves UP-DOWN when the TAPE KEY is pressed.

- c: The NOR→ bar indication is inverted and the various segments of the DISP indication flicker successively when the DISP KEY is pressed.
- d: The status of M1 to M5 change as follows:

M1, M5	0 dB
M2	+ 12 dB
M3	- 12 dB

(NOTE) MEMORY is RESET by TEST MODE.

CIRCUIT DESCRIPTION

PD ... PULL DOWN
PU ... PULL UP

Pin Description

PIN NO.	Name	I/O	MODE	Description	
1	A/D (1 kHz)	I		Spectrum analyzer 1 kHz analog input	
2	A/D (2.5 kHz)	I		Spectrum analyzer 2.5 kHz analog input	
3	A/D (6.3 kHz)	I		Spectrum analyzer 6.3 kHz analog input	
4	A/D (16 kHz)	I		Spectrum analyzer 16 kHz analog input	
5	KRET3	I	PD	KEY RETURN 3	H = KEY ON L = KEY OFF
6	KRET2	I	PD	KEY RETURN 2	H = KEY ON L = KEY OFF
7	KRET1	I	PD	KEY RETURN 1	H = KEY ON L = KEY OFF
8	KRET0	I	PD	KEY RETURN 0	H = KEY ON L = KEY OFF
9	RST	O	PD	RESET output for display IC (CXP2201)	H = NORMAL L = RESET
10	CLK3	O		CLOCK output for display IC (CXP2201)	
11	SI	O		DATA output for display IC (CXP2201)	
12	CS	O	PU	CHIP SELECT output for display IC (CXP2201)	H = ON L = OFF
13	VLED	O	PU	VOLUME LED output	H = ON L = OFF
14	D11	O		GE IC (LC7522) DATA output terminal	H = 1 L = 0
15	CLK1	O		GE IC (LC7522) LOCK output terminal	H = ON L = OFF
16	ST	O		SEL IC strobe output	H = ON L = OFF
17	DT	O		SEL IC DATA output	H = 1 L = 0
18	CLK2	O		SEL IC CLOCK output	
19	PROTECT	I	PD	PROTECTION detection terminal	H = PROTECT ON L = NORMAL
20	VDOWN	O	PD	Motor volume control output DOWN	H = ON L = OFF
21	VUP	O	PD	Motor volume control output UP	H = ON L = OFF
22	SPEAKER	O	PD	Speaker relay	H = ON L = OFF
23	POWER	O	PD	Power board	H = POWER ON L = POWER OFF
24	TMUTE	O	PD	TUNER MUTE output	H = ON L = OFF
25	REMIN	I	PU	Remote control input	H = ON L = OFF
26	CE BACK UP	I	PU	AC OFF detection input	H = AC ON L = AC OFF
27	RESET	I	PU	Reset terminal	H = NORMAL L = RESET
28	XCIN	I		Oscillation terminal for clock 3200 Connect crystal oscillator	
29	XOUT	O		Oscillation terminal for clock Connect 3200 MHz crystal oscillator	
30	XIN	I		MAIN CLOCK oscillation terminal Connect 6.3 MHz ceramic oscillator	
31	XOUT	O		MAIN CLOCK oscillation terminal Connect 6.3 MHz ceramic oscillator	
32	VSS			GND terminal Connect with GND	
33	CL (PLL)	O		CLOCK terminal for PLL (LC7218)	
34	DI (PLL)	O		DATA output for PLL (LC7218)	
35	CE (PLL)	O		PLL (LC7218) CE control output	H = ENABLE L = DISABLE
36	DO	I		PLL IF COUNT input terminal	
37	ST	I	PU	TUNER STEREO input	H = MONO L = STEREO
38	SD	I	PU	TUNER SD input	H = NOT TUNED L = TUNED
39	SDATA	I/O	PD	DATA input/output for system control	
40	SBUSY	I/O	PD	BUSY input/output for system control	H = TEST L = NORMAL

CIRCUIT DESCRIPTION

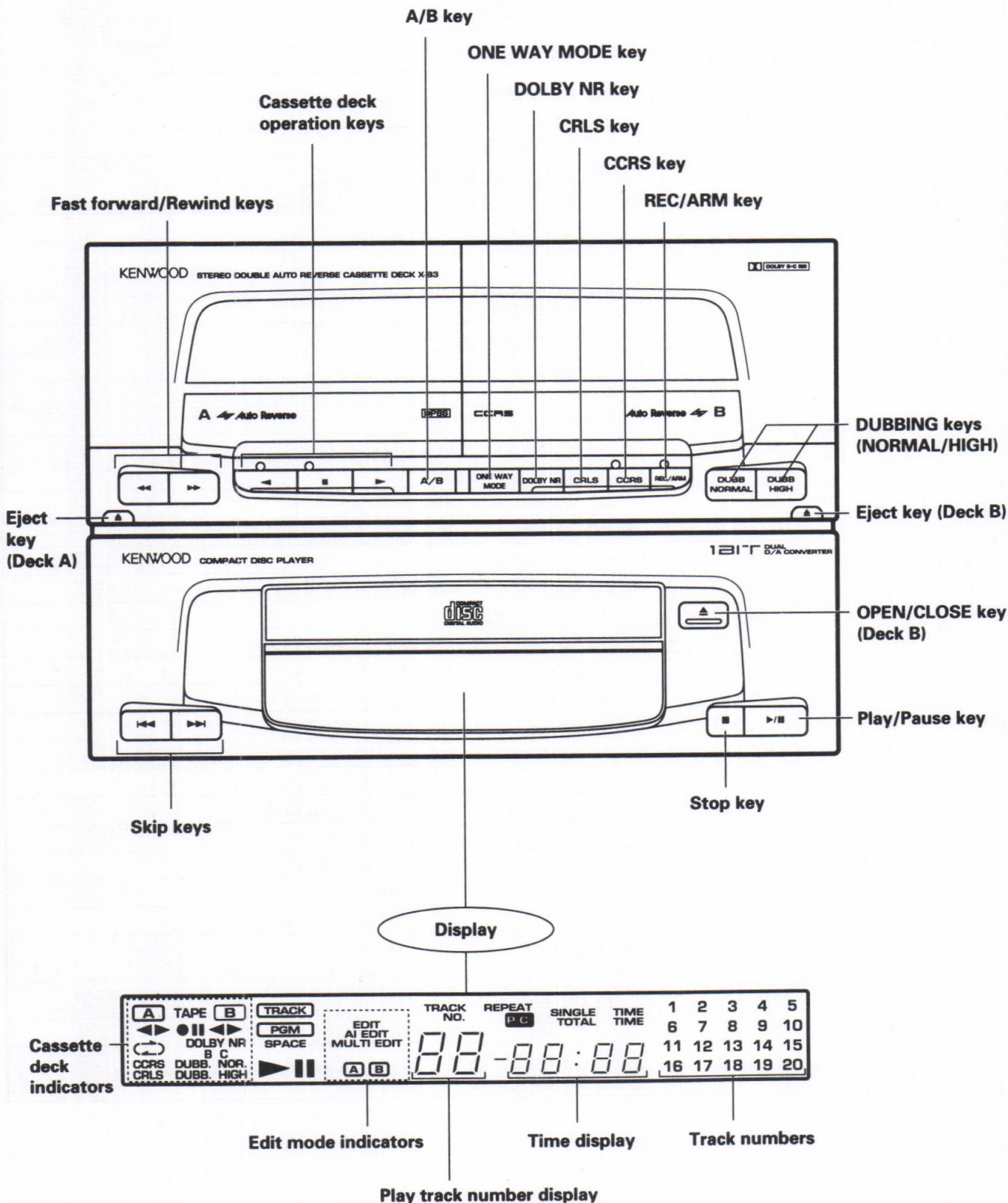
A-B3

PIN NO.	Name	I/O	MODE	Description	
41	PHIT	O	PD	SELECTOR SW CONTROL	H = ON L = OFF
42	G7A	O	IPD	FL G7A grid drive terminal	H = ON L = OFF
43	G6A	O	IPD	FL G6A grid drive terminal	H = ON L = OFF
44	G5A	O	IPD	FL G5A grid drive terminal	H = ON L = OFF
45	G4A	O	IPD	FL G4A grid drive terminal	H = ON L = OFF
46	G3A	O	IPD	FL G3A grid drive terminal	H = ON L = OFF
47	G2A	O	IPD	FL G2A grid drive terminal	H = ON L = OFF
48	G1A	O	IPD	FL G1A grid drive terminal	H = ON L = OFF
49	FL S1	O	IPD	FL S1 segment drive terminal	H = ON L = OFF
50	FL S2	O	IPD	FL S2 segment drive terminal	H = ON L = OFF
51	FL S3	O	IPD	FL S3 segment drive terminal	H = ON L = OFF
52	FL S4	O	IPD	FL S4 segment drive terminal	H = ON L = OFF
53	FL S5	O	IPD	FL S5 segment drive terminal	H = ON L = OFF
54	FL S6	O	IPD	FL S6 segment drive terminal	H = ON L = OFF
55	FL S7	O	IPD	FL S7 segment drive terminal	H = ON L = OFF
56	FL S8	O	IPD	FL S8 segment drive terminal	H = ON L = OFF
57	FL S9	O	IPD	FL S9 segment drive terminal	H = ON L = OFF
58	FL S10	O	IPD	FL S10 segment drive terminal	H = ON L = OFF
59	FL S11	O	IPD	FL S11 segment drive terminal	H = ON L = OFF
60		O	IPD	unused OPEN	
61	FL S12	O	IPD	FL S12 segment drive terminal	H = ON L = OFF
62	FL S13	O	IPD	FL S13 segment drive terminal	H = ON L = OFF
63	FL S14	O	IPD	FL S14 segment drive terminal	
64	FL S15/KS8	O	IPD	FL S15 segment drive terminal	KEY SCAN 8
65	FL S16/KS7	O	IPD	FL S16 segment drive terminal	KEY SCAN 7
66	FL S17/KS6	O	IPD	FL S17 segment drive terminal	KEY SCAN 6
67	FL S18/KS5	O	IPD	FL S18 segment drive terminal	KEY SCAN 5
68	FL S19/KS4	O	IPD	FL S19 segment drive terminal	KEY SCAN 4
69	FL S20/KS3	O	IPD	FL S20 segment drive terminal	KEY SCAN 3
70	FL S21/KS2	O	IPD	FL S21 segment drive terminal	KEY SCAN 2
71	FL S22/KS1	O	IPD	FL S22 segment drive terminal	KEY SCAN 1
73	FL S23/KS0	O	IPD	FL S23 segment drive terminal	KEY SCAN 0
73	VCC			Power supply terminal	Connect with +5 V
74	VEE			Power supply terminal for FL	Connect with -30 V
75	AVSS			GND for A/D	Connect with GND
76	A/D REFERENC			A/D reference voltage preset terminal	Connect with 5 V without backup
77	MUTE	O	PD	AUDIO MUTE output	H = OFF L = N
78	A/D (63 Hz)	I		Spectrum analyzer 63 Hz analog input	H = ON L = OFF
79	A/D (160 Hz)	I		Spectrum analyzer 160 Hz analog input	H = ON L = OFF
80	A/D (400 Hz)	I		Spectrum analyzer 400 Hz analog input	H = ON L = OFF

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CONTROLS & INDICATORS

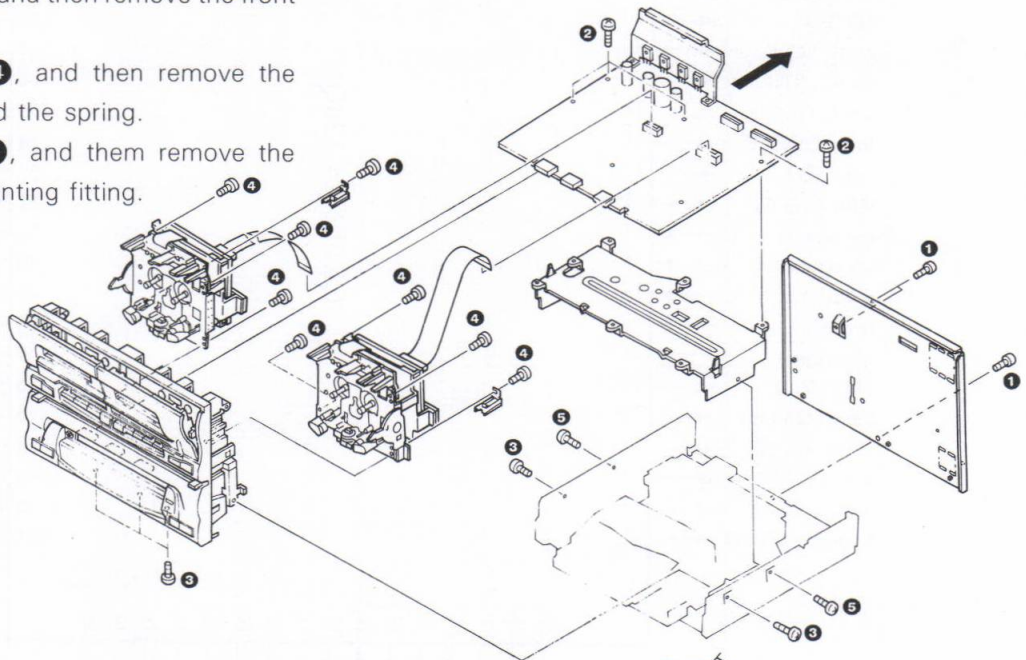
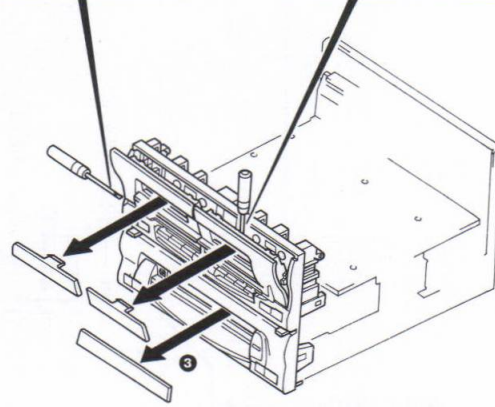
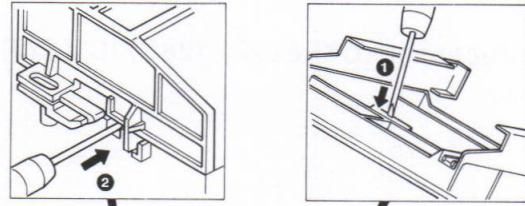
X-B3



DISASSEMBLY FOR REPAIR

***Remove the metallic cabinet from the body beforehand.**

- (1) Open the cassette holder by pushing the eject button.
Then, remove the front glass by pushing the hook **1** located inside the cassette holder by means of a square-bard standard screwdriver and the like.
- (2) If the tray doesn't come out even when the power is turned ON, slide the lever located in side the CD mechanism with a slender screwdriver, a piece of wire, etc., from the left-hand side of the front panel **2**.
When the CD tray panel of the front panel comes out, pull the tray out and then remove the tray panel **3**. (X-B3 only)
- (3) Disconnect the flat cable.
- (4) Remove the 4 screws **1**, and then remove the rear panel.
Remove the 4 screws **2**, pull the deck printed circuit board in the arrow direction, and then disconnect the connector from the front printed circuit board.
- (5) Remove the 6 screws **3**, and then remove the front panel.
- (6) Remove the 8 screws **4**, and then remove the mechanism main unit and the spring.
- (7) Remove the 2 screws **5**, and then remove the printed circuit board mounting fitting.



- (8) The CD mechanism can be removed when the 4 screws **1** are removed.

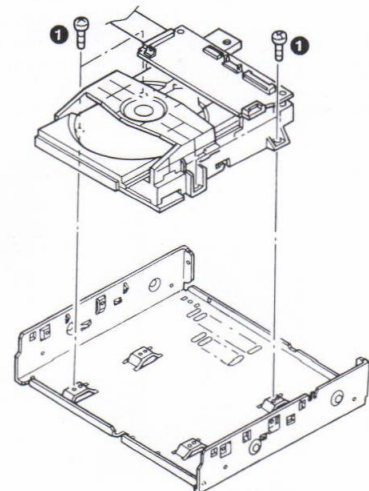
(Note 1)

Refer to DP-A5/A9 for the mechanism disassembling method.

(Note 2)

REPAIRING THE CD UNIT

The FL indication goes out when the rear panel and the cassette printed circuit board (X29-) are removed, but the operation of the CD can be checked notwithstanding.



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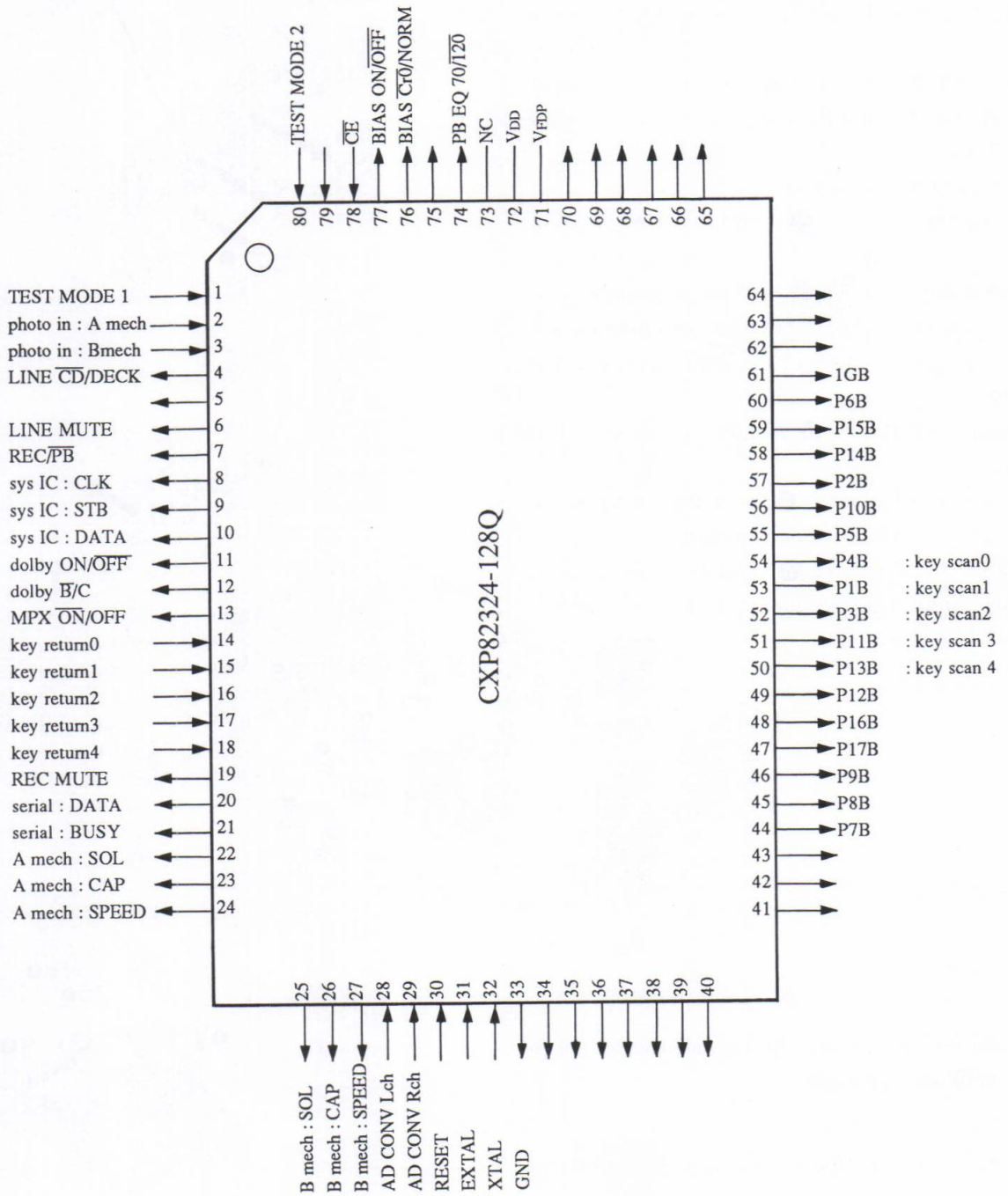
CIRCUIT DESCRIPTION

DECK

Microprocessor (CXP82324-128Q):IC1(X29)

Port layout

X-B3



CIRCUIT DESCRIPTION

Pin Description

Pin No.	Pin Name	IN/OUT	Function
1	PE3	IN	Test mode 1 (For line). "L" = ON
2	PE4	IN	Reception of revolution detection pulse from photosehser of mechanism A.
3	PE5	IN	Reception of revolution detection pulse from photosensor of Mechanism B.
4	PE6	OUT	Switching of LINE OUT to either CD or DECK. "H": CD "L": DECK
5	PE7	IN	Unused
6	PB0	OUT	LINE mute "L" = MUTE ON
7	PB1	OUT	REC/PB switching of mechanism B. "H" = PB
8	SCKO	OUT	Clock for sending data to the system IC
9	SIO	OUT	Strobe for sending data to the system IC
10	SOO	OUT	Data to be sent to the system IC.
11	PB5	OUT	Selection of ON/OFF state of DOLBY NR. "H" = ON
12	PB6	OUT	Specification of B or C when DOLBY NR ON. "H" = C
13	PB7	OUT	Specification of ON/OFF of MPX. "H" = OFF
14	KR0	IN	Return of key scan
15	KR1	IN	Return of key scan
16	KR2	IN	Return of key scan
17	KR3	IN	Return of key scan
18	KR4	IN	Return of key scan
19	PC5	OUT	REC MUTE "L" = MUTE ON
20	PC6	IN/OUT	DATA of serial communication.
21	PC7	IN/OUT	BUSY of serial communication
22	PA0	OUT	Control of solenoid of MECHANISM A. "H" = ON
23	PA1	OUT	Control of capstan of MECHANISM A. "H" = REVOLVING
24	PA2	OUT	Specification of revolution speed of motor of MECHANISM A. "L" = HIGH SPEED
25	PA3	OUT	Control of solenoid of MECHANISM B. "H" = ON
26	PA4	OUT	Control of capstan of MECHANISM B. "H" = REVOLVING
27	PA5	OUT	Specification of revolution speed of motor of MECHANISM B. "L" = HIGH SPEED
28	AN6	IN	Input terminal of AD converter. Lch of LINE
29	AN7	IN	Input terminal of AD converter. Lch of LINE
30	RST		Reset input terminal.
31	EXTAL		Input terminal of clock
32	XTAL		Input terminal of clock
33	Vss		GND
34	PD0	OUT	Unused
35	PD1	OUT	Unused
36	PD2	OUT	Unused
37	PD3	OUT	Unused
38	PD4	OUT	Unused
39	PD5	OUT	Unused
40	PD6	OUT	Unused

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CIRCUIT DESCRIPTION

Pin No.	Pin Name	IN/OUT	Function
41	PD7	OUT	Unused
42	PF0	OUT	Unused
43	PK1	OUT	Unused
44	S10	OUT	P7B : $\square\square$ (For DECK B)
45	S11	OUT	P8B: \blacktriangleleft (For DECK B)
46	S12	OUT	P9B: \blacktriangleleft (For DECK B)
47	S13	OUT	P17B: DUBB, HIGH
48	S14	OUT	P16B: DUBB, NOR
49	S15	OUT	P12B: B (DOLBY NR TYPE indication)
50	S16	OUT	P13B: C (ALso used as key-scan output) (DOLBY NR TYPE indication)
51	S17	OUT	P11B: DOLBY NR (Also used as key-scan output)
52	S18	OUT	P3B: B (Also used as key-scan output) (Deck B indication)
53	S19	OUT	P1B: A (Also used as key-scan output) (Deck A indication)
54	S20	OUT	P4B: \blacktriangleleft (Also used as key-scan output) (For Deck A)
55	S21	OUT	P5B: \blacktriangleright (For Deck A)
56	S22	OUT	P10B: (Endless indication)
57	S23	OUT	P2B: TAPE \rightleftharpoons (Permanently lit)
58	S24	OUT	P14B: CCRS
59	S25	OUT	P15B: CRLS
60	S26	OUT	P6B: \bullet (For Deck B)
61	T9	OUT	1GB: Grid
62	T8	OUT	Unused
63	T7	OUT	Unused
64	T6	OUT	Unused
65	T5	OUT	Unused
66	T4	OUT	Unused
67	T3	OUT	Unused
68	T2	OUT	Unused
69	T1	OUT	Unused
70	T0	OUT	Unused
71	VFDP		Unused
72	VDD		Positive power supply terminal (+5 V)
73	NC		NC
74	PG0	OUT	Specification of playback equalizer. "H" = 70 μ
75	PG1	OUT	Unused
76	PG2	OUT	Specification of BIAS
77	PG3	OUT	Control of BIAS oscilation. "H" = ON (Oscillation)
78	INTO	OUT	Chip enable terminal
79	PE1	IN	Unused
80	PE2	IN	Test mode 2 (For PCB jig). "L" = ON.

CIRCUIT DESCRIPTION

TEST MODE

PRESETTING METHOD

- Turn the power ON while pressing the FWD PLAY (▶) key.
- Ground TP3 of TEST 1, and turn the power ON. At this time, CD is also switched to the test mode by the serial code (DO11).

FUNCTIONS

(1) Four-second REC (Operation by means of REC key)

- ① The REC operation with 4-second duration (Including mechanism switching time) at the current head direction of DECK B is started. The tape count is reset for the tape to return to the beginning of the recording.
- ② After finishing the REC operation with 4-second duration, the tape is rewound at double speed for the tape count to return to zero.
- ③ The tape is played back. (The operation is not interrupted).

(2) Thirteen-second REC (Operation by means of the CCRS key)

- ① The REC operation with 13-second duration (Including mechanism switching time. Dolby is set to B) at the current head direction of DECK B is started. The tape count is zeroed.
- ② The tape is rewound when the REC operation with 14-second duration is finished.
- ③ The tape is played back when it is rewound back to the REC starting position. (The operation is not interrupted).
- ④ The operation stops with the DOLBY noise reduction OFF when the STOP key is pressed.

(3) SWITCHING THE SPEED

The tape runs with double speed when the FF key is pressed during FWD PLAY, and returns to the ordinary speed when the FWD PLAY key is pressed.

(4) Lighting all FL up

All FL are lit up approximately 0.5 second after turning the power ON in TEST1.

All FL stay lit up for approximately 2 seconds, and after that they change to the special indication state for TEST.

(5) INDICATIONS OF FL

The reel pulse is detected, and (A) flickers at the DECK A, and (B) flickers at DECK B.

The recording tab of the half is detected, and the ◀▶ indication appears in the recordable direction. (Only DECK B).

(6) OTHERS

- ① The initial values are forcibly preset in the back-up area when POWER is turned ON with the STOP key kept pressed.
- ② The initial value of the line-out selector becomes CD when POWER is turned ON with the REC key kept pressed. (Usually, the initial value is DECK).
- ③ The initial values are forcibly preset in the back-up area when POWER is turned ON for the first time right after finishing TEST 1 and TEST 2.
- ④ The rise-up time is made as short as possible, as long as there is no influence ON the other operations.

The operation of the keys is enabled when the initialization of the mechanism is finished. (It takes about 2 to 3 seconds to initialize the mechanism).

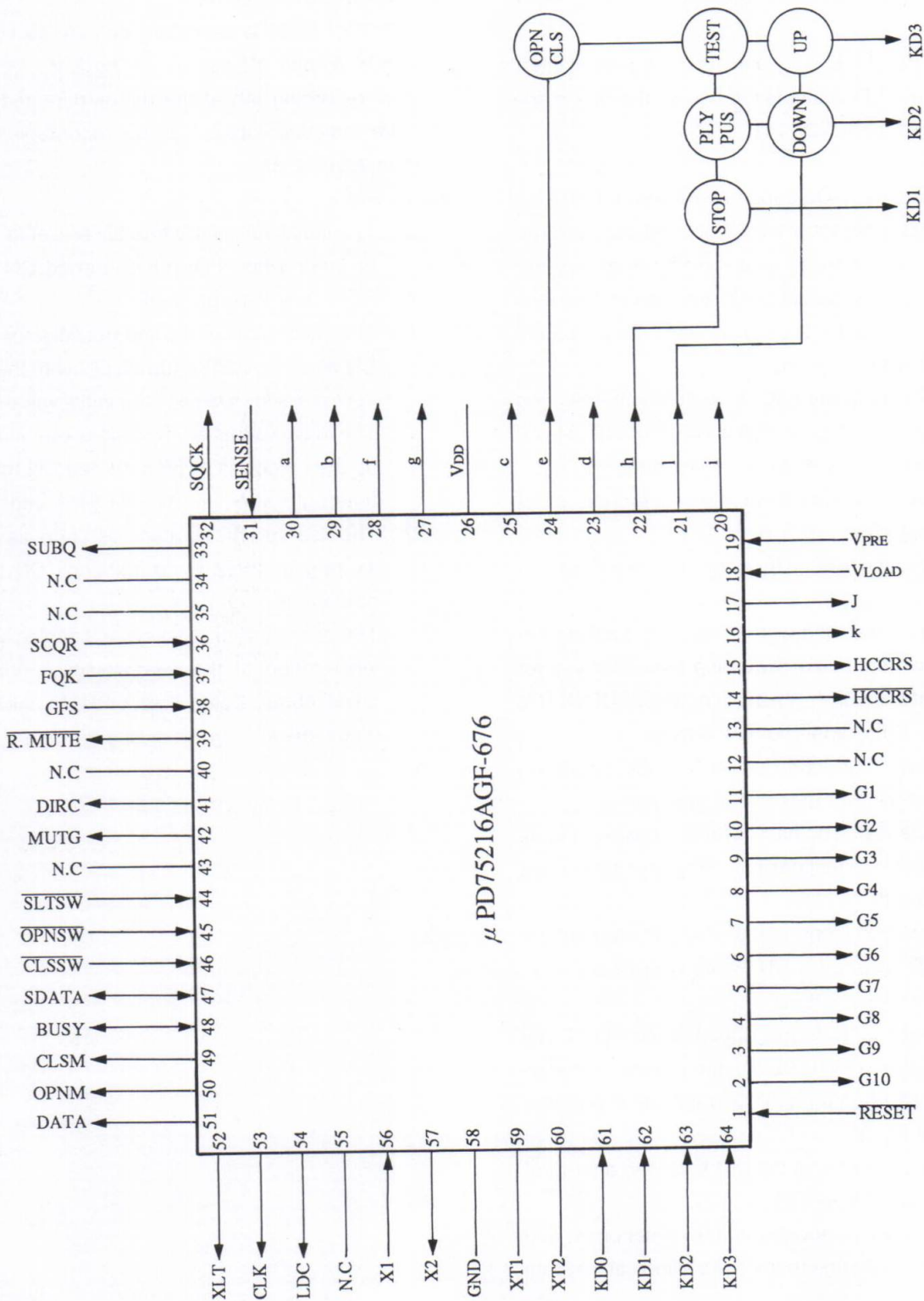
UD-301/351

CIRCUIT DESCRIPTION

CD

2. Microprocessor: μ PD75216AGF-676:IC1(X32)

2-1. Pin connection



X-B3

CIRCUIT DESCRIPTION

2-2. Pin Description

Pin No.	Pin Name	I/O	Function
1	RESET	—	RESET input terminal. ACTIVE = "L"
2~11	10G~1G	O	1FL grid 10 G to 1G.
12, 13	N, C	O	Unused
14	HCCRS	O	Double speed control output (DOUBLE SPEED: "L")
15	HCCRS	O	Double speed control output (DOUBLE SPEED: "H")
16	k	O	FL segment k
17	j	O	FL segment l
18	VLOAD	O	FL erasing voltage power supply
19	VPRE	O	FL predriver power supply
20	i	O	FL segment j.
21	l	O	FL segment l/KEY scan port.
22	h	O	FL segment k/KEY scan port.
23	d	O	FL segment d/KEY scan port.
24	e	O	FL segment e/KEY scan port.
25	c	O	FL segment c/KEY scan port.
26	VDD	—	+5V power supply terminal.
27	g	O	FL segment g/KEY scan port.
28	f	O	FL segment f/KEY scan port.
29	b	O	FL segment b/KEY scan port.
30	a	O	FL segment a/KEY scan port.
31	SENSE	I	SENSE detection terminal from in- formation processing & servo IC.
32	SQCK	O	Q-data reading clock output terminal.
33	SUBQ	O	Q-data input terminal.
34, 35	N, C	I	Unused
36	SCOR	I	Sub-code frame sink detection signal input terminal.
37	FOK	I	FOK signal input terminal of RF amplifier.
38	GFS	I	Frame sink signal input terminal.
39	RMUTE	O	Analog simulation signal (MUTE ON = "L")
40	N, C	O	Unused
41	DIRC	O	DIRC control terminal of servo IC.

Pin No.	Pin Name	I/O	Function
42	MUTG	O	MUTE control terminal of signal processing IC (MUTE ON: "H")
43	N, C	O	Unused
44	SLTSW	I	Start limit SW input (ON: "L")
45	OPNSW	I	Tray open SW input (ON: "L")
46	CLSSW	I	Tray close SW input (ON: "L")
47	SDATA	I/O	Serial signal (DATA) input/ouput terminal.
48	BUSY	I/O	Serial signal (BUSY) input/ouput terminal.
49	CLSM	O	Tray close motor control terminal.
50	OPNM	O	Tray open motor control terminal.
51	DATA	O	Signal processing & servo IC control output terminal. (Data).
52	XLT	O	Signal processing & servo IC control output terminal. (Latch).
53	CLK	O	Signal processing & servo IC control output terminal. (Clock).
54	LDC	O	Laser signal output terminal.
55	N, C	O	Unused.
56	X1	—	Oscillation input terminal. (4.19 MHz)
57	X2	—	Oscillation output terminal.
58	VSS	—	GND power supply terminal.
59	XT1	—	GND
60	XT2	—	OPEN
61	KD0	I	KEY input terminal.
62	KD1	I	KEY input terminal
63	KD2	I	KEY input terminal
64	KD3	I	KEY input terminal

CIRCUIT DESCRIPTION

X-B3 (CD)

TEST MODE

* There are 2 methods to obtain the output of the CD when there is no A-B3.

- ① Turn the POWER ON while pressing the ◀◀ KEY of the DECK.
- ② Ground the base of Q110 (X29-2390).

(1) SELECTING THE TEST MODE

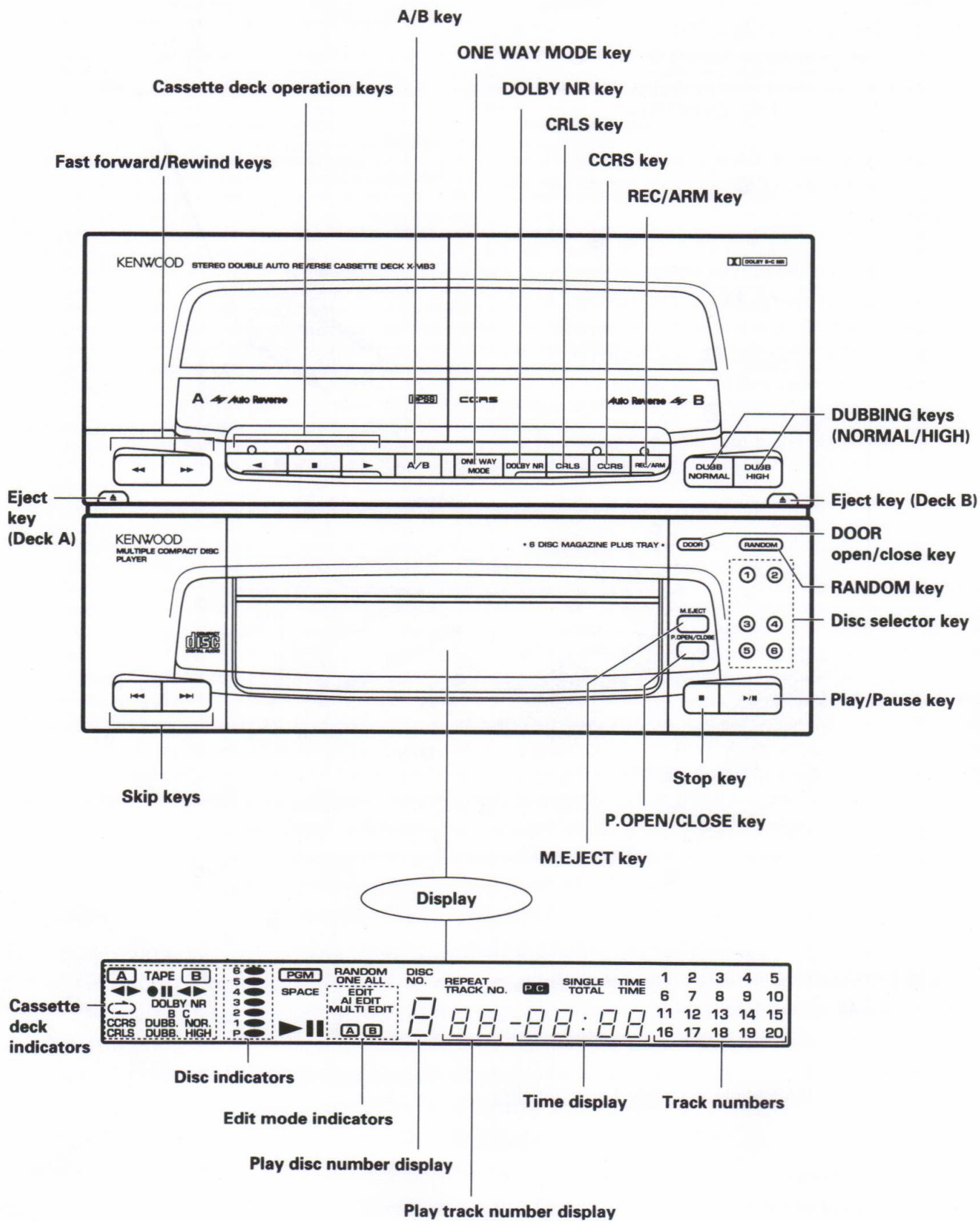
Short-circuit the pins 1 and 2 of CN2 of X32-2250. Otherwise, if the DECK PCB is connected, turn the POWER ON while pressing the ▶ (RWD PLAY) key for both DECK and CD to switch to the test mode.

(2) FUNCTIONS OF THE KEYS ENABLED IN THE TEST MODE

	Key name	Function	Indication
1	PLAY	Focus servoON Tracking servoON Feed servoON	05
2	PLAY (keep KEY pressed)	Focus servoON Tracking servoOFF Feed servoOFF	05→01→04
3	STOP	ServoOFF	01
4	▶▶ UP	All FL light up	
5	◀◀ DOWN	All FL light OFF	Anything be- sides track NO.

NOTE: Since the DECK PCB (X29-2390A/2) and the display PCB (B/2) are disconnected when checking the operation in the test mode, make sure of installing these PCB once again if FL check is required.

CONTROLS & INDICATORS



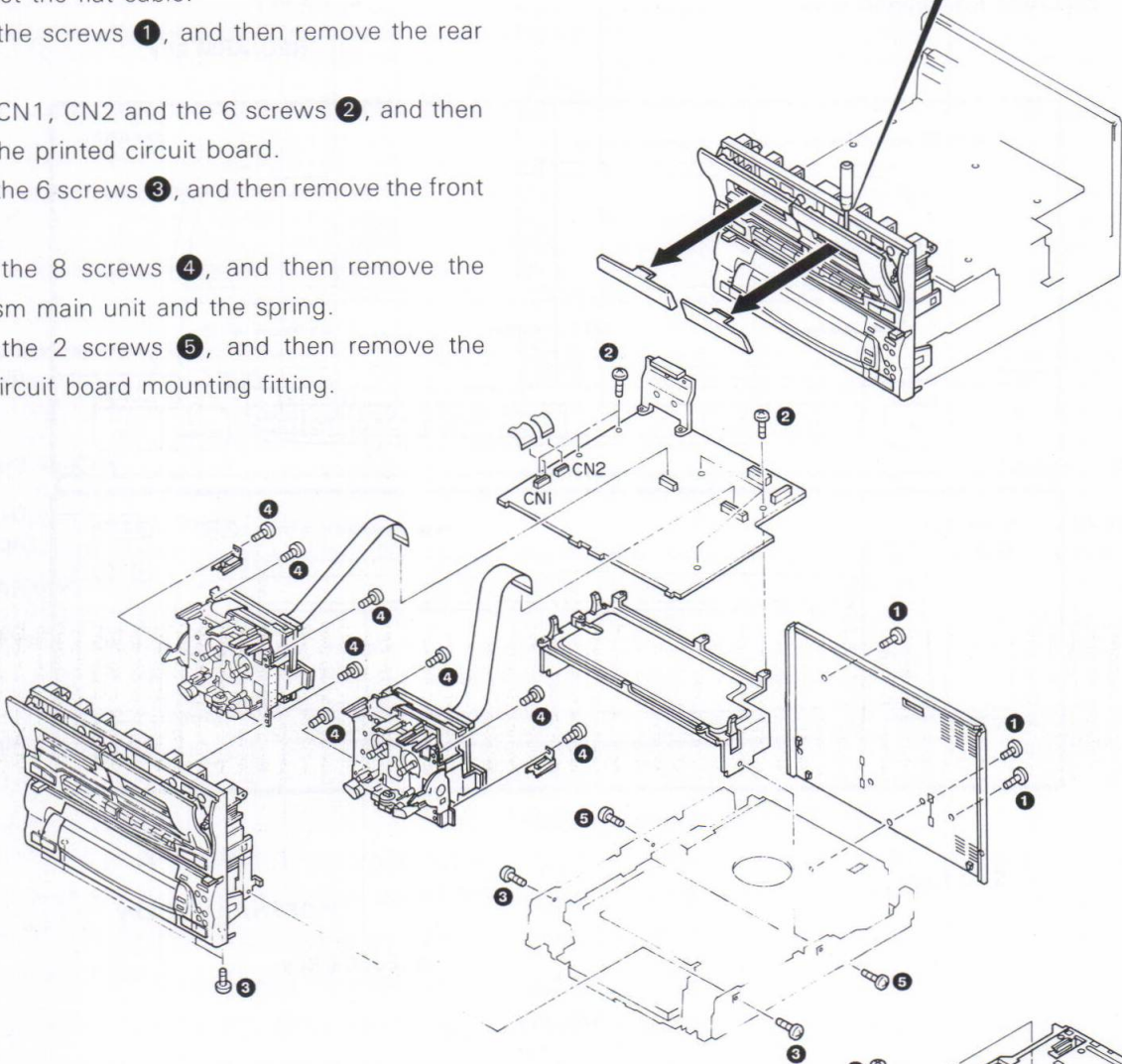
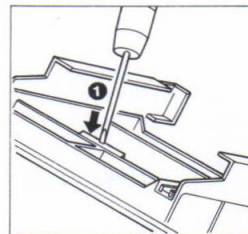
X-MB3

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DISASSEMBLY FOR REPAIR

*Remove the metallic cabinet from the body beforehand.

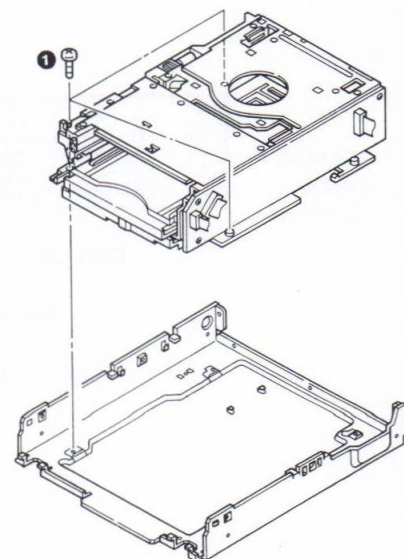
- (1) Open the cassette holder by pushing the eject button. Then remove the lid by pushing the hook ① located inside the cassette holder by means of a square-bar standard a screwdriver and the like.
- (2) Disconnect the flat cable.
- (3) Remove the screws ①, and then remove the rear panel. Remove CN1, CN2 and the 6 screws ②, and then remove the printed circuit board.
- (4) Remove the 6 screws ③, and then remove the front panel.
- (5) Remove the 8 screws ④, and then remove the mechanism main unit and the spring.
- (6) Remove the 2 screws ⑤, and then remove the printed circuit board mounting fitting.



- (7) The CD mechanism can be removed when the 3 screws ① are removed.

(Note 1)
Refer to DP-MA5/MA9 for the method to disassemble the mechanism.

(Note 2)
The FL indication goes out when the rear panel and the cassette printed circuit board (X29-) are removed, but the operation of the CD can be checked notwithstanding.

