MINI HiFi COMPONENT SYSTEM

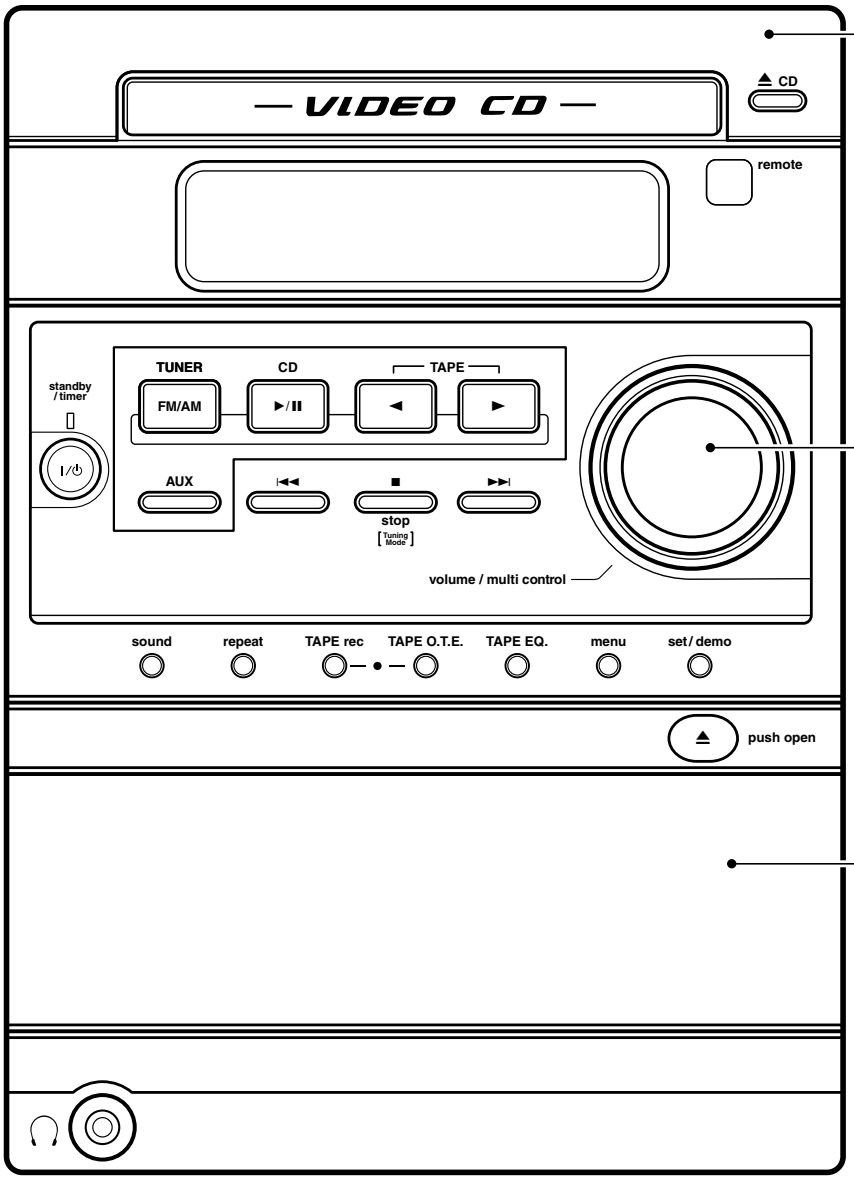
RXD-M33V

SERVICE MANUAL

(HM-353V)**

KENWOOD

B51-5738-00 (K/K) 404



Panel ass'y * (A60-)

Knob (K29-7907-04)

Cassette holder ass'y * (A53-)

****Refer to page 2 if you want to know system configuration.**

*** Refer to parts list on page 29.**

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

70%

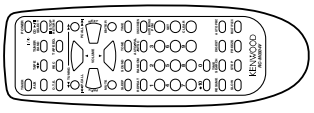
RXD-M33V

CONTENTS / ACCESSORIES

Contents

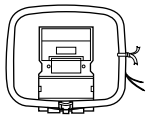
Accessories

Remote control unit (1)
(A70-1528-05): RC-M0304V

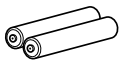


Battery cover(A09-1192-08)

AM loop antenna (1)
(T90-0852-05)

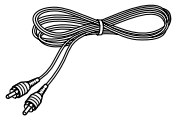


Batteries (R6/AA) (2)

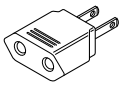


FM indoor antenna (1)
(T90-0877-05)

Video Cord (1)
(E30-1427-05)



AC plug adaptor (1)
(E03-0115-05)



Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

System configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	COLOR
HM-353V-S	RXD-M33V-S	M	LS-M33V-S	SILVER
HM-353V-LM	RXD-M33V-L	M	LS-M33V-LM	BLUE
HM-353V-N	RXD-M33V-N	M	LS-M33V-N	GOLD
HM-353V-S	RXD-M33V-S	I	LS-M33V-S	SILVER
HM-353V-LM	RXD-M33V-L	I	LS-M33V-LM	BLUE
HM-353V-N	RXD-M33V-N	I	LS-M33V-N	GOLD
HM-353V-S(M2)	RXD-M33V-S(M2)	M2	LS-M33V-S	SILVER
HM-353V-LM(M2)	RXD-M33V-L(M2)	M2	LS-M33V-LM	BLUE
HM-353V-N(M2)	RXD-M33V-N(M2)	M2	LS-M33V-N	GOLD
HM-353V-S	RXD-M33V-S	V	LS-M33V-S	SILVER

Cautions

CLASS 1
LASERPRODUCT

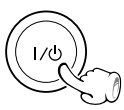
The marking of this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