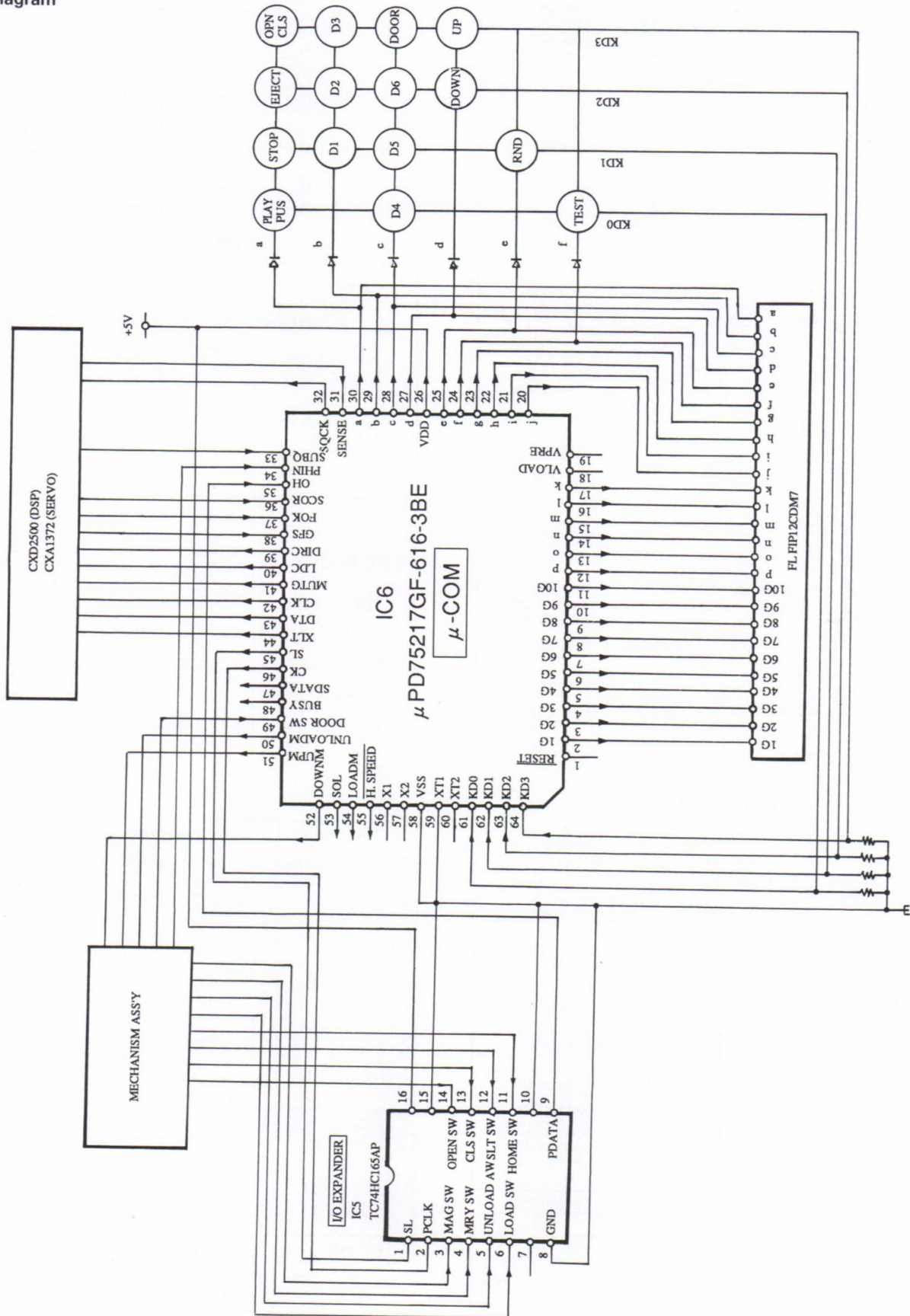


CIRCUIT DESCRIPTION

CD

Microprocessor (μ PD75217GF-616-3BE):IC6(X32)

Block diagram



X-MB3

CIRCUIT DESCRIPTION

2-2. Pin Description (μ PD75217GF-616)

Pin No.	Name	I/O	Description
1	RESET	I	Reget input terminal
2 to 11	1G~10G	O	FL digit control terminals.
12 to 17	p~k	O	FL segment control terminals (KEY SCAN).
18	VLOAD	I	Negative power supply for FL driver (-35 V)
19	VPRE	I	Negative power supply for FL grid driver (-5 V)
20 to 25	j~e	O	FL segment control terminals (KEY SCAN)
26	VDD	-	Power supply (+5 V)
27 to 30	d~a	O	FL segment control terminals (KEY SCAN)
31	SENSE	I	SENSE detection terminal from signal processing IC
32	SQCK	O	Q-data reading clock output terminal
33	SUBQ	I	Q-data input terminal
34	PHIN	I	Mechanism photo-interpreter input (PHI)
35	QH	I	Data input terminal from TC74HC165
36	SCOR	I	Sub-code frame sink detection signal terminal
37	FOK	I	POK signal input terminal
38	GFS	I	Frame signal input terminal
39	DIRC	O	Direct control terminal of servo IC
40	LDC	O	Laser signal output terminal
41	MUTG	O	Digital mute output terminal
42	CLK	O	Clock output terminal of signal processing IC
43	DTA	O	Data output terminal of signal processing IC
44	XLT	O	Latch output terminal of signal processing IC
45	SL	O	Latch output terminal of TC74HC165
46	CK	O	Clock output terminal of TC74HC165
47	SDATA	I/O	DATA signal input/output for serial communication
48	BUSY	I/O	BUSY signal input/output for serial communication
49	DOORSW	I	Mechanism door SW input terminal (SW)
50	UNLOADM	O	Mechanism unloading motor control (L. M.)
51	UPM	O	Mechanism UP motor conytrol (V. M.)
52	DOWNM	O	Mechanism DOWN motor control (V. M.)
53	SOL	O	Mechanism solenoid control
54	LOADM	O	Mechanism loading motor control (L. M.)
55	H. SPEED	O	Circuit switching output during double speed operatiopn (Active L)
56	X1	I	System clock input terminal
57	X2	-	Unused
58	VSS	-	GND
59	XT1	-	GND connection
60	XT2	-	Unused (Open)
61 to 64	KD0~3	I	Key return input of key matrix

2-3. IC5 Pin Description (I/O EXPANDER: TC74HC165AP)

Pin No.	Name	I/O	Description
1	SL	I	Shift load input terminal
2	PCLK	I	Clock input terminal
3	MAGSW	I	Magazine switch input terminal (SW4)
4	MRYSW	I	Memory switch input terminal (SW3)
5	UNLOADSW	I	Unload switch input terminal (SW5)
6	LOADSW	I	Load switch input terminal (SW5)
7	-	O	Unused
8	GND	-	GND
9	PDATA	O	Data output terminal
10	-	I	Unused
11	HOMESW	I	Home position switch input terminal (SW2)
12	SLTSW	I	Start limit switch (SW1)
13	CLSSW	I	Close switch input terminal (SW6)
14	OPNSW	I	Open switch input terminal (SW6)
15	-	I	Unused
16	-	-	Power supply (+5 V)

TEST MODE

- 1) The operation gets in the test mode when pins (2) and (3) of X32-2280 are short-circuited.
- 2) Load the compact disc (CD) for check in the #6 magazine pack.
- 3) Enabled keys and functions

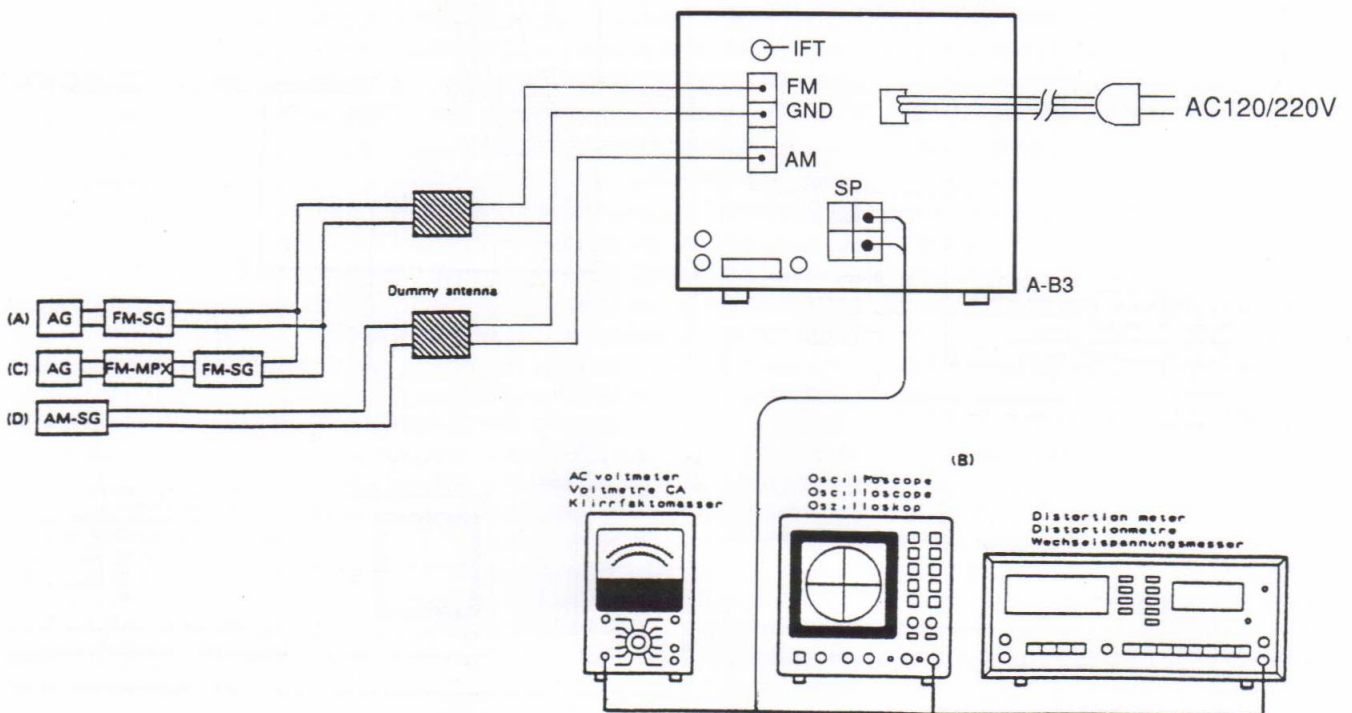
	Key name	Function	Indication
1	Disc No. key [6]	The disc is loaded	601
2	STOP	Focus servoOFF Tracking servo.....OFF Feed servo.....OFF	601
3	RANDOM	Focus servoOFF Tracking servo.....OFF Feed servo.....OFF	603
4	PLAY	Servo ON	605
5	DISC 1	Trays of DISC 1 to DISC 6 are pulled	[A] flickers
6	DISC 2	Trays of DISC 3 to DISC 6 are pulled and TOC is read. TEST MODE is cancelled after finishing that, and DISC6 is played back.	[B] flickers
7	UP ►►	All FL light up.	
8	DOWN ◄◄	All FL are light OFF	TRACK No. flickers

ADJUSTMENT

TUNER A-B3/B3L

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR: FM					
1	DISCRIMINATOR	(A) 98.0 MHz 1 kHz, ± 75 kHz dev (M, X type) 1 kHz, ± 40 kHz dev (E, T type) 60 dB μ (ANT input)	Connect a DC voltmeter between TP3 and Tp4. (X05-)	MONO 98.0 MHz	L3	0 V	(a)
2	DISTORTION (STEREO)	(C) 98.0 MHz 1 kHz, ± 68.25 kHz dev Pilot: ± 7.5 kHz dev (M, X type) 1 kHz, ± 40 kHz dev Pilot: ± 6 kHz dev (E, T type) 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	L1 IFT (W02-)	Minimum distortion	
3	SEPARATION (E, T type only)	(C) 98.0 MHz 1 kHz, ± 40 kHz dev Pilot ± 6 kHz dev Selector: L or R 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	VR3 (X05-)	Minimum crosstalk	
4	TUNING LEVEL	(A) 98.0 MHz 1 kHz, ± 75 kHz dev (M, X type) 1 kHz, ± 45 kHz dev (E, T type) 20 dB μ (ANT input) 75 Ω	(B)	AUTO or MONO 98.0 MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
AM (MW) SECTION		SELECTOR: AM (MW)					
(1)	TUNING LEVEL	(D) 990 kHz 400 Hz, 30% mod 26 dB μ (ANT input)	(B)	990 kHz	(X05-) VR2	Adjust VR2 and stop at the point where ED1 (TUNED) goes on.	

A-B3

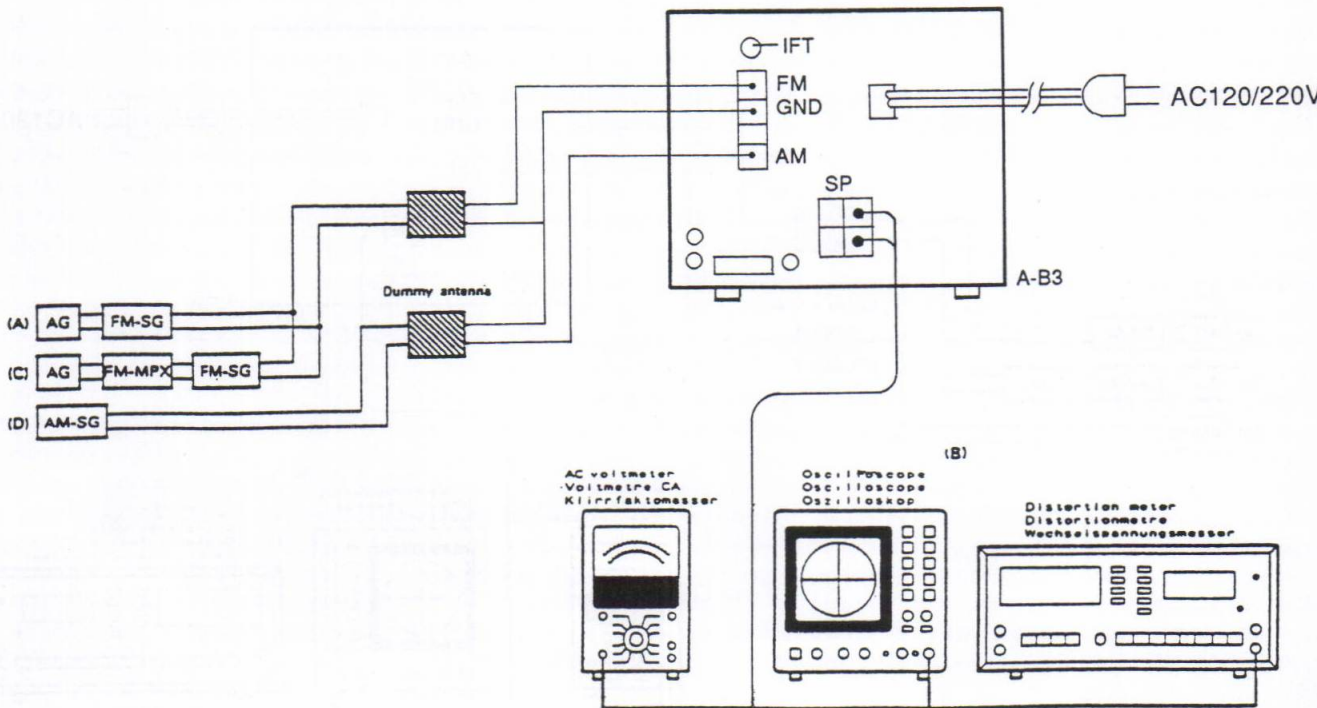


REGLAGE

A-B3/B3L

No.	Sujet	Réglage d'entrée	Réglage de sortie	Réglage du TUNER	Point d'ajustement	Méthode d'ajustement	FIG.
SECTION FM							
1	DISCRIMINATION	(A) 98,0 MHz 1 kHz, \pm 75 kHz disp. (Type M, X) 1 kHz, \pm 40 kHz disp. (Type E, T) 60 dB μ (Entrée ANT)	Connecter un voltmètre DC entre TP3 et TP4. (X05-)	MONO 98,0 MHz	L3	0 V	(a)
2	DISTORSION (STEREO)	(C) 98,0 MHz 1 kHz, \pm 68,25 kHz disp. Pilote: \pm 7,5 kHz disp. (Type M, X) 1 kHz, \pm 40 kHz disp. Pilote: \pm 6 kHz disp. (Type E, T) 60 dB μ (Entrée ANT)	(B)	AUTO 98,0 MHz	L1 IFT (W02-)	Distorsion minimum	
3	SEPARATION (Type E, T seulement)	(C) 98,0 MHz 1 kHz, \pm 40 kHz disp. Pilote: \pm 6 kHz disp. Sélecteur: L ou R 60 dB μ (Entrée ANT)	(B)	AUTO 98,0 MHz	VR3 (X05-)	Transmodulation minimum	
4	NIVEAU D'ACCORD	(A) 98,0 MHz 1 kHz, \pm 75 kHz disp. (Type M, X) 1 kHz, \pm 45 kHz disp. (Type E, T) 20 dB μ (Entrée ANT) 75 Ω	(B)	AUTO ou MONO 98,0 MHz	VR1 (X05-)	Ajuster VR1 et arrêter au point où FD1 (TUNED) s'allume.	
SECTION AM (OM)		SELECTEUR: AM (OM)					
(1)	NIVEAU D'ACCORD	(D) 990 kHz 400 Hz, 30% mod 26 dB μ (Entrée ANT)	(B)	990 kHz	(X05-) VR2	Ajuster VR2 et arrêter au point où ED1 (TUNED) s'allume.	

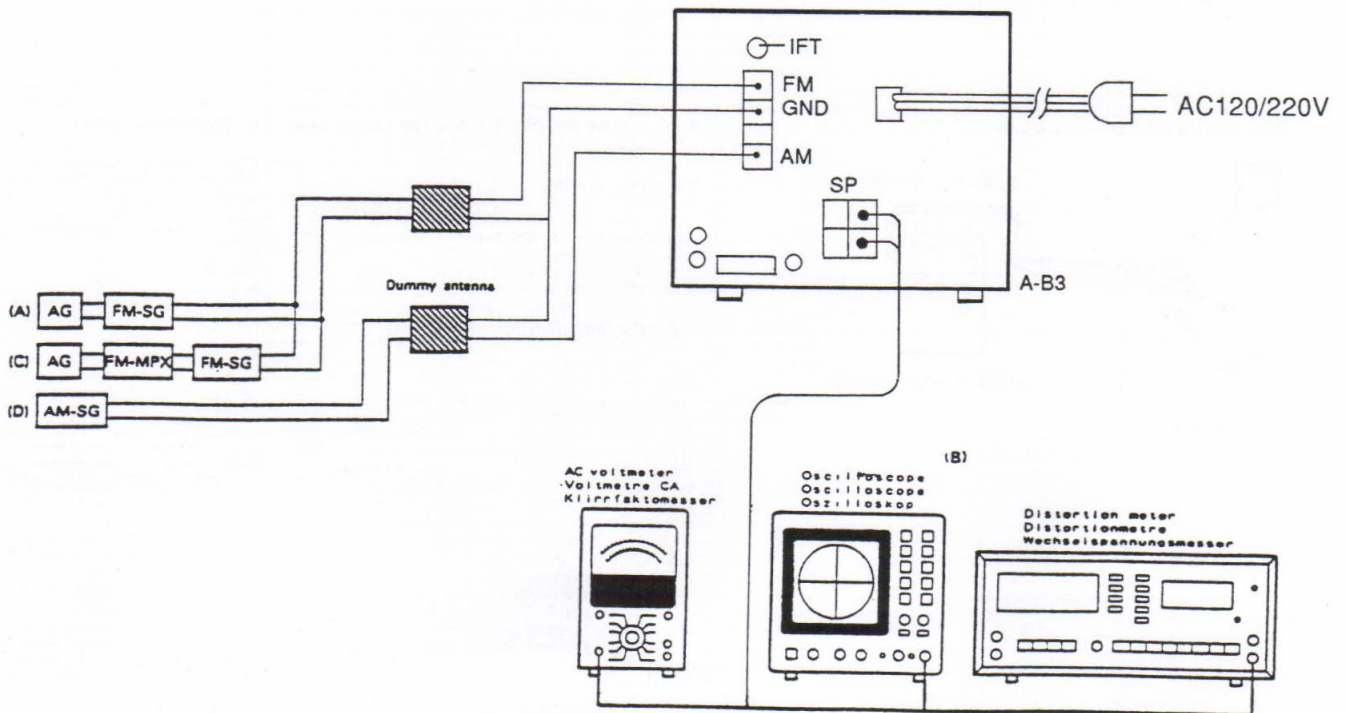
A-B3



ABGLEICH

A-B3/B3L

Nr.	GEGENSTAND	EINGANGSEINSTELLUNGEN	AUSGANGSEINSTELLUNGEN	TUNER-EINSTELLUNGEN	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-TEIL		WÄHLER: FM					
1	DISKRIMINATOR	(A) 98,0 MHz 1 kHz, ± 75 kHz Abw (M-, X-Typ) 1 kHz, ± 40 kHz Abw (E-, T-Typ) 60 dB μ (ANT-Eingang)	Einen Gleichspannungsmesser zwischen TP3 und TP4 schließen. (X05-)	MONO 98,0 MHz	L3	0 V	(a)
2	VERZERRUNGEN (STEREO)	(C) 98,0 MHz 1 kHz, $\pm 68,25$ kHz Abw Pilot: $\pm 7,5$ kHz Abw (M-, X-Typ) 1 kHz, ± 40 kHz Abw Pilot: ± 6 kHz Abw (E-, T-Typ) 60 dB μ (ANT-Eingang)	(B)	AUTO 98,0 MHz	L1 IFT (W02-)	Minimale Verzerrungen	
3	TRENNUNG (Nur E-, T-Typ)	(C) 98,0 MHz 1 kHz, ± 40 kHz Abw Pilot ± 6 kHz Abw Wähler: L oder R 60 dB μ (ANT-Eingang)	(B)	AUTO 98,0 MHz	VR3 (X05-)	Minimales Übersprechen	
4	ABSTEMMPEGEL	(A) 98,0 MHz 1 kHz, ± 75 kHz Abw (M-, X-Typ) 1 kHz, ± 45 kHz Abw (E-, T-Typ) 20 dB μ (ANT-Eingang) 75 Ω	(B)	AUTO oder MONO 98,0 MHz	VR1 (X05-)	VR1 auf die Position einstellen, in der ED1 (TUNED) aufleuchtet.	
AM- (MW-) TEIL		WÄHLER: AM (MW)					
(1)	ABSTIMMPEGEL	(D) 990 kHz 400 Hz, 30% Mod 26 dB μ (ANT-Eingang)	(B)	990 kHz	(X05-) VR2	VR2 auf die Position einstellen, in der ED1 (TUNED) aufleuchtet.	



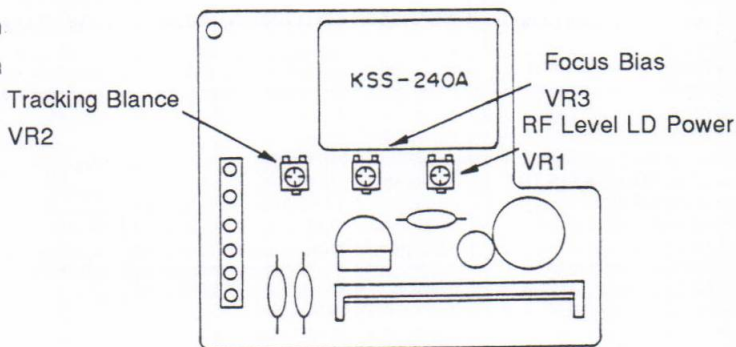
A-B3

UD-301/351

ADJUSTMENT

HANDLING PRECAUTIONS

The pickup (KSS-240A) is assembled and adjusted with high precision by the parts' manufacturer. Refrain from disassembling and adjusting it carelessly.

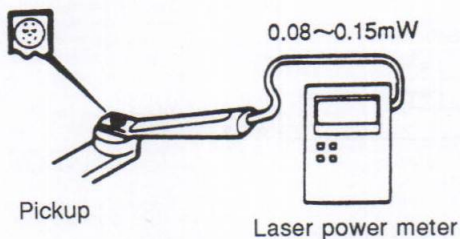


CD PLAYER (X-B3)

Order	Item	Input setting	Output setting	Player setting	Adjustment point	Adjustment method	Fig.
1	Laser power	—	Place the sensor unit of the optical poer meter on the pickup lens.	Short-circuit the test pin, and set the operation to the TEST MODE.	—	0.08 to 0.15 mW The pickup is OK of RF level is 1.0 Vp-p TE (servo OPEN) 0.5 Vp-p or more and the diffraction lattice is correct with the aforementioned power.	(a)
2	Focus gain	TEST DISC TYPE 4 Enter 1.0 kHz 0.1 Vrms signal in pins 2-3 of CN3.	Attach LPF to pins 2 and 3 of CN3, and then connect an oscilloscope or AC voltmeter.	Push the PLAY key.	FOCUS GAIN VR2	Adjust the reading of the 2 voltmeters to the same value.	(b)
3	Tracking gain	TEST DISC TYPE 4 Enter 1.3 kHz 0.1 Vrms signal in pins 5-6 of CN3.	Attach LPF to pins 5 and 6 of CN3, and then connect an oscilloscope or AC voltmeter.	Push PLAY key.	TRACKING GAIN VR1	Adjust the readings of the 2 voltmeters to the same value.	(c)

Note: TEST DISC TYPE4 — SONY YEDS-18 TEST DISC or equivalent.
LPF — 47 k + 390 pF or so.

(a) Adjustment Laser power



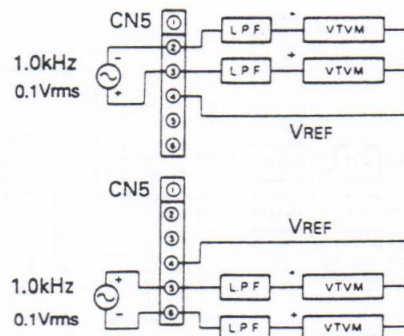
Adjustment of (b) focus gain and (c) tracking gain.

FOCUS GAIN

The readings of the two AC voltmeters should be the same.

TRACKING GAIN

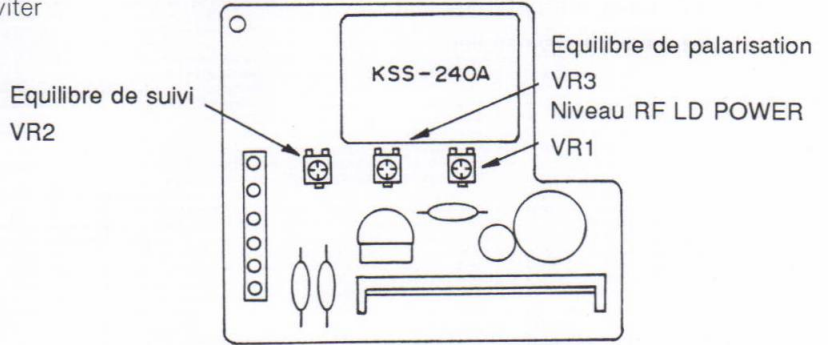
The readings of the two AC voltmeters should be the same.



REGLAGE

PRECAUTIONS DE MANIPULATION

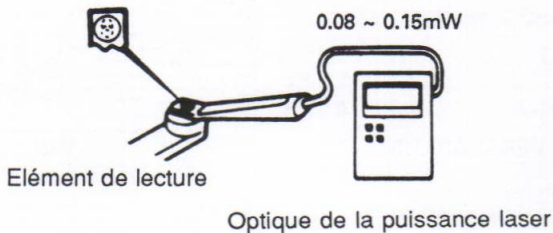
L'élément de lecture (KSS-240A) est monté et ajusté avec grande précision par le fabricant de pièces. Eviter de le démonter et de l'ajuster sans faire attention.



Ordre	Sujet	Réglage d'entrée	Réglage de sortie	Réglage de platine	Point d'ajustement	Méthode d'ajustement	Fig.
1	Puissance laser	—	Placer l'unité de capteur du compteur de puissance optique sur l'optique de lecture.	Court-circuiter la broche d'essai et régler l'opération sur MODE D'ESSAI.	—	0,08 à 0,15 mW L'élément de lecture est OK si le niveau RF est de 1,0 Vc-c (servo OUVERT), 0,5 Vc-c ou plus et le treillis de diffraction est correct avec la puissance mentionnée cidessus.	(a)
2	Gain de focus	DISQUE D'ESSAI TYPE 4 Entrer un signal de 1,0 kHz 0,1 Vrms dans les broches 2-3 de CN3.	Fixer LPF aux broches 2 et 3 de CN3, puis connecter un oscilloscope ou un voltmètre AC.	Enfoncer la touche PLAY.	FOCUS GAIN VR2	Ajuster l'indication des 2 voltmètres à la même valeur.	(b)
3	Gain de suivi	DISQUE D'ESSAI TYPE 4 Entrer un signal de 1,3 kHz 0,1 Vrms dans les broches 5-6 de CN3.	Fixer LPF aux broches 5 et 6 de CN3, puis connecter un oscilloscope ou un voltmètre AC.	Enfoncer la touche PLAY.	TRACKING GAIN VR1	Ajuster l'indication des 2 voltmètres à la même valeur.	(c)

Note: DISQUE D'ESSAI TYPE 4 — SONY YEDS-18 TEST DISC ou équivalent.
LPF — 47 k + 390 ou autre.

(a) Ajustement de la puissance laser



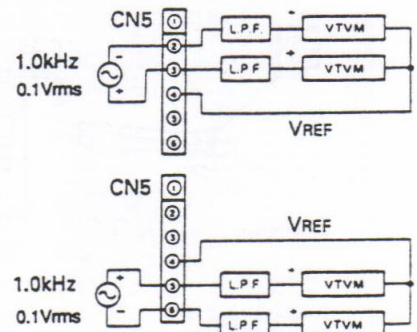
Ajustement de (b) gain de focus et (c) gain de suivi.

GAIN DE FOCUS

Les indications des deux voltmètres AC doivent être identiques.

GAIN DE SUIVI

Les indications des deux voltmètres AC doivent être identiques.

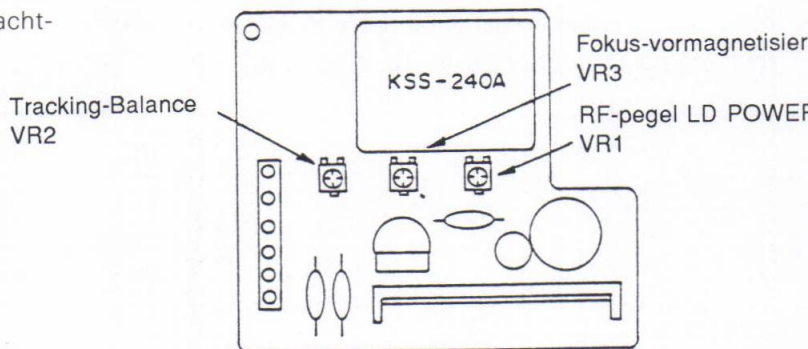


X-B3

ABGLEICH

VORSICHTSMASSREGELN FÜR DIE HANDHABUNG

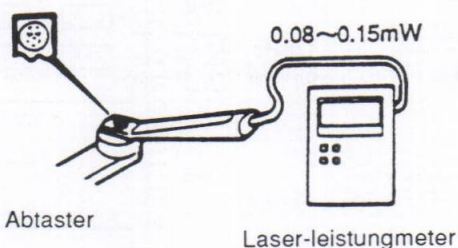
Der Abtaster (KSS-240A) wurde vom Teilehersteller mit hoher Genauigkeit gefertigt und eingestellt. Nicht achtlos zerlegen oder einstellen.



Reihenfolge	Gegenstand	Eingangseinstellung	Ausgangseinstellung	Player-Einstellung	Einstellpunkt	Einstellverfahren	Abb.
1	Laser-Leistung	—	Die Sensoreinheit des Optikleistungsmeters am Abtaster ansetzen.	Den Test-Pin kurzschließen, und den TEST-Modus aktivieren.	—	0,08 bis 0,15 mW Der Abtaster ist in Ordnung, wenn der HF-Pegel 1,0 Vss, TE (Servo OPEN) 0,5 Vss oder mehr beträgt, und das optische Gitter unter der obengenannten Leistung stimmt.	(a)
2	Fokus-Verstärkung	TEST-DISC TYP 4 Pins 2-3 von CN3 1,0-kHz-0,1-Veff-Signal zuführen.	LPF an Pin 2 und 3 von CN3 anbringen, dann ein Oszilloskop oder einen Wechselspannungsmesser anschließen.	Die PLAY-Taste drücken.	FOKUS-VERSTÄRKUNG VR2	Die Anzeige der beiden Spannungsmesser auf denselben Wert einstellen.	(b)
3	Tracking-Verstärkung	TEST-DISC TYP 4 Pins 5-6 von CN3 1,3-kHz-0,1-Veff-Signal zuführen.	LPF an Pin 5 und 6 von CN3 anbringen, dann ein Oszilloskop oder einen Wechselspannungsmesser anschließen.	Die PLAY-Taste drücken.	TRACKING-VERSTÄRKUNG VR1	Die Anzeigen der beiden Spannungsmesser auf denselben Wert einstellen.	(c)

Hinweis: TEST-DISC TYP4 — SONY YEDS-18-TEST-DISC oder gleichwertige.
LPF — 47 k + 390 pF o.ä..

(a) Einstellung der Laser-Leistung



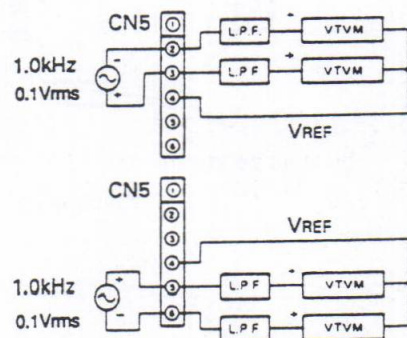
Einstellung von (b) Fokus-Verstärkung und (c) Tracking-Verstärkung.

FOKUS-VERSTÄRKUNG

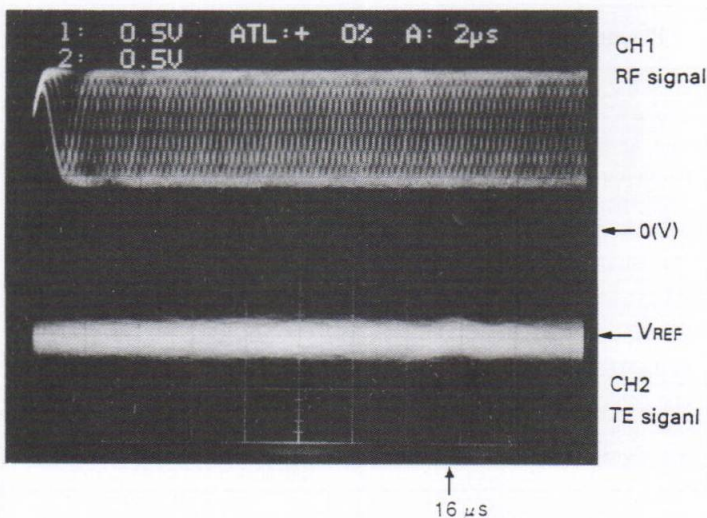
Die beiden Wechselspannungsmesser sollen denselben Wert anzeigen.

TRACKING-VERSTÄRKUNG

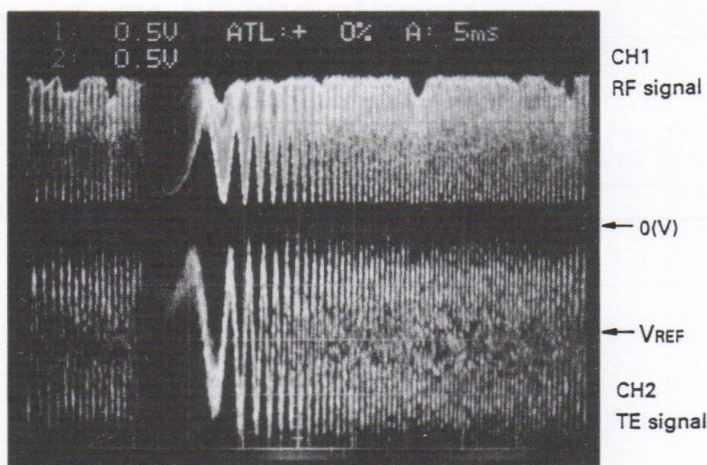
Die beiden Wechselspannungsmesser sollen denselben Wert anzeigen.



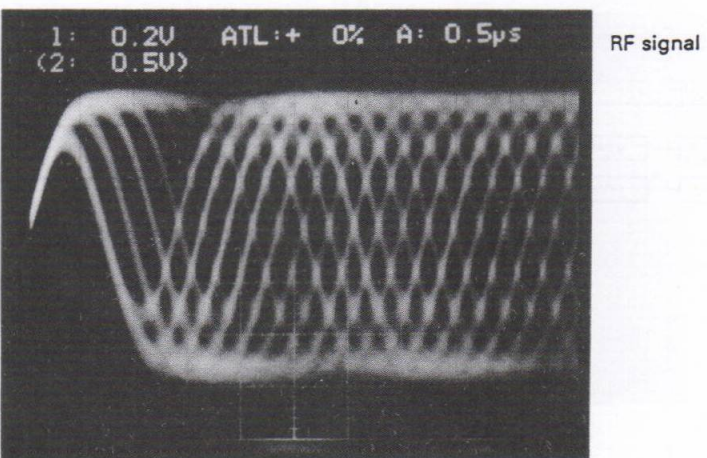
ADJUSTMENT / REGLAGE / ABGLEICH



- RF signal and E. Spot signal during the TEST MODE (PLAY).
- If the diffraction lattice is correctly adjusted, the trigger (projection) of the E. Spot can be recognized approximately 16 micro-seconds after the RF signal.
- Signal RF et signal Spot E. pendant le MODE D'ESSAI (PLAY).
- Si le treillis de diffraction est correctement ajusté, le déclenchement (projection) du Spot E. peut être reconnu environ 16 micro-secondes après le signal RF.
- HF-Signal und E. Spot-Signal während TEST-Modus (PLAY).
- Bei richtiger Einstellung des optischen Gitters kann der Auslöser (Projektion) von E. Spot etwa 16 ms nach dem HF-Signal erkannt werden.



- RF signal and T. Error during the TEST MODE (Focus ON), (TEST DISC TYPE: 4)
- Signal RF et Erreur f pendant le MODE D'ESSAI (Focus ON), (DISQUE D'ESSAI TYPE: 4).
- HF-Signal und T. Error während TEST-Modus (Fokus ON), (TEST-DISC TYP: 4).



- RF signal during TEST MODE (PLAY).
- Signal RF pendant le MODE D'ESSAI (PLAY).
- HF-Signal während TEST-Modus (PLAY).

X-B3

ADJUSTMENT

CD PLAYER (X-MB3)

Magazine pack is required when carrying out the adjustments In the test mode

Order	Item	Input setting	output setting	Player setting	Adjustment point	Adjustment method	Fig.
1	Tracking error balance	TEST DISC TYPE 4	CH1: RF Check terminals (CH3-1) CH2: TE Connect oscilloscope with check terminals (CH3-6)	Load the disk in the tray #6 of the magazine, ad then switch the operation to the TEST mode. (Press the RND key). Make sure that the display shows 03.	TE-BALANCE VR2	Symmetric in the vertical direction or DC = 0 ± 0.05 V	(a)
2	Focus error balance	TEST DISC TYPE 4	CH1: RF Check terminals (CH3-1) CH2: TE Connect oscilloscope with check terminals (CH3-6)	Switch the operation to the TEST mode, and push the PLAY key. Make sure that the display shows 05..	FE-BALANCE VR1	Best eye pattern The pick-up is OK when the RF level is 1.0 Vp-p, the TE (with servo OFF) is 1.5 Vp-p or more, and the diffraction lattice is correct.	(b)
3	Focus gain	TEST DISC TYPE 4 Enter 1.0 kHz 0.1 Vrms signal in pins 2-3 of CN3	Attach LPF to pins 2 and 3 of CN3, and then connect an oscilloscope or AC voltmeter.	Switch the operation to the TEST mode, and push the PLAY key. Make sure that the display shows 05.	FOCUS GAIN VR3	Adjust the readings of the 2 voltmeters to the same value.	(c)
4	Tracking gain	TEST DISC TYPE 4 Enter 1.3 kHz 0.1 Vrms signal in pins 5-6 of CN3.	Attach LPF to pins 5 and 6 of CN3, and then connect an oscilloscope or AC voltmeter.	Switch the operation to the TREST mode, and push the PLAY key. Make sure that the display shows 05.	TRACKING GAIN VR4	Adjust the readings of the 2 voltmeters to the same value.	(c)

X-MB3

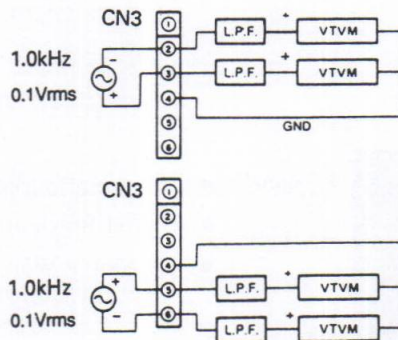
(c) Adjustment of focus gain and tracking gain.

FOCUS GAIN

The readings of the two AC voltmeters should be the same.

TRACKING GAIN

The readings of the two AC voltmeters should be the same.



REGLAGE

Le pack magasin est requis pour effectuer les ajustements dans le mode d'essai.

Ordre	Sujet	Réglage d'entrée	Réglage de sortie	Réglage de platine	Point d'ajustement	Méthode d'ajustement	Fig.
1	Equilibre d'erreur de suivi	DISQUE D'ESSAI TYPE 4	CH1: RF Vérifier les bornes (CH3-1) CH2: TE Connecter l'oscilloscope avec les bornes de contrôle (CH3-6)	Charger le disque sur le plateau #6 du magasin, puis passer dans le mode d'ESSAI. (Appuyer sur la touche RND). S'assurer que l'affichage indique 03.	TE-BALANCE VR2	Symétrique dans le sens vertical ou DC = 0 ± 0.05 V	(a)
2	Equilibre d'erreur de focus	DISQUE D'ESSAI TYPE 4	CH1: RF Vérifier les bornes (CH3-1) CH2: TE Connecter l'oscilloscope avec les bornes de contrôle (CH3-6)	Changer l'opération dans le mode d'ESSAI et appuyer sur la touche PLAY. S'assurer que l'affichage indique 05.	FE-BALANCE VR1	Meilleur motif à l'œil La lecture est OK lorsque le niveau RF est de 1,0 Vc-c le TE (avec servo OFF) est de 1,5 Vc-c ou plus, et le treillis de diffraction est correct.	(b)
3	Gain de focus	DISQUE D'ESSAI TYPE 4 Entrer un signal de 1,0 kHz 0,1 Vrms dans les broches 2, 3 de CN3	Attacher LPF aux broches 2 et 3 de CN3, puis connecter un oscilloscope ou un voltmètre AC.	Changer l'opération dans le mode d'ESSAI et appuyer sur la touche PLAY. S'assurer que l'affichage indique 05.	GAIN DE FOCUS VR3	Ajuster les indications des 2 voltmètres à la même valeur.	(c)
4	Gain de suivi	DISQUE D'ESSAI TYPE 4 Entrer un signal de 1,3 kHz 0,1 Vrms dans les broches 5, 6 de CN3.	Attacher LPF aux broches 5 et 6 de CN3, puis connecter un oscilloscope ou un voltmètre AC.	Changer l'opération dans le mode d'ESSAI et appuyer sur la touche PLAY. S'assurer que l'affichage indique 05.	GAIN DE SUIVI VR4	Ajuster les indications des 2 voltmètres à la même valeur.	(c)

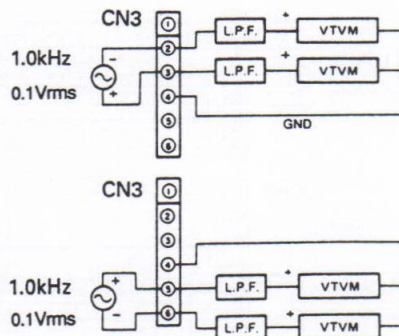
(c) Ajustement du gain de focus et du gain de suivi.

GAIN DE FOCUS

Les indications des deux voltmètres AC doivent être identiques.

GAIN DE SUIVI

Les indications des deux voltmètres AC doivent être identiques.



ABGLEICH

Für Einstellungen im Test-Modus ist Magazin-Pack erforderlich

Reihenfolge	Gegenstand	Eingangseinstellung	Ausgangseinstellung	Player-Einstellung	Einstellpunkt	Einstellverfahren	Abb.
1	Tracking-Fehler-Balance	TEST-DISC TYP 4	CH1: RF Prüfkontakte (CH3-1) CH2: TE Oszilloskop an Prüfkontakte (CH3-6) anschließen	Disc in Fach Nr. 6 des Magazins einsetzen, dann den TEST-Modus aktivieren. (Die RND-Taste drücken). Im Display muß 03 erscheinen.	TE-BALANCE VR2	Symmetrisch in senkrechter Richtung oder $DC = 0 \pm 0.05$ V	(a)
2	Fokus-Fehler-Balance	TEST-DISC TYP 4	CH1: HF Prüfkontakte (CH3-1) CH2: TE Oszilloskop an Prüfkontakte (CH3-6) anschließen	TEST-Modus aktivieren, und die PLAY-Taste drücken. Im Display muß 05 erscheinen.	FE-BALANCE VR1	Bestes Augendiagramm Der Abtaster ist in Ordnung, wenn der HF-PEgel 1,0 Vss, TE (mit Servo OFF) 1,5 Vss oder kmehr beträgt, und das optische Gitter stimmt.	(b)
3	Fokus-Verstärkung	TEST-DISC TYP 4 Enter 1.0 kHz Pins 2-3 von CN3 1,0-kHz-0,1-Veff-Signal zuführen	LPF an Pin 2 und 3 von CN3 anbringen, dann ein Oszilloskop oder einen Wechselspannungsmesser anschließen.	TEST-Modus aktivieren, und die PLAY-Taste drücken. Im Display muß 05 erscheinen.	FOKUS-VERSTÄRKUNG VR3	Die Anzeigen der beiden Spannungsmesser auf denselben Wert einstellen.	(c)
4	Tracking-Verstärkung	TEST-DISC TYP 4 Pins 5-6 von CN3 1,3-kHz-0,1-Veff-Signal zuführen.	LPF an Pins 5 und 6 von CN3 anbringen, dann ein Oszilloskop oder einen Wechselspannungsmesser anschließen.	TEST-Modus aktivieren, und die PLAY-Taste drücken. Im Display muß 0.5 erscheinen.	TRACKING-VERSTÄRKUNG VR4	Die Anzeigen der beiden Spannungsmesser auf denselben Wert einstellen.	(c)

X-MB3

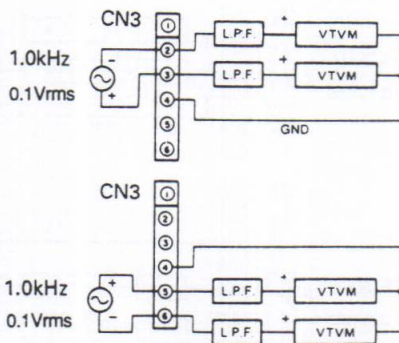
(c) Einstellung von Fokus-Verstärkung und Tracking-Verstärkung.

FOKUS-VERSTÄRKUNG

Die beiden Wechselspannungsmesser sollen denselben Wert anzeigen.

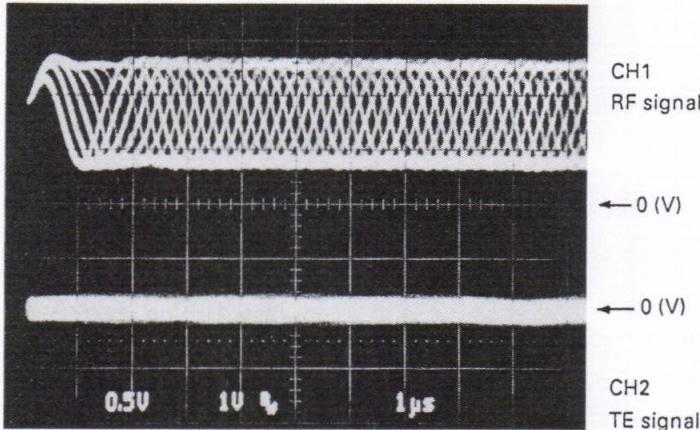
TRACKING-VERSTÄRKUNG

Die beiden Wechselspannungsmesser sollen denselben Wert anzeigen.



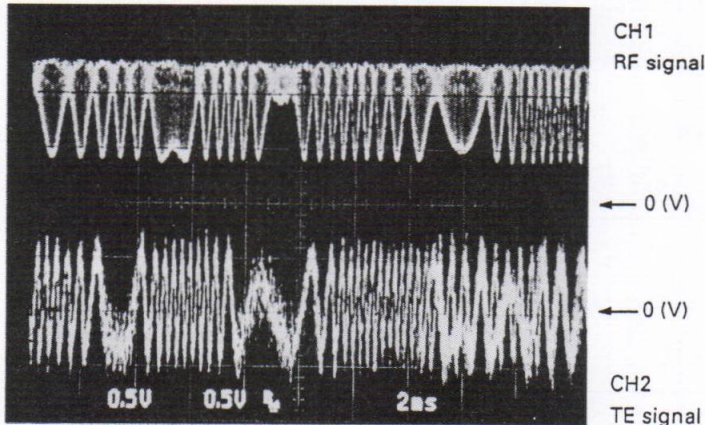
ADJUSTMENT / REGLAGE / ABGLEICH

(b) RF LEVEL, WAVE



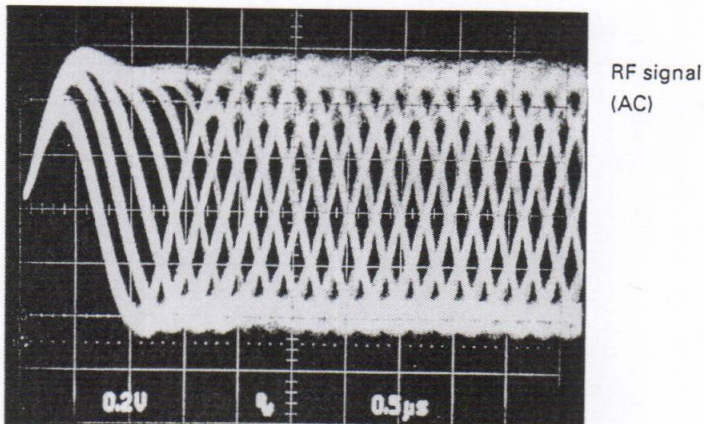
- RF signal and TE signal during test mode (RF).
- Signal RF et signal TE pendant le mode d'essai (RF).
- HF-Signal und TE-Signal während Test-Modus (HF).

(a) Tracking Error balance



- RF signal and T. Error signal during test mode (Focus ON) (TEST DISC TYPE: 4)
- Adjust T. Error so as to become symmetric with regard to 0 V. VR2 (Tracking error balance).
- Signal RF et signal d'erreur T. pendant le mode d'essai (Focus ON) (DISQUE D'ESSAI TYPE 4)
- Ajuster l'erreur T. pour qu'elle devienne symétrique par rapport à 0 V. VR2 (d'équilibre d'erreur de suivi).
- HF-Signal und T. Error-Signal während Test-Modus (Fokus ON) (TEST-DISC TYP: 4)
- T. Error so einstellen, daß er symmetrisch wird bezüglich 0 V. VR2 (Tracking-Fehler-Balance).

(b) Focus Error balance



- RF signal during test mode.
- Make the adjustments for the various crosspoints at the center to become single points, and for the cross of the bright line to become clearly defined at both upper and lower sides.
- Signal RF pendant le mode d'essai (RF).
- Effectuer les ajustements pour que les divers points de croisement au centre deviennent des points uniques et pour que le croisement de la ligne de luminosité devienne clairement défini aux deux côtés supérieur et inférieur.
- HF-Signal während Test-Modus.
- Die Einstellungen für die verschiedenen Kreuzpunkte in der Mitte so vornehmen, daß sie Einzelpunkte werden, und für die Kreuzung der hellen Linie so, daß sie sowohl an der POber- als auch an der Unterseite klar definiert ist.

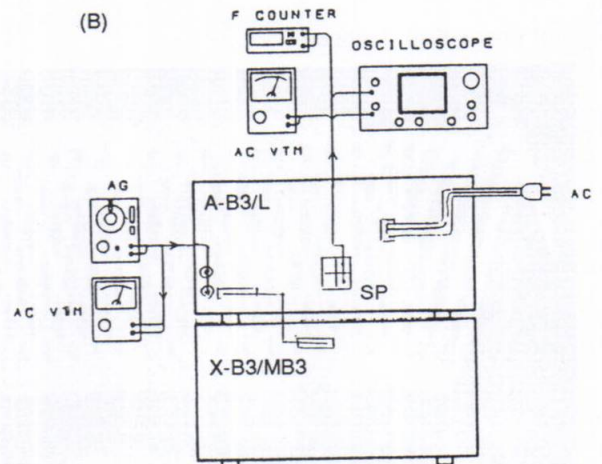
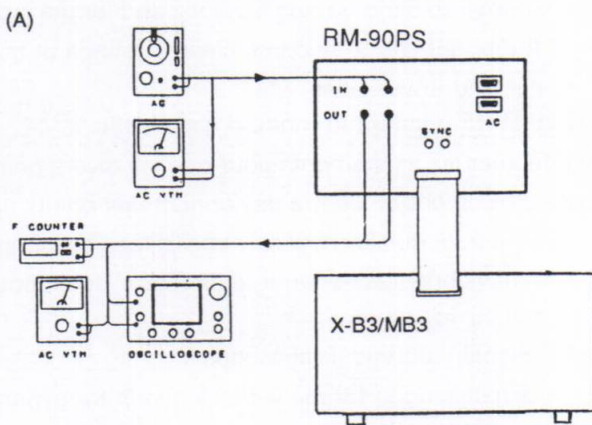
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ADJUSTMENT

CASSETTE DECK

Order	ITEM	Input setting	output setting	Cassette Deck setting	Adjustment point	Adjustment method	FIG.
Unless otherwise specified, set the respective switches as follows: TAPE: NORMAL DOLBY: OFF Cassette mechanism unit (REC/PLAY head adjustment)							
(1)	Degaussing and cleaning	—	—	POWER: OFF Degaussing Cleaning PLAY	REC head Erasing head Capstan Pinch roller	Degauss the REC/PLAY head, Clean the REC/PLAY head, erasing head, capstan and pinoh roller with a cotton swab moistened with alcohol.	
(2)	Azimuth of the REC/PLAY head	SCC-1727 TCC-153 MTT-114 10 kHz, -10 dB	(A), (B)	PLAY	FWD RVS	Make the adjustments to obtain mazimum output, and then adjust the azimuth adjustment screw for the Lissajour's figure on the oscilloscope screen to become a 45° straight line.	
Adjustment of the printed circuit board I1. NOTE: Make sure of carrying out the double speed adjustment in the first place.							
(1)	Tape speed (Double speed)	TCC-110 MTT-111	(A), (B)	*TEST MODE	VR7: (A) VR1: (B)	Adjust so that frequency is 6 kHz at tape center.	
(2)	Tape speed (Normal)	SCC-127 3 kHz			VR8: (A) VCR2: (B)		
* TP FWD KEY: NORMAL SPEED FF KEY: HI SPEED Adjustment of the printed circuit board III							
(1)	Playback level	MTT-150 400 Hz	(A), (B)	PLAY	B, DECK VR5 (L) VR6 (R)	Adjust the playback output to -1 dBs	
		MTT-256, SCC-1727 315 Hz				Adjust the playback output to -4 dBs	
		MTT-256U, TCC-160 315 Hz				Adjust the playback output to 0 dBs	
(2)	Bias current	Press the CLRS key for 3 seconds or more, and set the VR to the -15 dB position. Adjust AG for the DECK output to become 1 kHz -30 dBs.	(A), (B)	REC PLAY	B, DECK VR5 (L) VR6 (R)	Record 1kHz and 10 kHz alternately, and adjust the bias current adjustment potentiometer for the playback level to become the same.	
(3)	REC level	↑ 1 kHz, -30 dBs	↑	↑	VR (L) VR (R)	-30 dBs	

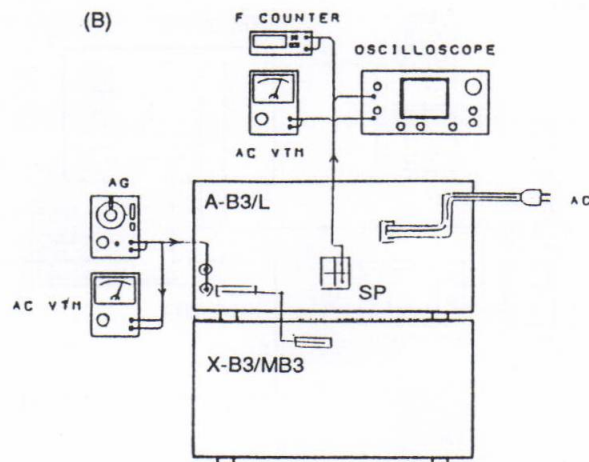
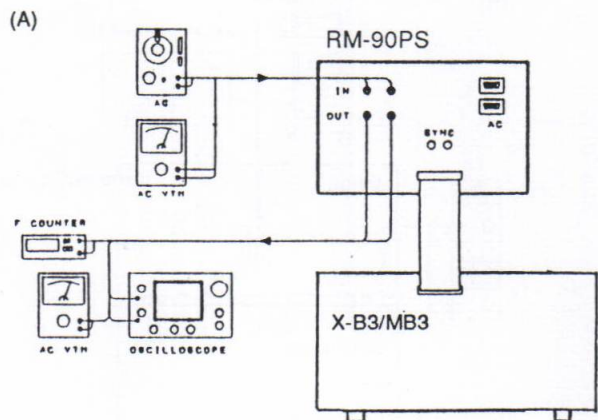
X-MB3



REGLAGE

Ordre	Sujet	Réglage d'entrée	Réglage de sortie	Réglage du Cassette	Point d'ajustement	Méthode d'ajustement	FIG.
A moins que cela ne soit contrairement spécifié, régler les commutateurs respectifs comme suit: TAPE: NORMAL DOLBY: OFF Unité de mécanisme de cassette: (Ajustement de tête REC/PLAY)							
(1)	Démagnétisation et nettoyage	—	—	POWER: OFF Démagnétisation nettoyage PLAY	Tête REC Tête d'effacement Cabestan Galet presseur	Démagnétiser la tête REC/PLAY, nettoyer la tête REC/PLAY, la tête d'effacement, le cabestan et le galet presseur avec un coton-tige humidifié dans de l'alcool.	
(2)	Azimet de la tête REC/PLAY	SCC-1727 TCC-153 MTT-114 10 kHz, -10 dB	(A), (B)	PLAY	FWD RVS	Effectuer les ajustements pour obtenir la sortie d'azimet, puis ajuster la vis de réglage d'azimet pour que la figure Lissajour sur l'écran de l'oscilloscope devienne une ligne droite à 45°.	
Ajustement de la carte de circuit imprimé. II NOTE: Toujours commencer par effectuer l'ajustement de vitesse double.							
(1)	Vitesse de bande (Vitesse double)	TCC-110 MTT-111 SCC-127 3 kHz	(A), (B)	*MODE D'ESSAI	VR7: (A) VR1: (B)	Ajuster de sorte que la fréquence soit de 6 kHz au centre de la bande.	
(2)	Vitesse de bande (Normale)				VR8: (A) VCR2: (B)	Ajuster de sorte que la fréquence soit de 6 kHz au centre de la bande.	
* TP FWD-TASTE: NORMALE GESCHWINDIGKEIT FF-TASTE: SCHNELL Ajustement de la carte de circuit imprimé. III							
(1)	Niveau de lecture	MTT-150 400 Hz	(A), (B)	PLAY	B, DECK VR5 (L) VR6 (R)	Ajuster la sortie de lecture à -1 dBs	
		MTT-256, SCC-1727 315 Hz				Ajuster la sortie de lecture à -4 dBs	
		MTT-256U, TCC-160 315 Hz				Ajuster la sortie de lecture à 0 dBs	
(2)	Courant de polarisation	Appuyer sur la touche CLRS pendant 3 secondes ou plus et régler le VR sur la position -15 dB. Ajuster AG pour que la sortie DECK atteigne 1 kHz -30 dBs.	(A), (B)	REC PLAY	B, DECK VR5 (L) VR6 (R)	Enregistrer 1 kHz et 10 kHz, alternativement, et ajuster le potentiomètre de réglage de courant de polarisation pour que le niveau de lecture devienne la même chose.	
(3)	Niveau REC	↑ 1 kHz, -30 dBs	↑	↑	VR (L) VR (R)	-30 dBs	

X-MB3

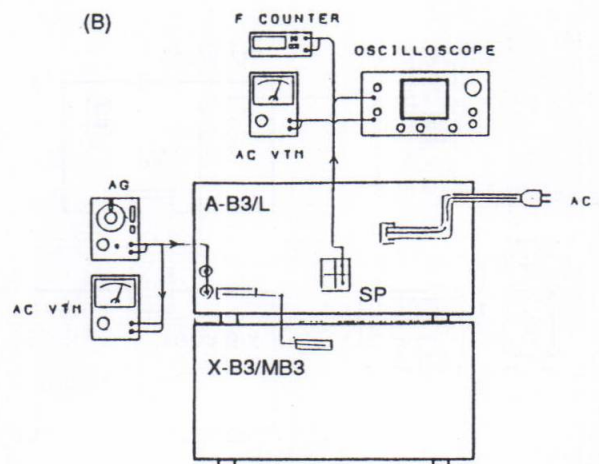
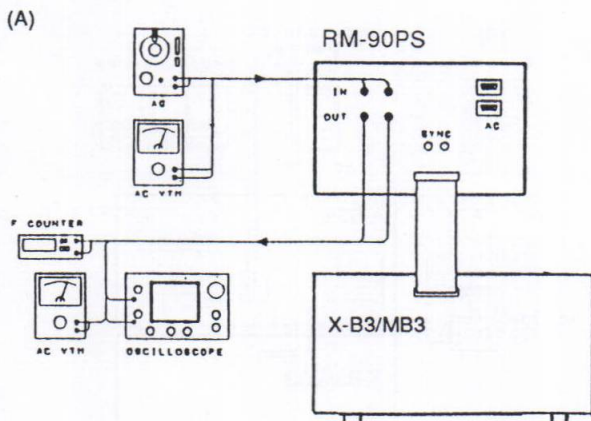


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ABGLEICH

Reihenfolge	GEGENSTAND	Eingangseinstellung	Ausgangseinstellung	Cassettendeck-Einstellung	Einstellpunkt	Einstellverfahren	ABB
Sofern nicht andersweitig angegeben, die entsprechenden Schalter wie folgt einstellen: TAPE: NORMAL DOLBY: OFF Cassettenlaufwerk (REC/PLAY-Kopf-Einstellung)							
(1)	Entmagnetisierung und Reinigung	—	—	POWER: OFF Entmagnetisierung Reinigung PLAY	REC-Kopf Löschkopf Tonwelle Andruckrolle	REC/PLAY-Kopf entmagnetisieren; REC/PLAY-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem mit Alkohol angefeuchteten Wattestäbchen reinigen.	
(2)	Azimuth des REC/PLAY-Kopfes	SCC-1727 TCC-153 MTT-114 10 kHz, -10 dB	(A), (B)	PLAY	FWD RVS	Zuerst auf maximalen Ausgang einstellen, dann die Azimuth-Einstellschraube so justieren, daß die Lissajousfigur am Oszilloskop eine Gerade mit 45° wird.	
Einstellung der Leiterplatte II. HINWEIS: Die Doppelgeschwindigkeitseinstellung unbedingt zuerst vornehmen.							
(1)	Bandgeschwindigkeit (Doppelgeschwindigkeit)	TCC-110 MTT-111 SCC-127 3 kHz	(A), (B)	*TEST MODE	VR7: (A) VR1: (B)	So einstellen, daß die Frequenz in der Bandmitte 6 kHz beträgt.	
(2)	Bandgeschwindigkeit (Normal)				VR8: (A) VCR2: (B)	So einstellen, daß die Frequenz in der Bandmitte 6 kHz beträgt.	
* TP FWD-TASTE: NORMALE GESCHWINDIGKEIT FF-TASTE: SCHNELL							
Einstellung der Leiterplatte III							
(1)	Wiedergabepegel	MTT-150 400 Hz MTT-256, SCC-1727 315 Hz MTT-256U, TCC-160 315 Hz	(A), (B)	PLAY	B, DECK VR5 (L) VR6 (R)	Den Wiedergabeausgang auf -1 dBs einstellen Den Wiedergabeausgang auf -1 dBs einstellen Den Wiedergabeausgang auf 0 dBs einstellen	
(2)	Vormagnetisierungsstrom	Die CLRS-Taste 3 Sekunden oder länger drücken, und VR auf -15 dB einstellen. AG so einstellen, daß der DECK-AUsgang 1 kHz -30 dBs wird.	(A), (B)	REC PLAY	B, DECK VR5 (L) VR6 (R)	Abwechselnd 1 kHz und 10 kHz aufzeichnen, und das Vormagnetisierungsstrom-Einstellpotentiometer so einstellen, daß derselbe Wiedergabepegel erhalten wird.	
(3)	REC-Pegel	↑ 1 kHz, -30 dBs	↑	↑	VR (L) VR (R)	-30 dBs	

X-MB3

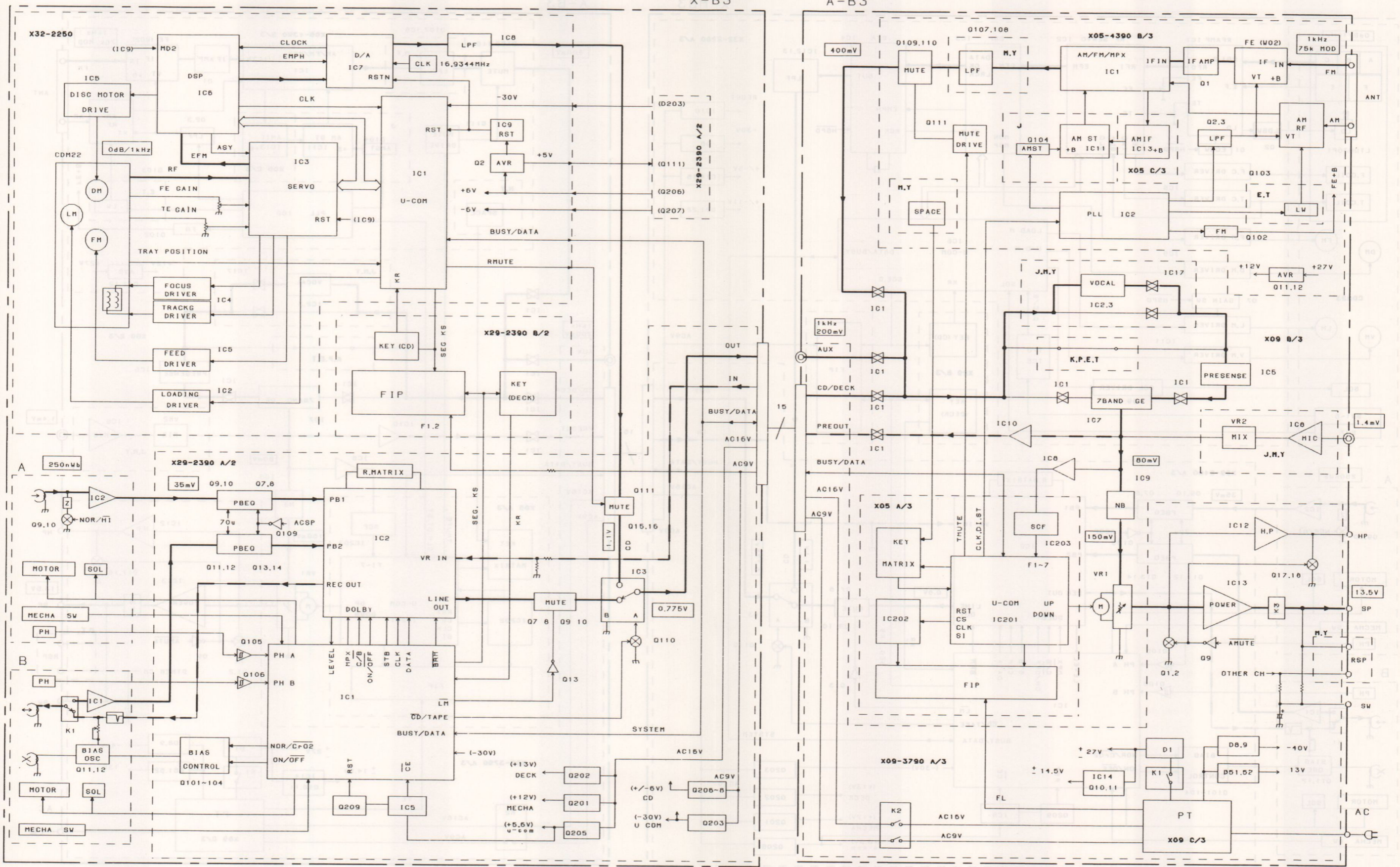


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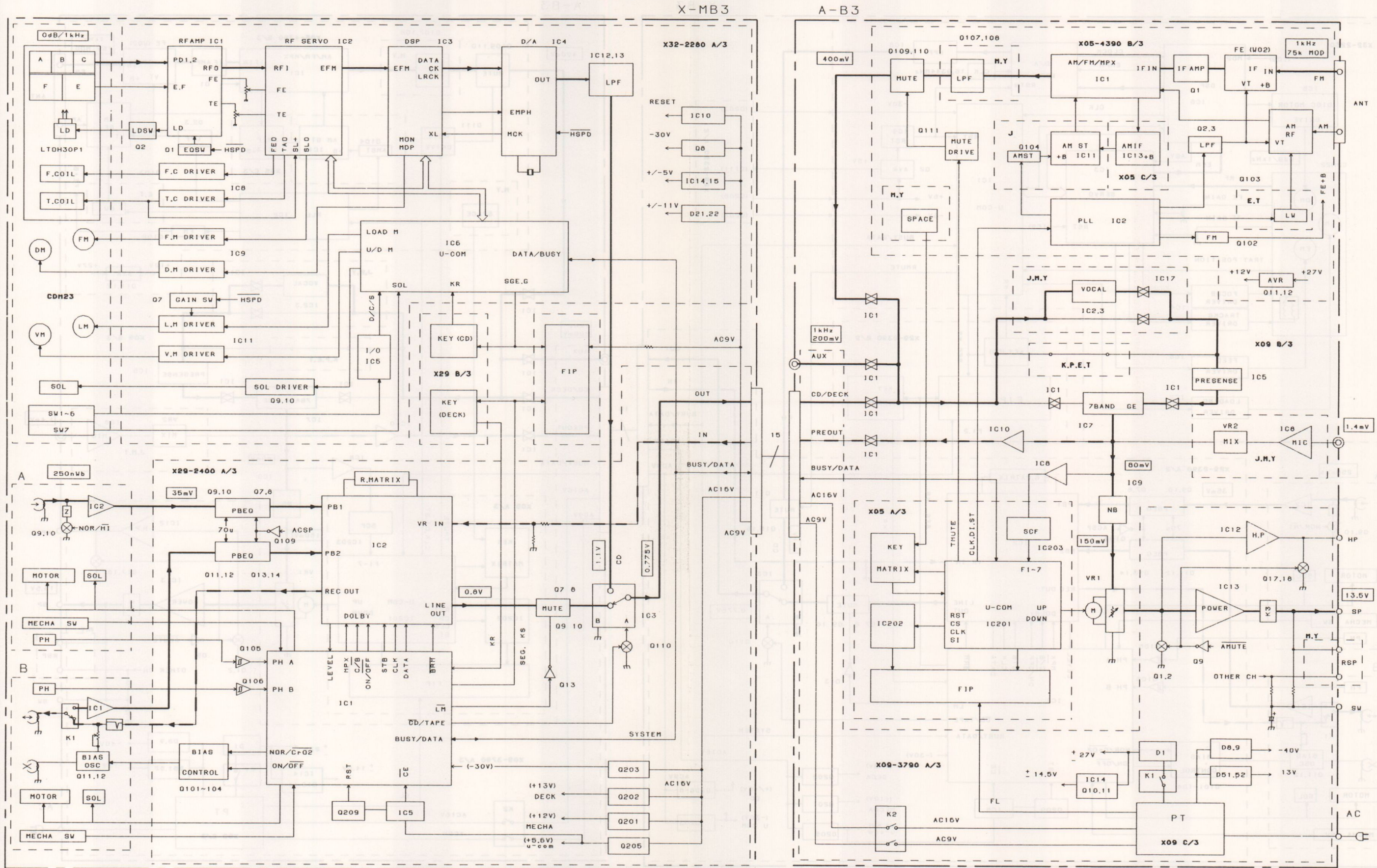
BLOCK DIAGRAM

X-B3

A-B3



UD-301/351 UD-301/351 BLOCK DIAGRAM

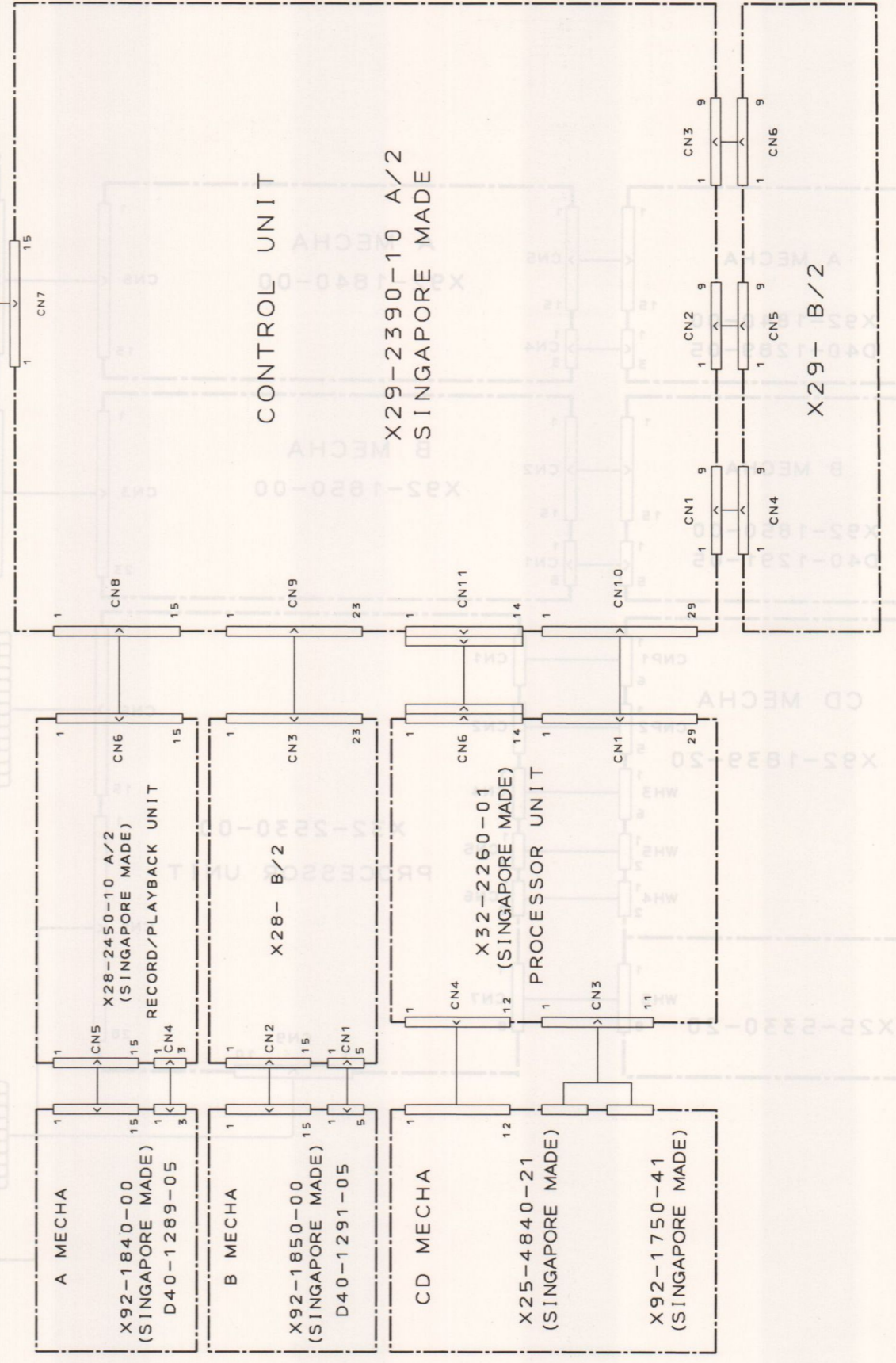
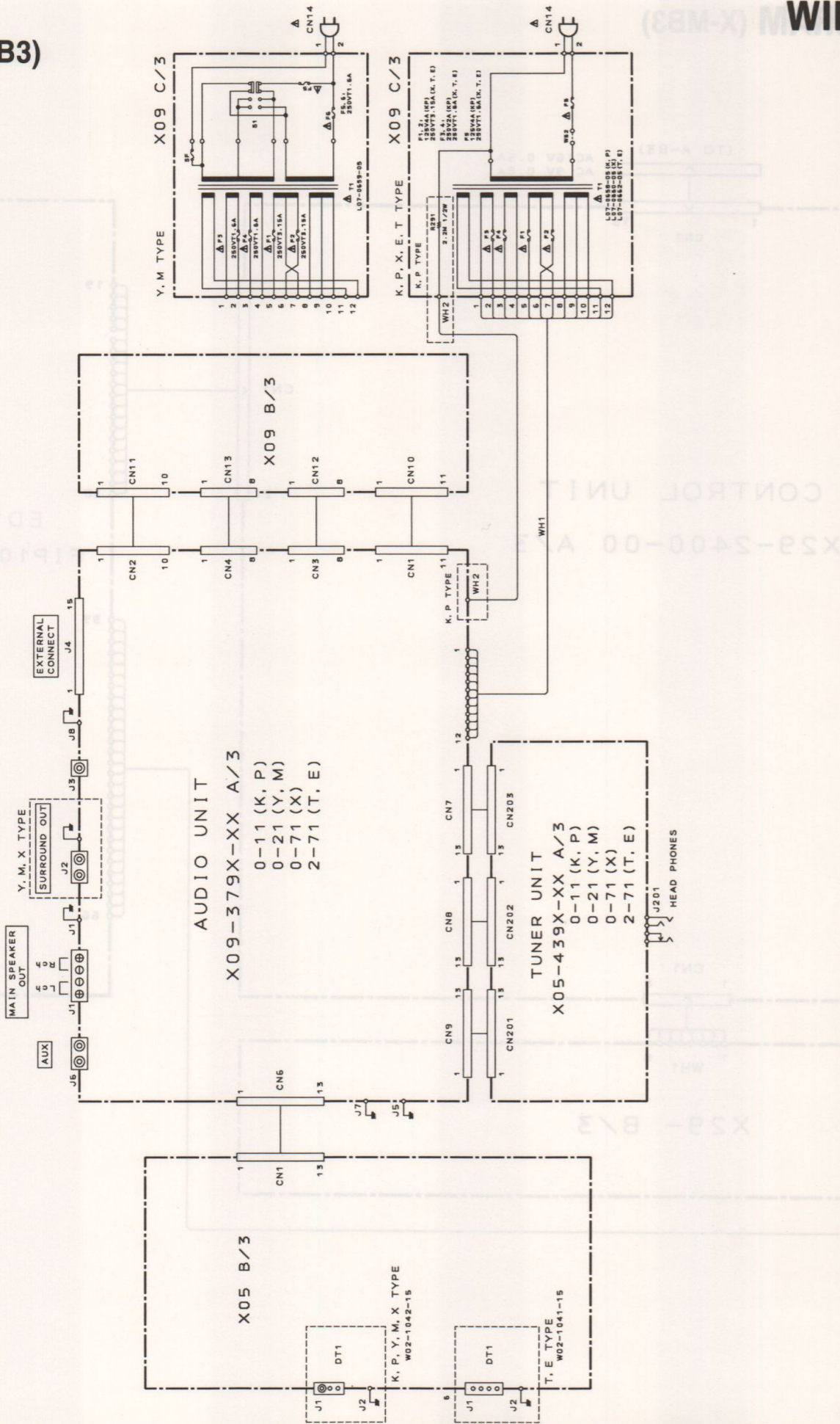


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WIRING DIAGRAM

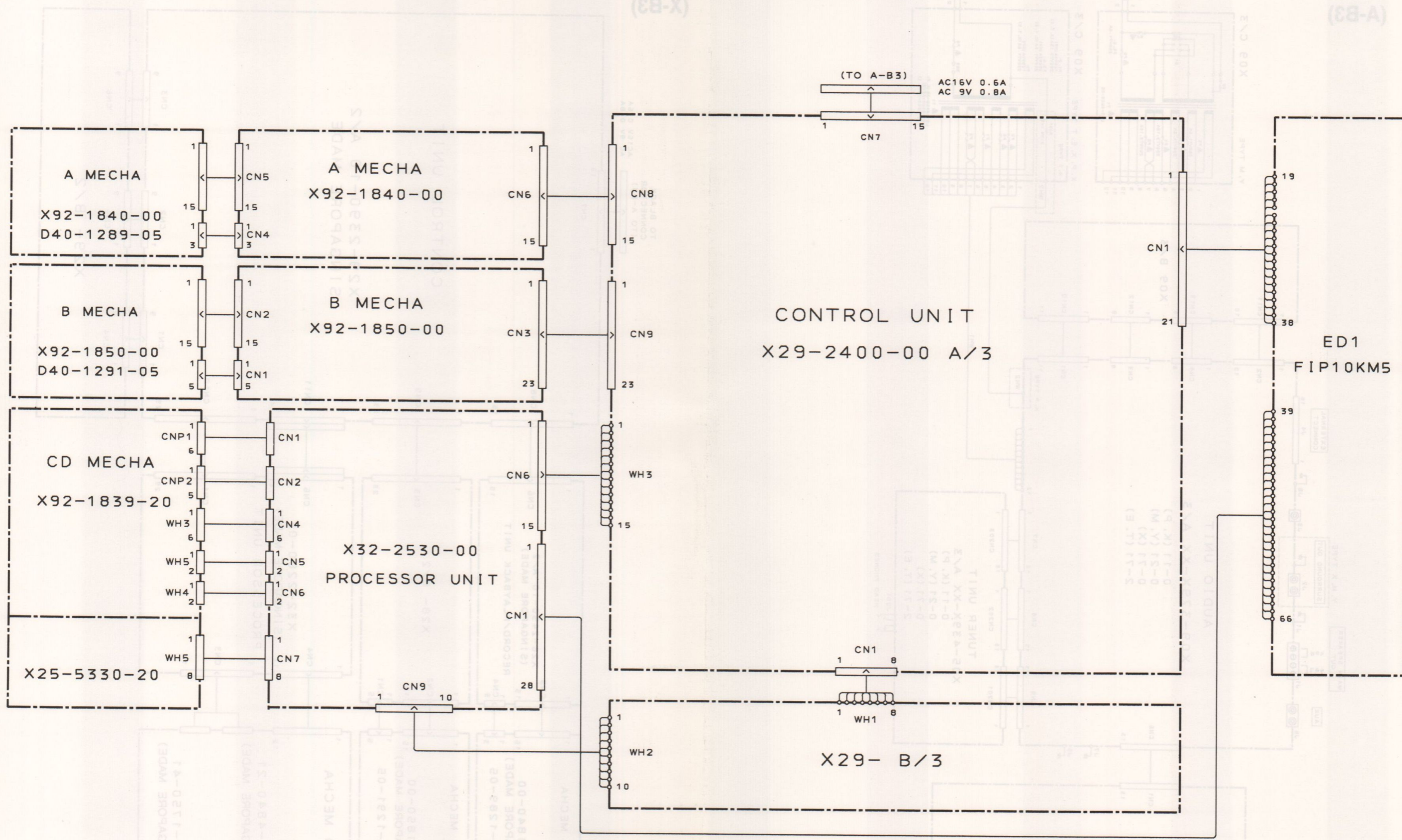
(A-B3)

(X-B3)



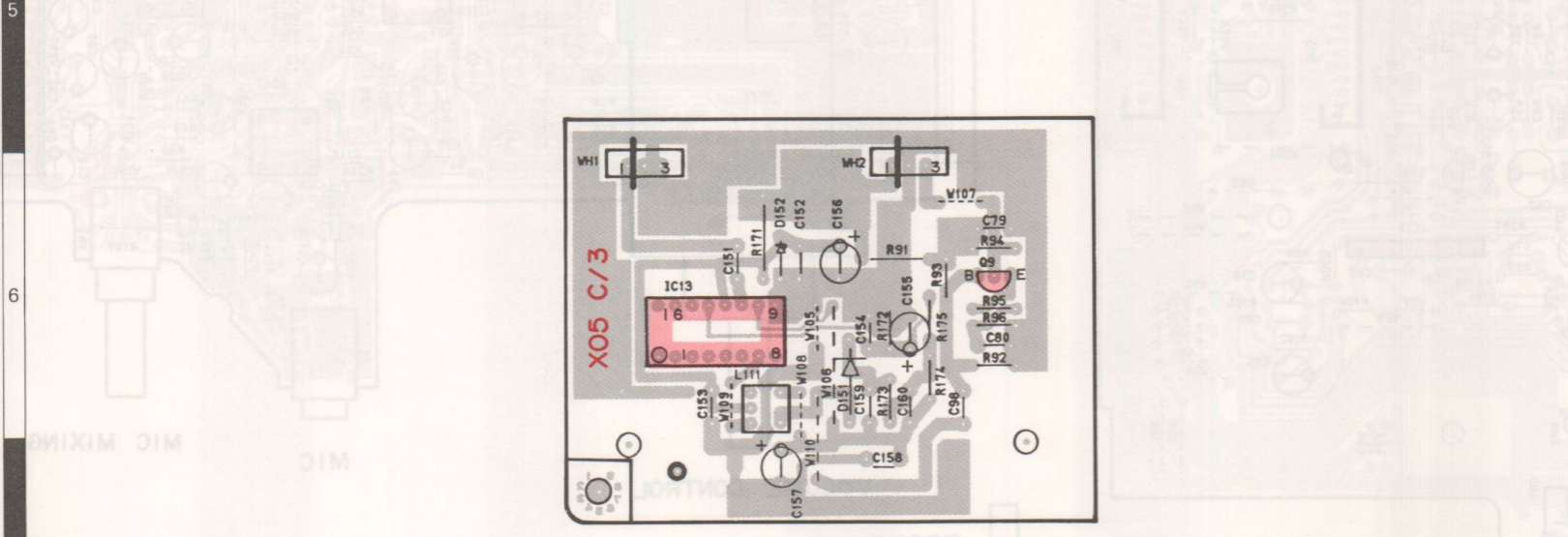
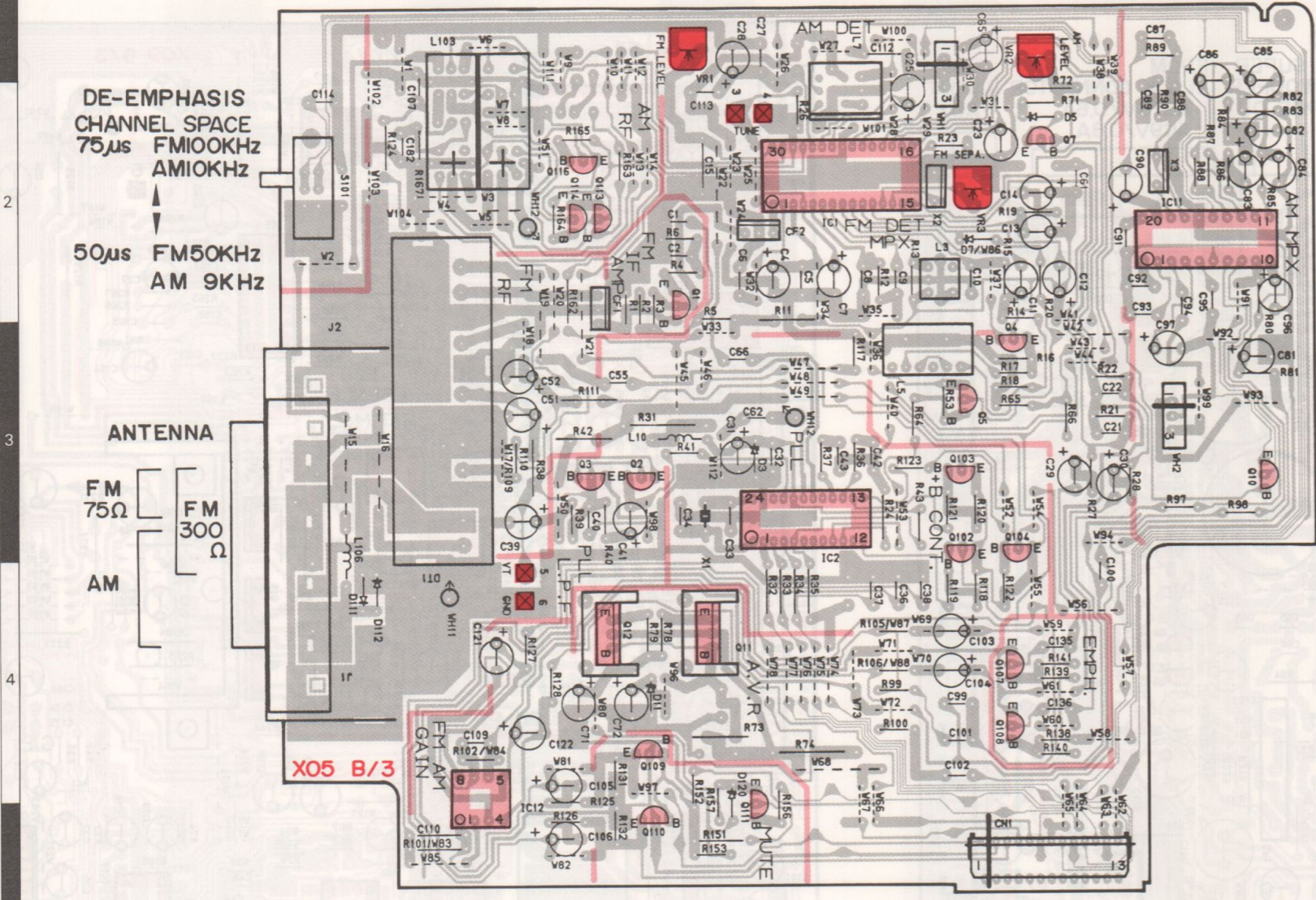
UD-301/351 UD-301/351

WIRING DIAGRAM (X-MB3)

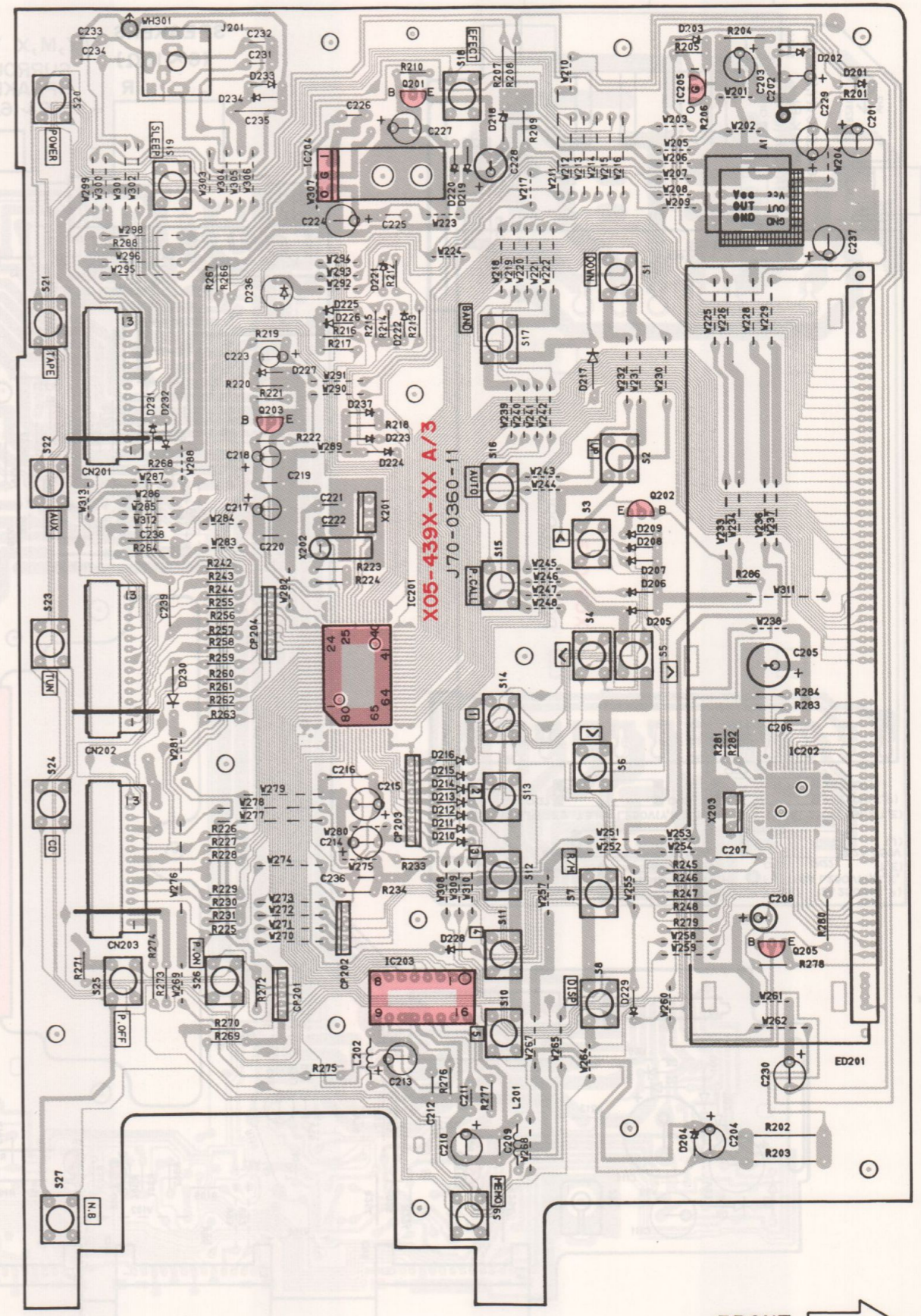


PC BOARD (Component side view) TUNER UNIT (X05-4390-11:K,P ; 0-21:Y,M ; 0-71:X ; 2-71:T,E)

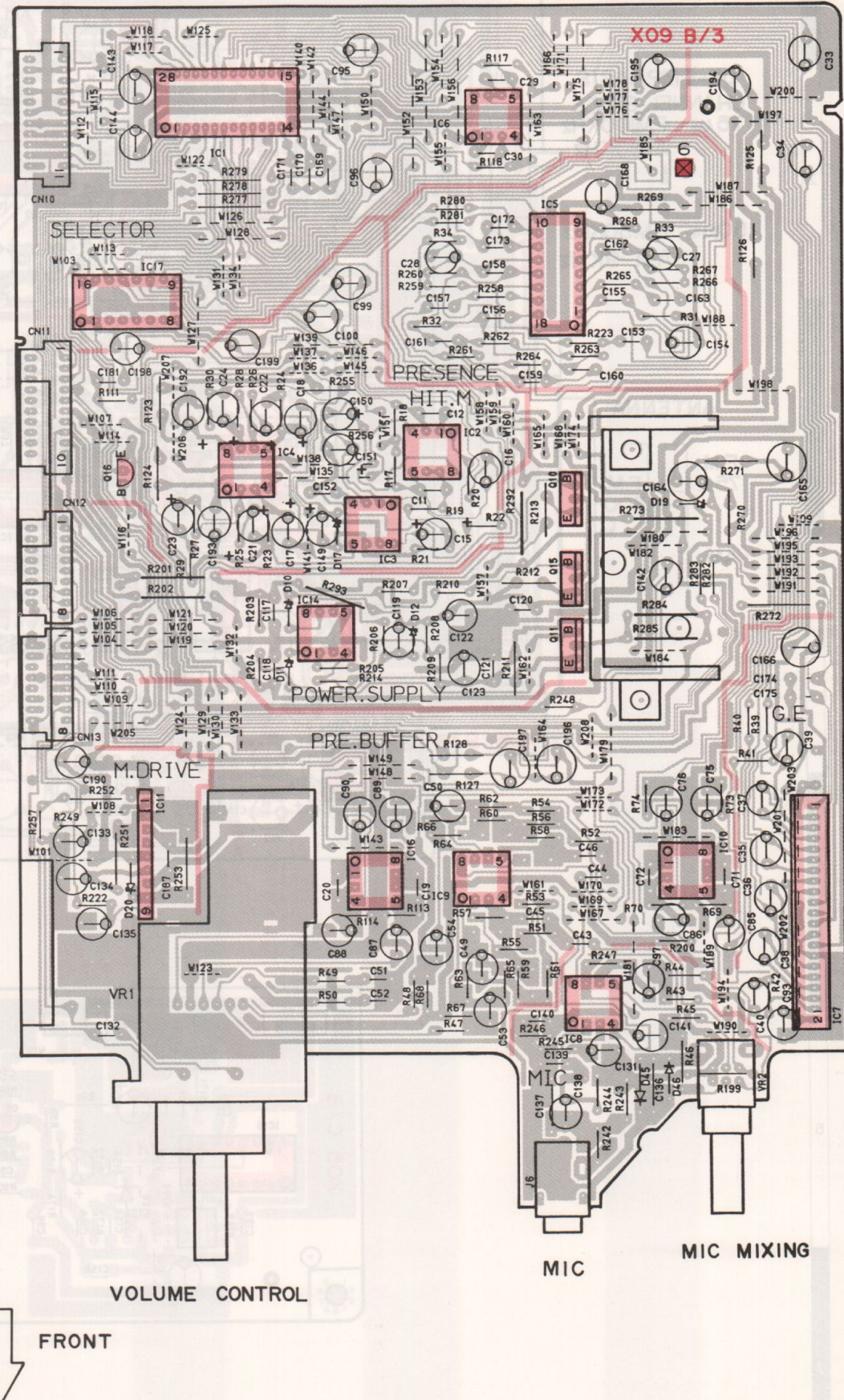
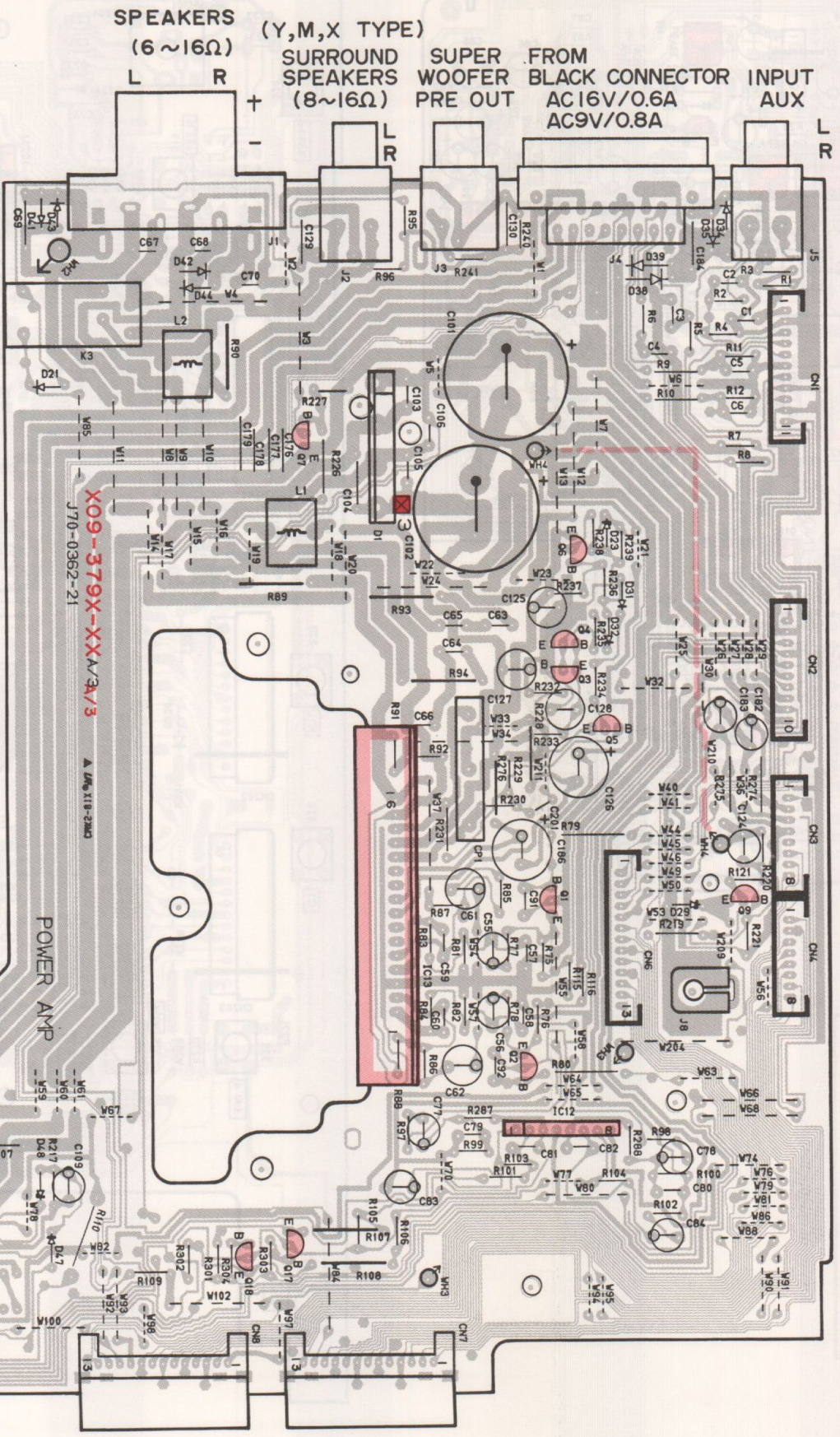
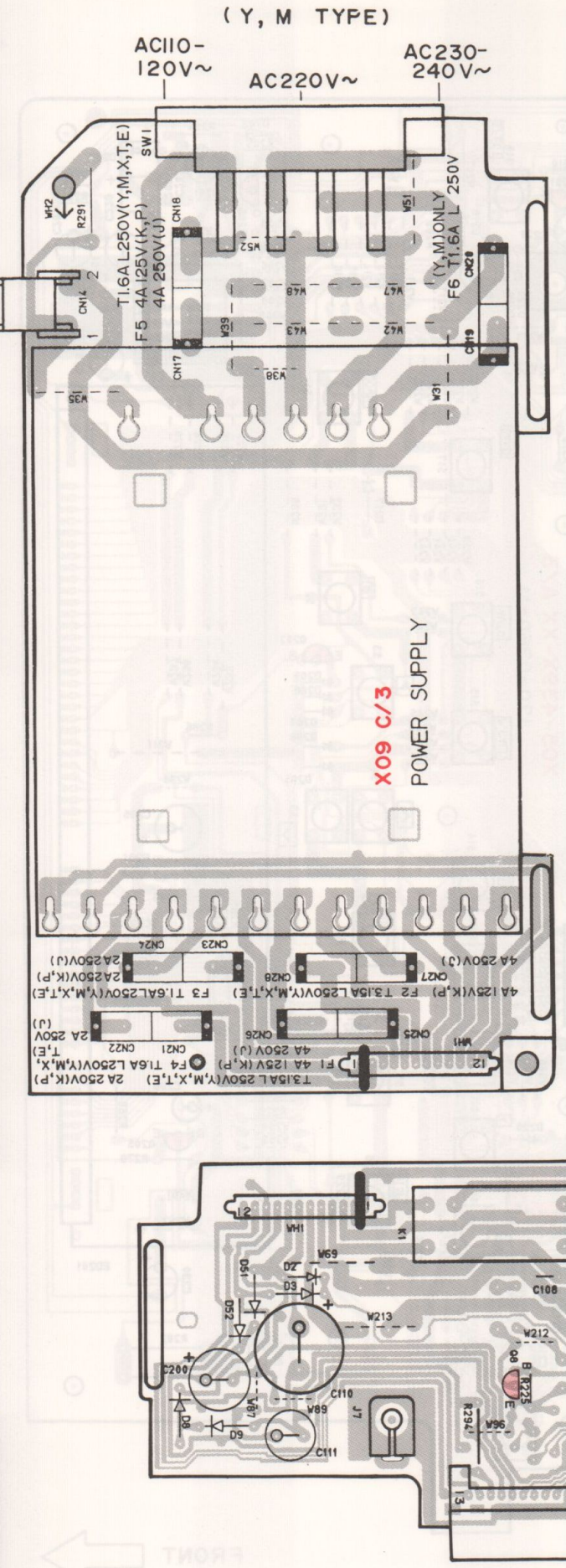
A-B3

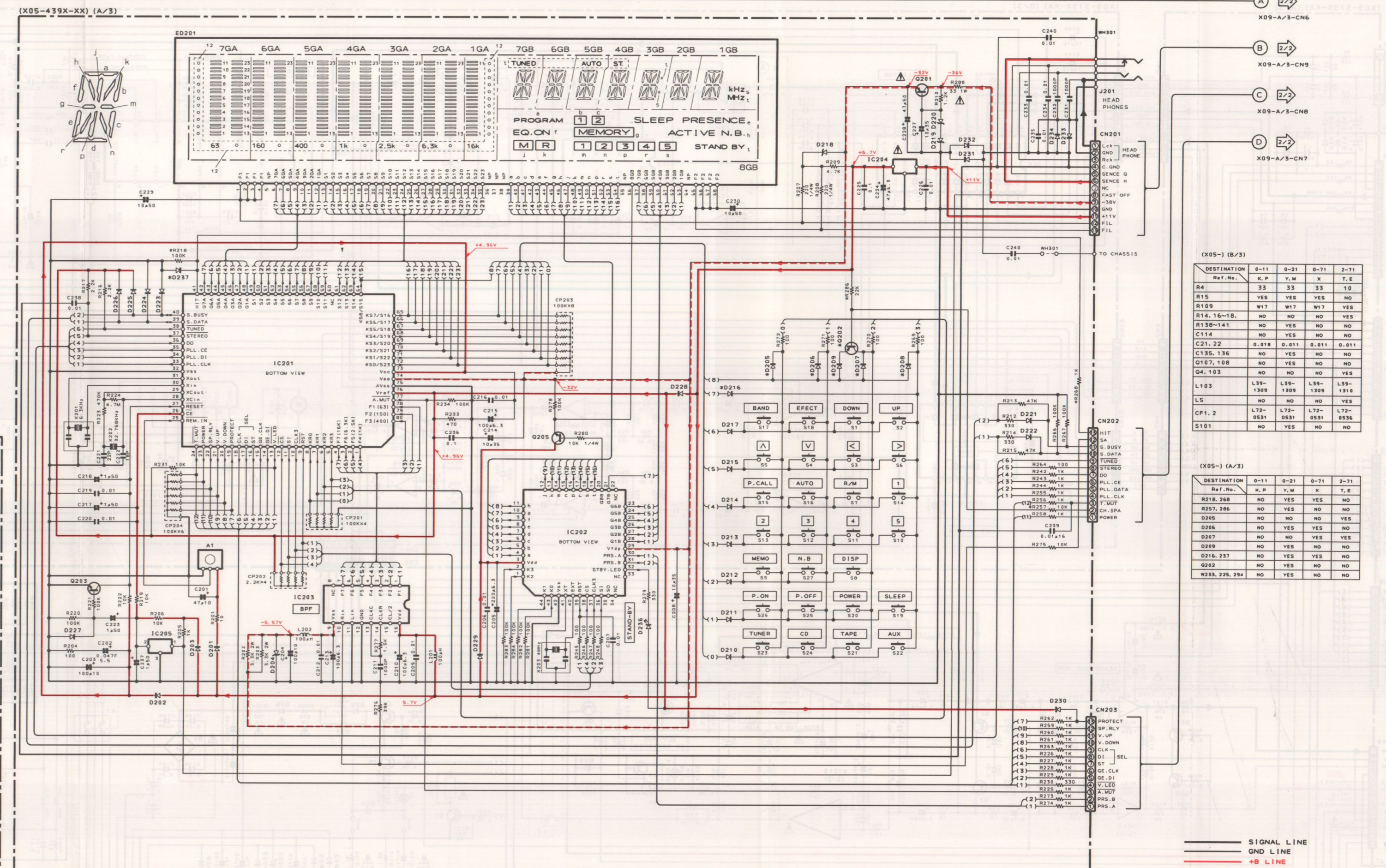
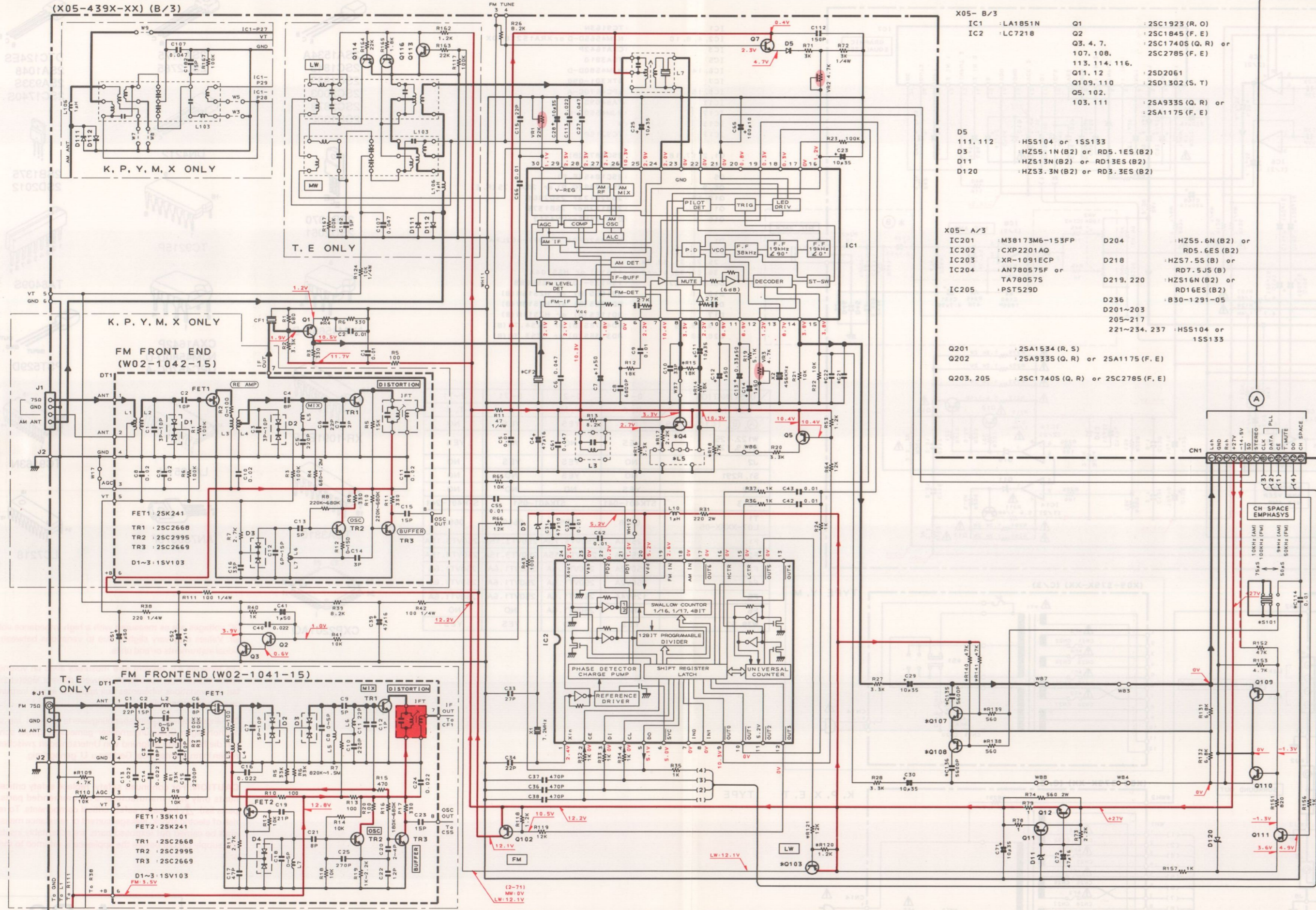


Refer to the schematic diagram for the values of resistors and capacitors.



FRONT →





(X05-) (B/3)

DESTINATION	0-11	0-21	0-71	2-71
R4	YES	YES	YES	NO
R15	YES	YES	YES	NO
R109	NO	NO	NO	NO
R14, 16-18	NO	NO	NO	YES
R13B-141	NO	YES	NO	NO
C114	NO	YES	NO	NO
C21, 22	0.018	0.011	0.011	0.011
C155, 156	NO	YES	NO	NO
D107, 108	NO	YES	NO	NO
Q4, 103	NO	NO	NO	YES
L105	L59-1309	L59-1309	L59-1309	L59-1310
L5	NO	NO	NO	YES
CF1, 2	L72-9531	L72-9531	L72-9531	L72-9536
S101	NO	YES	NO	NO

(X05-) (A/3)

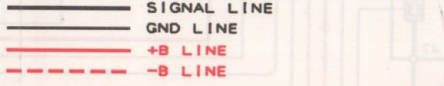
DESTINATION	0-11	0-21	0-71	2-71
R218, 268	NO	YES	YES	NO
R257, 206	NO	YES	NO	NO
D205	NO	NO	NO	YES
D206	NO	YES	NO	NO
D207	NO	NO	YES	YES
D208	NO	YES	NO	NO
D216, 237	NO	YES	YES	NO
Q202	NO	YES	NO	NO
W233, 225, 294	NO	YES	NO	NO

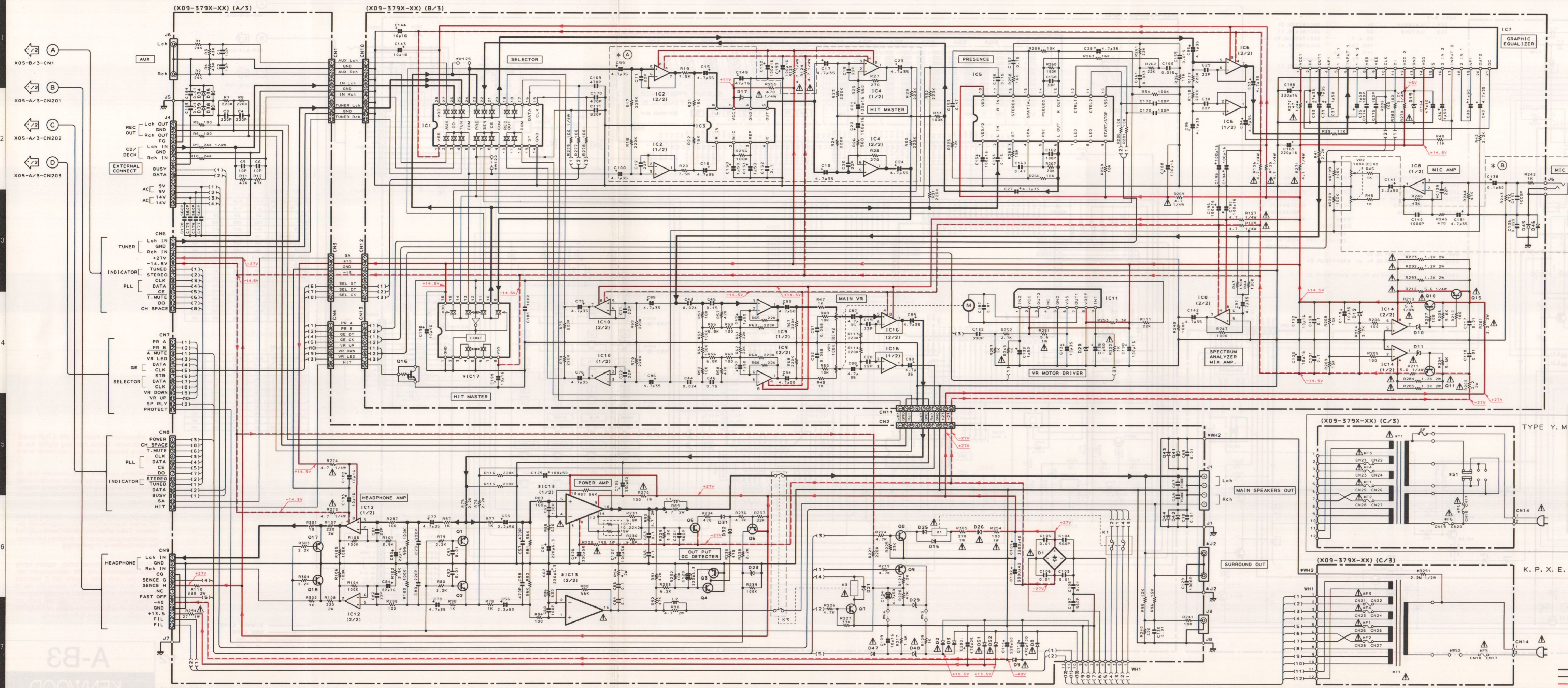
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U.geringfügig.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A 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.

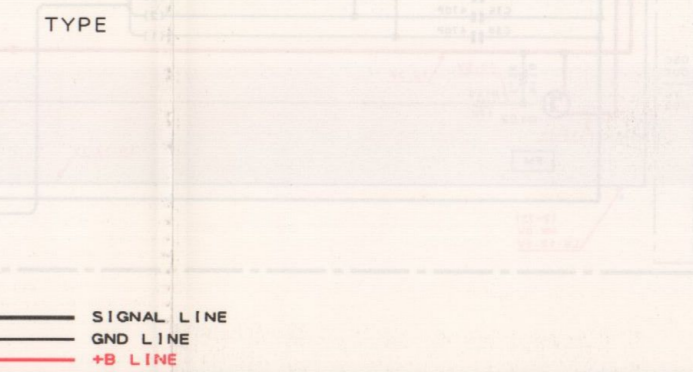
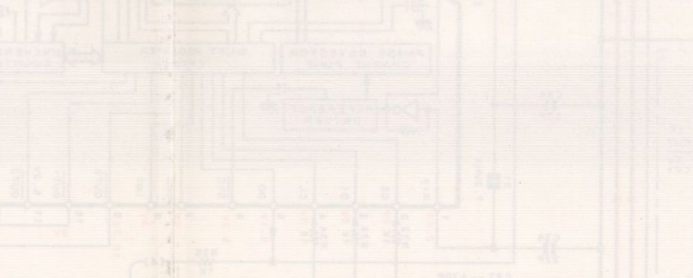




- IC1 TC9163N
 - IC2, 4, 8, 10 NJM4565D-D or XRA15218-DX
 - IC3 CXA1642P
 - IC5 TDA3810
 - IC6, 14 NJM4580D-D
 - IC7 STK301-090
 - IC9, 16 μ PC4570C-A
 - IC11 TAB409S
 - IC12 NJM4580L-D
 - IC13 *
 - IC17 TC9215P
- Q1, 2, 17, 18 2SC2878 (B)
 - Q3, 4, 7, 8 2SC2003 (L, K)
 - Q5 2SC1845 (F, E)
 - Q6, 9 2SA933S (G, R) or 2SA1175 (F, E)
 - Q10, 15 2SD2012 or 2SD2061
 - Q11 2SB1370 or 2SB1375
 - Q16 DTC124ES or UN4212
- D1 D35BA20F03 or RBV-402LFA
 - D2, 3, 16, 21, 25, 26, 31, 32, 34, 35, 39, 39, 41-47 DB, 9, 51, 52
 - D10, 11 15S131 or HSS104A
 - D8, 9, 51, 52 15R139-100 or S5668B
 - D12 RD16ES (B) or HZS16N (B)
 - D17 RD11ES (B) or HZS11N (B)
 - D19, 23, 29 RD4.7ES (B) or HZS4.7N (B)
 - D20, 48 RD3.3ES (B) or HZS3.3N (B)

DESTINATION	0-11	0-21	0-71	2-71
Ref. No.	K, P	Y, M	X	T, E
(A), (B), IC17, C139	NO	YES	YES	NO
W122, 125, R119, 120	YES	NO	NO	YES
J2	NO	YES	YES	NO
S1, R291	NO	YES	NO	NO
WH2	YES	NO	NO	NO
IC13	STK401-041	STK401-051	STK401-241	
T1	0658	0659	0660	0662
F1	125V4A	250VT3.15A	250VT3.15A	250VT3.15A
F2	125V4A	250VT3.15A	250VT3.15A	250VT3.15A
F3	250V2A	250VT1.6A	250VT1.6A	250VT1.6A
F4	250V2A	250VT1.6A	250VT1.6A	250VT1.6A
F5	125V4A	250VT1.6A	250VT1.6A	250VT1.6A
F6	NO	250VT1.6A	NO	NO
W38, 52	YES	NO	YES	YES

- 2SA1534A
 - 2SC1845
 - 2SC1923
 - 2SC2003
 - 2SC2878
 - 2SD1302
- 2SA1175
 - 2SC2785
- DTC124ES
 - 2SA1048
 - 2SA933S
 - 2SC1740S
- UN4212
- 2SB1375
 - 2SD2012
- 2SB1370
 - 2SD2061
- NJM4565D-D
- CXA1642P
 - NJM4580D-D
 - UPC4570C-A
- XR-1091ECP
- LA1851N
 - AN780575F
- TC9163N
 - LC7218
- CXP2201AQ



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

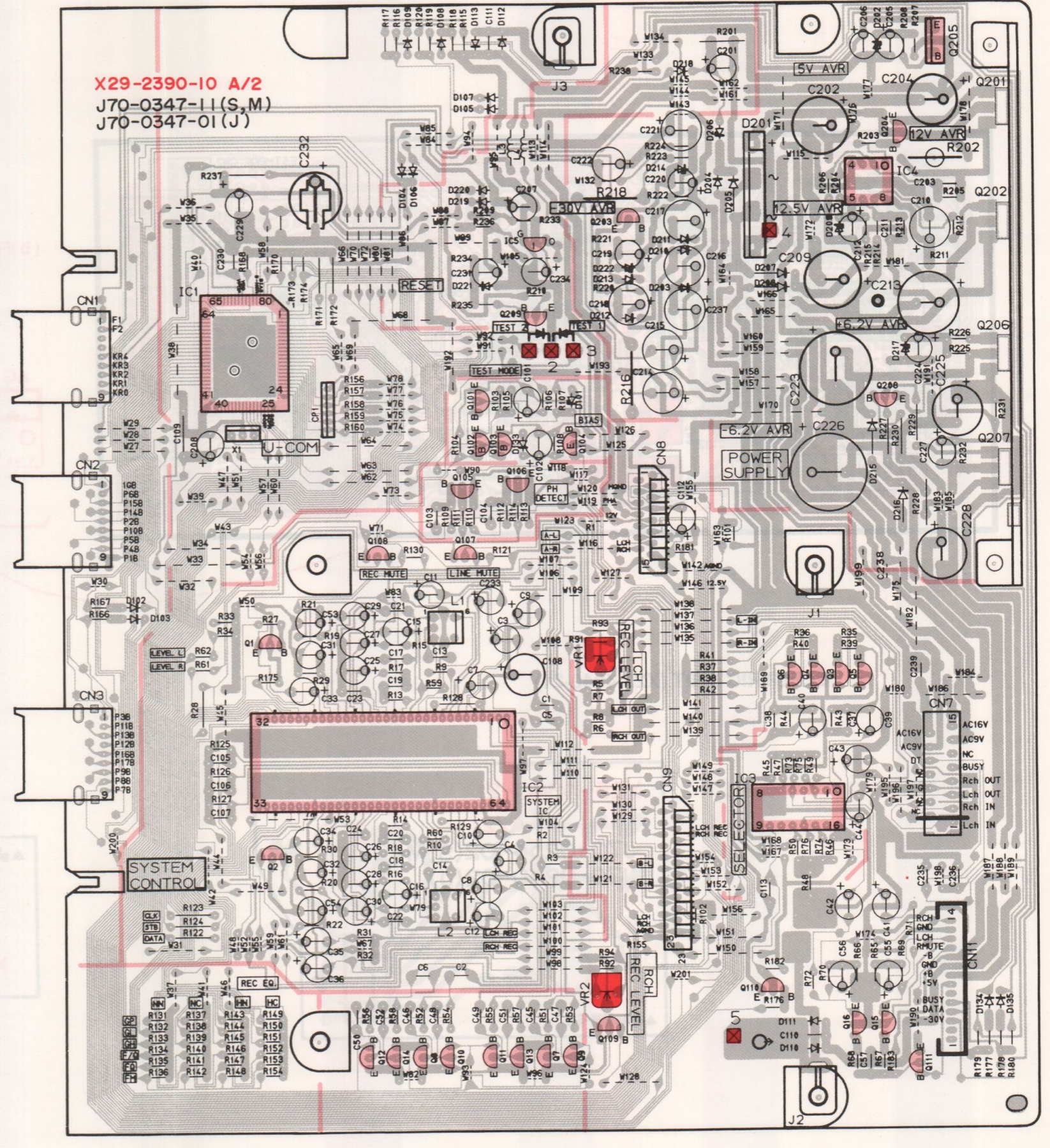
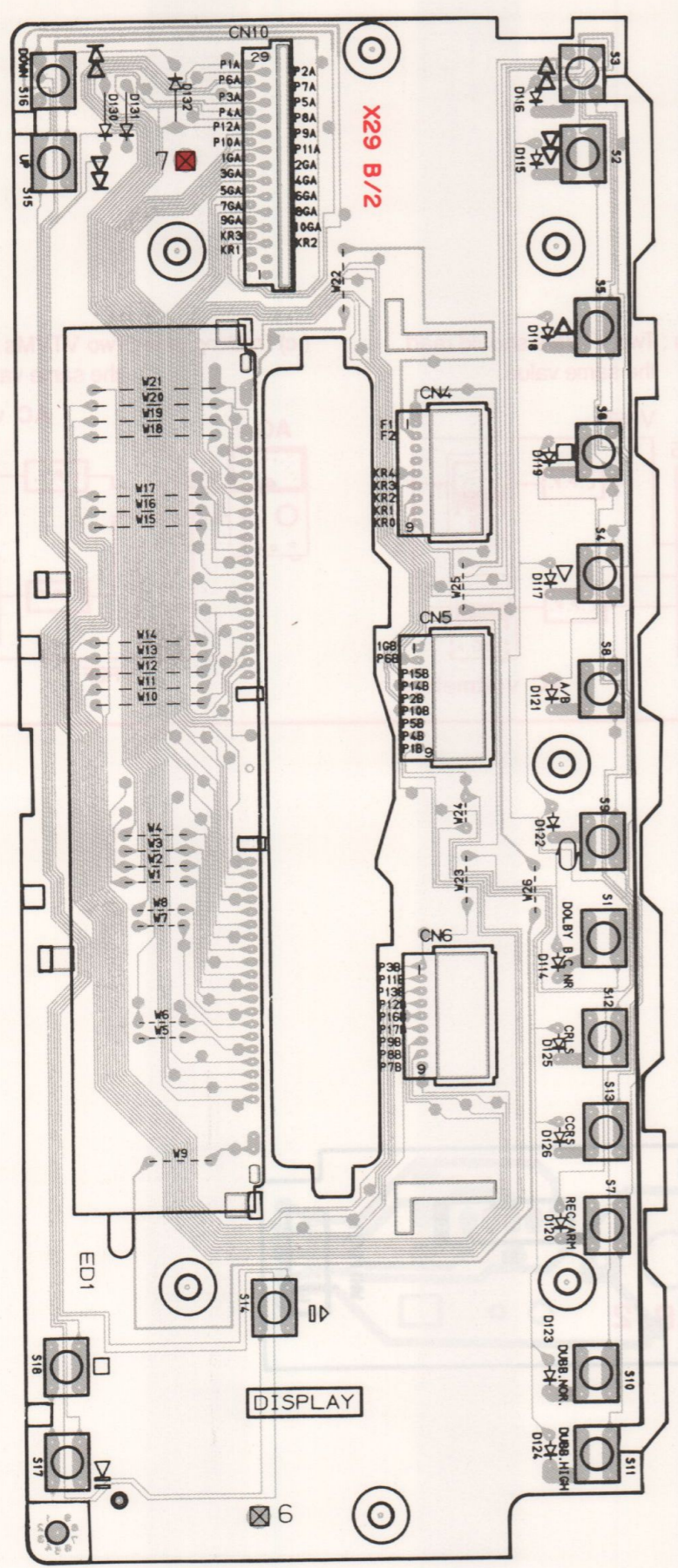
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

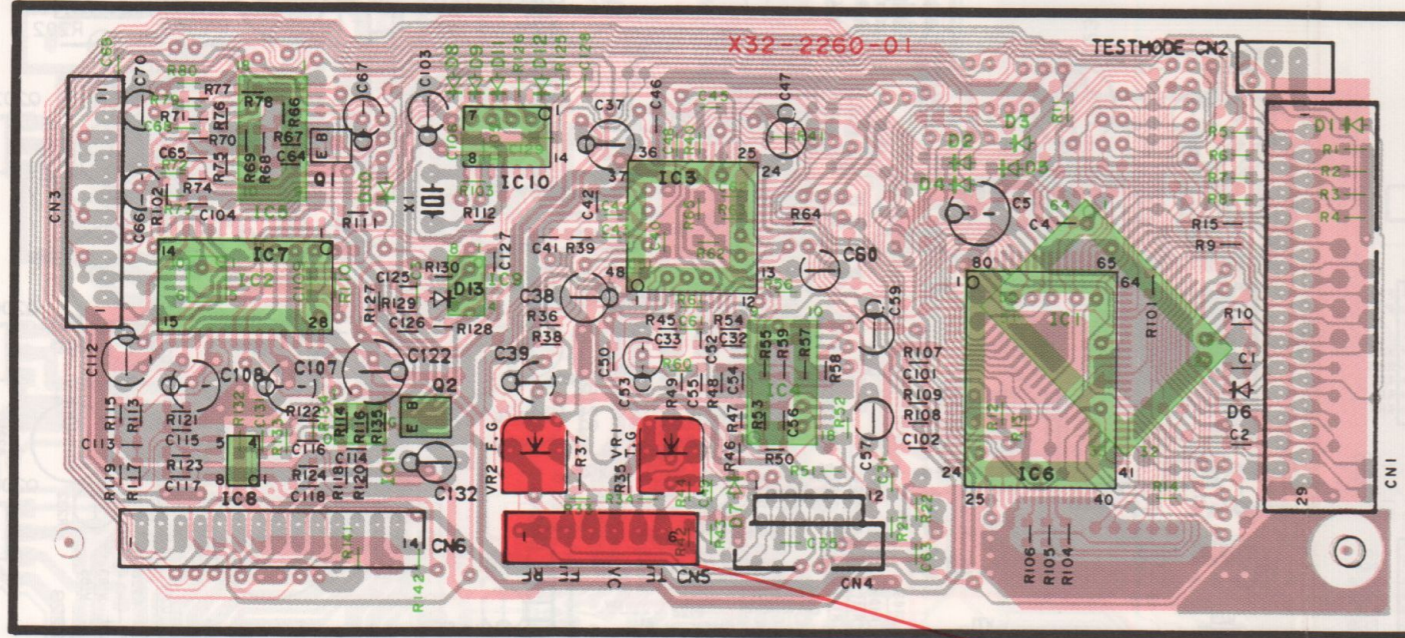
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurement shall be carried out (exposed parts are acceptably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

PC BOARD (Component side view) CONTROL UNIT (X29-2390-10)

X-B3

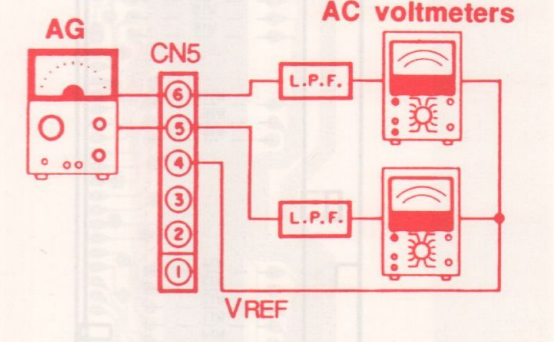
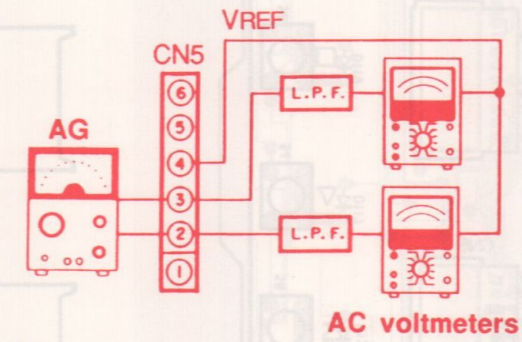


Refer to the schematic diagram for the values of resistors and capacitors.

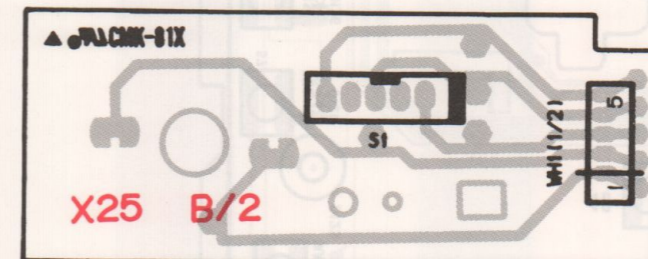
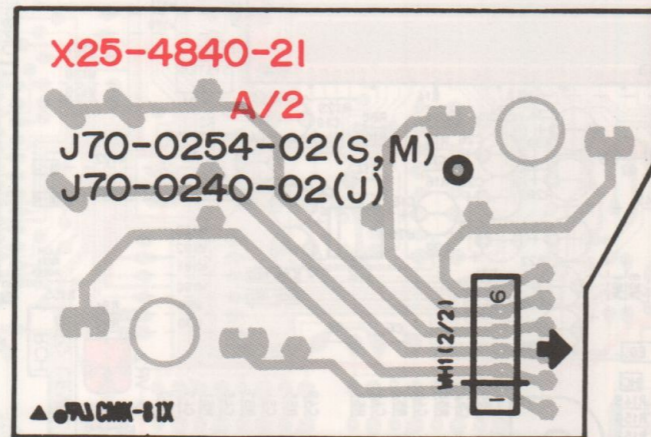


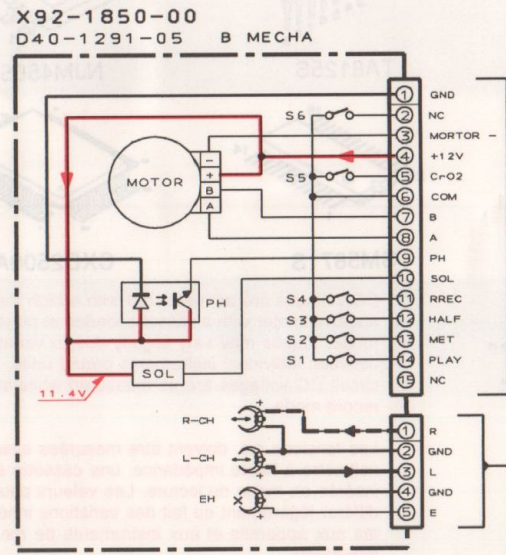
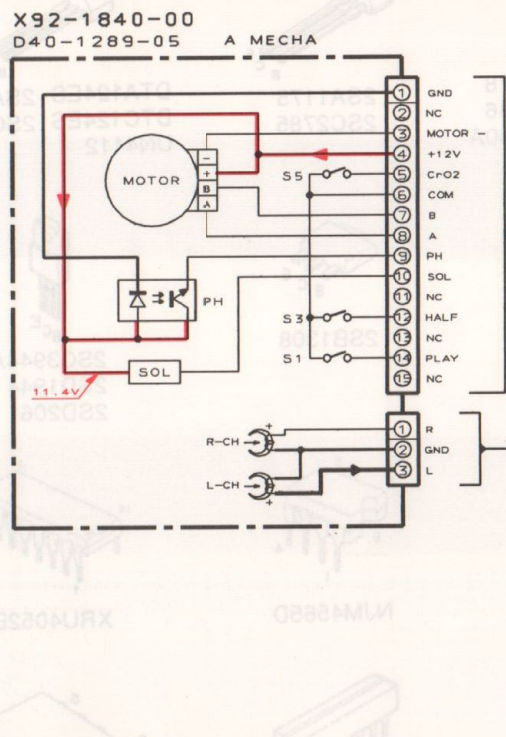
(b) Focus gain : Two VTVMs should read the same value.

(c) Tracking gain : Two VTVMs should read the same value.

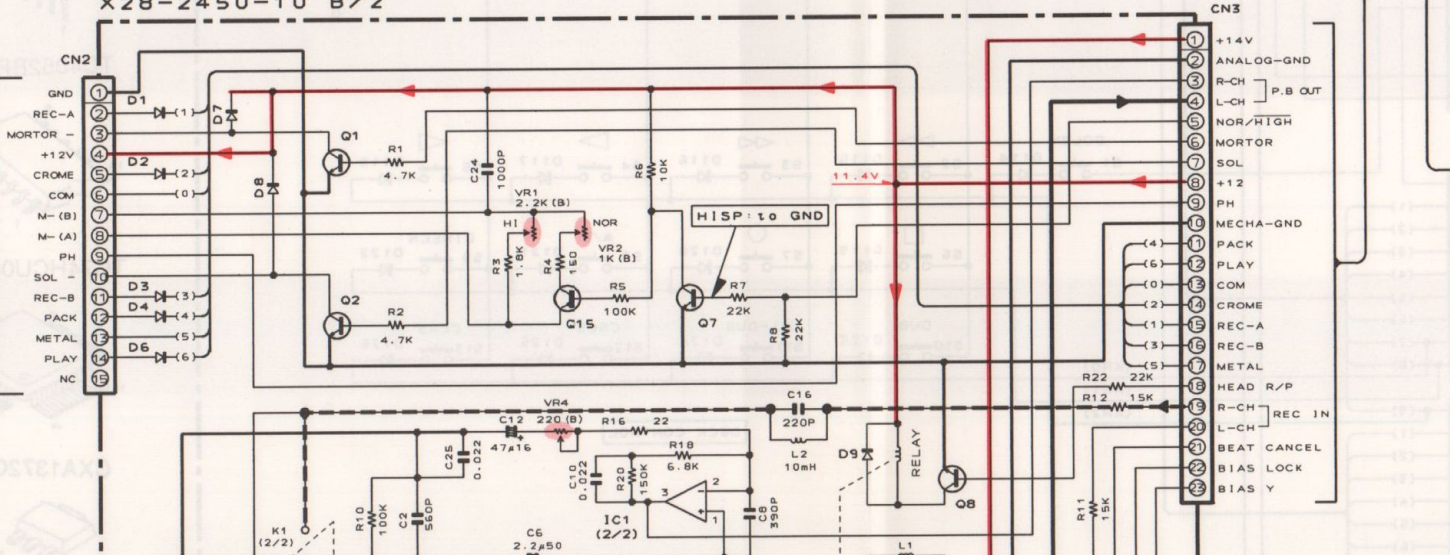
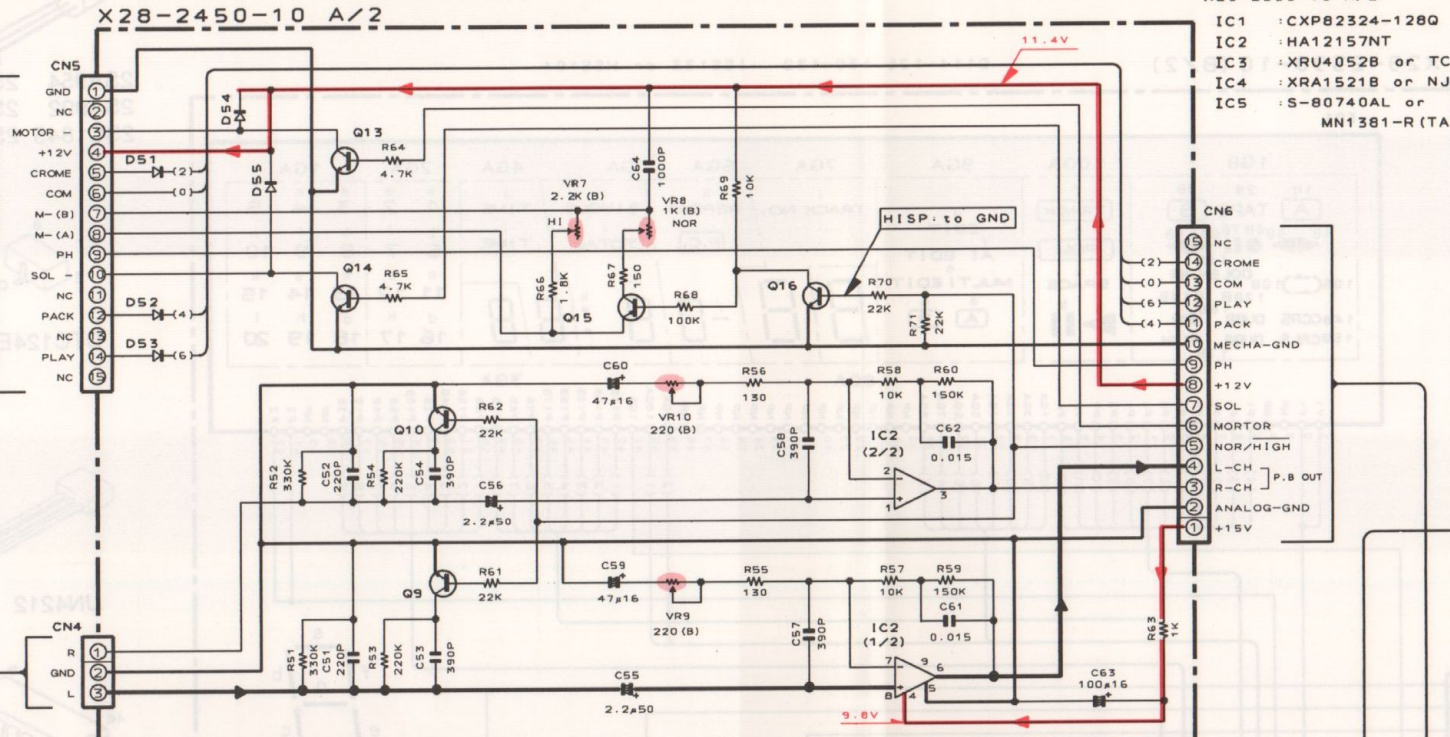


ELECTRIC UNIT (X25-4840-21)

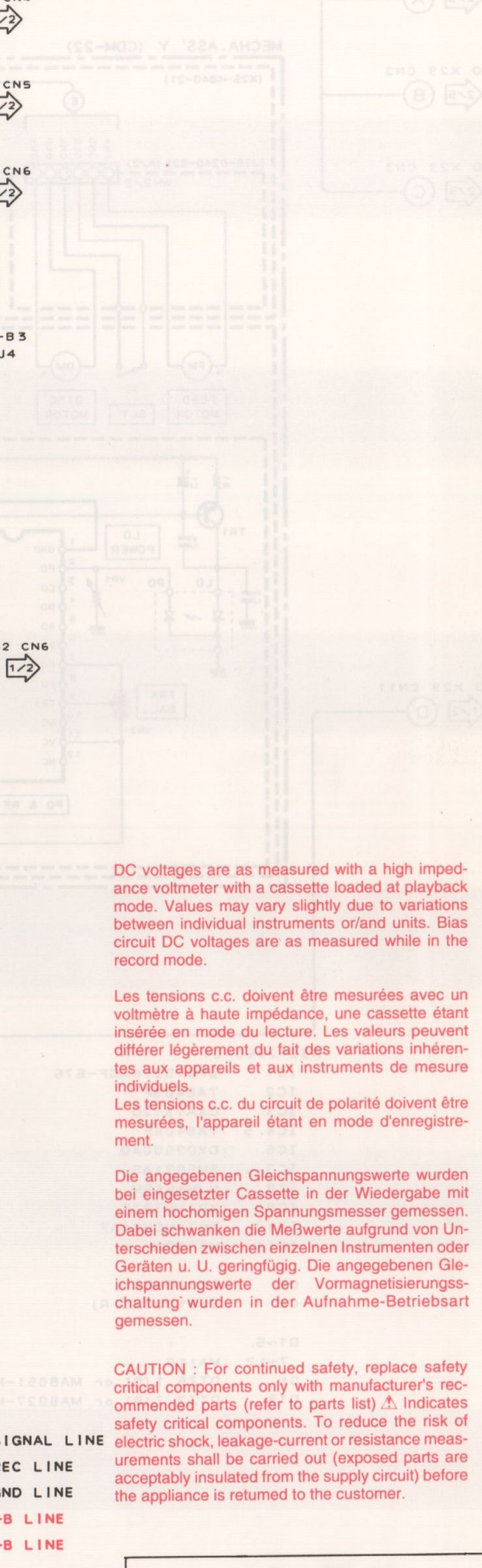
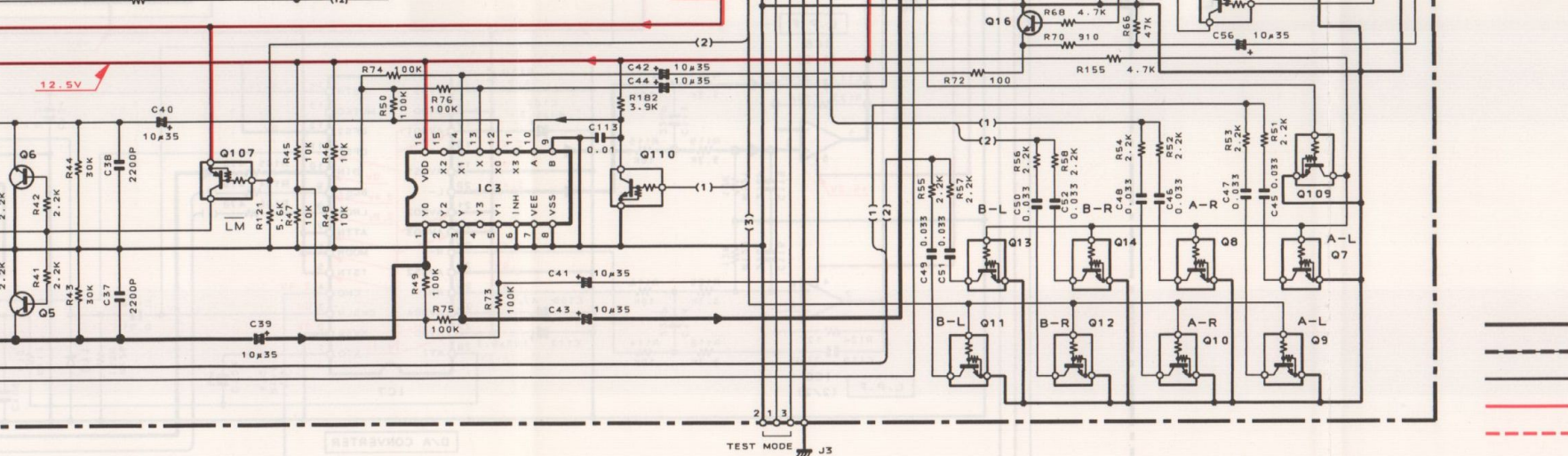
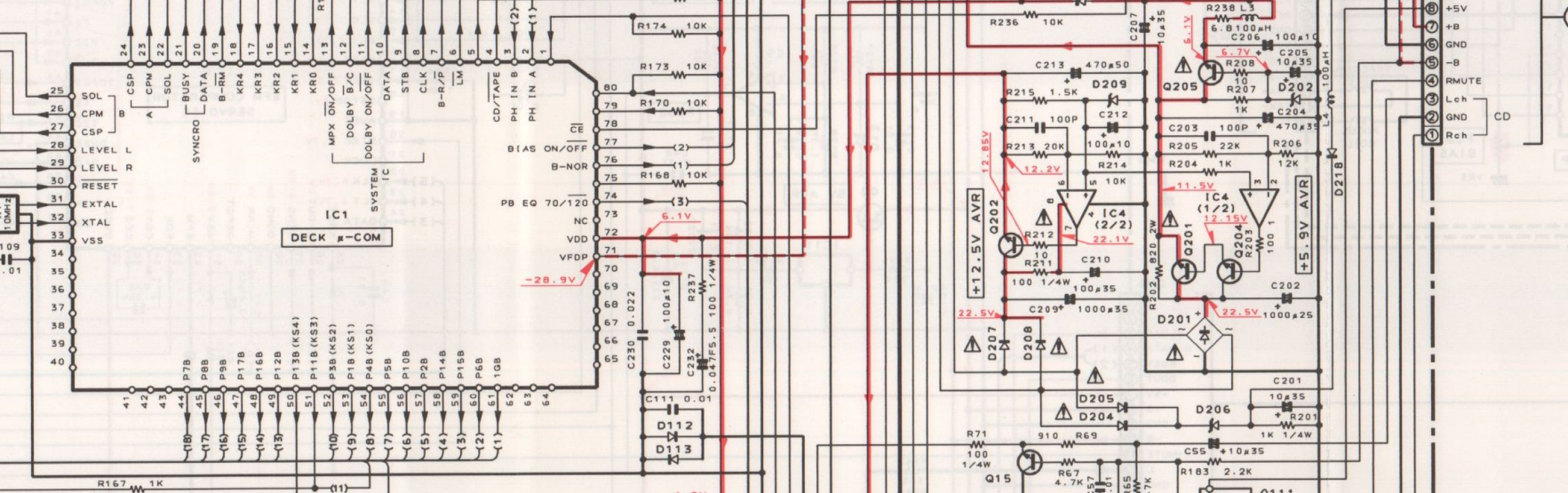
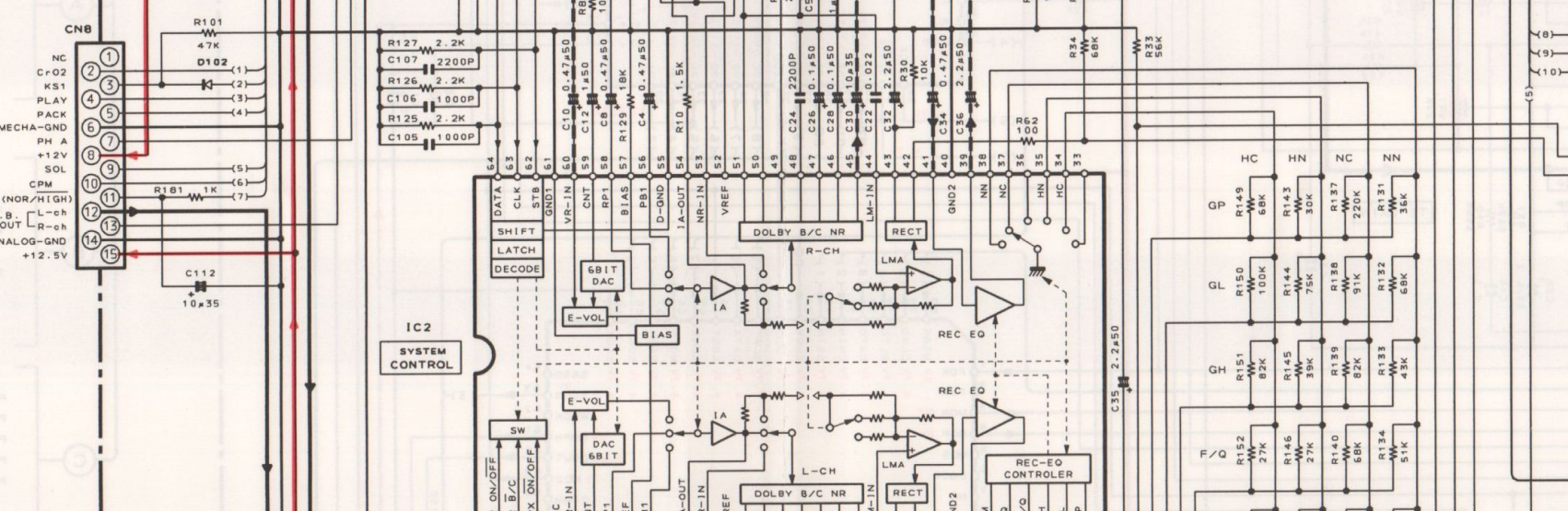
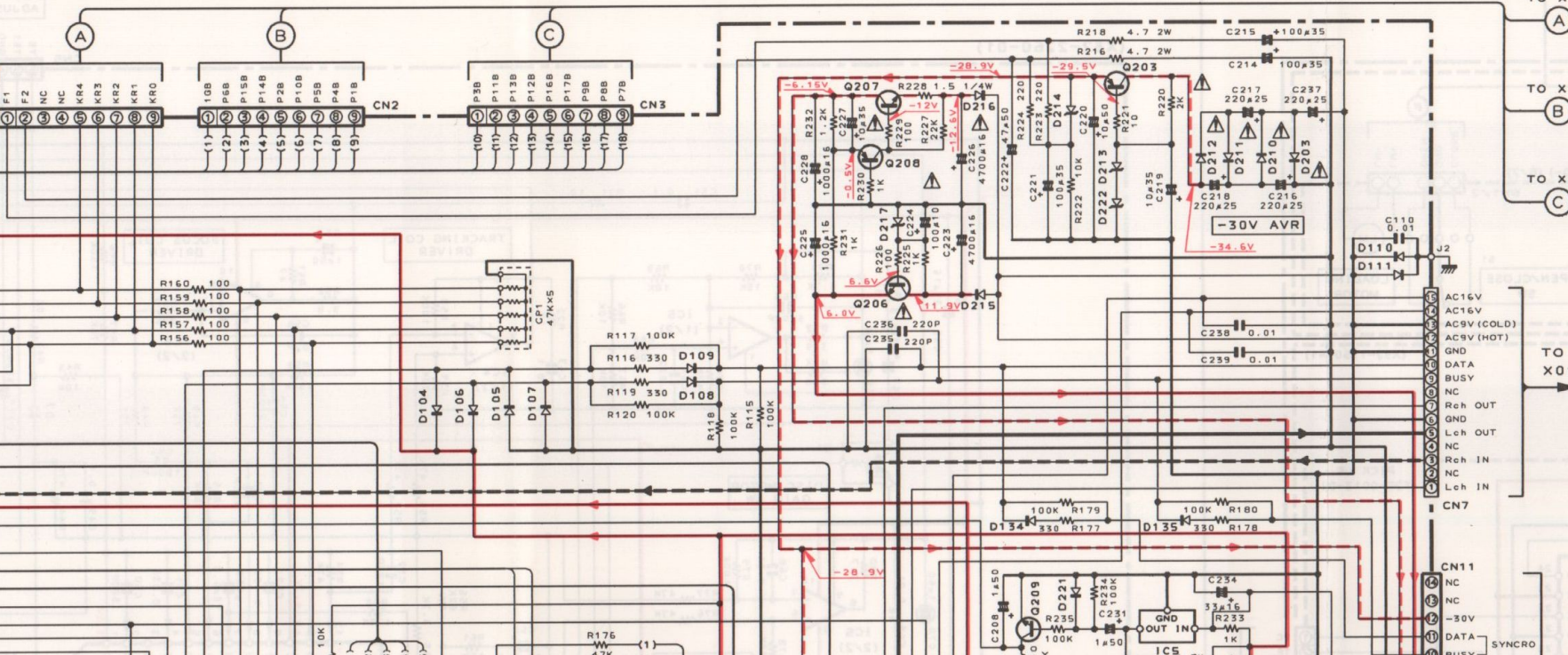
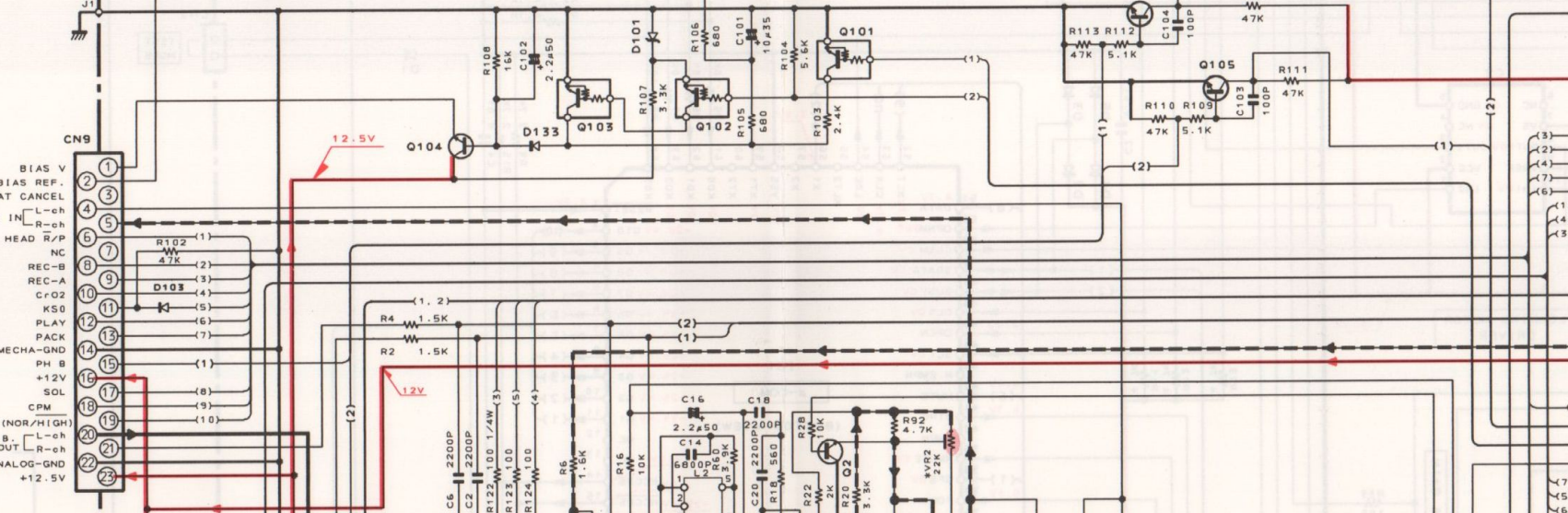




- X28-2450-10
[IC1, 2] TAB1255
D1~4, 6~9 15S133 or HSS104
S1~55 RD11E5 (B2) or HZ511N (B2)
Q1, 2, 13, 14 25C3246
Q3, 4 25C1845 (F, E)
Q5 25A992 (F, E)
Q6, 15 25A1175 (F, E) or 25A935 (Q, R)
Q7~12, 16 25C2785 (F, E) or 25C1740S (Q, R)



- Q1~6 25C2878 (B)
Q7~14, 101 103, 109, 110 UN4212 or DTC124E5
Q102, 107, 108, 111 UN4112 or DTA124E5
Q104 25C3940A
Q105, 106, 25C2785 (F, E) or 25C1740S (Q, R)
204, 209 MN1381-R (TA)
D201, 202 25D2061
D203, 208 25A954 (L, K)
D205 25C3944A
D206, 207 25D1944
D101 RD4.7E5 (B) or HZ54.7N (B)
D102, 103, RB721Q
D104~113, 15S133 or HSS104
133~135, 204, 205, 219~221
D201 D35BA20F03 or RBV-402LFA
D202, 217 RD6.8E5 (B2) or HZ56.8N (B2)
D203, 210~212, 15S131 or HSS104A
218
D206 RD6.2E5 (B2) or HZ56.2N (B2)
D207, 208 55S658 or 15R139-100
215, 216
D209 RD3.9E5 (B2) or HZ53.9N (B2)
D213 RD15E5 (B2) or HZ515N (B)
D214 RD7.5J5 (B2) or HZ57.5S (B2)
D222 RD16E5 (B2) or HZ516N (B2)

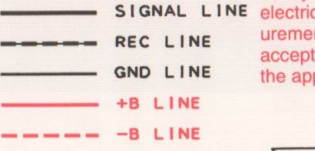


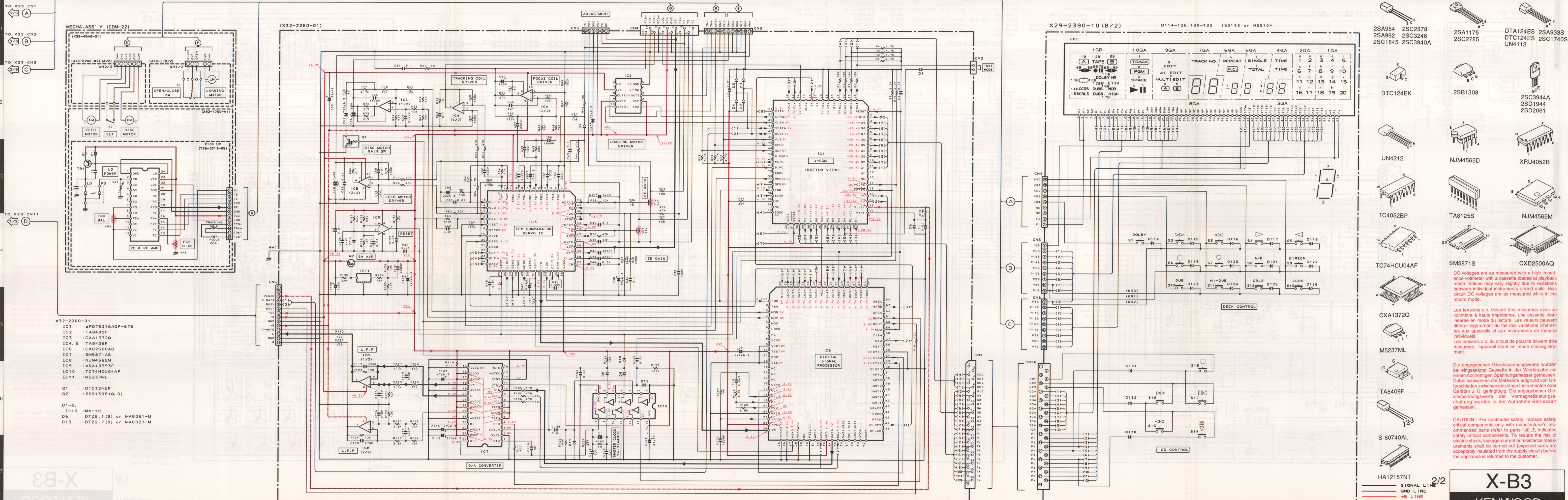
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

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

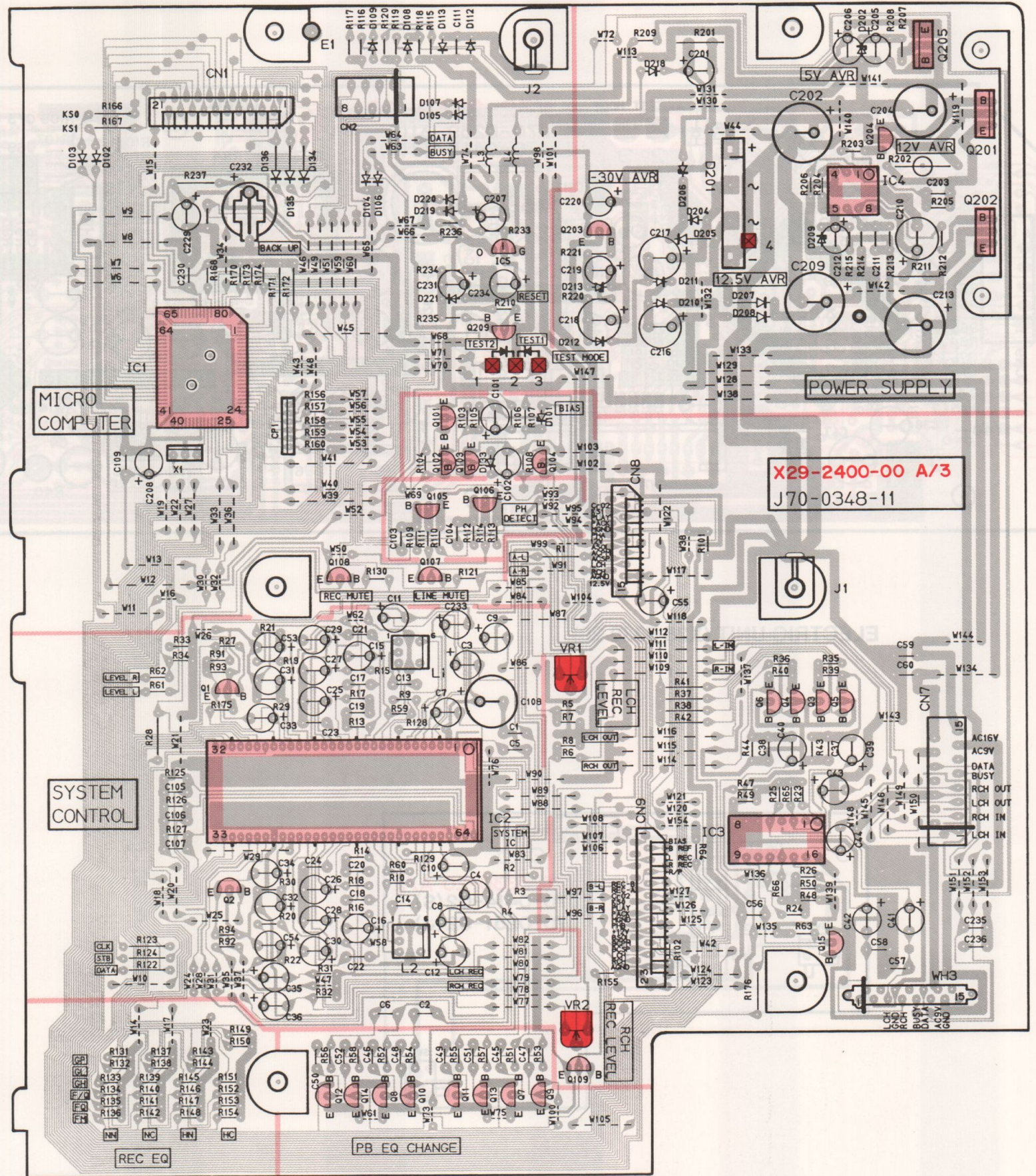
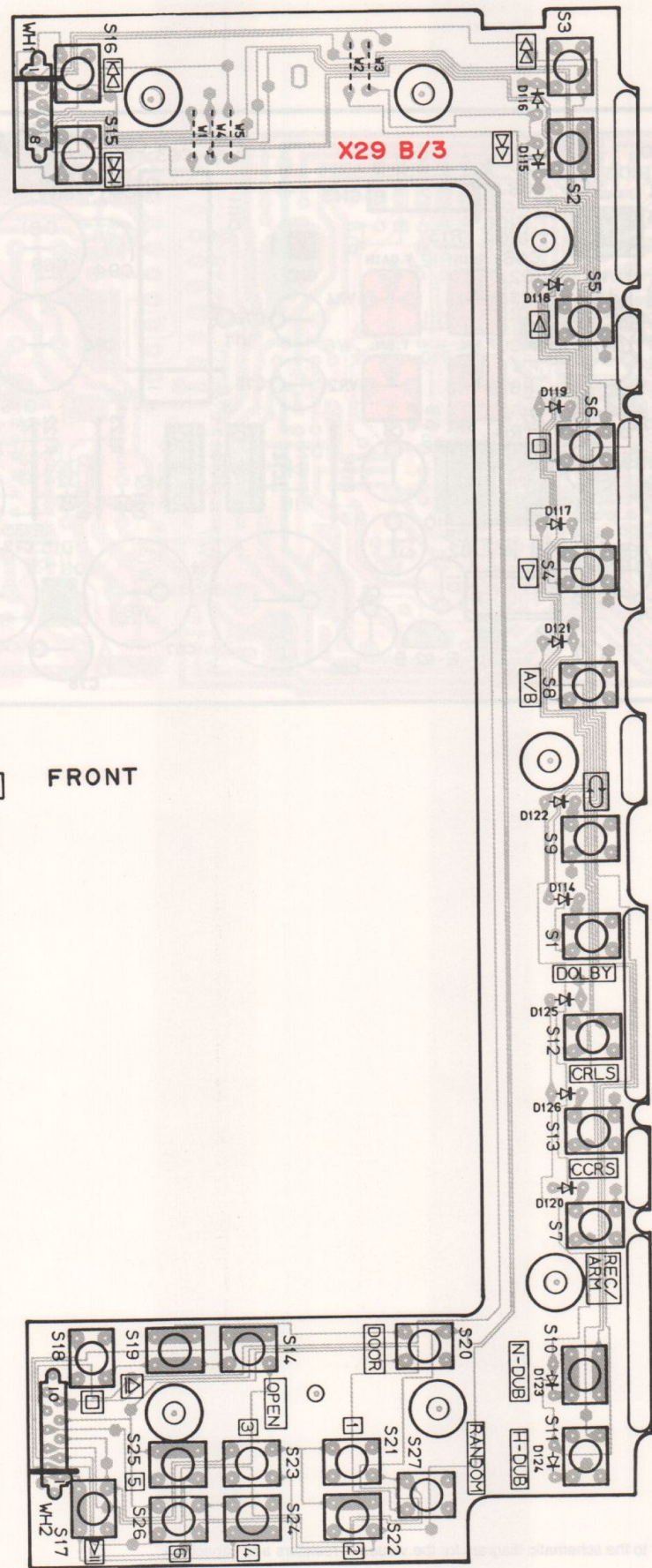
Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung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

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





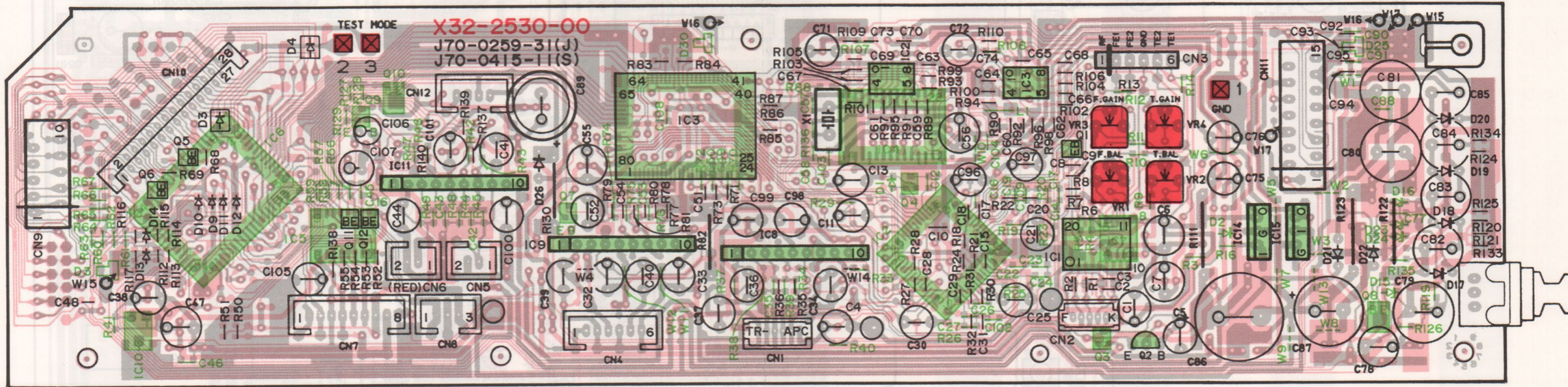
- 2SA954 2SC2878
 - 2SA992 2SC3246
 - 2SC1845 2SC3940A
 - 2SA1175 2SC2785
 - DTA124ES 2SA933S
 - DTC124ES 2SC1740S
 - UN4112
 - DTC124EK
 - 2SB1308
 - 2SC3944A
 - 2SD1944
 - 2SD2061
 - UN4212
 - NJM4565D
 - XRU4052B
 - TC4052BP
 - TA8125S
 - NJM4565M
 - TC74HCU04AF
 - SM5871S
 - CXD2500AQ
 - CXA1372Q
 - M5237ML
 - TA8409F
 - S-80740AL
 - HA12157NT
- 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 brand 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 de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetsisierungs-schaltung wurden in der Aufnahme-Betriebsart gemessen.
- CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.
- X-B3**
 SIGNAL LINE
 GND LINE
 +B LINE
 -B LINE
- Y39-1030-11



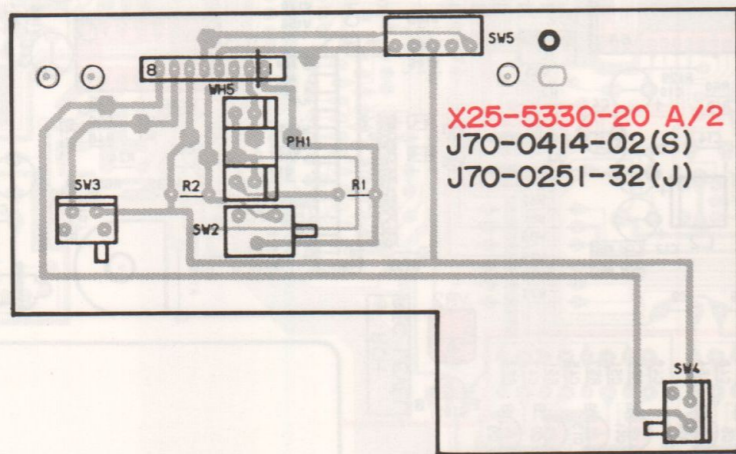
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view) SIGNAL PROCESSOR UNIT (X32-2530-00)

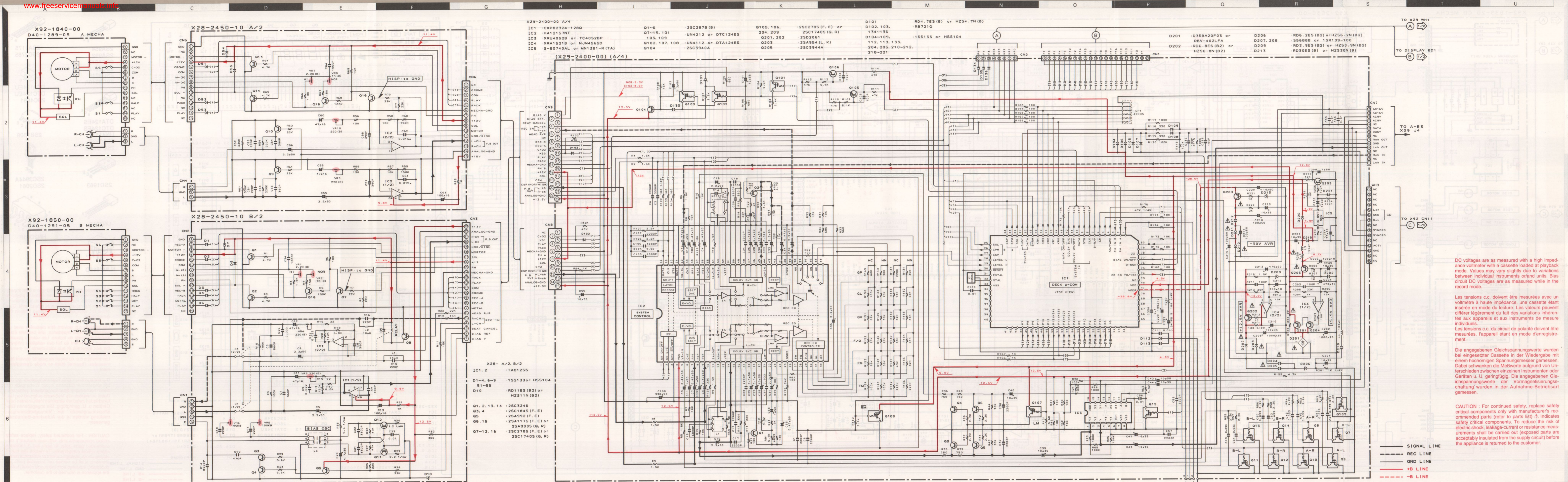
(Component side view) CONTROL UNIT (X29-2400-00) X-MB3



ELECTRIC UNIT (X25-5330-20)



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

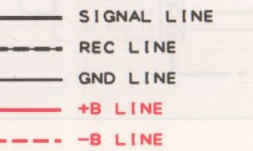


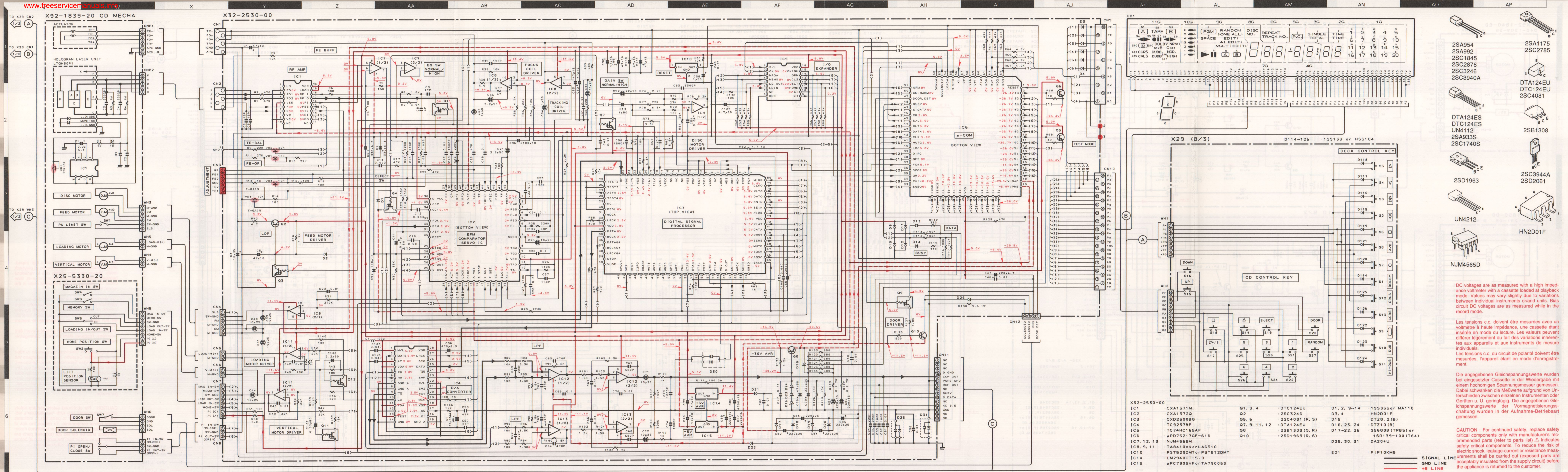
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments and/or units. Bias circuit DC voltages are as measured while in the record mode.

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

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmessgerät 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). Δ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.





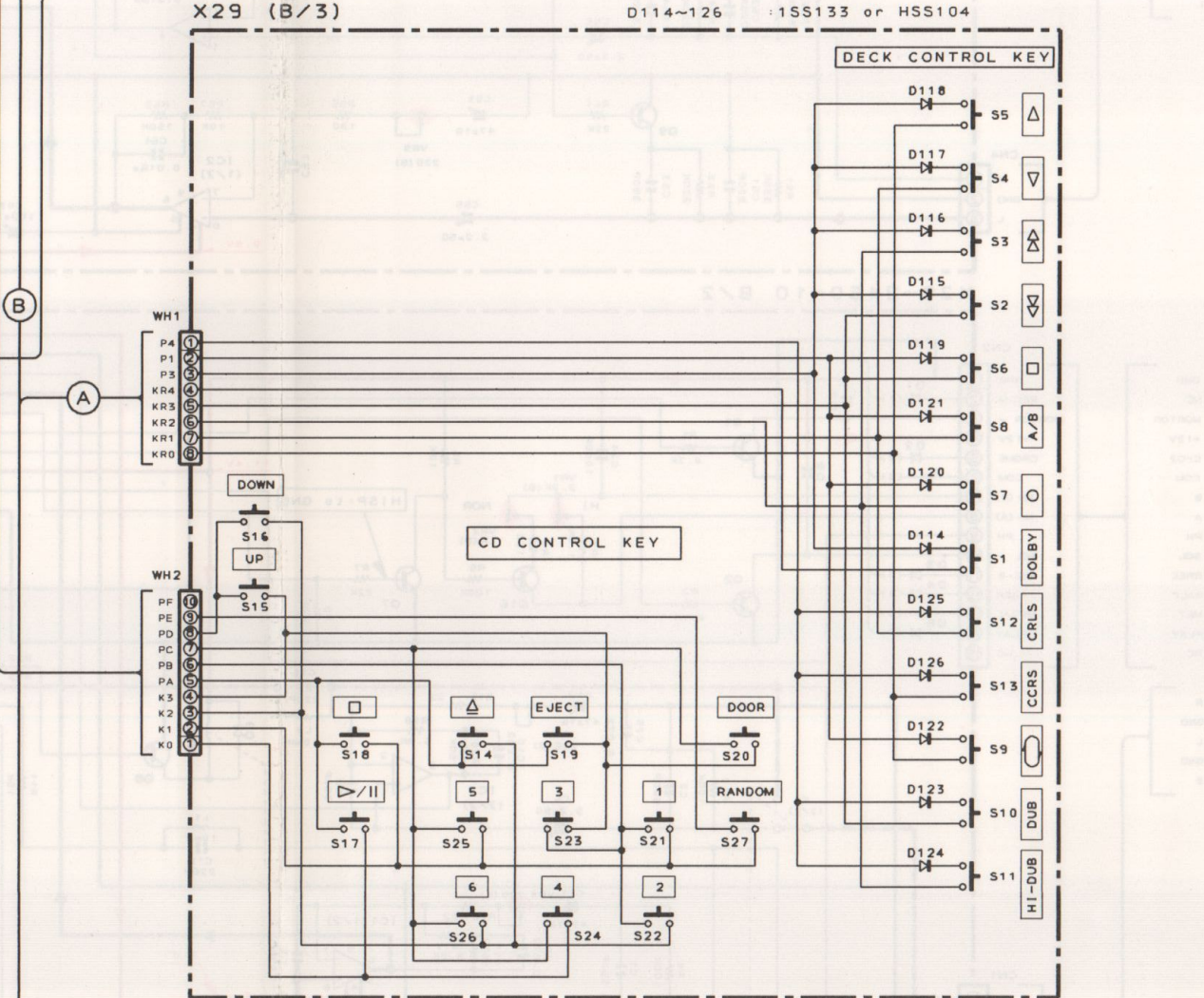
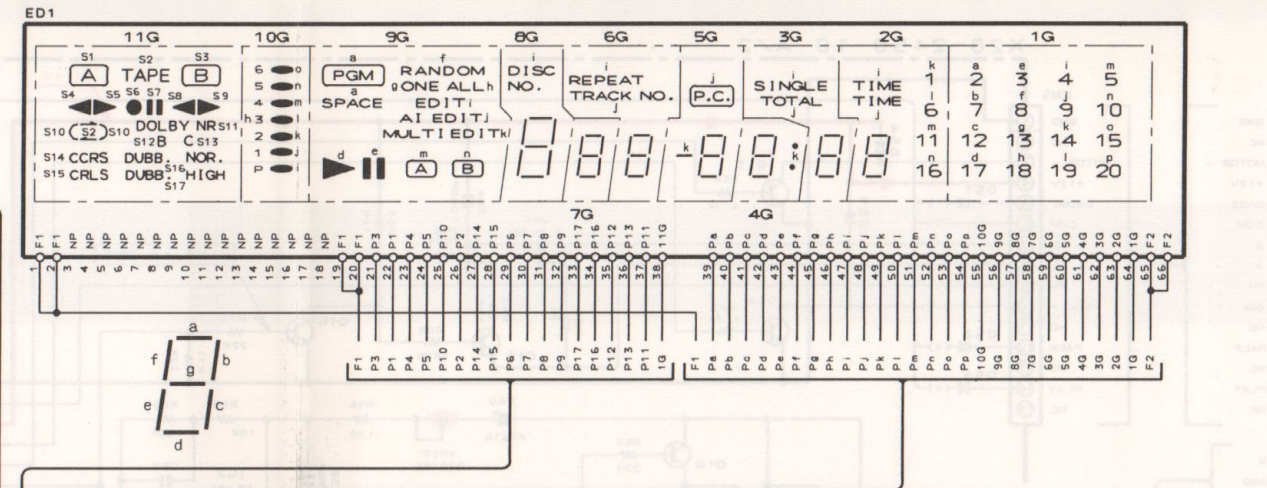
- 2SA954
- 2SA992
- 2SC1845
- 2SC2878
- 2SC3246
- 2SC3940A
- 2SA1175
- 2SC2785
- DTA124EU
- DTC124EU
- DTC124EU
- DTC124EU
- 2SC4081
- 2SB1308
- 2SC3944A
- 2SD2061
- 2SD1963
- UN4212
- NJM4565D
- HN2D01F

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 and/or 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 de 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 hochimpedanten Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Polarisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

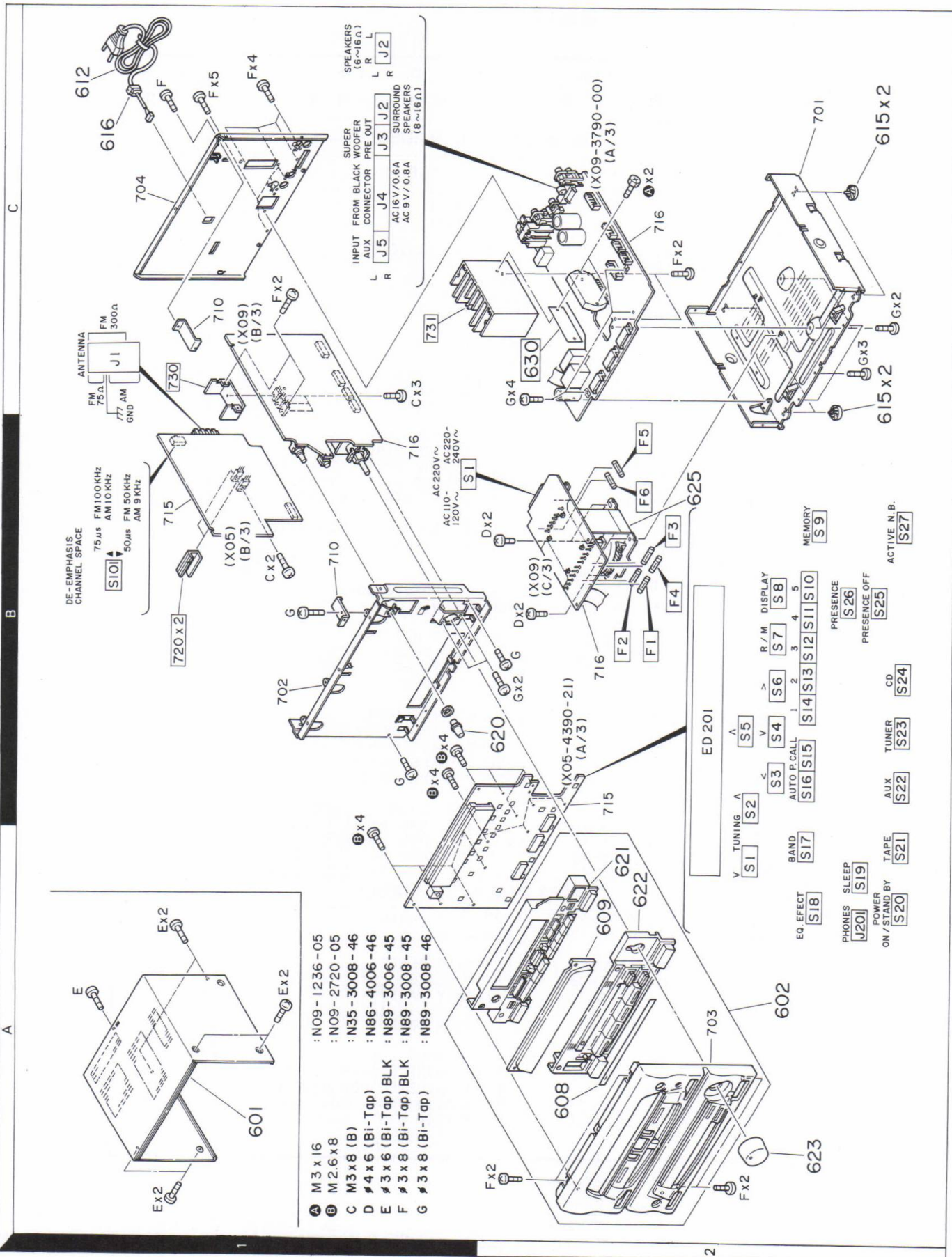
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). 1. Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



- | | | | | | |
|-------------|--------------------------|---------------|------------------|-------------|-------------------------------------|
| IC1 | : CXA1571M | Q1, 3, 4 | : DTC124EU | D1, 2, 9-14 | : 1SS355 or MA110 |
| IC2 | : CXA1372Q | Q2 | : 2SC3246 | D3, 4 | : HN2D01F |
| IC3 | : CXD2500BQ | Q5, 6 | : 2SC4081 (R, S) | D15 | : DT2B.2 (B) |
| IC4 | : TC9237BF | Q7, 9, 11, 12 | : DTA124EU | D16, 23, 24 | : DT210 (B) |
| IC5 | : TC74HC165AF | Q8 | : 2SB1308 (Q, R) | D17-22, 26 | : S5688B (TPB5) or 1SR139-100 (T64) |
| IC6 | : PD75217G-616 | Q10 | : 2SD1963 (R, S) | D25, 30, 31 | : DA204U |
| IC7, 12, 13 | : NJM4565M | | | | |
| IC8, 9, 11 | : TA8410AK or LA6510 | | | | |
| IC10 | : PST529DMT or PST572DMT | | | | |
| IC14 | : LM2940CT-5.0 | | | | |
| IC15 | : PC7905HF or TA79005S | | | | |

- XRU4052B
- TC4052BP
- TA8125S
- LA6510
- TA8410AK
- NJM4565M
- LM2940CT-5.0
- TC74HC165AF
- CXD2500BQ
- CXA1571M
- S-80740AL
- PST529DMT
- PST572DMT
- TA79005S
- UPC7905HF
- HA12157NT
- CXA1372Q

EXPLODED VIEW (UNIT)



A-B3

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
A-B3 (SINGAPORE MADE)						
601	1A	*	A01-3020-01	METALLIC CABINET	KP YMX TE	
602	2A	*	A60-0388-12	PANEL ASSY		
602	2A	*	A60-0389-12	PANEL ASSY		
602	2A	*	A60-0390-12	PANEL ASSY		
608	2A	*	B03-2820-03	DRESSING PLATE	K E T	
609	2A	*	B10-1961-03	FRONT GLASS		
-			B46-0092-23	WARRANTY CARD		
-			B46-0122-23	WARRANTY CARD		
-			B46-0143-13	WARRANTY CARD		
612	1C		E30-2592-15	AC POWER CORD	ME Y KP X T	
612	1C		E30-2605-05	AC POWER CORD		
612	1C		E30-2650-05	AC POWER CORD		
612	1C		E30-2717-05	AC POWER CORD		
612	1C		E30-2721-05	AC POWER CORD		
		*	H50-0579-04	ITEM CARTON CASE		
		*	H50-0580-04	ITEM CARTON CASE	K TE KTE KTE KE	
-		*	H10-5450-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5451-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
			H25-0671-04	PROTECTION BAG		
615	2C		J02-0370-05	FOOT	YMX	
616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
620	2B		K29-3632-04	KNØB MIC MIXING	YMX	
621	2A	*	K29-5665-02	KNØB GE/TUNER CONTROL		
622	2A	*	K29-5666-02	KNØB AMP INPUT SELECTØR		
623	2A	*	K29-5667-04	KNØB VØLUME		
625	2B	*	L07-0658-15	POWER TRANSFORMER	KP YM X T E	
625	2B	*	L07-0659-05	POWER TRANSFORMER		
625	2B	*	L07-0660-15	POWER TRANSFORMER		
625	2B	*	L07-0661-15	POWER TRANSFORMER		
625	2B	*	L07-0662-15	POWER TRANSFORMER		
B	1A, 1B		N09-2720-05	TAPTITE SCREW (2.6X8)		
D	2B		N86-4006-46	BINDING HEAD TAPTITE SCREW		
E	1A		N89-3006-45	BINDING HEAD TAPTITE SCREW		
F	1C, 2C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
G	1B, 2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
A-B3 (MALAYSIA MADE)						
601	1A	*	A01-3020-01	METALLIC CABINET		
602	2A	*	A60-0388-12	PANEL ASSY		
608	2A	*	B03-2820-03	DRESSING PLATE	K	
609	2A	*	B10-1961-03	FRONT GLASS		
-			B46-0092-23	WARRANTY CARD		
612	1C		E30-2650-05	AC POWER CORD		
		*	H50-0582-04	ITEM CARTON CASE	K K K K K	
-		*	H10-5452-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5453-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0671-04	PROTECTION BAG		

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615	2C		J02-0370-05	FOOT		
616	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
621	2A	*	K29-5665-02	KNØB GE/TUNER CONTROL		
622	2A	*	K29-5666-02	KNØB AMP INPUT SELECTØR		
623	2A	*	K29-5667-04	KNØB VOLUME		
625	2B	*	L07-0658-15	POWER TRANSFORMER		
B	1A, 1B		N09-2720-05	TAPTITE SCREW (2.6X8)		
D	2B		N86-4006-46	BINDING HEAD TAPTITE SCREW		
E	1A		N89-3006-45	BINDING HEAD TAPTITE SCREW		
F	1C, 2C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
G	1B, 2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
TUNER UNIT (X05-4390-11:K,P ; 0-21:Y,M ; 0-71:X ; 2-71:T,E)						
D236			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
C1 ,2			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4			CE04LW1C470M	ELECTRØ 47UF 16WV		
C5			CK45FF1H103Z	CERAMIC 0.010UF Z		
C6			CK45FF1H473Z	CERAMIC 0.047UF Z		
C7			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C8			CQ92FM1H682J	MYLAR 6800PF J		
C9			CK45FF1H103Z	CERAMIC 0.010UF Z		
C10			CC45FSL1H330J	CERAMIC 33PF J		
C11			CE04LW1V100M	ELECTRØ 10UF 35WV		
C12			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C13			CE04LW1HR33M	ELECTRØ 0.33UF 50WV		
C14			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C15			C91-0729-05	CERAMIC 22PF J		
C21 ,22		*	CQ92FM1H113J	MYLAR 0.011UF J	YMXTB	
C21 ,22			CQ92FM1H183J	MYLAR 0.018UF J	KP	
C23			CE04LW1V100M	ELECTRØ 10UF 35WV		
C25			CE04LW1V100M	ELECTRØ 10UF 35WV		
C27			CK45FF1H473Z	CERAMIC 0.047UF Z		
C28 -30			CE04LW1V100M	ELECTRØ 10UF 35WV		
C31			CE04LW1A470M	ELECTRØ 47UF 10WV		
C32			CK45FF1H103Z	CERAMIC 0.010UF Z		
C33			CC45FCH1H270J	CERAMIC 27PF J		
C34			CC45FCH1H220J	CERAMIC 22PF J		
C36 -38			CK45FB1H471K	CERAMIC 470PF K		
C39			CE04LW1C470M	ELECTRØ 47UF 16WV		
C40			CQ92FM1H223J	MYLAR 0.022UF J		
C41			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C42 ,43			CK45FF1H103Z	CERAMIC 0.010UF Z		
C51			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C52			CE04LW1C470M	ELECTRØ 47UF 16WV		
C55			CK45FF1H103Z	CERAMIC 0.010UF Z		
C61			CK45FF1H473Z	CERAMIC 0.047UF Z		
C62			CK45FF1H103Z	CERAMIC 0.010UF Z		
C65			CE04LW1A101M	ELECTRØ 100UF 10WV		
C66			CK45FF1H103Z	CERAMIC 0.010UF Z		
C71			CE04LW1V100M	ELECTRØ 10UF 35WV		
C72			CE04LW1C470M	ELECTRØ 47UF 16WV		
C107			CK45FF1H473Z	CERAMIC 0.047UF Z		
C112			C91-0747-05	CERAMIC 150PF K		

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C113			CK45FF1H223Z	CERAMIC 0.022UF Z	YM	
C114			CK45FF1H103Z	CERAMIC 0.010UF Z		
C135, 136			CQ92FM1H562J	MYLAR 5600PF J		
C182			CC45FSL1H150J	CERAMIC 15PF J		
C201			CE04LW1A470M	ELECTRØ 47UF 10WV		
C202			C90-1826-05	BACKUP 0.047F 5.5WV		
C203, 204			CE04LW1A101M	ELECTRØ 100UF 10WV		
C205			C90-3215-05	ELECTRØ 220UF 6.3WV		
C206, 207			C91-0769-05	CERAMIC 0.01UF K		
C208			C90-3244-05	ELECTRØ 10UF 35WV		
C209			CK45FF1H103Z	CERAMIC 0.010UF Z		
C210			C90-3214-05	ELECTRØ 100UF 6.3WV		
C211			CQ92FM1H102J	MYLAR 1000PF J		
C212			CK45FF1H103Z	CERAMIC 0.010UF Z		
C213			C90-3214-05	ELECTRØ 100UF 6.3WV		
C214			C90-3244-05	ELECTRØ 10UF 35WV		
C215			C90-3214-05	ELECTRØ 100UF 6.3WV		
C216			C91-0769-05	CERAMIC 0.01UF K		
C217, 218			C90-3253-05	ELECTRØ 1UF 50WV		
C219, 220			CK45FF1H103Z	CERAMIC 0.010UF Z		
C221			CC45FCH1H220J	CERAMIC 22PF J		
C222			CC45FCH1H180J	CERAMIC 18PF J		
C223			C90-3253-05	ELECTRØ 1UF 50WV		
C224			C90-3212-05	ELECTRØ 47UF 6.3WV		
C225, 226			CF92FV1H104J	MF 0.10UF J		
C227			CE04LW1V100M	ELECTRØ 10UF 35WV		
C228			CE04DW1H470M	ELECTRØ 47UF 50WV		
C229			C90-3258-05	ELECTRØ 10UF 50WV		
C230			CE04LW1H100M	ELECTRØ 10UF 50WV		
C231, 232			CK45FB1H102K	CERAMIC 1000PF K		
C233, 234			CK45FF1H103Z	CERAMIC 0.010UF Z		
C235			C91-0769-05	CERAMIC 0.01UF K		
C236			CF92FV1H104J	MF 0.10UF J		
C237			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C238-240			C91-0769-05	CERAMIC 0.01UF K		
J1			E20-0321-05	LOCK TERMINAL BOARD ANTENNA		TE
J1			E20-0476-05	LOCK TERMINAL BOARD ANTENNA		KPYMX
J201			E11-0234-05	PHONE JACK HEAD PHONE		
CF1 ,2			L72-0531-05	CERAMIC FILTER		KPYMX
CF1 ,2			L72-0536-05	CERAMIC FILTER		TE
L3			L30-0498-05	FM IFT	TE	
L5			L79-0125-05	LC FILTER		
L7			L30-0467-05	AM IFT		
L10			L40-1091-17	SMALL FIXED INDUCTØR	KPYMX	
L103			L39-1309-05	COMBINATION COIL		
L103			L39-1310-05	COMBINATION COIL		
L106			L40-1091-17	SMALL FIXED INDUCTØR		
L201, 202			L40-1011-17	SMALL FIXED INDUCTØR(100UH,K)		
X1			L77-1122-05	CRYSTAL RESONATOR 7.200MHz		
X2			L78-0295-05	RESONATOR 456.000kHz		
X201			L78-0602-05	RESONATOR 6.300MHz		
X202			L77-2111-05	CRYSTAL RESONATOR 32.768kHz		
X203			L78-0244-05	RESONATOR 4.000MHz		
C	1B		N35-3008-46	BINDING HEAD MACHINE SCREW		

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CP201			R90-0482-05	MULTI-COMP 100KX4 J 1/6W		
CP202			R90-0852-05	MULTI-COMP 2.2KX4		
CP203			R90-0492-05	MULTI-COMP 100KX8 J 1/6W		
CP204			R90-0500-05	MULTI-COMP 100KX6 J 1/4W		
R11			RD14NB2E470J	RD 47 J 1/4W		
R31			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R38			RD14NB2E221J	RD 220 J 1/4W		
R42			RD14NB2E101J	RD 100 J 1/4W		
R73			RD14NB2E222J	RD 2.2K J 1/4W		
R74			RS14KB3D561J	FL-PROOF RS 560 J 2W		
R111			RD14NB2E101J	RD 100 J 1/4W		
R202, 203			RS14KB3D332J	FL-PROOF RS 3.3K J 2W		
R288			RS14KB3A330J	FL-PROOF RS 33 J 1W		
VR1			R12-3686-05	TRIMMING POT.(22K) AM, FM ADJ		
VR2 , 3			R12-1619-05	TRIMMING POT.(4.7K)MPX ADJ		
S1 -27			S40-1064-05	PUSH SWITCH KEY BOARD		
S101			S31-2094-05	SLIDE SWITCH ch SPACE	YM	
D3			HZS5.1N(B2)	ZENER DIODE		
D3			RD5.1ES(B2)	ZENER DIODE		
D5			HSS104	DIODE		
D5			1SS133	DIODE		
D11			HZS13N(B2)	ZENER DIODE		
D11			RD13ES(B2)	ZENER DIODE		
D111, 112			HSS104	DIODE		
D111, 112			1SS133	DIODE		
D120			HZS3.3N(B2)	ZENER DIODE		
D120			RD3.3ES(B2)	ZENER DIODE		
D201-203			HSS104	DIODE		
D201-203			1SS133	DIODE		
D204			HZS5.6N(B2)	ZENER DIODE		
D204			RD5.6ES(B2)	ZENER DIODE		
D205			HSS104	DIODE	TE	
D205			1SS133	DIODE	TE	
D206			HSS104	DIODE	YM	
D206			1SS133	DIODE	YM	
D206-208			HSS104	DIODE	X	
D206-208			1SS133	DIODE	X	
D207, 208			HSS104	DIODE	TE	
D207, 208			1SS133	DIODE	TE	
D208			HSS104	DIODE	KP	
D208			1SS133	DIODE	KP	
D208-217			HSS104	DIODE	YM	
D208-217			1SS133	DIODE	YM	
D210-215			HSS104	DIODE	YM	
D210-215			1SS133	DIODE	KPTE	
D210-217			HSS104	DIODE	KPTE	
D210-217			1SS133	DIODE	X	
D217			HSS104	DIODE	X	
D217			1SS133	DIODE	KPTE	
D218			HZS7.5S(B)	ZENER DIODE	KPTE	
D218			RD7.5JS(B)	ZENER DIODE	KPTE	
D219, 220			HZS16N(B2)	ZENER DIODE		
D219, 220			RD16ES(B2)	ZENER DIODE		
D221-234			HSS104	DIODE		

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D221-234 D237 D237 ED201 IC1			1SS133 HSS104 1SS133 FIP21AMW9Y LA1851N	DIODE DIODE DIODE INDICATOR TUBE IC(AM,FM TUNER)	YMX YMX	
IC2 IC201 IC202 IC203 IC204		*	LC7218 M38173M6-153FP CXP2201AQ XR-1091ECP AN780575F	IC(PLL SYNTHESIZER) IC(8BIT MICROPROCESSOR) IC(FL TUBE DRIVER) IC(EQUALIZER FILTER) IC(VOLTAGE REGULATOR/+5.75V)		
IC204 IC205 Q1 Q2 Q3		*	TA78057S PST529D 2SC1923(R,Ø) 2SC1845(F,E) 2SC1740S(Q,R)	IC(VOLTAGE REGULATOR/+5.75V) IC(SYSTEM RESET) TRANSISTOR TRANSISTOR TRANSISTOR	KPYMX	
Q3 Q3 ,4 Q3 ,4 Q5 Q5			2SC2785(F,E) 2SC1740S(Q,R) 2SC2785(F,E) 2SA1175(F,E) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KPYMX TE TE	
Q7 Q7 Q11 ,12 Q102 Q102			2SC1740S(Q,R) 2SC2785(F,E) 2SD2061 2SA1175(F,E) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KPYMX KPYMX	
Q102,103 Q102,103 Q107,108 Q107,108 Q109,110			2SA1175(F,E) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E) 2SD1302(S,T)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE TE YM YM	
Q111 Q111 Q113,114 Q113,114 Q116			2SA1175(F,E) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC2785(F,E) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE TE TE TE	
Q116 Q201 Q202 Q202 Q203			2SC2785(F,E) 2SA1534A(R,S) 2SA1175(F,E) 2SA933S(Q,R) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE YM YM	
Q203 Q205 Q205			2SC2785(F,E) 2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR		
A1 A1 DT1 DT1			W02-1046-05 W02-1153-05 W02-1041-15 W02-1042-15	ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE FM FRONT-END ASSY FM FRONT-END ASSY	TE KPYMX	
AUDIO UNIT (X09-3790-11;K,P ; 0-21:Y,M ; 0-71;X ;2-71;T,E)						
C1 ,2 C3 ,4 C5 ,6 C11 ,12 C15 -18			CC45FSL1H100D CC45FSL1H221J CC45FSL1H100D CC45FSL1H220J CE04LW1V4R7M	CERAMIC 10PF D CERAMIC 220PF J CERAMIC 10PF D CERAMIC 22PF J ELECTRO 4.7UF 35WV	YMX YMX	
C19 ,20			CC45FSL1H220J	CERAMIC 22PF J		

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A-B3

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C21 ,22			CE04LW1C101M	ELECTRØ 100UF 16WV	YMX	
C23 ,24			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	YMX	
C27 ,28			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV		
C29 ,30			CC45FSL1H220J	CERAMIC 22PF J		
C33 ,34			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV		
C35 -38			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C39 ,40			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV		
C43 ,44			CF92FV1H243J	MF 0.024UF J		
C45 ,46			CF92FV1H154J	MF 0.15UF J		
C49 ,50			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C51 ,52			CF92FV1H683J	MF 0.068UF J		
C53 ,54			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV		
C55 ,56			CE04LW1H2R2M	ELECTRØ 2.2UF 50WV		
C57 ,58			CK45FB1H471K	CERAMIC 470PF K		
C59 ,60			CC45FSL1H101J	CERAMIC 100PF J		
C61 ,62			CE04LW0J221M	ELECTRØ 220UF 6.3WV		
C63 -66			CF92FV1H104J	MF 0.10UF J		
C67 ,68			CQ92FM1H752J	MYLAR 7500PF J		
C69			C91-0769-05	CERAMIC 0.01UF K		
C70			CK45FF1H103Z	CERAMIC 0.010UF Z		
C71 ,72			CC45FSL1H220J	CERAMIC 22PF J		
C75 -78			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV		
C79 -82			CC45FSL1H220J	CERAMIC 22PF J		
C83 ,84			CE04LW1C220M	ELECTRØ 22UF 16WV		
C85 -90			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV		
C91 ,92			CK45FF1H103Z	CERAMIC 0.010UF Z		
C93			CE04LW1V470M	ELECTRØ 47UF 35WV		
C95 -97			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV		
C99 ,100			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	YMX	
C101,102		*	C90-3488-05	ELECTRØ 3300UF 40WV		
C103			CK45FF1H103Z	CERAMIC 0.010UF Z		
C104			C91-0754-05	CERAMIC 560PF J		
C105,106			CK45FF1H103Z	CERAMIC 0.010UF Z		
C107			C91-0754-05	CERAMIC 560PF J		
C108			CK45FF1H103Z	CERAMIC 0.010UF Z		
C109			CE04LW1C100M	ELECTRØ 10UF 16WV		
C110			CE04KW2A471M	ELECTRØ 470UF 100WV		
C111			CE04LW1H221M	ELECTRØ 220UF 50WV		
C117,118			CK45FF1H103Z	CERAMIC 0.010UF Z		
C119			CE04LW1V100M	ELECTRØ 10UF 35WV		
C120,121			CF92FV1H104J	MF 0.10UF J		
C122,123			CE04LW1C100M	ELECTRØ 10UF 16WV		
C124			CE04HW1H4R7M	NP-ELEC 4.7UF 50WV		
C125			CE04LW1H101M	ELECTRØ 100UF 50WV		
C126			CE04LW1H331M	ELECTRØ 330UF 50WV		
C127			CE04LW1H101M	ELECTRØ 100UF 50WV		
C128		*	CE04HW0J221M	NP-ELEC 220UF 6.3WV		
C129			C91-0757-05	CERAMIC 1000PF K		
C130			C91-0769-05	CERAMIC 0.01UF K		
C131			CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	YMX	
C132			CK45FB1H391K	CERAMIC 390PF K		
C133			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C134			CE04LW1V100M	ELECTRØ 10UF 35WV		
C135			CE04LW1H010M	ELECTRØ 1.0UF 50WV		
C136			C91-0085-05	CERAMIC 0.022UF N	YMX	

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C137			C91-0757-05	CERAMIC 1000PF K		
C138			CE04LW1HOR1M	ELECTRO 0.1UF 50WV	YMX	
C139			CC45FSL1H220J	CERAMIC 22PF J	YMX	
C140			CK45FB1H102K	CERAMIC 1000PF K	YMX	
C141			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	YMX	
C142			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C143, 144			CE04LW1C100M	ELECTRO 10UF 16WV		
C149			CE04LW1C470M	ELECTRO 47UF 16WV	YMX	
C150, 151			CE04LW1H010M	ELECTRO 1.0UF 50WV	YMX	
C152			CF92FV1H104J	MF 0.10UF J	YMX	
C153			CF92FV1H474J	MF 0.47UF J		
C154			CE04LW1C101M	ELECTRO 100UF 16WV		
C155-157			CF92FV1H154J	MF 0.15UF J		
C158			CC45FSL1H330J	CERAMIC 33PF J		
C159, 160			CF92FV1H153J	MF 0.015UF J		
C161			CF92FV1H333J	MF 0.033UF J		
C162			CC45FSL1H101J	CERAMIC 100PF J		
C163			CF92FV1H474J	MF 0.47UF J		
C164			CE04LW1A470M	ELECTRO 47UF 10WV		
C165			CE04LW1C221M	ELECTRO 220UF 16WV		
C166			CE04LW1C331M	ELECTRO 330UF 16WV		
C168			CE04LW1C101M	ELECTRO 100UF 16WV		
C169, 170			CK45FB1H471K	CERAMIC 470PF K		
C171			CK45FB1H021K	CERAMIC 020PF K		
C172-175			CC45FSL1H101J	CERAMIC 100PF J		
C176-179			C91-0754-05	CERAMIC 560PF J		
C181			CC45FSL1H101J	CERAMIC 100PF J		
C182, 183			CE04LW1C100M	ELECTRO 10UF 16WV		
C184			C91-0769-05	CERAMIC 0.01UF K		
C186			CE04LW1H331M	ELECTRO 330UF 50WV		
C187			CK45FF1H103Z	CERAMIC 0.010UF Z		
C190			CE04LW1C101M	ELECTRO 100UF 16WV		
C192-197			CE04LW1C101M	ELECTRO 100UF 16WV		
C198, 199			CE04LW1C100M	ELECTRO 10UF 16WV		
C200			CE04LW1E471M	ELECTRO 470UF 25WV		
C201		*	CK45FF1H561K	CERAMIC 560PF K		
J1			E20-0475-05	LOCK TERMINAL BOARD SPEAKERS		
J2			E63-0041-05	PHONE JACK SURROUND OUT	YMX	
J3			E13-0138-05	PHONE JACK SUPER WOOFER		
J4			E08-1509-05	RECTANGULAR RECEPTACLE EXTERNA		
J5			E63-0013-05	PHONE JACK AUX INPUT		
J6			E11-0220-05	MINIATURE PHONE JACK MIC	YMX	
630	2C	*	F20-1371-05	INSULATING SHEET		
F1 ,2			F05-3121-05	FUSE (SEMKO) (250V T3.15A)	YMXTE	
F1 ,2			F05-4028-05	FUSE (UL) (125V 4A)	KP	
F3 -5			F05-1623-05	FUSE (SEMKO) (250V T1.6A)	XTE	
F3 -6			F05-1623-05	FUSE (SEMKO) (250V T1.6A)	YM	
F3 ,4			F04-2025-05	FUSE (UL) (250V 2A)	KP	
F5			F05-4028-05	FUSE (UL) (125V 4A)	KP	
CN17-28			J13-0075-05	FUSE CLIP	YM	
CN17, 18			J13-0075-05	FUSE CLIP	KPXTE	
CN21-28			J13-0075-05	FUSE CLIP	KPXTE	

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L1 , 2			L39-0085-05	PHASE COMPENSATION COIL		
A	2C		N09-1236-05	TAPPING SCREW (3X16)		
F	1C, 2C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
G	2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
CP1			R90-0826-05	MULTI-COMP 0.22X2 J 5W		
R89 , 90			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R93 , 94			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R107, 108			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R110			RS14KB3D331J	FL-PROOF RS 330 J 2W		
R123-128			RD14NB2E4R7J	RD 4.7 J 1/4W		
R201, 202			RS14KB3D2R2J	FL-PROOF RS 2.2 J 2W		
R211-213			RD14NB2E5R6J	RD 5.6 J 1/4W		
R228			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R251			RS14KB3A5R6J	FL-PROOF RS 5.6 J 1W		
R254			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R255			RD14NB2E471J	RD 470 J 1/4W	YMX	
R269			RD14NB2E4R7J	RD 4.7 J 1/4W		
R270			RD14NB2E222J	RD 2.2K J 1/4W		
R271			RD14NB2E4R7J	RD 4.7 J 1/4W		
R273			RS14KB3D122J	FL-PROOF RS 1.2K J 2W		
R274, 275			RD14NB2E4R7J	RD 4.7 J 1/4W		
R276			RS14KB3A101J	FL-PROOF RS 100 J 1W		
R284, 285			RS14KB3D122J	FL-PROOF RS 1.2K J 2W		
R291			R92-0173-05	RC 2.2M M 1/2W	KP	
R292, 293			RS14KB3D122J	FL-PROOF RS 1.2K J 2W		
R294			RS14KB3A270J	FL-PROOF RS 27 J 1W		
R305			RS14KB3D271J	FL-PROOF RS 270 J 2W		
VR1		*	R29-5076-05	POTENTIOMETER VOLUME		
VR2		*	R10-5064-05	POTENTIOMETER MIC MIXING	YMX	
K1			S51-2094-05	MAGNETIC RELAY		
K3			S76-0005-05	MAGNETIC RELAY		
S1			S31-2322-05	SLIDE SWITCH VOLTAGE SELECTOR	YM	
D1			D3SBA20F03	DIODE		
D1			RBV-402LFA	DIODE		
D2 , 3			HSS104A	DIODE		
D2 , 3			1SS131	DIODE		
D8 , 9			S5688B	DIODE		
D8 , 9			1SR139-100	DIODE		
D10 , 11			HZS16N(B)	ZENER DIODE		
D10 , 11			RD16ES(B)	ZENER DIODE		
D12		*	HZS13N(B)	ZENER DIODE		
D12			RD13ES(B)	ZENER DIODE		
D16			HSS104A	DIODE		
D16			1SS131	DIODE		
D17			HZS11N(B)	ZENER DIODE	YMX	
D17			RD11ES(B)	ZENER DIODE	YMX	
D19			HZS4.7N(B)	ZENER DIODE		
D19			RD4.7ES(B)	ZENER DIODE		
D20			HZS3.3N(B)	ZENER DIODE		
D20			RD3.3ES(B)	ZENER DIODE		
D21			HSS104A	DIODE		
D21			1SS131	DIODE		
D23			HZS4.7N(B)	ZENER DIODE		

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D23			RD4.7ES(B)	ZENER DIODE		
D25 ,26			HSS104A	DIODE		
D25 ,26			1SS131	DIODE		
D29			HZS4.7N(B)	ZENER DIODE		
D29			RD4.7ES(B)	ZENER DIODE		
D31 ,32			HSS104A	DIODE		
D31 ,32			1SS131	DIODE		
D34 ,35			HSS104A	DIODE		
D34 ,35			1SS131	DIODE		
D38 ,39			HSS104A	DIODE		
D38 ,39			1SS131	DIODE		
D41 -44			HSS104A	DIODE	KPTE	
D41 -44			1SS131	DIODE	KPTE	
D41 -47			HSS104A	DIODE	YMX	
D41 -47			1SS131	DIODE	YMX	
D47			HSS104A	DIODE	KPTE	
D47			1SS131	DIODE	KPTE	
D48			HZS3.3N(B)	ZENER DIODE		
D48			RD3.3ES(B)	ZENER DIODE		
D51 ,52			S5688B	DIODE		
D51 ,52			1SR139-100	DIODE		
IC1			TC9163N	IC(BILATERAL SWITCH X16)		
IC2			NJM4565D-D	IC(OP AMP X2)	YMX	
IC2			XRA15218-DX	IC(OP AMP X2)	YMX	
IC3			CXA1642P	IC(KARAOKE VOCAL CANCEL)	YMX	
IC4			NJM4565D-D	IC(OP AMP X2)	YMX	
IC4			XRA15218-DX	IC(OP AMP X2)	YMX	
IC5			TDA3810	IC(PSEUDO STEREO CIRCUIT)		
IC6			NJM4580D-D	IC(OP AMP X2)		
IC7		*	STK301-090	CUSTOM IC		
IC8			NJM4565D-D	IC(OP AMP X2)		
IC8			XRA15218-DX	IC(OP AMP X2)		
IC9			UPC4570C-A	IC(OP AMP X2)		
IC10			NJM4565D-D	IC(OP AMP X2)		
IC10			XRA15218-DX	IC(OP AMP X2)		
IC11			TA8409S	IC(MOTOR CONTROL)		
IC12			NJM4580L-D	IC(OP AMP)		
IC13		*	STK401-041	IC(25W AF POWER AMP)	KP	
IC13		*	STK401-051	IC(30W AF POWER AMP)	YMX	
IC13		*	STK401-241	IC(25W AF POWER AMP)	TE	
IC14			NJM4580D-D	IC(OP AMP X2)		
IC16			UPC4570C-A	IC(OP AMP X2)		
IC17			TC9215P	IC(ANALOG SWITCH X 6)	YMX	
Q1 ,2			2SC2878(B)	TRANSISTOR		
Q3 ,4			2SC2003(L,K)	TRANSISTOR		
Q5			2SC1845(F,E)	TRANSISTOR		
Q6			2SA1175(F,E)	TRANSISTOR		
Q6			2SA933S(Q,R)	TRANSISTOR		
Q7 ,8			2SC2003(L,K)	TRANSISTOR		
Q9			2SA1175(F,E)	TRANSISTOR		
Q9			2SA933S(Q,R)	TRANSISTOR		
Q10			2SD2012	TRANSISTOR		
Q10			2SD2061	TRANSISTOR		
Q11			2SB1370	TRANSISTOR		
Q11			2SB1375	TRANSISTOR		

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Q15			2SD2012	TRANSISTOR		
Q15			2SD2061	TRANSISTOR		
Q16			DTC124ES	DIGITAL TRANSISTOR		
Q16			UN4212	DIGITAL TRANSISTOR		
Q17 , 18			2SC2878(B)	TRANSISTOR		

A-B3

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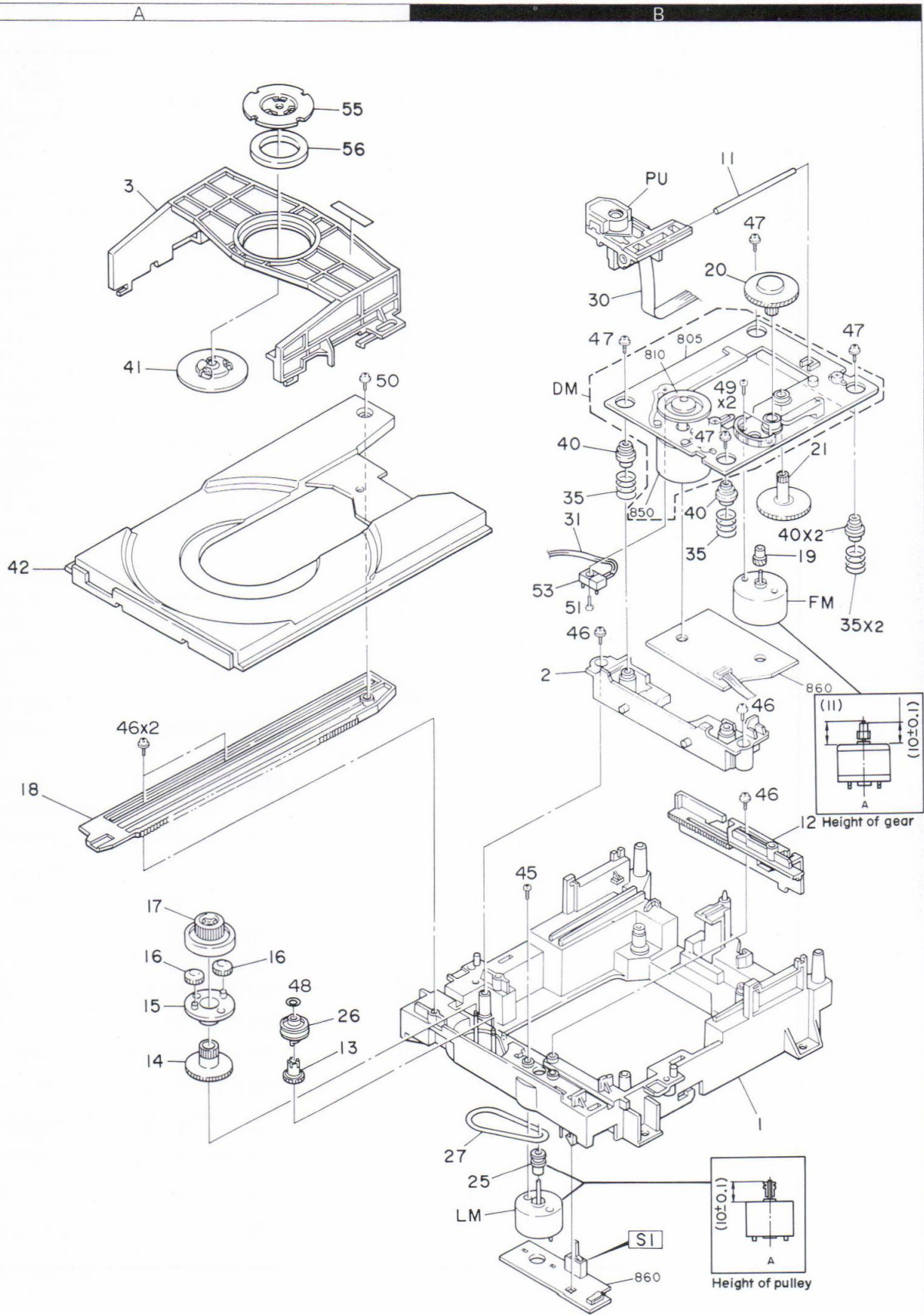
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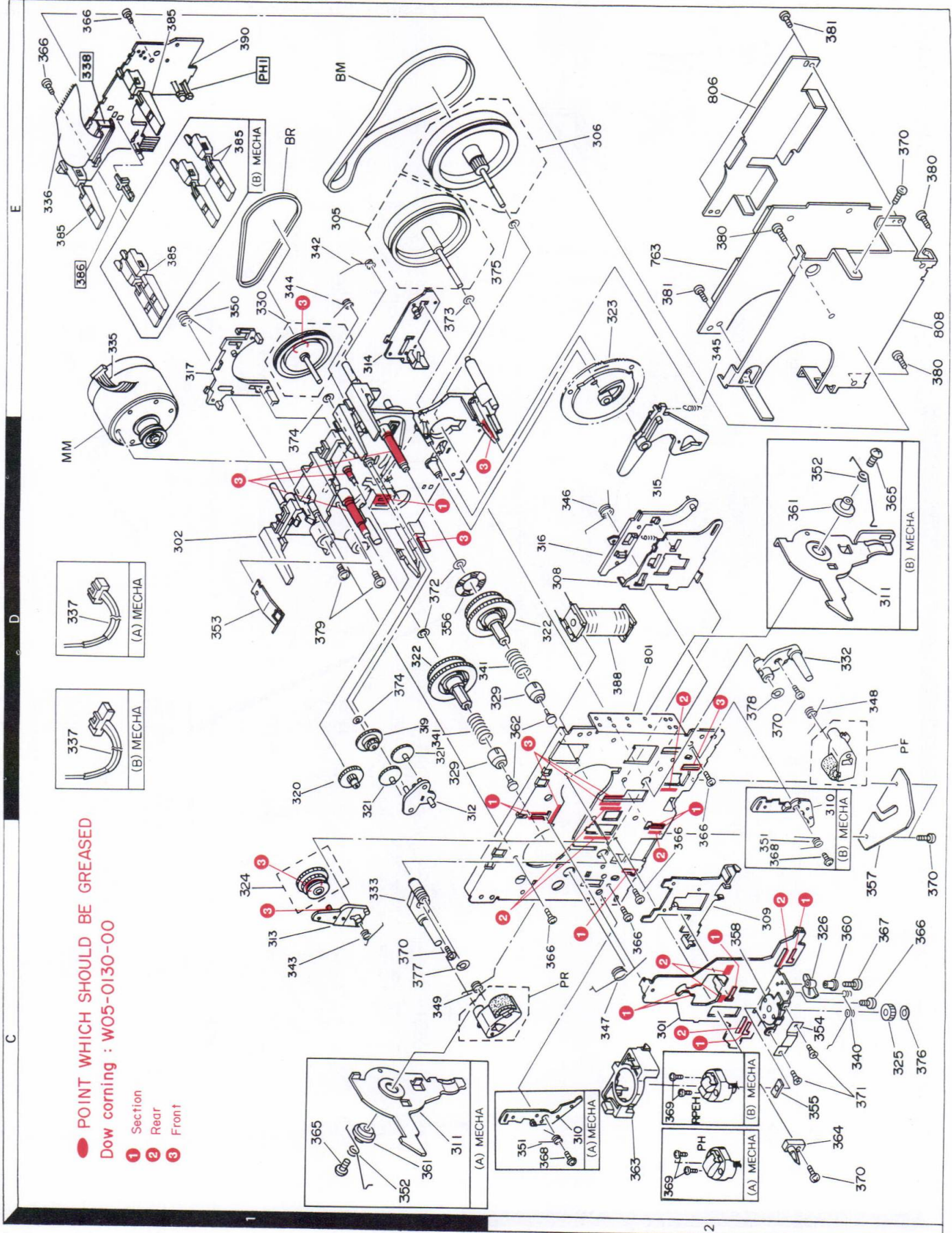
UD-301/351

EXPLODED VIEW (CD MECHANISM UNIT)

X-B3



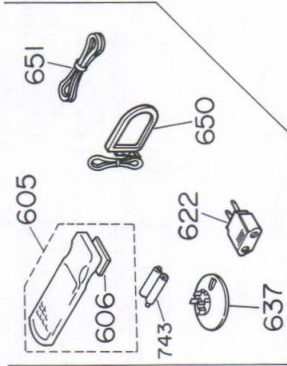
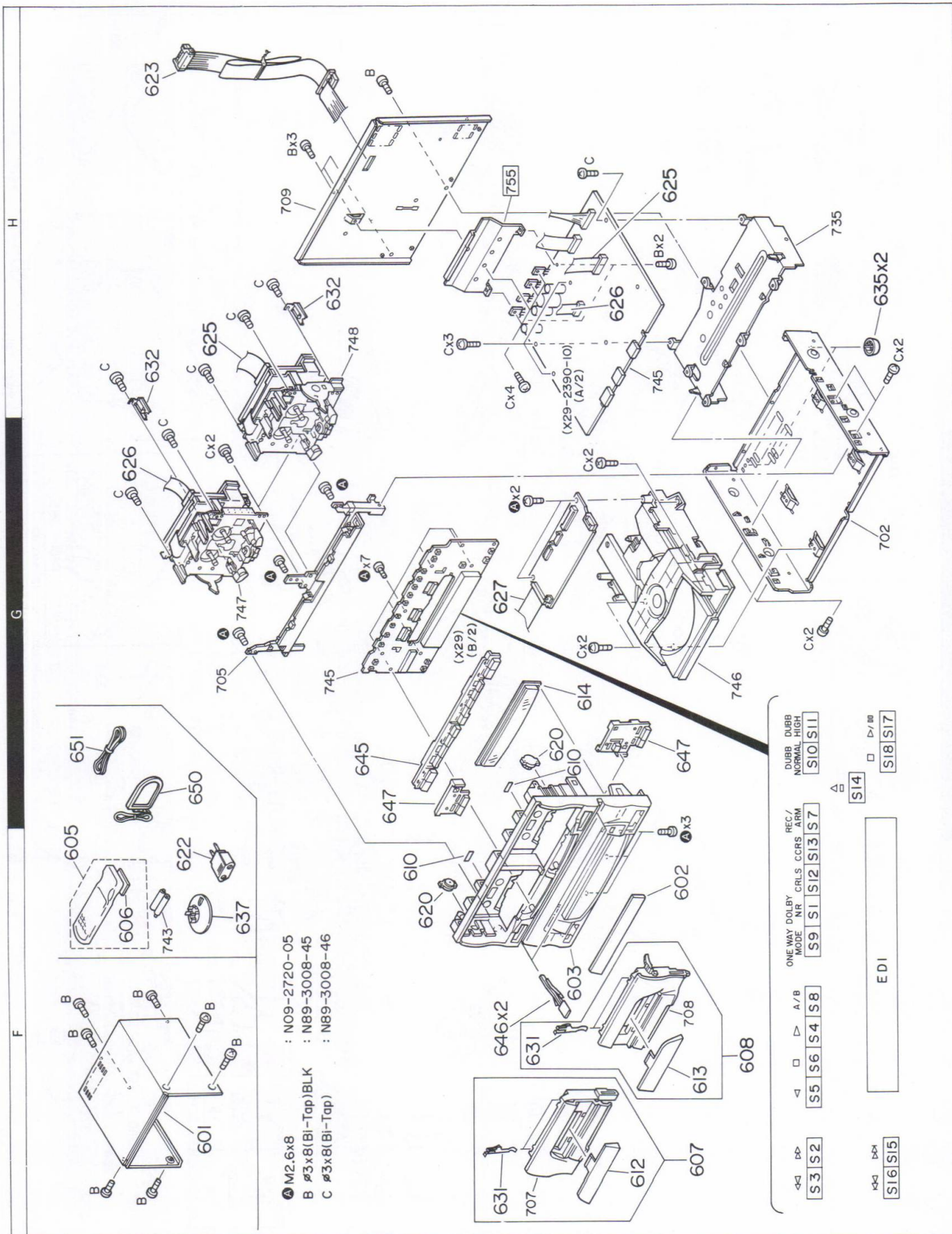
EXPLODED VIEW (CASSETTE MECHANISM UNIT)



X-B3

EXPLODED VIEW (UNIT)

X-B3



- Ⓐ M2.6x8 : N09-2720-05
- Ⓑ ⌀3x8(BI-Tap)BLK : N89-3008-45
- Ⓒ ⌀3x8(BI-Tap) : N89-3008-46

<table border="1"> <tr> <td>←3</td><td>S3</td><td>S2</td> <td>←</td><td>S5</td><td>S6</td><td>S4</td><td>S8</td> <td>▷</td><td>A/B</td> <td>REC./ MODE</td><td>DOLBY NR</td> <td>CRLS</td><td>CCRS</td><td>ARM</td> <td>DUBB</td><td>DUBB NORMAL</td><td>HIGH</td> </tr> <tr> <td></td><td></td><td></td> <td></td><td>S9</td><td>S1</td><td>S12</td><td>S13</td><td>S7</td> <td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td>S10</td><td>S11</td> </tr> </table>	←3	S3	S2	←	S5	S6	S4	S8	▷	A/B	REC./ MODE	DOLBY NR	CRLS	CCRS	ARM	DUBB	DUBB NORMAL	HIGH					S9	S1	S12	S13	S7								S10	S11	<table border="1"> <tr> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td> <td></td><td></td><td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td> <td></td><td></td><td></td> </tr> </table>																																		
←3	S3	S2	←	S5	S6	S4	S8	▷	A/B	REC./ MODE	DOLBY NR	CRLS	CCRS	ARM	DUBB	DUBB NORMAL	HIGH																																																						
				S9	S1	S12	S13	S7								S10	S11																																																						

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X-B3 (SINGAPORE MADE)						
601	1F	*	A01-3006-01	METALLIC CABINET		
602	2F	*	A29-0329-03	PANEL CD DOOR		
603	2F	*	A60-0345-11	PANEL		
605	1F	*	X94-1011-31	REMOTE CONTROL ASSY UNIT		
606	1F		A09-0126-03	BATTERY COVER		
607	2F	*	A53-1388-13	CASSETTE HOLDER ASSY		A
608	2F	*	A53-1390-03	CASSETTE HOLDER ASSY		B
610	1F, 2G		B07-1720-04	ESCUTCHEON		
612	2F	*	B10-1955-03	FRONT GLASS CASSETTE HOLDER		A
613	2F	*	B10-1956-03	FRONT GLASS CASSETTE HOLDER		B
614	2G	*	B10-1957-03	FRONT GLASS CD DOOR		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B46-0307-03	WARRANTY CARD	K	
-		*	B60-1150-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1151-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-1152-00	INSTRUCTION MANUAL (GERMAN)	E	
-		*	B60-1153-00	INSTRUCTION MANUAL (DUTCH)	E	
-		*	B60-1154-00	INSTRUCTION MANUAL (ITALIAN)	E	
-		*	B60-1155-00	INSTRUCTION MANUAL (SPANISH)	ME	
-		*	B60-1156-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-1157-00	INSTRUCTION MANUAL (ARABIC)	M	
620	1F, 2G		D39-0198-05	DAMPER		
622	1F		E03-0115-05	AC PLUG ADAPTER	M	
623	1H		E30-2686-05	CORD WITH CONNECTOR		
625	1H, 2H		E35-0302-05	FLAT CABLE X29(CN9)- B DECK		
626	1G, 2H		E35-0305-05	FLAT CABLE X29(CN8)- A DECK		
627	2G	*	E35-0552-15	FLAT CABLE X29(CN10)-X32(CN1)		
631	1F		G02-1001-24	FLAT SPRING		
632	1H	*	G02-1012-14	FLAT SPRING CASSETTE HOLDER		
-		*	H50-0532-04	ITEM CARTON CASE	K	
-		*	H50-0533-04	ITEM CARTON CASE	TE	
-		*	H60-0122-04	OUTER CARTON CASE	PMX	
-		*	H10-5434-02	POLYSTYRENE FOAMED FIXTURE	KTE	
-		*	H10-5435-02	POLYSTYRENE FOAMED FIXTURE	KTE	
-		*	H10-5493-01	POLYSTYRENE FOAMED FIXTURE	PMX	
-		*	H10-5494-01	POLYSTYRENE FOAMED FIXTURE	PMX	
-			H13-0086-04	CARTON BOARD		
-		*	H20-0581-04	PROTECTION COVER	M	
-			H25-0632-24	PROTECTION BAG	KPMXE	
-			H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-			H25-0672-04	PROTECTION BAG	KPXTE	
635	2H		J02-0370-05	FOOT		
637	1F		J19-2815-04	ANTENNA HOLDER		
645	1G	*	K29-5646-03	KNØB DECK CONTROL		
646	1F	*	K29-5647-04	KNØB EJECT		
647	1G, 2G	*	K29-5645-03	KNØB CD CONTROL		

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A B C	1G, 2G 1F, 1H 1G, 2G		N09-2720-05 N89-3008-45 N89-3008-46	TAPTITE SCREW (2.6X8) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
650 651 652	1G 1G 1G		T90-0174-05 T90-0175-05 T90-0185-05	LOOP ANTENNA T TYPE ANTENNA ANTENNA ADAPTOR	TE	
X-B3 (MALAYSIA MADE)						
601 602 603 605 606	1F 2F 2F 1F 1F	* * * * *	A01-3006-01 A29-0329-03 A60-0345-01 X94-1011-31 A09-0126-03	METALLIC CABINET PANEL CD DOOR PANEL REMOTE CONTROL ASSY UNIT BATTERY COVER		W
607 608	2F 2F	* *	A53-1388-03 A53-1390-03	CASSETTE HOLDER ASSY CASSETTE HOLDER ASSY		A B
610 612 613 614 -	1F, 2G 2F 2F 2F -	* * * * -	B07-1720-04 B10-1955-03 B10-1956-03 B10-1957-03 B46-0092-23	ESCUTCHEON FRONT GLASS CASSETTE HOLDER FRONT GLASS CASSETTE HOLDER FRONT GLASS CD DOOR WARRANTY CARD	K	A B
- - -	- - -	* * *	B46-0121-23 B60-1150-00 B60-1151-00	WARRANTY CARD INSTRUCTION MANUAL (ENGLISH) INSTRUCTION MANUAL (FRENCH)	P P	
620	1F, 2G		D39-0176-05	DAMPER		
622 625 626	1G 1H, 2H 1G, 2H		E30-2686-05 E35-0302-05 E35-0305-05	CORD WITH CONNECTOR FLAT CABLE X29(CN9)- B DECK FLAT CABLE X29(CN8)- A DECK		
631 632	1G, 1H 2F	* *	G02-1001-24 G02-1012-04	FLAT SPRING FLAT SPRING CASSETTE HOLDER		
- - - - -	- - - - -	* * * * *	H50-0534-04 H60-0123-04 H10-5436-02 H10-5437-02 H10-5495-01	ITEM CARTON CASE OUTER CARTON CASE POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE	K P K K P	
- - -	- - -	* * *	H10-5496-01 H13-0086-04 H25-0632-24 H25-0672-04	POLYSTYRENE FOAMED FIXTURE CARTON BOARD PROTECTION BAG PROTECTION BAG	P	
635 637	2G 1G	* *	J21-5946-02 J02-0370-05 J19-2815-04	UNIT MOUNTING HARDWARE FOOT ANTENNA HOLDER		
645 646 647	1G 1F 1G, 2G	* * *	K29-5646-03 K29-5647-04 K29-5645-03	KNOB DECK CONTROL KNOB EJECT KNOB CD CONTROL		
A B C	1G 1F, 1H 1G, 2G		N09-2720-05 N89-3008-45 N89-3008-46	TAPTITE SCREW (2.6X8) BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
650 651	1G 1G		T90-0174-05 T90-0175-05	LOOP ANTENNA T TYPE ANTENNA		
ELECTRIC UNIT (X25-4840-21)						
S1			S33-2062-05	LEVER SWITCH		

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RECORD/PLAYBACK AMPLIFIER UNIT (X28-2450-10)						
C1 ,2			CK45FB1H561K	CERAMIC 560PF	K	
C5 ,6			CE04LW1H2R2M	ELECTRØ 2.2UF	50WV	
C7 ,8			CK45FB1H391K	CERAMIC 390PF	K	
C9 ,10			CF92FV1H223J	MF 0.022UF	J	
C11 ,12			CE04LW1C470M	ELECTRØ 47UF	16WV	
C13			CE04LW1C101M	ELECTRØ 100UF	16WV	
C14			CQ93HP2A822J	MYLAR 8200PF	J	
C15 -18			CC45FSL1H221J	CERAMIC 220PF	J	
C19			CK45FB2H471K	CERAMIC 470PF	K	
C20			CE04LW1V4R7M	ELECTRØ 4.7UF	35WV	
C21 ,22			CK45FB1H332K	CERAMIC 3300PF	K	
C23			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C24			CK45FB1H102K	CERAMIC 1000PF	K	
C25			CK45FF1H223Z	CERAMIC 0.022UF	Z	
C51 ,52			CC45FSL1H221J	CERAMIC 220PF	J	
C53 ,54			CK45FB1H391K	CERAMIC 390PF	K	
C55 ,56			CE04LW1H2R2M	ELECTRØ 2.2UF	50WV	
C57 ,58			CK45FB1H391K	CERAMIC 390PF	K	
C59 ,60			CE04LW1C470M	ELECTRØ 47UF	16WV	
C61 ,62			CF92FV1H153J	MF 0.015UF	J	
C63			CE04LW1C101M	ELECTRØ 100UF	16WV	
C64			CK45FB1H102K	CERAMIC 1000PF	K	
L1 ,2		*	L40-1035-20	SMALL FIXED INDUCTOR(10MH,J)		
L3			L32-0542-05	BIAS OSCILATING COIL		
VR1			R12-1617-05	TRIMMING POT.(2.2K)		
VR2			R12-1616-05	TRIMMING POT.(1K)		
VR3 ,4			R12-0605-05	TRIMMING POT.(220)		
VR5 ,6			R12-5072-05	TRIMMING POT.(100K)		
VR7			R12-1617-05	TRIMMING POT.(2.2K)		
VR8			R12-1616-05	TRIMMING POT.(1K)		
VR9 ,10			R12-0605-05	TRIMMING POT.(220)		
K1			S76-0018-05	MAGNETIC RELAY		
D1 -4			HSS104	DIODE		
D1 -4			1SS133	DIODE		
D6 -9			HSS104	DIODE		
D6 -9			1SS133	DIODE		
D10			HZS11N(B2)	ZENER DIODE		
D10			RD11ES(B2)	ZENER DIODE		
D51 -55			HSS104	DIODE		
D51 -55			1SS133	DIODE		
IC1 ,2			TA8125S	IC(2CH PRE AMP)		
Q1 ,2			2SC3246	TRANSISTOR		
Q3 ,4			2SC1845(F,E)	TRANSISTOR		
Q5			2SA992(F,E)	TRANSISTOR		
Q6			2SA1175(F,E)	TRANSISTOR		
Q6			2SA933S(Q,R)	TRANSISTOR		
Q7 -12			2SC1740S(Q,R)	TRANSISTOR		
Q7 -12			2SC2785(F,E)	TRANSISTOR		
Q13 ,14			2SC3246	TRANSISTOR		
Q15			2SA1175(F,E)	TRANSISTOR		
Q15			2SA933S(Q,R)	TRANSISTOR		

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Q16 Q16			2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR		
CONTROL UNIT (X29-2390-10)						
C1 ,2			CQ92FM1H222J	MYLAR 2200PF J		
C3 ,4			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C5 ,6			CQ92FM1H222J	MYLAR 2200PF J		
C7 -10			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C11 ,12			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C13 ,14			CK45FB1H682K	CERAMIC 6800PF K		
C15 ,16			C90-3254-05	ELECTRO 2.2UF 50WV		
C17 -20			CQ92FM1H222J	MYLAR 2200PF J		
C21 ,22			CK45FF1H223Z	CERAMIC 0.022UF Z		
C23 ,24			CQ92FM1H222J	MYLAR 2200PF J		
C25 -28			C90-3248-05	ELECTRO 0.1UF 50WV		
C29 ,30			C90-3244-05	ELECTRO 10UF 35WV		
C31 ,32			C90-3254-05	ELECTRO 2.2UF 50WV		
C33 ,34			C90-3251-05	ELECTRO 0.47UF 50WV		
C35 ,36			C90-3254-05	ELECTRO 2.2UF 50WV		
C37 ,38			CK45FB1H222K	CERAMIC 2200PF K		
C39 -44			CE04LW1V100M	ELECTRO 10UF 35WV		
C45 -52			CF92FV1H333J	MF 0.033UF J		
C53 ,54			C90-3253-05	ELECTRO 1UF 50WV		
C55 ,56			CE04LW1V100M	ELECTRO 10UF 35WV		
C57			CK45FF1H103Z	CERAMIC 0.010UF Z		
C101			CE04LW1V100M	ELECTRO 10UF 35WV		
C102			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C103,104			CC45FSL1H101J	CERAMIC 100PF J		
C105,106			CK45FB1H102K	CERAMIC 1000PF K		
C107			CQ92FM1H222J	MYLAR 2200PF J		
C108			CE04LW1H331M	ELECTRO 330UF 50WV		
C109			C91-0769-05	CERAMIC 0.01UF K		
C110,111			CK45FF1H103Z	CERAMIC 0.010UF Z		
C112			C90-3244-05	ELECTRO 10UF 35WV		
C113			CK45FF1H103Z	CERAMIC 0.010UF Z		
C201			CE04LW1V100M	ELECTRO 10UF 35WV		
C202			CE04LW1V102M	ELECTRO 1000UF 35WV		
C203			CC45FSL1H101J	CERAMIC 100PF J		
C204			CE04LW1V471M	ELECTRO 470UF 35WV		
C205			CE04LW1V100M	ELECTRO 10UF 35WV		
C206			CE04LW1A101M	ELECTRO 100UF 10WV		
C207			CE04LW1V100M	ELECTRO 10UF 35WV		
C208			C90-3253-05	ELECTRO 1UF 50WV		
C209			CE04LW1V102M	ELECTRO 1000UF 35WV		
C210			CE04LW1V101M	ELECTRO 100UF 35WV		
C211			CC45FSL1H101J	CERAMIC 100PF J		
C212			CE04LW1A101M	ELECTRO 100UF 10WV		
C213			CE04LW1H471M	ELECTRO 470UF 50WV		
C214,215			CE04LW1V101M	ELECTRO 100UF 35WV		
C216-218			CE04LW1E221M	ELECTRO 220UF 25WV		
C219			CE04LW1V100M	ELECTRO 10UF 35WV		
C220			CE04LW1H100M	ELECTRO 10UF 50WV		
C221			CE04LW1V101M	ELECTRO 100UF 35WV		
C222			CE04LW1H470M	ELECTRO 47UF 50WV		
C223			CE04LW1C472M	ELECTRO 4700UF 16WV		

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C224			CE04LW1A101M	ELECTRO 100UF 10WV		
C225			CE04LW1C102M	ELECTRO 1000UF 16WV		
C226			CE04LW1C472M	ELECTRO 4700UF 16WV		
C227			CE04LW1V100M	ELECTRO 10UF 35WV		
C228			CE04LW1C102M	ELECTRO 1000UF 16WV		
C229			C90-3222-05	ELECTRO 100UF 10WV		
C230			CK45FF1H223Z	CERAMIC 0.022UF Z		
C231			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C232			C90-1827-05	BACKUP 0.047F 5.5WV		
C233			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C234			CE04LW1C330M	ELECTRO 33UF 16WV		
C235, 236			CC45FSL1H221J	CERAMIC 220PF J		
C237			CE04LW1E221M	ELECTRO 220UF 25WV		
C238, 239			CK45FF1H103Z	CERAMIC 0.010UF Z		
CN8	2H		E40-4155-05	FLAT CABLE CONNECTOR		
CN9	2H		E40-4163-05	FLAT CABLE CONNECTOR		
CN10	2H	*	E40-4675-05	FLAT CABLE CONNECTOR		
L1 ,2			L79-1201-05	LC FILTER		
L3 ,4			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
X1			L78-0294-05	RESONATOR 10.000MHz		
B	2H		N89-3008-45	BINDING HEAD TAPTITE SCREW		
C	2H		N89-3008-46	BINDING HEAD TAPTITE SCREW		
CP1			R90-0818-05	MULTI-COMP 47KX5 J 1/6W		
R201			RD14NB2E102J	RD 1.0K J 1/4W		
R202			RS14KB3D821J	FL-PROOF RS 820 J 2W		
R211			RD14NB2E101J	RD 100 J 1/4W		
R216			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R218			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R228		*	RD14NB2E1R5J	RD 1.5 J 1/4W		
S1 -18			S40-1064-05	PUSH SWITCH		
D101			HZS4.7N(B)	ZENER DIODE		
D101			RD4.7ES(B)	ZENER DIODE		
D102,103			RB721Q	DIODE		
D104-126			HSS104	DIODE		
D104-126			1SS133	DIODE		
D130-135			HSS104	DIODE		
D130-135			1SS133	DIODE		
D201			D3SBA20F03	DIODE		
D201			RBV-402LFA	DIODE		
D202			HZS6.8N(B2)	ZENER DIODE		
D202			RD6.8ES(B2)	ZENER DIODE		
D203			HSS104A	DIODE		
D203			1SS131	DIODE		
D204, 205			HSS104	DIODE		
D204, 205			1SS133	DIODE		
D206			HZS6.2N(B2)	ZENER DIODE		
D206			RD6.2ES(B2)	ZENER DIODE		
D207, 208			S5688B	DIODE		
D207, 208			1SR139-100	DIODE		
D209			HZS3.9N(B2)	ZENER DIODE		
D209			RD3.9ES(B2)	ZENER DIODE		
D210-212			HSS104A	DIODE		

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D210-212			1SS131	DIODE		
D213			HZS15N(B)	ZENER DIODE		
D213			RD15ES(B)	ZENER DIODE		
D214			HZS7.5S(B2)	ZENER DIODE		
D214			RD7.5JS(B2)	ZENER DIODE		
D215, 216			S5688B	DIODE		
D215, 216			1SR139-100	DIODE		
D217			HZS6.8N(B2)	ZENER DIODE		
D217			RD6.8ES(B2)	ZENER DIODE		
D218			HSS104A	DIODE		
D218			1SS131	DIODE		
D219-221			HSS104	DIODE		
D219-221			1SS133	DIODE		
D222			HZS16N(B2)	ZENER DIODE		
D222			RD16ES(B2)	ZENER DIODE		
ED1		*	11-BT-113GK	INDICATOR TUBE		
IC1		*	CXP82324-128Q	IC		
IC2			HA12157NT	IC(DOLBY B/C NR)		
IC3			TC4052BP	IC(4CH MPX/DE-MPX)		
IC3			XRU4052B	IC(MULTIPLEXER/DEMULTIPLEXER)		
IC4			NJM4565D	IC(OP AMP X2)		
IC4			XRA15218	IC(OP AMP X2)		
IC5		*	MN1381-R(TA)	IC(VOLTAGE DETECT)		
IC5		*	S-80740AL	IC(VOLTAGE DETECTOR)		
Q1 -6			2SC2878(B)	TRANSISTOR		
Q7 -14			DTC124ES	DIGITAL TRANSISTOR		
Q7 -14			UN4212	DIGITAL TRANSISTOR		
Q15 ,16			2SC1740S(Q,R)	TRANSISTOR		
Q15 ,16			2SC2785(F,E)	TRANSISTOR		
Q101			DTC124ES	DIGITAL TRANSISTOR		
Q101			UN4212	DIGITAL TRANSISTOR		
Q102			DTA124ES	DIGITAL TRANSISTOR		
Q102			UN4112	DIGITAL TRANSISTOR		
Q103			DTC124ES	DIGITAL TRANSISTOR		
Q103			UN4212	DIGITAL TRANSISTOR		
Q104			2SC3940A	TRANSISTOR		
Q105, 106			2SC1740S(Q,R)	TRANSISTOR		
Q105, 106			2SC2785(F,E)	TRANSISTOR		
Q107, 108			DTA124ES	DIGITAL TRANSISTOR		
Q107, 108			UN4112	DIGITAL TRANSISTOR		
Q109, 110			DTC124ES	DIGITAL TRANSISTOR		
Q109, 110			UN4212	DIGITAL TRANSISTOR		
Q111			DTA124ES	DIGITAL TRANSISTOR		
Q111			UN4112	DIGITAL TRANSISTOR		
Q201, 202			2SD2061	TRANSISTOR		
Q203			2SA954(L,K)	TRANSISTOR		
Q204			2SC1740S(Q,R)	TRANSISTOR		
Q204			2SC2785(F,E)	TRANSISTOR		
Q205			2SC3944A	TRANSISTOR		
Q206, 207			2SD1944	TRANSISTOR		
Q208			2SA954(L,K)	TRANSISTOR		
Q209			2SC1740S(Q,R)	TRANSISTOR		
Q209			2SC2785(F,E)	TRANSISTOR		

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SIGNAL PROCESSOR UNIT (X32-2260-01)						
C1 -4			CK73FB1H103K	CHIP C 0.010UF K		
C5			C90-3215-05	ELECTRØ 220UF 6.3WV		
C31			CK73FB1E104K	CHIP C 0.10UF K		
C32 ,33			CC73FSL1H101J	CHIP C 100PF J		
C35			CC73FSL1H101J	CHIP C 100PF J		
C37 ,38			C90-3211-05	ELECTRØ 33UF 6.3WV		
C39			C90-3253-05	ELECTRØ 1UF 50WV		
C40			CK73FB1E104K	CHIP C 0.10UF K		
C41			CC73FSL1H470J	CHIP C 47PF J		
C42			CK73FB1H332K	CHIP C 3300PF K		
C43			CK73FB1H222K	CHIP C 2200PF K		
C44			CK73FB1H103K	CHIP C 0.010UF K		
C45			CK73FB1E104K	CHIP C 0.10UF K		
C46			CK73FB1E563K	CHIP C 0.056UF K		
C47			C90-3251-05	ELECTRØ 0.47UF 50WV		
C48			CK73FB1H103K	CHIP C 0.010UF K		
C49			CK73FB1E104K	CHIP C 0.10UF K		
C50			CK73FB1H561K	CHIP C 560PF K		
C51 ,52			CK73FB1H333K	CHIP C 0.033UF K		
C53			C90-3209-05	ELECTRØ 10UF 6.3WV		
C54			CK73FB1H222K	CHIP C 2200PF K		
C55			CK73FB1H152K	CHIP C 1500PF K		
C56			CC73FSL1H820J	CHIP C 82PF J		
C57			C90-3471-05	ELECTRØ 1UF 50WV		
C59			C90-3227-05	ELECTRØ 33UF 16WV		
C60			C90-3210-05	ELECTRØ 22UF 6.3WV		
C61 ,62			CK73FB1H103K	CHIP C 0.010UF K		
C63			CK73FB1E104K	CHIP C 0.10UF K		
C64			CK73FB1H223K	CHIP C 0.022UF K		
C65			CK73FB1H332K	CHIP C 3300PF K		
C66			C90-3471-05	ELECTRØ 1UF 50WV		
C67			C90-3450-05	ELECTRØ 22UF 6.3WV		
C68 ,69			CK73FB1H103K	CHIP C 0.010UF K		
C70			C90-3471-05	ELECTRØ 1UF 50WV		
C101			CK73FB1H473K	CHIP C 0.047UF K		
C102			CK73FB1H152K	CHIP C 1500PF K		
C103			CE04LW1A470M	ELECTRØ 47UF 10WV		
C104			CK73FB1H103K	CHIP C 0.010UF K		
C105,106			CC73FCH1H100D	CHIP C 10PF D		
C107,108			C90-3212-05	ELECTRØ 47UF 6.3WV		
C109			CC73FCH1H050C	CHIP C 5PF C		
C112			C90-3214-05	ELECTRØ 100UF 6.3WV		
C113,114			CK73FB1H221K	CHIP C 220PF K		
C115-118			CK73FB1H271K	CHIP C 270PF K		
C122			C90-3215-05	ELECTRØ 220UF 6.3WV		
C125-129			CK73FB1H103K	CHIP C 0.010UF K		
C131			CK73FB1H222K	CHIP C 2200PF K		
C132			C90-3253-05	ELECTRØ 1UF 50WV		
X1			L77-2109-05	CRYSTAL RESONATOR 16.9344MHz		
VR1 ,2			R12-3686-05	TRIMMING POT.(22K)		
D1 -5			MA110	DIODE		

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X-B3

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
D6 D6 D7 -12 D13 D13			DTZ5.1(B) MA8051-M MA110 DTZ2.7(B) MA8027-H	ZENER DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE		
IC1 IC2 IC3 IC4 ,5 IC6			UPD75216AGF-676 TA8409F CXA1372Q TA8406F CXD2500AQ	IC IC(MOTOR DRIVER) IC(CD RF SERVØ) IC IC(SIGNAL PROCESSOR)		
IC7 IC8 IC9 IC10 IC11			SM5871AS NJM4565M XRA10393F TC74HCU04AF M5237ML	IC(D/A CONVERTER x8 OVER SAM) IC(OP AMP) IC IC(HEX INVERTER SMD) IC(VOLTAGE REGULATOR)		
Q1 Q2			DTC124EK 2SB1308(Q,R)	DIGITAL TRANSISTOR TRANSISTOR		
CD MECHANISM ASSY (X92-1750-41)						
1 2 3 11 12	3B 2B 1A 1B 2B		A10-2974-01 A11-0756-03 A11-0757-02 D10-2490-04 D10-3253-03	CHASSIS SUB CHASSIS SUB CHASSIS ROD SLIDER		
13 14 15 16 17	3A 3A 3A 3A 2A		D13-0975-04 D13-0976-03 D13-0977-03 D13-0978-03 D13-0979-03	GEAR GEAR GEAR GEAR GEAR		
18 19 20 21 25	2A 2B 1B 1B 3B		D13-0980-02 D13-0894-05 D13-0895-05 D13-0896-05 D15-0328-04	LACK (GEAR) GEAR GEAR GEAR MOTOR PULLEY		
26 27 30 31 35	3A 3B 1B 2B 2B		D15-0329-03 D16-0333-03 E35-0296-05 E35-0420-05 G01-3326-14	PULLEY BELT FLAT CABLE LEAD WIRE COMPRESSION SPRING		
40 41 42 45 46	1B, 2B 1A 2A 2B 2A, 2B		J02-1058-15 J11-0180-03 J99-0514-01 N09-2543-05 N09-2769-05	INSULATOR CLAMPER TRAY SEMS (MACHINE SCREW) MACHINE SCREW		
47 48 49 50 51	1B 3A 1B 1A 2B		N09-2817-05 N19-0891-04 N39-2025-46 N82-2608-46 N89-2008-46	TAPTITE SCREW (2.6X10,12P) FLAT WASHER PAN HEAD MACHIN SCREW BINDIG HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
53 55 56	2B 1A 1A		S33-1022-05 T50-1058-04 T99-0503-15 G16-0753-08	LEVER SWITCH YOKE MAGNET SHEET		
DM	1B		A11-0733-05	SUB CHASSIS ASSY		
FM	2B		T42-0532-05	DC MOTOR		

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LM PU	3B 1B		T42-0609-05 T25-0022-05*	DC MOTOR OPTICAL PICKUP HEAD		
CASSETTE MECHANISM ASSY (D40-1289-05 : A, 1291-05 : B)						
301	2C		A10-2922-08	HEAD CHASSIS CALKED ASSY		
302	1D		A11-0754-08	BASE CHASSIS ASSY		
305	1E		D01-0138-08	FLYWHEEL ASSY LEFT		
306	2E		D01-0139-08	FLYWHEEL ASSY RIGHT		
308	2D		D10-3210-08	SHIFT LEVER		
309	2C		D10-3211-08	PLAY SHIFT LEVER		
310	2D		D10-3212-08	INTER LOCK LEVER RIGHT		B
310	2C		D10-3220-08	INTER LOCK LEVER LEFT		A
311	1C		D10-3304-08	EJECT LEVER LEFT		A
311	2D		D10-3305-08	EJECT LEVER RIGHT		B
312	1D		D10-3214-08	FR ARM		
313	1C		D10-3215-08	PLAY ARM		
314	1E		D10-3216-08	SHIFT SELECT LEVER		
315	2D		D10-3217-08	TRIGGER ARM		
316	2D		D10-3218-08	SELECT ARM		
317	1E		D10-3219-08	BRAKE ARM		
319	1D		D13-0965-08	CLUTCH GEAR		
320	1D		D13-0966-08	REW GEAR		
321	1D		D13-0967-08	FR GEAR		
322	1D, 2D		D13-0968-08	REEL GEAR		
323	2E		D13-0970-08	PLAY CAM GEAR		
324	1C		D13-0974-08	PLAY GEAR ASSY		
325	2C		D13-0981-08	ROTATION GEAR		
326	2C		D13-0982-08	RETURN GEAR		
329	1D, 2D		D19-0270-18	REEL CAP		
330	1E		D19-0273-08	CLUTCH PULLEY ASSY		
332	2D		D23-0284-08	HOUSING ASSY RIGHT		
333	1C		D23-0270-08	HOUSING ASSY LEFT		
335	1E		E35-0264-08	MOTOR WIRE		
336	1E		E35-0396-08	FLAT WIRE 15P		
337	1D		E35-0394-08	HEAD WIRE 5P		B
337	1D		E35-0398-08	HEAD WIRE 3P		A
338	1E		E40-4244-05	PIN CONNECTOR		
340	2C		G01-3428-08	RETURN GEAR SPRING		
341	1D		G01-3429-08	REEL SPRING		
342	1E		G01-3431-08	CLUTCH ARM SPRING		
343	1C		G01-3432-08	PLAY ARM SPRING		
344	1E		G01-3433-08	SHIFT SELECT LEVER SPRING		
345	2E		G01-3434-08	TRIGGER ARM SPRING		
346	2D		G01-3435-08	SHIFT LEVER SPRING		
347	2C		G01-3436-08	HEAD CHASSIS SPRING		
348	2D		G01-3437-08	PINCH ROLLER ARM SPRING RIGHT		
349	1C		G01-3438-08	PINCH ROLLER ARM SPRING LEFT		
350	1E		G01-3439-08	BRAKE ARM SPRING		
351	2C		G01-3440-08	INTER LOCK LEVER SPRING RIGHT		B
351	2C		G01-3441-08	INTER LOCK LEVER SPRING LEFT		A
352	1C	*	G01-3602-08	EJECT LEVER SPRING LEFT		A
352	2D	*	G01-3603-08	EJECT LEVER SPRING RIGHT		B
353	1D		G02-0913-08	PACK LOCK FLAT SPRING		
354	2C		G02-0994-08	AZIMUTH SPRING		
355	2C		G11-2117-08	HEAD WIRE CLAMPER		

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X-B3

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356	1D, 2D		G16-0780-08	REFLECT SEAL		
357	2C		G16-0786-08	INSULATING SHEET		
358	2C		J21-5918-08	HEAD PLATE ASSY		
360	2C		J31-0850-08	RETURN GEAR COLLAR		
361	1C, 2D		J31-0852-08	EJECT LEVER COLLAR		
362	2D		J42-0183-08	REEL CAP BUSHING		
363	1C		J90-0679-08	TAPE GUIDE		
364	1C		J90-0680-08	CASSETTE GUIDE		
365	1C, 2D		N09-2952-08	SCREW M2.6X8		
366	2C, 2D		N09-2871-08	SCREW M2X6		
367	2C		N09-2872-08	SCREW M1.7X8		
368	2C		N09-2953-08	SCREW M2X10		
369	2C		N09-2876-08	HEAD SCREW		
370	2C, 2D		N09-2877-08	TAP TITE SCREW M2X4		
371	2C		N19-2883-08	AZIMUTH SCREW		
372	1D		N19-1224-08	FLAT WASHER /4.1X6.5X0.25		
373	1E		N19-1225-08	FLAT WASHER /2.1X4.0X0.25		
374	1D		N19-1285-08	FLAT WASHER /1.6X3.0X0.13		
375	2E		N19-1286-08	FLAT WASHER /2.3X4.0X0.25		
376	2C		N19-1287-08	FLAT WASHER /3.5X6.5X0.5		
377	1C		N19-1288-08	FLAT WASHER /1.65X5.0X0.5		
378	2D		N19-1316-08	FLAT WASHER /1.8X6.0X0.5		
379	1D		N35-2604-46	BINDING HEAD MACHINE SCREW		
380	2E		N09-2900-08	SCREW M2X6		
381	2E		N09-2901-08	SCREW M2X4		
385	1E		S74-0006-08	LEAF SWITCH (REC, METAL, Cr02)		
386	1E		S74-0007-08	LEAF SWITCH (PACK DETECT)		
388	2D		T94-0228-08	SOLENOID ASSY		
390	1E		W02-1130-08	ELECTRIC UNIT		
BM	1E		D16-0332-08	MAIN BELT		
BR	1E		D16-0331-08	REEL BELT		
PF	2D		D14-0341-08	PINCH ROLLER ASSY		
PR	2C		D14-0340-08	PINCH ROLLER ASSY		
MM	1D		T42-0599-08	DC MOTOR ASSY		
PH	2C		T31-0066-08	PLAYBACK HEAD		A
RPEH	2C		T39-0020-08	REC/PLAYBACK/ERASE HEAD		B
PH1	1E		NJL5165K	PHOTO REFLECTOR		

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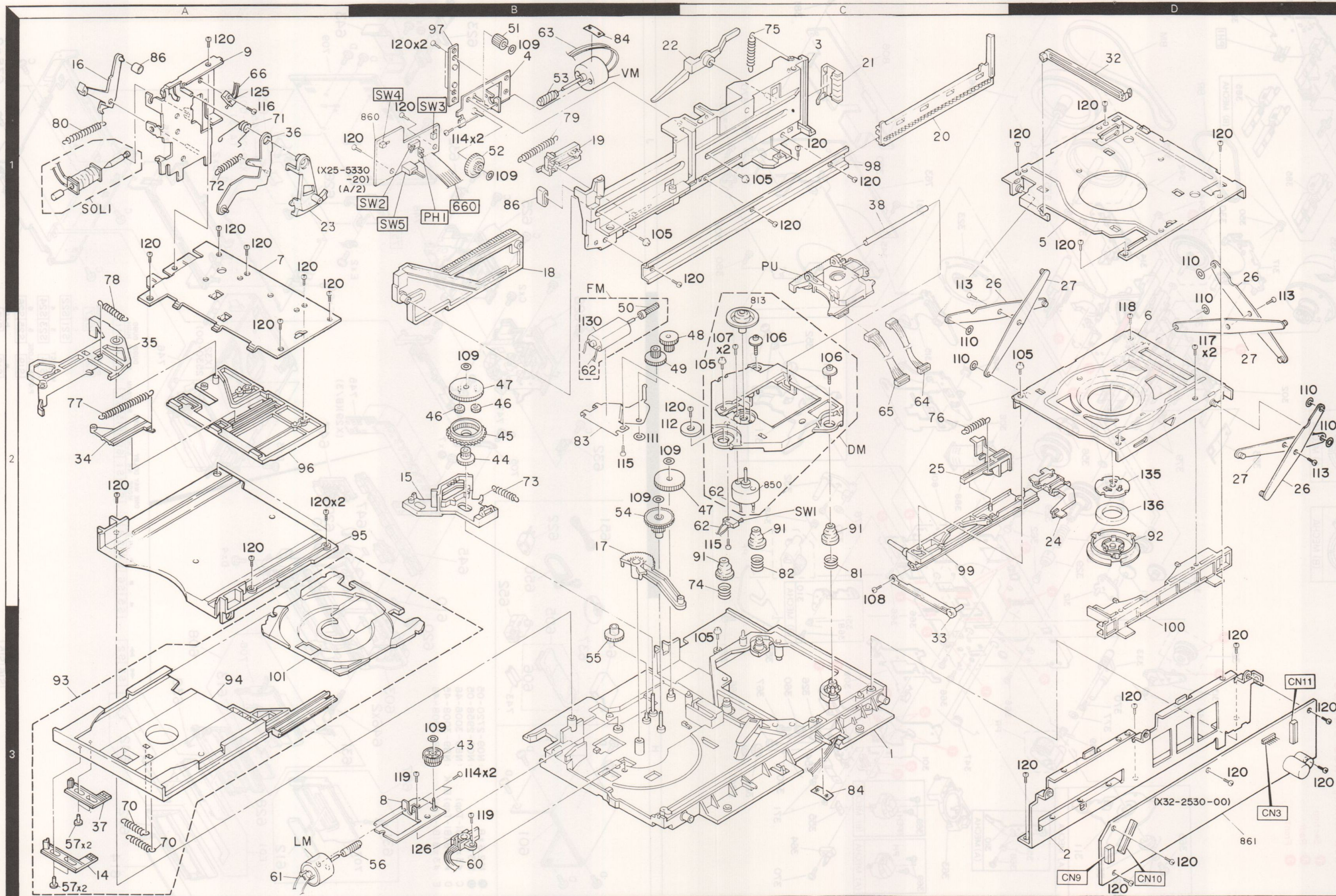
X:Australia

M:Other Areas

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X-B3

EXPLODED VIEW (CD MECHANISM UNIT)



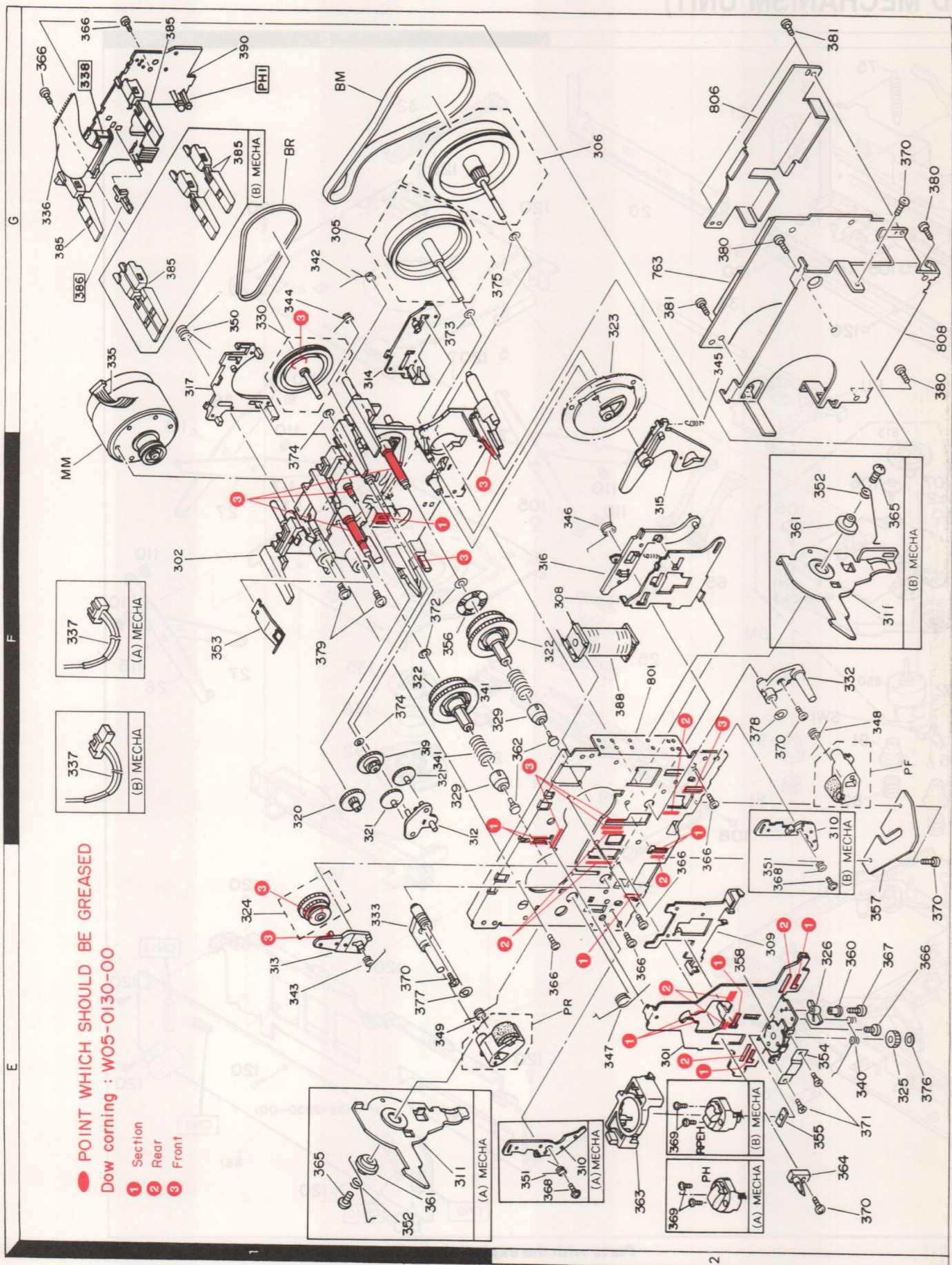
Parts with the exploded numbers larger than 700 are not supplied.

UD-301/351

UD-301/351

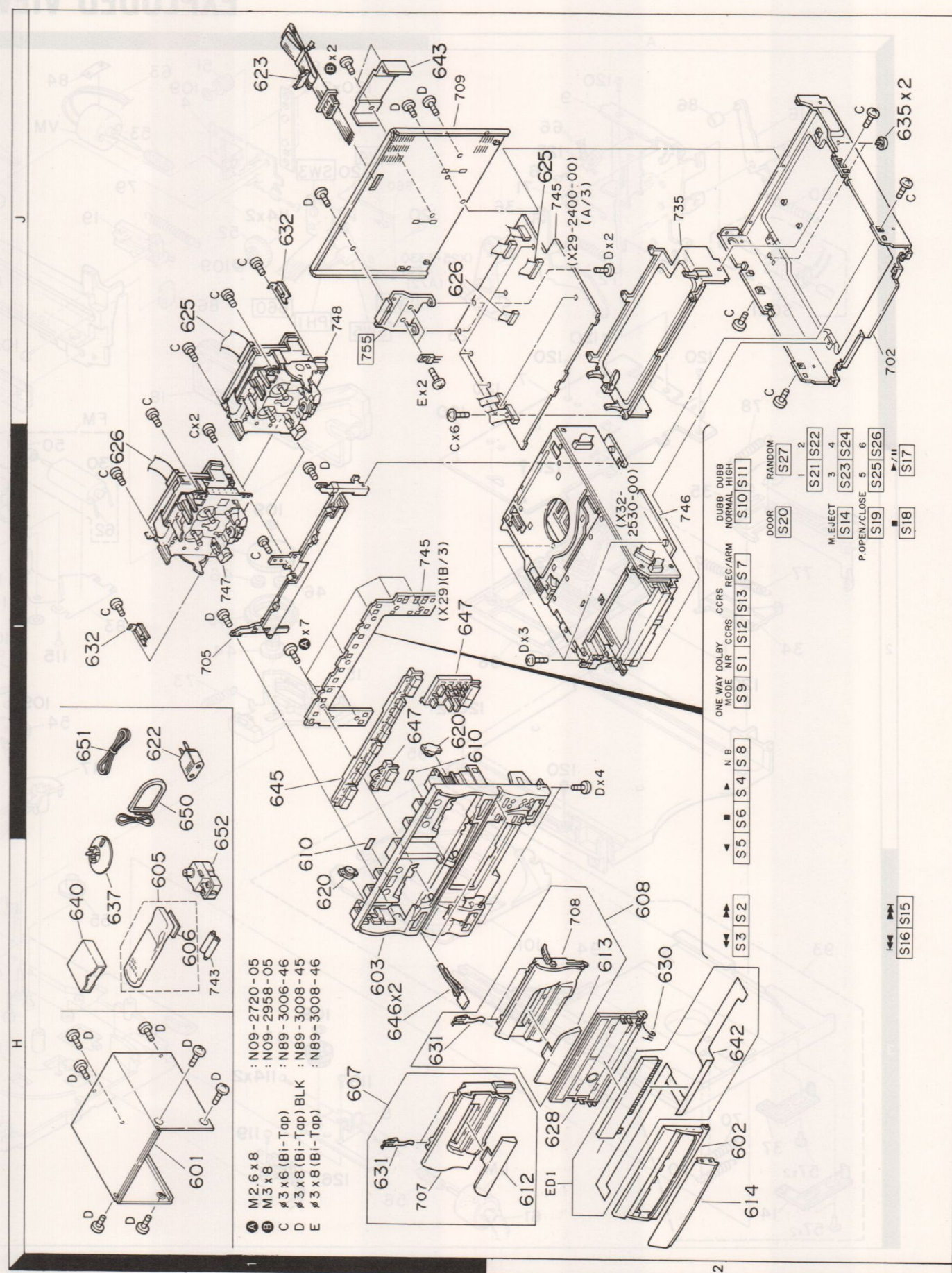
EXPLODED VIEW (CASSETTE MECHANISM UNIT)

EXPLODED VIEW (UNIT)



POINT WHICH SHOULD BE GREASED
 Dow corning : W05-0130-00

1 Section
 2 Rear
 3 Front



- A M 2.6 x 8 : N09-2720-05
- B M 3 x 8 : N09-2958-05
- C #3 x 6 (Bi-Tap) : N89-3006-46
- D #3 x 8 (Bi-Tap) BLK : N89-3008-45
- E #3 x 8 (Bi-Tap) : N89-3008-46

ONE WAY DOLBY	CCR	CCR	REC/ARM	S9	S1	S12	S13	S7
MODE NR	CCR	REC/ARM						
DOOR	S20	RANDOM	S27	1	2	S21	S22	3
M EJECT	S14	4	S23	S24	5	S25	S26	6
P OPEN/CLOSE	S19	S18	S17					
DUBB DUBB	S10	S11						
NORMAL HIGH								

X-MB3

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X-MB3 (SINGAPORE MADE)						
601	1H	*	A01-3008-01	METALLIC CABINET		
602	2H	*	A29-0330-12	PANEL CD DOOR		
603	1H	*	A60-0346-01	PANEL		
605	1H	*	X94-1011-21	REMOTE CONTROL ASSY UNIT		
606	1H		A09-0126-03	BATTERY COVER		
607	1H	*	A53-1392-13	CASSETTE HOLDER ASSY		A
608	2H		A53-1390-13	CASSETTE HOLDER ASSY		B
610	1H, 1I		B07-1720-04	ESCUTCHEON		
612	2H		B10-1955-03	FRONT GLASS CASSETTE HOLDER		A
613	2H		B10-1956-03	FRONT GLASS CASSETTE HOLDER		B
614	2H	*	B10-1958-03	FRONT GLASS CD DOOR		
-			B46-0092-23	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B59-0179-14	CAUTION CARD		
-		*	B60-1159-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1160-00	INSTRUCTION MANUAL (FRENCH)	E	
-		*	B60-1161-00	INSTRUCTION MANUAL (GERMAN)	E	
-		*	B60-1162-00	INSTRUCTION MANUAL (DUTCH)	E	
-		*	B60-1163-00	INSTRUCTION MANUAL (ITALIAN)	E	
-		*	B60-1164-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B60-1165-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-1166-00	INSTRUCTION MANUAL (ARABIC)	M	
620	1H, 1I		D39-0198-05	DAMPER		
△ 622	1I		E03-0115-05	AC PLUG ADAPTER	M	
623	1J		E30-2686-05	CORD WITH CONNECTOR		
625	1J, 2J		E35-0302-05	FLAT CABLE 23P X29(CN9)-B DACK		
626	1I, 2J		E35-0305-05	FLAT CABLE 15P X29(CN8)-A DACK		
628	2H	*	F07-0707-13	COVER CD DOOR		
630	2H	*	G01-3511-04	TORSION COIL SPRING		
631	1H		G02-1001-24	FLAT SPRING		
632	1I, 1J		G02-1012-04	FLAT SPRING		
-		*	H50-0546-04	ITEM CARTON CASE	K	
-		*	H50-0547-04	ITEM CARTON CASE	TE	
-		*	H60-0125-04	OUTER CARTON CASE	YMX	
-		*	H10-5464-02	POLYSTYRENE FOAMED FIXTURE	KTE	
-		*	H10-5465-02	POLYSTYRENE FOAMED FIXTURE	KTE	
-		*	H10-5497-01	POLYSTYRENE FOAMED FIXTURE	YMX	
-		*	H10-5498-01	POLYSTYRENE FOAMED FIXTURE	YMX	
-			H13-0086-04	CARTON BOARD		
-			H20-0581-04	PROTECTION COVER	M	
-			H25-0632-24	PROTECTION BAG	KYMXE	
-			H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-		*	H25-0693-04	PROTECTION BAG	KYXTE	
635	2J		J02-0370-05	FOOT REAR		
637	1H		J19-2815-04	ANTENNA HOLDER		
640	1H	*	J19-3578-03	CD HOLDER ASSY		

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X-MB3

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642	2H	*	J80-0005-08	FLAT WIRING BOARD FL		
643	1J		J21-5947-04	MOUNTING HARDWARE		
-			J61-0307-05	WIRE BAND		
645	1I		K29-5646-03	KNØB DECK CONTROL		
646	1H		K29-5647-04	KNØB EJECT		
647	1I	*	K29-5648-03	KNØB CD CONTROL		
A	1I		N09-2720-05	TAPTITE SCREW (2.6X8)		
B	1J		N09-2958-05	SET SCREW		
C	1I, 1J		N89-3006-46	BINDING HEAD TAPTITE SCREW		
D	1H, 1J		N89-3008-45	BINDING HEAD TAPTITE SCREW		
650	1I		T90-0174-05	LOOP ANTENNA		
651	1I		T90-0175-05	T TYPE ANTENNA		
652	1I		T90-0185-05	ANTENNA ADAPTOR	TE	
ED1	2H	*	FIP10KM5	INDICATOR TUBE		
X-MB3 (MALAYSIA MADE)						
601	2H	*	A01-3008-01	METALLIC CABINET		
602	2H	*	A29-0330-12	PANEL CD DOOR		
603	1H	*	A60-0346-11	PANEL		
605	1H	*	X94-1011-21	REMOTE CONTROL ASSY UNIT		
606	1H		A09-0126-03	BATTERY COVER		
607	1H	*	A53-1392-13	CASSETTE HOLDER ASSY		A
608	2H		A53-1390-13	CASSETTE HOLDER ASSY		B
610	1H, 1I		B07-1720-04	ESCUTCHEON		
612	2H		B10-1955-03	FRONT GLASS CASSETTE HOLDER		A
613	2H		B10-1956-03	FRONT GLASS CASSETTE HOLDER		B
614	2H	*	B10-1958-03	FRONT GLASS CD DOOR		
-			B46-0307-03	WARRANTY CARD		
-		*	B58-0950-04	CAUTION CARD		
-		*	B60-1159-00	INSTRUCTION MANUAL (ENGLISH)		
620	1H, 1J		D39-0198-05	DAMPER		
623	1J		E30-2686-05	CORD WITH CONNECTOR		
625	1J, 2J		E35-0302-05	WIRING HARNESS X29(CN9)-B DECK		
626	1I, 2J		E35-0305-05	WIRING HARNESS X29(CN8)-A DECK		
628	2H	*	F07-0707-13	COVER CD DOOR		
630	2H	*	G01-3511-14	TORSION COIL SPRING		
631	1H		G02-1001-24	FLAT SPRING		
632	1I, 1J		G02-1012-14	FLAT SPRING		
-		*	H50-0736-04	ITEM CARTON CASE		
-		*	H10-5564-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5565-02	POLYSTYRENE FOAMED FIXTURE		
-			H13-0086-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG		
-		*	H25-0693-04	PROTECTION BAG		
635	2J		J02-0370-05	FOOT		
637	1H		J19-2815-04	ANTENNA HOLDER		
640	1H	*	J19-3578-03	CD HOLDER ASSY		
642	2H	*	J80-0005-08	FLAT WIRING BOARD FL		
643	1J		J21-5947-04	MOUNTING HARDWARE		
-			J61-0307-05	WIRE BAND		

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645	1I		K29-5646-03	KNØB DECK CONTROL		
646	1H		K29-5647-04	KNØB EJECT		
647	1I	*	K29-5648-03	KNØB CD CONTROL		
A	1I		N09-2720-05	TAPTITE SCREW (2.6X8, ハイコンP)		
B	1J		N09-2958-05	SBT SCREW		
C	1I, 1J		N89-3006-46	BINDING HEAD TAPTITE SCREW		
D	1H, 1J		N89-3008-45	BINDING HEAD TAPTITE SCREW		
650	1I		T90-0174-05	LOOP ANTENNA		
651	1I		T90-0175-05	T TYPE ANTENNA		
652	1I	*	T94-0227-18	MAGNETIC PLUNGER		
ED1	2H	*	FIP10KM5	INDICATOR TUBE		
ELECTRIC UNIT (X25-5330-20)						
660	1B	*	E35-0599-05	WIRING HARNESS		
SW2	1B		S64-0006-05	LEVER SWITCH		
SW3 ,4	1B		S68-0025-05	PUSH SWITCH		
SW5	1B		S33-2062-05	LEVER SWITCH		
PH1	1B		T95-0123-05	OPTO ISOLATOR		
RECORD /PLAYBACK UNIT (X28-2450-10)						
C1 ,2			CK45FB1H561K	CERAMIC 560PF K		
C5 ,6			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C7 ,8			CK45FB1H391K	CERAMIC 390PF K		
C9 ,10			CF92FV1H223J	MF 0.022UF J		
C11 ,12			CE04LW1C470M	ELECTRO 47UF 16WV		
C13			CE04LW1C101M	ELECTRO 100UF 16WV		
C14			CQ93HP2A822J	MYLAR 8200PF J		
C15 -18			CC45FSL1H221J	CERAMIC 220PF J		
C19			CK45FB2H471K	CERAMIC 470PF K		
C20			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C21 ,22			CK45FB1H332K	CERAMIC 3300PF K		
C23			CK45FF1H103Z	CERAMIC 0.010UF Z		
C24			CK45FB1H102K	CERAMIC 1000PF K		
C25			CK45FF1H223Z	CERAMIC 0.022UF Z		
C51 ,52			CC45FSL1H221J	CERAMIC 220PF J		
C53 ,54			CK45FB1H391K	CERAMIC 390PF K		
C55 ,56			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C57 ,58			CK45FB1H391K	CERAMIC 390PF K		
C59 ,60			CE04LW1C470M	ELECTRO 47UF 16WV		
C61 ,62			CF92FV1H153J	MF 0.015UF J		
C63			CE04LW1C101M	ELECTRO 100UF 16WV		
C64			CK45FB1H102K	CERAMIC 1000PF K		
L1 ,2			L40-1035-20	SMALL FIXED INDUCTOR(10MH, J)		
L3			L32-0542-05	BIAS OSCILATING COIL		
VR1			R12-1617-05	TRIMMING POT.(2.2K)		
VR2			R12-1616-05	TRIMMING POT.(1K)		
VR3 ,4			R12-0605-05	TRIMMING POT.(220)		
VR5 ,6			R12-5072-05	TRIMMING POT.(100K)		
VR7			R12-1617-05	TRIMMING POT.(2.2K)		
VR8			R12-1616-05	TRIMMING POT.(1K)		
VR9 ,10			R12-0605-05	TRIMMING POT.(220)		
K1			S76-0018-05	MAGNETIC RELAY		

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D1 -4			HSS104	DIODE		
D1 -4			1SS133	DIODE		
D6 -9			HSS104	DIODE		
D6 -9			1SS133	DIODE		
D10			HZS11N(B2)	ZENER DIODE		
D10			RD11ES(B2)	ZENER DIODE		
D51 -55			HSS104	DIODE		
D51 -55			1SS133	DIODE		
IC1 ,2			TA8125S	IC(2CH PRE AMP)		
Q1 ,2			2SC3246	TRANSISTOR		
Q3 ,4			2SC1845(F,E)	TRANSISTOR		
Q5			2SA992(F,E)	TRANSISTOR		
Q6			2SA1175(F,E)	TRANSISTOR		
Q6			2SA933S(Q,R)	TRANSISTOR		
Q7 -12			2SC1740S(Q,R)	TRANSISTOR		
Q7 -12			2SC2785(F,E)	TRANSISTOR		
Q13 ,14			2SC3246	TRANSISTOR		
Q15			2SA1175(F,E)	TRANSISTOR		
Q15			2SA933S(Q,R)	TRANSISTOR		
Q16			2SC1740S(Q,R)	TRANSISTOR		
Q16			2SC2785(F,E)	TRANSISTOR		
CONTROL UNIT (X29-2400-00)						
C1 ,2			CQ92FM1H222J	MYLAR 2200PF J		
C3 ,4			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C5 ,6			CQ92FM1H222J	MYLAR 2200PF J		
C7 -10			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C11 ,12			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C13 ,14			CK45FB1H682K	CERAMIC 6800PF K		
C15 ,16			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C17 -20			CQ92FM1H222J	MYLAR 2200PF J		
C21 ,22			CK45FF1H223Z	CERAMIC 0.022UF Z		
C23 ,24			CQ92FM1H222J	MYLAR 2200PF J		
C25 -28			CE04LW1HOR1M	ELECTRO 0.1UF 50WV		
C29 ,30			CE04LW1V100M	ELECTRO 10UF 35WV		
C31 ,32			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C33 ,34			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C35 ,36			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C37 ,38			CK45FB1H222K	CERAMIC 2200PF K		
C39 -44			CE04LW1V100M	ELECTRO 10UF 35WV		
C45 -52			CF92FV1H333J	MF 0.033UF J		
C53 ,54			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C55			C90-3244-05	ELECTRO 10UF 35WV		
C56			CK45FF1H103Z	CERAMIC 0.010UF Z		
C57 ,58			CK45FB1H222K	CERAMIC 2200PF K		
C59 ,60			CK45FF1H103Z	CERAMIC 0.010UF Z		
C101			CE04LW1V100M	ELECTRO 10UF 35WV		
C102			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C103,104			CC45FSL1H101J	CERAMIC 100PF J		
C105,106			CK45FB1H102K	CERAMIC 1000PF K		
C107			CQ92FM1H222J	MYLAR 2200PF J		
C108			CE04LW1H331M	ELECTRO 330UF 50WV		
C109			CK45FF1H103Z	CERAMIC 0.010UF Z		
C111			CK45FF1H103Z	CERAMIC 0.010UF Z		
C201			CE04LW1V100M	ELECTRO 10UF 35WV		

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C202			CE04LW1E102M	ELECTRO 1000UF 25WV		
C203			CC45FSL1H101J	CERAMIC 100PF J		
C204			CE04LW1V471M	ELECTRO 470UF 35WV		
C205			CE04LW1V100M	ELECTRO 10UF 35WV		
C206			CE04LW1A101M	ELECTRO 100UF 10WV		
C207			CE04LW1V100M	ELECTRO 10UF 35WV		
C208			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C209			CE04LW1E102M	ELECTRO 1000UF 25WV		
C210			CE04LW1V101M	ELECTRO 100UF 35WV		
C211			CC45FSL1H101J	CERAMIC 100PF J		
C212			CE04LW1A101M	ELECTRO 100UF 10WV		
C213			CE04LW1H471M	ELECTRO 470UF 50WV		
C216-218			CE04LW1H101M	ELECTRO 100UF 50WV		
C219			CE04LW1V100M	ELECTRO 10UF 35WV		
C220			CE04LW1H100M	ELECTRO 10UF 50WV		
C229			CE04LW1A101M	ELECTRO 100UF 10WV		
C230			CF92FV1H104J	MF 0.10UF J		
C231			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C232			C90-1827-05	BACKUP 0.047F 5.5WV		
C233			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C234			CE04LW1C330M	ELECTRO 33UF 16WV		
C235, 236			CC45FSL1H101J	CERAMIC 100PF J		
L1 ,2			L79-1201-05	LC FILTER		
L3 ,4			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		
X1			L78-0294-05	RESONATOR (10.000M)		
D	2J		N89-3008-45	BINDING HEAD TAPTITE SCREW		
E	1J		N89-3008-46	BINDING HEAD TAPTITE SCREW		
CP1			R90-0818-05	MULTI-COMP 47KX5 J 1/6W		
R201			RD14NB2E102J	RD 1.0K J 1/4W		
R202			RS14KB3D821J	FL-PROOF RS 820 J 2W		
R211			RD14NB2E101J	RD 100 J 1/4W		
S1 -27			S40-1064-05	PUSH SWITCH		
D101			HZS4.7N(B)	ZENER DIODE		
D101			RD4.7ES(B)	ZENER DIODE		
D102, 103			RB721Q	DIODE		
D104-109			HSS104	DIODE		
D104-109			1SS133	DIODE		
D112-126			HSS104	DIODE		
D112-126			1SS133	DIODE		
D133			HSS104	DIODE		
D133			1SS133	DIODE		
D134-136			RB721Q	DIODE		
D201			D3SBA20F03	DIODE		
D201			RBV-402LFA	DIODE		
D202			HZS6.8N(B2)	ZENER DIODE		
D202			RD6.8ES(B2)	ZENER DIODE		
D204, 205			HSS104	DIODE		
D204, 205			1SS133	DIODE		
D206			HZS6.2N(B2)	ZENER DIODE		
D206			RD6.2ES(B2)	ZENER DIODE		
D207, 208			S5688B	DIODE		
D207, 208			1SR139-100	DIODE		

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D209			HZS3.9N(B2)	ZENER DIODE		
D209			RD3.9ES(B2)	ZENER DIODE		
D210-212			HSS104	DIODE		
D210-212			1SS133	DIODE		
D213			HZS30N(B)	ZENER DIODE		
D213			RD30ES(B)	ZENER DIODE		
D218-221			HSS104	DIODE		
D218-221			1SS133	DIODE		
IC1			CXP82324-128Q	IC		
IC2			HA12157NT	IC(DOLBY B/C NR)		
IC3			TC4052BP	IC(4CH MPX/DE-MPX)		
IC3			XRU4052B	IC(MULTIPLEXER/DEMULTIPLEXER)		
IC4			NJM4565D	IC(OP AMP X2)		
IC4			XRA1521B	IC(OP AMP X2)		
IC5			MN1381-R(TA)	IC(VOLTAGE DETECT)		
IC5			S-80740AL	IC(VOLTAGE DETECTOR)		
Q1 -6			2SC2878(B)	TRANSISTOR		
Q7 -15			DTC124ES	DIGITAL TRANSISTOR		
Q7 -15			UN4212	DIGITAL TRANSISTOR		
Q101			DTC124ES	DIGITAL TRANSISTOR		
Q101			UN4212	DIGITAL TRANSISTOR		
Q102			DTA124ES	DIGITAL TRANSISTOR		
Q102			UN4112	DIGITAL TRANSISTOR		
Q103			DTC124ES	DIGITAL TRANSISTOR		
Q103			UN4212	DIGITAL TRANSISTOR		
Q104			2SC3940A	TRANSISTOR		
Q105, 106			2SC1740S(Q,R)	TRANSISTOR		
Q105, 106			2SC2785(F,E)	TRANSISTOR		
Q107, 108			DTA124ES	DIGITAL TRANSISTOR		
Q107, 108			UN4112	DIGITAL TRANSISTOR		
Q109			DTC124ES	DIGITAL TRANSISTOR		
Q109			UN4212	DIGITAL TRANSISTOR		
Q201, 202			2SD2061	TRANSISTOR		
Q203			2SA954(L,K)	TRANSISTOR		
Q204			2SC1740S(Q,R)	TRANSISTOR		
Q204			2SC2785(F,E)	TRANSISTOR		
Q205			2SC3944A	TRANSISTOR		
Q209			2SC1740S(Q,R)	TRANSISTOR		
Q209			2SC2785(F,E)	TRANSISTOR		
SIGNAL PROCESSOR UNIT (X32-2530-00)						
C1			CE04LW1A470M	ELECTRO	47UF	10WV
C2 , 3			CC73FSL1H150J	CHIP C	15PF	J
C4			CE04LW1V100M	ELECTRO	10UF	35WV
C5			CE04LW1A470M	ELECTRO	47UF	10WV
C6 , 7			CE04LW0J331M	ELECTRO	330UF	6.3WV
C8			CC73FSL1H150J	CHIP C	15PF	J
C9			CC73FSL1H270J	CHIP C	27PF	J
C10			CK73EF1C684Z	CHIP C	0.68UF	Z
C11			CE04LW1HR47M	ELECTRO	0.47UF	50WV
C12			CK73FB1H333K	CHIP C	0.033UF	K
C13			CE04LW1H010M	ELECTRO	1.0UF	50WV
C14			CK73FB1H223K	CHIP C	0.022UF	K
C15			CC73FSL1H121J	CHIP C	120PF	J
C16			CK73FB1H222K	CHIP C	2200PF	K
C17			CK73FB1H103K	CHIP C	0.010UF	K

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C18			CK73FB1H102K	CHIP C 1000PF K		
C19			CK73FB1E104K	CHIP C 0.10UF K		
C20			CC73FSL1H470J	CHIP C 47PF J		
C21			CB04HW1H3R3M	NP-ELEC 3.3UF 50WV		
C22			CK73FB1E104K	CHIP C 0.10UF K		
C23			CC73FSL1H121J	CHIP C 120PF J		
C24			CK73FB1E104K	CHIP C 0.10UF K		
C25			CB04HW1E100M	NP-ELEC 10UF 25WV		
C26			CK73FB1E104K	CHIP C 0.10UF K		
C27			CC73FSL1H151J	CHIP C 150PF J		
C28 ,29			CK73FB1H103K	CHIP C 0.010UF K		
C30			CB04HW1E100M	NP-ELEC 10UF 25WV		
C31			CK73FB1H103K	CHIP C 0.010UF K		
C32 ,33			CB04LW1C470M	ELECTRØ 47UF 16WV		
C34			CB04HW1H010M	NP-ELEC 1.0UF 50WV		
C35			CC73FSL1H121J	CHIP C 120PF J		
C36			CB04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C37			CB04HW1H010M	NP-ELEC 1.0UF 50WV		
C38			CB04LW1H010M	ELECTRØ 1.0UF 50WV		
C39 -41			CB04HW1E100M	NP-ELEC 10UF 25WV		
C42 ,43			CK73FB1H103K	CHIP C 0.010UF K		
C44			CB04HW1E100M	NP-ELEC 10UF 25WV		
C45 ,46			CK73FB1H103K	CHIP C 0.010UF K		
C47			CB04LW0J221M	ELECTRØ 220UF 6.3WV		
C48 ,49			CK73FB1H103K	CHIP C 0.010UF K		
C50			CK73FB1H152K	CHIP C 1500PF K		
C51			CK73FB1H473K	CHIP C 0.047UF K		
C52			CB04HW1A220M	NP-ELEC 22UF 10WV		
C53			CK73FB1H332K	CHIP C 3300PF K		
C54			CK73FB1H473K	CHIP C 0.047UF K		
C55			CB04LW0J221M	ELECTRØ 220UF 6.3WV		
C56			CB04LW0J471M	ELECTRØ 470UF 6.3WV		
C57 ,58			CC73FCH1H470J	CHIP C 47PF J		
C59 ,60			CC73FSL1H221J	CHIP C 220PF J		
C61 -64			CK73FB1H471K	CHIP C 470PF K		
C65			CK73FB1E104K	CHIP C 0.10UF K		
C66 ,67			CK73FB1H103K	CHIP C 0.010UF K		
C68 ,69			CK73FB1H681K	CHIP C 680PF K		
C70			CK73FB1H103K	CHIP C 0.010UF K		
C71 ,72			CB04HW1E100M	NP-ELEC 10UF 25WV		
C73 ,74			CK73FB1H102K	CHIP C 1000PF K		
C75 ,76			CB04LW1A470M	ELECTRØ 47UF 10WV		
C77			CK73FB1H103K	CHIP C 0.010UF K		
C78			CB04LW1V470M	ELECTRØ 47UF 35WV		
C79			CB04DW1V221M	ELECTRØ 220UF 35WV		
C80 ,81			CB04HW1V221M	NP-ELEC 220UF 35WV		
C82 -85			CB04LW1E221M	ELECTRØ 220UF 25WV		
C86			CB04LW1C472M	ELECTRØ 4700UF 16WV		
C87			CB04LW1C222M	ELECTRØ 2200UF 16WV		
C88			CK73FB1H103K	CHIP C 0.010UF K		
C89			CB04LW1C222M	ELECTRØ 2200UF 16WV		
C90 ,91			CK73FB1H103K	CHIP C 0.010UF K		
C92 ,93			CC73FSL1H101J	CHIP C 100PF J		
C94 ,95			CC73FSL1H221J	CHIP C 220PF J		
C96 ,97			CB04LW1A101M	ELECTRØ 100UF 10WV		

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C98 -101 C102 C103,104 C105 C106,107			CE04LW1C470M CC73FSL1H680J CK73FB1H473K CE04LW1V4R7M CF92FV1H224J	ELECTRO 47UF 16WV CHIP C 68PF J CHIP C 0.047UF K ELECTRO 4.7UF 35WV MF 0.22UF J		
C108 C109			CK73FB1H473K CK73FB1H223K	CHIP C 0.047UF K CHIP C 0.022UF K		
CN3 CN9 CN10 CN11	3D 3D 3D 3D		E40-0611-05 E40-4284-05 E40-4616-05 E40-4244-05 J11-0098-05	PIN ASSY FLAT CABLE CONNCTOR FLAT CABLE CONNCTOR SOCKET FOR PIN ASSY WIRE CLAMPER		
L1 X1			L33-0369-05 L77-1164-05	CHOKER COIL CRYSTAL RESONATOR(16.9344MHZ)		
R82 R111 R122,123 R130 VR1			RS14KB3A4R7J RS14KB3D101J RS14KB3D8R2J RS14KB3A5R6J R12-3685-05	FL-PROOF RS 4.7 J 1W FL-PROOF RS 100 J 2W FL-PROOF RS 8.2 J 2W FL-PROOF RS 5.6 J 1W TRIMMING POT.(10K)		
VR2 VR3 ,4 W1 -3 W4 W5 -13 W14			R12-3686-05 R12-3685-05 R92-0679-05 R92-0670-05 R92-0679-05 R92-0670-05	TRIMMING POT.(22K) TRIMMING POT.(10K) CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM		
D1 ,2 D1 ,2 D3 ,4 D9 -14 D9 -14			MA110 1S5355 HN2D01F MA110 1S5355	DIODE DIODE DIODE DIODE DIODE		
D15 D16 D17 -22 D17 -22 D23 ,24			DTZ8.2(B) DTZ10(B) S5688B(TPB5) 1SR139-100(T64) DTZ10(B)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D25 D26 D26 D30 ,31 IC1			DA204U S5688B(TPB5) 1SR139-100(T64) DA204U CXA1571M	DIODE DIODE DIODE DIODE IC(CD RF AMP)		
IC2 IC3 IC4 IC5 IC6			CXA1372Q CXD2500BQ TC9237BF TC74HC165AF UPD75217GF-616	IC(CD RF SERV0) IC(DIGITAL SIGNAL PROCESSOR) IC(D/A CONVERTER) IC(8BIT SHIFT REGISTER) IC		
IC7 IC8 ,9 IC8 ,9 IC10 IC10		*	NJM4565M LA6510 TA8410AK PST529DMT PST572DMT	IC(OP AMP) IC(DUAL POWER OP AMP) IC(POWER OP AMP) IC(SYSTEM RESET) IC(SYSTEM RESET)		
IC11 IC11			LA6510 TA8410AK	IC(DUAL POWER OP AMP) IC(POWER OP AMP)		

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IC12,13 IC14 IC15 IC15 Q1			NJM4565M LM2940CT-5.0 TA79005S UPC7905HF DTC124EU	IC(OP AMP) IC(LOW VOLTAGE REGULATOR) IC(VOLTAGE REGULATOR/ -5V) IC(VOLTAGE REGULATOR/ -5V) DIGITAL TRANSISTOR		
Q2 Q3 ,4 Q5 ,6 Q7 Q8			2SC3246 DTC124EU 2SC4081(R,S) DTA124EU 2SB1308(Q,R)	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q9 Q10 Q11 ,12			DTA124EU 2SD1963(R,S) DTA124EU	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
CD MECHANISM ASSY (X92-1839-20)						
1	3C	*	A10-3025-02	CHASSIS ASSY		
2	3D		A11-0742-02	SUB CHASSIS RIGHT		
3	1C	*	A11-0745-01	SUB CHASSIS LEFT		
4	1B		A11-0746-04	SUB CHASSIS CALKING ASSY		
5	1D	*	A11-0750-02	SUB CHASSIS LOADING		
6	2D	*	A11-0752-02	SUB CHASSIS LOADING		
7	1A	*	A11-0753-03	SUB CHASSIS		
8	3B		A11-0763-04	SUB CHASSIS CALKING ASSY		
9	1A	*	A11-0765-04	SUB CHASSIS CALKING ASSY	DOOR	
14	3A		D10-3105-03	SLIDER		
15	2B		D10-3257-03	SLIDER		
16	1A	*	D10-3258-03	ARM	DOOR	
17	2B		D10-3260-03	ARM		
18	1B		D10-3261-03	SLIDER		
19	1B		D10-3262-04	SLIDER		
20	1C		D10-3263-03	SLIDER		
21	1C		D10-3264-04	SLIDER		
22	1B		D10-3265-04	ARM		
23	1A		D10-3266-03	ARM	DOOR	
24	2D		D10-3267-03	ARM		
25	2C		D10-3268-03	SLIDER		
26	1C, 1D		D10-3269-04	ARM ASSY		
27	1D, 2D		D10-3271-04	ARM ASSY		
32	1D		D10-3273-03	ARM		
33	3C		D10-3274-04	ARM		
34	2A		D10-3275-04	SLIDER	EJECT	
35	2A		D10-3276-03	ARM	LOCK	
36	1A	*	D10-3278-04	ARM ASSY	DOOR	
37	3A		D10-3281-03	SLIDER		
38	1C		D10-3294-14	ROD		
43	3B		D13-0983-04	GEAR		
44	2B		D13-0984-04	GEAR		
45	2B		D13-0985-04	GEAR		
46	2B		D13-0986-04	GEAR		
47	2B, 2C		D13-0987-04	GEAR		
48	2C		D13-0989-04	GEAR		
49	2C		D13-0990-04	GEAR		
50	1B		D13-0991-04	GEAR	WORM	
51	1B		D13-0992-04	GEAR		
52	1B		D13-0993-04	GEAR		

L:Scandinavia

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
53	1B		D13-0994-04	GEAR		
54	2B		D13-0995-04	GEAR		
55	3B		D13-0996-04	GEAR		
56	3B		D13-1502-04	WORM		
57	3A		D21-1633-05	SHAFT		
60	3B	*	E35-0388-05	WIRING HARNESS		
61	3A		E35-0390-05	WIRING HARNESS		
62	2B, 2C	*	E35-0391-05	WIRING HARNESS		
63	1B	*	E35-0392-05	WIRING HARNESS		
64	2C		E35-0417-05	WIRING HARNESS		
65	2C		E35-0418-05	WIRING HARNESS		
66	1A		E35-0435-08	WIRING HARNESS		
70	3A		G01-3333-04	EXTENSION SPRING		
71	1A		G01-3470-08	TORSION COIL SPRING	DOOR	
72	1A		G01-3471-08	EXTENSION SPRING	DOOR	
73	2B		G01-3472-04	EXTENSION SPRING		
74	2C		G01-3473-04	COMPRESSION SPRING		
75	1C		G01-3474-04	EXTENSION SPRING		
76	2C		G01-3475-04	EXTENSION SPRING		
77	2A		G01-3476-04	EXTENSION SPRING		
78	1A		G01-3477-04	EXTENSION SPRING		
79	1B		G01-3480-04	EXTENSION SPRING		
80	1A		G01-3481-08	EXTENSION SPRING	DOOR	
81	2C		G01-3485-04	COMPRESSION SPRING		
82	2C	*	G01-3518-04	COMPRESSION SPRING		
83	2B		G02-1002-04	FLAT SPRING		
84	1B, 3C		G10-0146-04	NON-WOVEN FABRIC		
86	1A, 1B	*	G11-2134-08	CUSHION	DOOR	
91	2C		J02-1058-15	INSULATOR		
92	2D		J11-0181-03	CLAMPER		
93	3A	*	J19-3570-02	HOLDER ASSY		
94	3A	*	J19-3486-01	HOLDER		
95	2B	*	J19-3487-02	HOLDER		
96	2A	*	J19-3489-02	HOLDER		
97	1B	*	J21-5922-04	MOUNTING HARDWARE		
98	1C		J90-0685-03	GUIDE		
99	2C	*	J90-0686-14	RAIL ASSY		
100	3D	*	J90-0688-13	RAIL		
101	3A		J99-0517-02	TRAY		
105	1B, 1C		N09-2769-05	MACHINE SCREW		
106	2C		N09-2817-05	TAPTITE SCREW (2.6X10, 12P)		
107	2C		N09-2913-05	MACHINE SCREW		
108	2C		N09-2914-05	MACHINE SCREW		
109	1B, 3B		N19-0366-04	FLAT WASHER		
110	2C, 2D		N19-0891-04	FLAT WASHER		
111	2B		N19-1105-04	FLAT WASHER		
112	2C	*	N19-1318-04	FLAT WASHER		
113	1D, 2D		N38-2625-46	PAN HEAD MACHIN SCREW		
114	1B, 3B		N39-2025-46	PAN HEAD MACHIN SCREW		
115	2B, 2C		N83-2008-46	PAN HEAD TAPTITE SCREW		
116	1A	*	N86-2008-46	BINDING HEAD TAPTITE SCREW		
117	2D		N89-2006-46	BINDING HEAD TAPTITE SCREW		
118	1D		N89-2606-45	BINDING HEAD TAPTITE SCREW		
119	3B		N89-2606-46	BINDING HEAD TAPTITE SCREW		
120	1A, 1B		N89-2608-46	BINDING HEAD TAPTITE SCREW		

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X-MB3

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125	1A		S33-1022-05	LEVER SWITCH		
126	3B		S33-2061-05	LEVER SWITCH		
130	2B		T42-0597-05	DC MOTOR		
135	2D		T50-1055-04	YÖKE		
136	2D		T99-0503-15	MAGNET		
PU	1C		T25-0023-05	OPTICAL PICKUP HEAD		
SOL1	1A	*	T94-0227-18	MAGNETIC PLUNGER		
SW1	2C		S33-1022-05	LEVER SWITCH		
DM	2C		A11-0791-03	DISK MOTOR ASSY		
FM	1B		T42-0612-04	FEED MOTOR ASSY		
LM	3A		T42-0620-05	LOADING MOTOR		
VM	1B		T42-0567-05	DC MOTOR		
CASSETTE MECHANISM ASSY (D40-1289-05 : A ; 1291-05 : B)						
301	2E		A10-2922-08	HEAD CHASSIS CALKED ASSY		
302	1F		A11-0754-08	BASE CHASSIS ASSY		
305	1G		D01-0138-08	FLYWHEEL ASSY LEFT		
306	2G		D01-0139-08	FLYWHEEL ASSY RIGHT		
308	2F		D10-3210-08	SHIFT LEVER		
309	2E		D10-3211-08	PLAY SHIFT LEVER		
310	2F		D10-3212-08	INTER LOCK LEVER RIGHT		B
310	2E		D10-3220-08	INTER LOCK LEVER LEFT		A
311	1E		D10-3304-08	EJECT LEVER LEFT		A
311	2F		D10-3305-08	EJECT LEVER RIGHT		B
312	1F		D10-3214-08	FR ARM		
313	1E		D10-3215-08	PLAY ARM		
314	1G		D10-3216-08	SHIFT SELECT LEVER		
315	2F		D10-3217-08	TRIGGER ARM		
316	2F		D10-3218-08	SELECT ARM		
317	1G		D10-3219-08	BRAKE ARM		
319	1F		D13-0965-08	CLUTCH GEAR		
320	1F		D13-0966-08	REW GEAR		
321	1F		D13-0967-08	FR GEAR		
322	1F, 2F		D13-0968-08	REEL GEAR		
323	2G		D13-0970-08	PLAY CAM GEAR		
324	1E		D13-0974-08	PLAY GEAR ASSY		
325	2E		D13-0981-08	ROTATION GEAR		
326	2E		D13-0982-08	RETURN GEAR		
329	1F, 2F		D19-0270-18	REEL CAP		
330	1G		D19-0273-08	CLUTCH PULLEY ASSY		
332	2F		D23-0284-08	HOUSING ASSY RIGHT		
333	1E		D23-0270-08	HOUSING ASSY LEFT		
335	1G		E35-0264-08	MOTOR WIRE		
336	1G		E35-0396-08	FLAT WIRE 15P		
337	1F		E35-0394-08	HEAD WIRE 5P		B
337	1F		E35-0398-08	HEAD WIRE 3P		A
338	1G		E40-4244-05	PIN CONNECTOR		
340	2E		G01-3428-08	RETURN GEAR SPRING		
341	1F		G01-3429-08	REEL SPRING		
342	1G		G01-3431-08	CLUTCH ARM SPRING		
343	1E		G01-3432-08	PLAY ARM SPRING		
344	1G		G01-3433-08	SHIFT SELECT LEVER SPRING		
345	2G		G01-3434-08	TRIGGER ARM SPRING		
346	2F		G01-3435-08	SHIFT LEVER SPRING		
347	2E		G01-3436-08	HEAD CHASSIS SPRING		

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348	2F		G01-3437-08	PINCH ROLLER ARM SPRING RIGHT		
349	1E		G01-3438-08	PINCH ROLLER ARM SPRING LEFT		
350	1G		G01-3439-08	BRAKE ARM SPRING		
351	2E		G01-3440-08	INTER LOCK LEVER SPRING RIGHT		B
351	2E		G01-3441-08	INTER LOCK LEVER SPRING LEFT		A
352	1E	*	G01-3602-08	EJECT LEVER SPRING LEFT		A
352	2F	*	G01-3603-08	EJECT LEVER SPRING RIGHT		B
353	1F		G02-0913-08	PACK LOCK FLAT SPRING		
354	2E		G02-0994-08	AZIMUTH SPRING		
355	2E		G11-2117-08	HEAD WIRE CLAMPER		
356	1F		G16-0780-08	REFLECT SEAL		
357	2E		G16-0786-08	INSULATING SHEET		
358	2E		J21-5918-08	HEAD PLATE ASSY		
360	2E		J31-0850-08	RETURN GEAR COLLAR		
361	1E, 2F		J31-0852-08	EJECT LEVER COLLAR		
362	2F		J42-0183-08	REEL CAP BUSHING		
363	2E		J90-0679-08	TAPE GUIDE		
364	1E		J90-0680-08	CASSETTE GUIDE		
365	1E, 2F		N09-2952-08	SCREW M2.6X8		
366	2E, 1G		N09-2871-08	SCREW M2X6		
367	2E		N09-2872-08	SCREW M1.7X8		
368	2E		N09-2953-08	SCREW M2X10		
369	2E		N09-2876-08	HEAD SCREW		
370	2E, 2F		N09-2877-08	TAP TITE SCREW M2X4		
371	2E		N19-2883-08	AZIMUTH SCREW		
372	1F		N19-1224-08	FLAT WASHER /4.1X6.5X0.25		
373	1G		N19-1225-08	FLAT WASHER /2.1X4.0X0.25		
374	1F		N19-1285-08	FLAT WASHER /1.6X3.0X0.13		
375	2G		N19-1286-08	FLAT WASHER /2.3X4.0X0.25		
376	2E		N19-1287-08	FLAT WASHER /3.5X6.5X0.5		
377	1E		N19-1288-08	FLAT WASHER /1.65X5.0X0.5		
378	2F		N19-1316-08	FLAT WASHER /1.8X6.0X0.5		
379	1F		N35-2604-46	BINDING HEAD MACHINE SCREW		
380	2G		N09-2900-08	SCREW M2X6		
381	2G		N09-2901-08	SCREW M2X4		
385	1G		S74-0006-08	LEAF SWITCH (REC, METAL, Cr02)		
386	1G		S74-0007-08	LEAF SWITCH (PACK DETECT)		
388	2F		T94-0228-08	SOLENOID ASSY		
390	1G		W02-1130-08	ELECTRIC UNIT		
BM	1G		D16-0332-08	MAIN BELT		
BR	1G		D16-0331-08	REEL BELT		
PF	2F		D14-0341-08	PINCH ROLLER ASSY		
PR	2E		D14-0340-08	PINCH ROLLER ASSY		
MM	1F		T42-0599-08	DC MOTOR ASSY		
PH	2E		T31-0066-08	PLAYBACK HEAD		A
RPEH	2E		T39-0020-08	REC/PLAYBACK/ERASE HEAD		B
PH1	1G		NJL5165K	PHOTO REFLECTOR		

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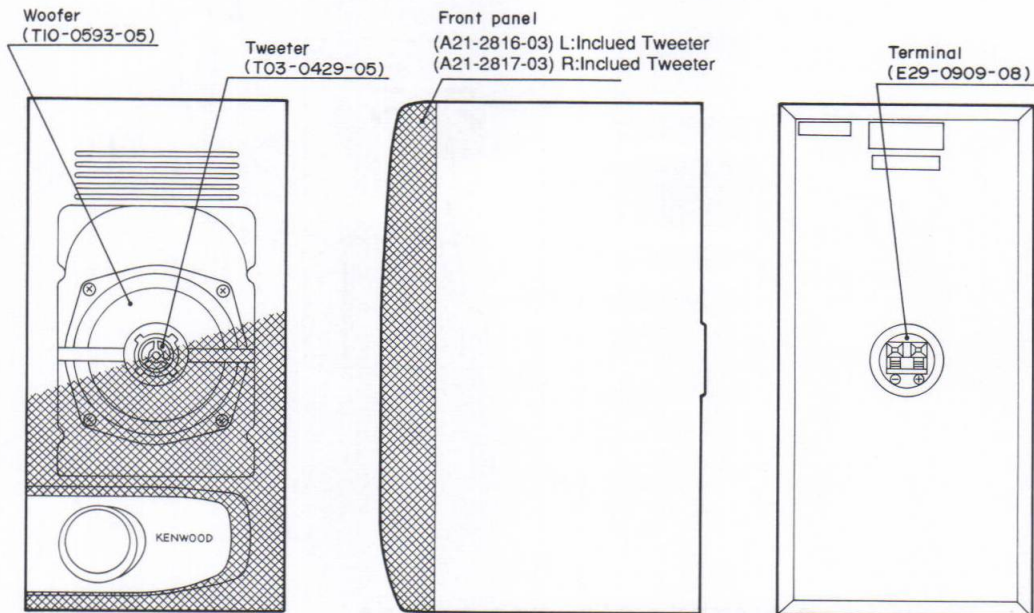
X:Australia

M:Other Areas

△ indicates safety critical components.

SPEAKERS SYSTEM

EXTERNAL VIEW



NOTE : The tweeter is mounted on the front panel.
When repairing , replace it together with
The front panel.

SPECIFICATIONS

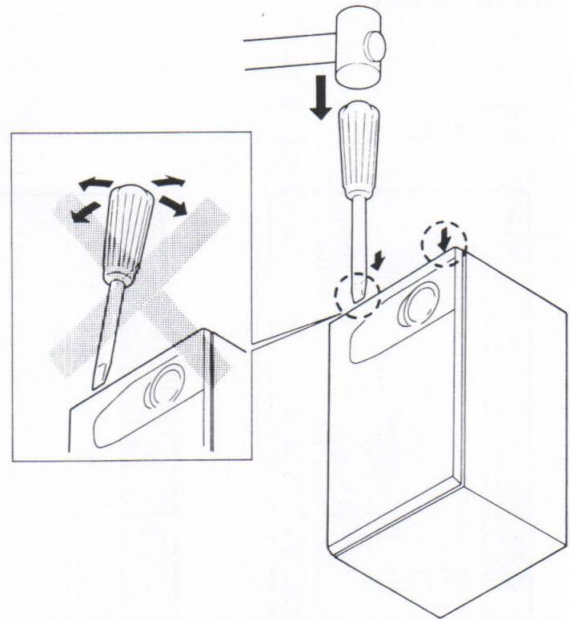
System	2-Way 2-Speaker System
Enclosure	Bass-Reflex, Bookshelf Type
Loudspeakers	
Woofer	120 mm (4-3/4 in) Cone Type
Tweeter	50 mm (2 in) Cone Type
Nominal Impedance	6 ohms
Maximum Input Power	60 Watts
Rated Input Power	30 Watts
Sensitivity	88 dB/W at 1 m
Frequency Response	50 Hz to 20,000 Hz
Crossover Frequency	5,000 Hz
Terminals	Push-Lever Type
Dimensions	Width: 190 mm (7-1/2 in) Height: 380 mm (14-15/16 in) Depth: 255 mm (10-1/16 in)
Net Weight	5.0 kg (11.0 lbs)
Enclosure Finish	High density particle board laminated with simulated wood grain vinyl.
Accessories	Speaker Wire

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

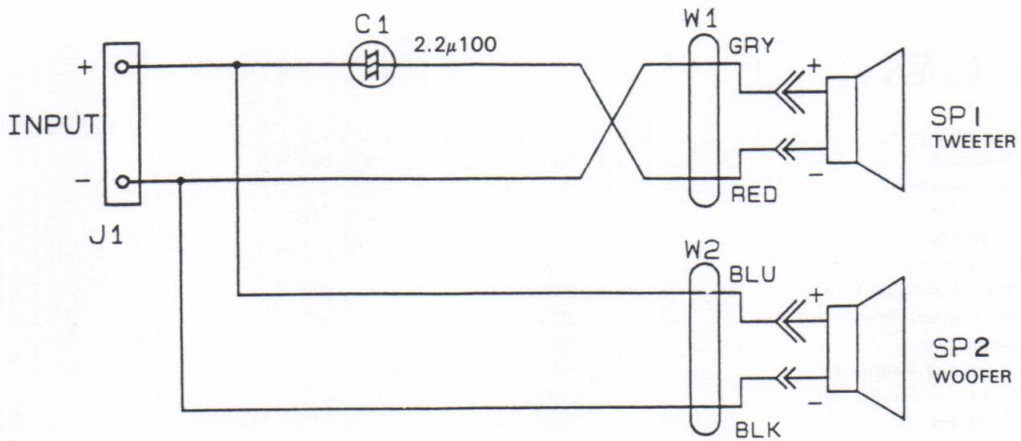
SPEAKERS SYSTEM DISASSEMBLY FOR REPAIR

HOW TO REMOVE THE GRILLE ASS'Y

Insert the tip of ⊖ driver into the four ditches located on the upper and lower sides of the net and widen the space between the net and speaker.
In doing this, attach a cloth to the speaker cabinet so as not to damage it.



SCHEMATIC DIAGRAM



LS-B3

SPEAKERS SYSTEM PARTS LIST

× New Parts

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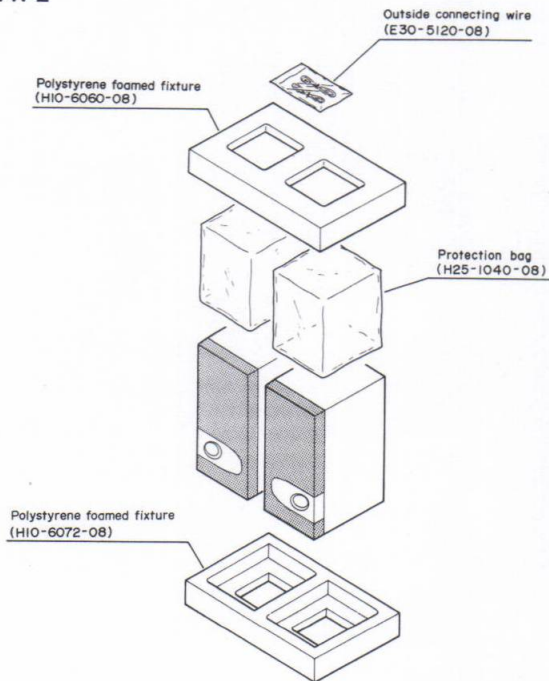
Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
LS-B3						
-		*	A21-2816-03	FRONT PANEL ASSY L		
-		*	A21-2817-03	FRONT PANEL ASSY R		
-			E30-5120-08	OUTSIDE CONNECTING WIRE		
		*	H51-0254-08	ITEM CARTON CASE	TE	
		*	H51-0255-08	ITEM CARTON CASE	PYMX	
-		*	H10-6060-08	POLYSTYRENE FOAMED FIXTURE T		
-		*	H10-6072-08	POLYSTYRENE FOAMED FIXTURE B		
-		*	H13-0710-08	CARTON BOARD	K	
-		*	H21-1089-08	PROTECTION SHEET	PYMXTE	
-		*	H25-1040-08	PROTECTION BAG	K	
SP1		*	T03-0429-05	LOUDSPEAKER(TWEETER)		
SP2		*	T10-0593-05	LOUDSPEAKER(WOOFER)		
NETWORK (X21-6290-00)						
C1			C90-1098-05	NP-ELEC 2.7UF 100WV		
J1			E29-0909-08	LOCK TERMINAL BOARD		

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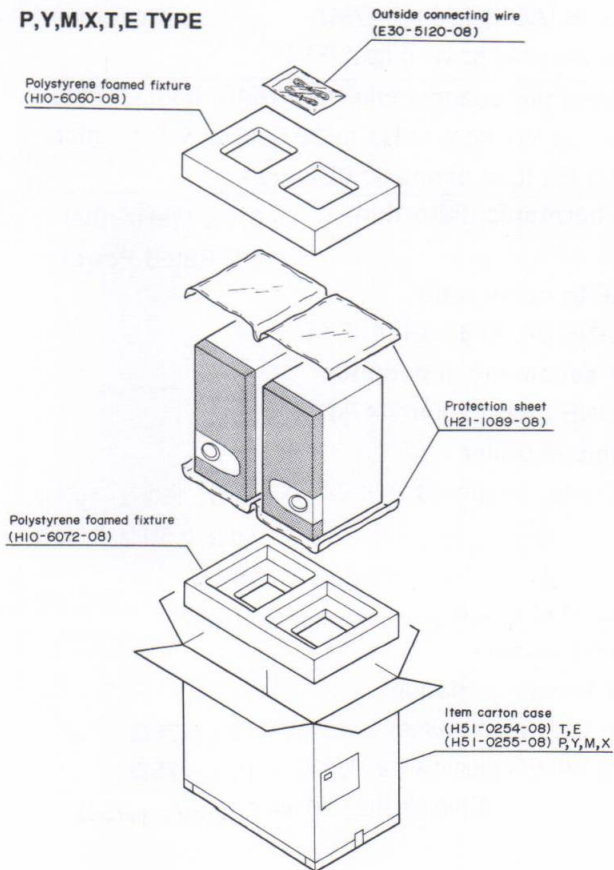
⚠ indicates safety critical components.

PACKING

K TYPE



P,Y,M,X,T,E TYPE



LS-B3

SPECIFICATIONS

(For other countries)

A-B3 (AMP. GE, TUNER)

STEREO MODE

Continuous rated power output

35 watts per channel minimum RMS, both channels driven, at 6Ω 1kHz with no more than 10% total harmonic distortion. (EIAJ)

(IHF '66) From 60 Hz to 20kHz,

0.1% T.H.D. at 6Ω 25W+25W

Total harmonic distortion 0.1% (1kHz, 6Ω)
 1/2 Rated Power

Signal noise ratio

LINE (AUX) 86 dB (IHF '66)

Input sensitivity/impedance

LINE (AUX) 200mV/47kΩ

Continuous rated power output

(DIN) 1kHz, at 6Ω 28W+28W

(IEC/NF) From 63Hz to 12,500 Hz,

0.7% T.H.D. at 6Ω 25W+25W

Total harmonic distortion 0.1% (1kHz, 6Ω)
 1/2 Rated Power

Signal to noise ratio

LINE (AUX) 86 dB (IHF '66)

Input sensitivity/Impedance

LINE (AUX) 200mV/47kΩ

Continuous rated power output (FTC)

25 watts per channel minimum RMS, both channels driven, at 6Ω from 60Hz to 20,000Hz with no more than 0.1% total harmonic distortion.

Total harmonic distortion 0.1% (1kHz, 6Ω)
 1/2 Rated Power

Signal to noise ratio

LINE (AUX) 86 dB (IHF '66)

Input sensitivity/impedance

LINE (AUX) 200mV/47kΩ

Graphic equaller

Center frequency 63Hz, 160Hz, 400Hz,
 1kHz, 2.5kHz, 6.3kHz,
 16kHz

Control range ±10dB

VIDEO section

Input level/Impedance

VIDEO (composite) 1V_{p-p}/75Ω

S-VIDEO (Luminance signal) ... 1V_{p-p}/75Ω

(Chrominance signal) 0.286V_{p-p}/75Ω

DIGITAL section

Sampling frequency 32kHz, 44.1kHz, 48kHz

Input level/Impedance

Coaxial 0.5V_{p-p}/75Ω

Wave length 660nm
 ±30nm

Output level/impedance

Coaxial 0.5V_{p-p}/75Ω

Wave length 660nm
 ± 30nm

SPECIFICATIONS

(For U.K. and Europe)

A-B3/L (AMP.GE.TUNER)

FM tuner section

Reception frequency range 87.5MHz~108MHz
Usable sensitivity (DIN at 75Ω)

MONO 0.9μV/10.2dBf

STEREO 28μV/40.2dBf

Total harmonic distortion (DIN at 1kHz)

MONO 0.3% (65.2dBf input)

STEREO 0.8% (65.2dBf input)

Signal noise ratio (DIN weighted at 1kHz)

MONO 69dB

STEREO 62dB

Stereo separation (DIN)

1kHz 42dB

6.3kHz 37dB

Selectivity (DIN±300kHz) 64dB

Image rejection ratio (at 98MHz) .. 90dB

IF rejection ratio (at 98MHz)..... 90dB

Spurious rejection ratio (at 98MHz) 90dB

Frequency response (30Hz~15kHz) +0.5dB, -3.5dB

MW tuner section

Reception frequency range 531kHz~1,602kHz

Usable sensitivity 20μV/(600μV/m)

Signal to noise ratio

(at 30% mod. 1mVinput) 47dB

Total harmonic distortion 0.6%

Image rejection ration 30dB

Selectivity 30dB

LW tuner section

Reception frequency range 153kHz~279kHz

Usable sensitivity 20μV

Signal to noise ratio

(at 30% mod. 1mV input) 43dB

Total harmonic distortion 0.8%

Image rejection ratio 40dB

Selectivity 35dB

(FOR U.S.A. and General market)

A-B3 (AMP. GE. TUNER)

FM tuner section

Reception frequency range 87.5MHz-108MHz

Usable sensitivity (MONO at 75Ω) 1.2μV/13.2dBf

50 dB quieting sensitivity (at 75Ω)

MONO 1.8μV/16.2dBf

STEREO 28μV/40.2dBf

Total harmonic distortion (at 1kHz)

MONO 0.4% (65dBf input)

STEREO 0.5% (65dBf input)

Signal to noise ratio (at 1kHz)

MONO 78dB (65dBf input)

STEREO 71dB (65dBf input)

74dB (85dBf input)

Stereo separation

1kHz 40dB

Capture ratio (WIDE) 2.0dB

Selectivity (±400kHz) 50dB

Image rejection (at 98MHz) 46dB

IF rejection ratio (at 98MHz) 89dB

Spurious rejection ratio (at 98MHz) ... 77dB

AM suppression ratio 63dB

Frequency response (30Hz-15kHz) +0.5dB, -3.5dB

AM tuner section

Reception frequency range

9kHz step 531kHz~1,602kHz

10kHz step 530kHz~1,610kHz,
530kHz~1,700kHz (K.P)
or 530kHz~1,700kHz

Usable sensitivity 16μV/(500μV/m)

Signal to noise ratio

(at 30% mod. 1mV input) 48dB

Total harmonic distortion 0.6%

Image rejection ratio 30dB

Selectivity 30dB

GENERAL

Power consumption 100W (IEC)

Dimensions W : 270 mm

H : 190 mm

D : 280 mm

Weight (Net) 5.1kg

UD-301/351

SPECIFICATIONS

X-B3 (CASSETTE DECK)

Track system	4 track 2 channel stereo
Recording system	AC bias (Frequency : 105kHz)
Wow & flutter	0.1% (W.RMS)
Fast winding time	Approx. 110 seconds (C-60 tape)
Frequency response	
Normal tape	30Hz to 15,000 Hz, ± 3 dB
CrO ₂ tape	30Hz to 16,000 Hz, ± 3 dB
Signal to noise ratio	
Dolby NR OFF	50dB
(IEC, 250nWb/m, CrO ₂ tape)	
Dolby NR OFF	53dB
Dolby B NR ON	63dB
Dolby C NR ON	72dB
(3rd H.D.3%, CrO ₂ tape)	

General

Power consumption	AC 16V 0.6A
Dimensions	W : 270mm
	H : 190mm
	D : 257mm
Weight (Net)	4.1kg

X-B3 (DECK, CD)**FORMAT**

System	Compact disc digital audio system
Laser	Semiconductor laser
Number of channels	2 channels
Playing rotation	200 rpm - 500rpm (CLV)
D/A Convertors	
D/A conversion	1 Bit
Oversampling	8 fs (352.8kHz)
Audio	
Frequency response	20Hz-20kHz, ± 1.5 dB
Signal to noise ratio	More than 90dB
Total harmonic distortion	Less than 0.01% (at 1kHz)
Wow & flutter	Unmeasurable Limit

General

Power consumption	AC9V 0.8A
Dimensions	W : 270mm
	H : 190mm
	D : 257mm
Weight (Net)	4.1kg

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For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:

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

X-MB3 (CASSETTE DECK)

Track system	4 track 2 channel stereo
Recording system	AC bias (Frequency : 105kHz)
Wow & flutter	0.1% (W.RMS)
Fast winding time	Approx. 110 seconds (C-60 tape)
Frequency response	
Normal tape	30Hz to 15,000 Hz, ± 3 dB
CrO ₂ tape	30Hz to 16,000 Hz, ± 3 dB
Signal to noise ratio	
Dolby NR OFF	50dB
(IEC, 250nWb/m, CrO ₂ tape)	
Dolby NR OFF	53dB
Dolby B NR ON	63dB
Dolby C NR ON	72dB
(3rd H.D.3%, CrO ₂ tape)	

General

Power consumption	AC 16V 0.6A
Dimensions	W : 270mm
	H : 190mm
	D : 307mm
Weight (Net)	5.4kg

X-MB3 (DECK, CD)**Format**

System	Compact disc digital audio system
Laser	Semiconductor laser
Number of channels	2 channels
Playing rotation	200 rpm - 500rpm (CLV)
D/A Conversion	
D/A conversion	1 Bit
Oversampling	8 fs (352.8kHz)
Audio	
Frequency response	20Hz-20kHz, ± 1 dB
Signal to noise ratio	More than 90dB
Total harmonic distortion	Less than 0.01% (at 1kHz)
Wow & flutter	Unmeasurable Limit

General

Power consumption	AC9V 0.8A
Dimensions	W : 270mm
	H : 190mm
	D : 307mm
Weight (Net)	5.4kg

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