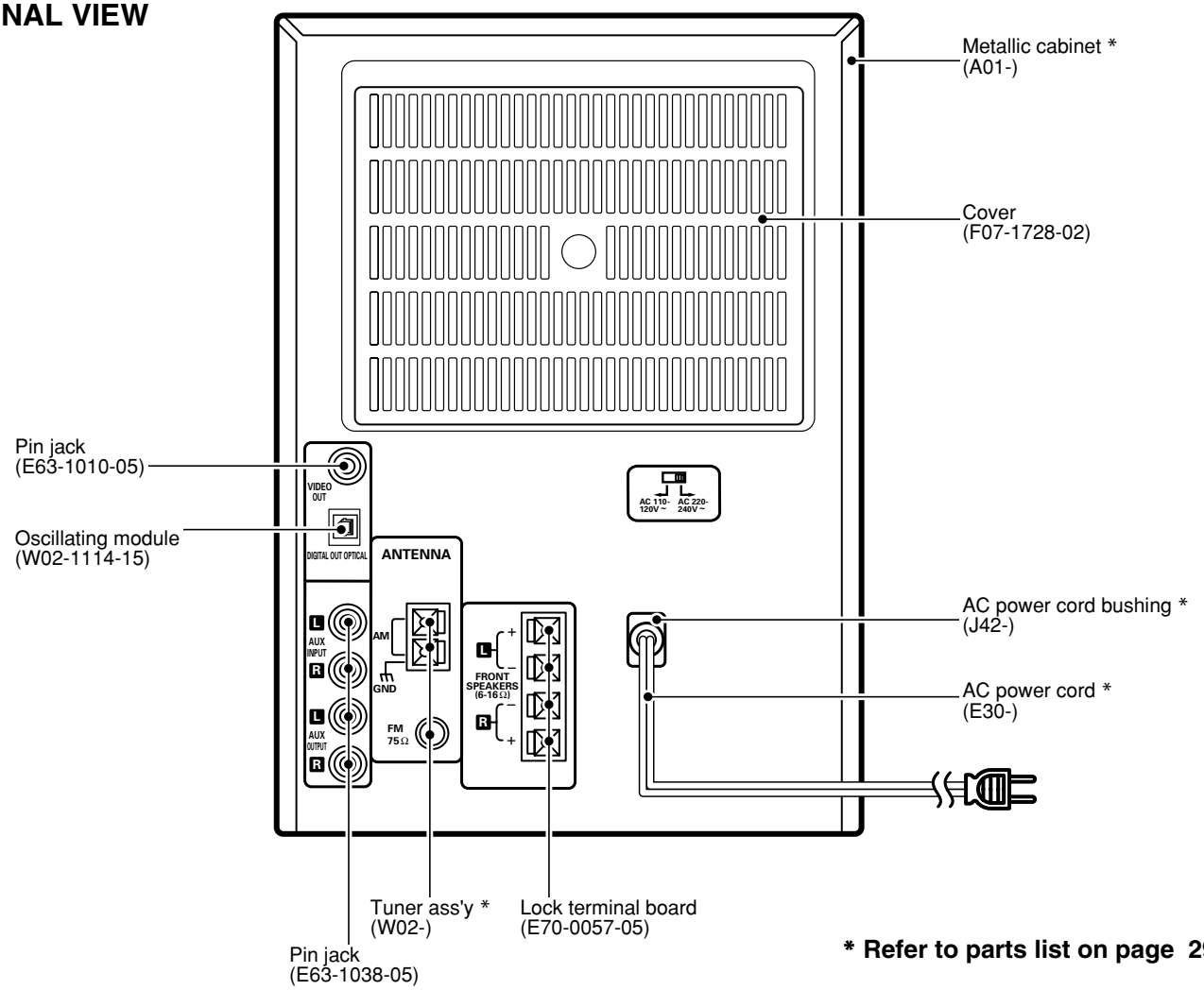
- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the Power I/⏻ key depressed, plug the power cord again.



EXTERNAL VIEW / DISASSEMBLY FOR REPAIR

EXTERNAL VIEW

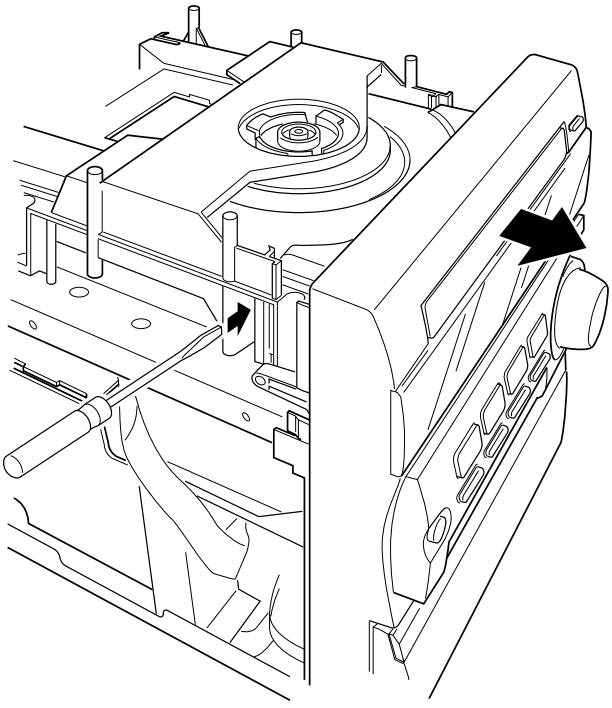


*** Refer to parts list on page 29.**

DISASSEMBLY FOR REPAIR

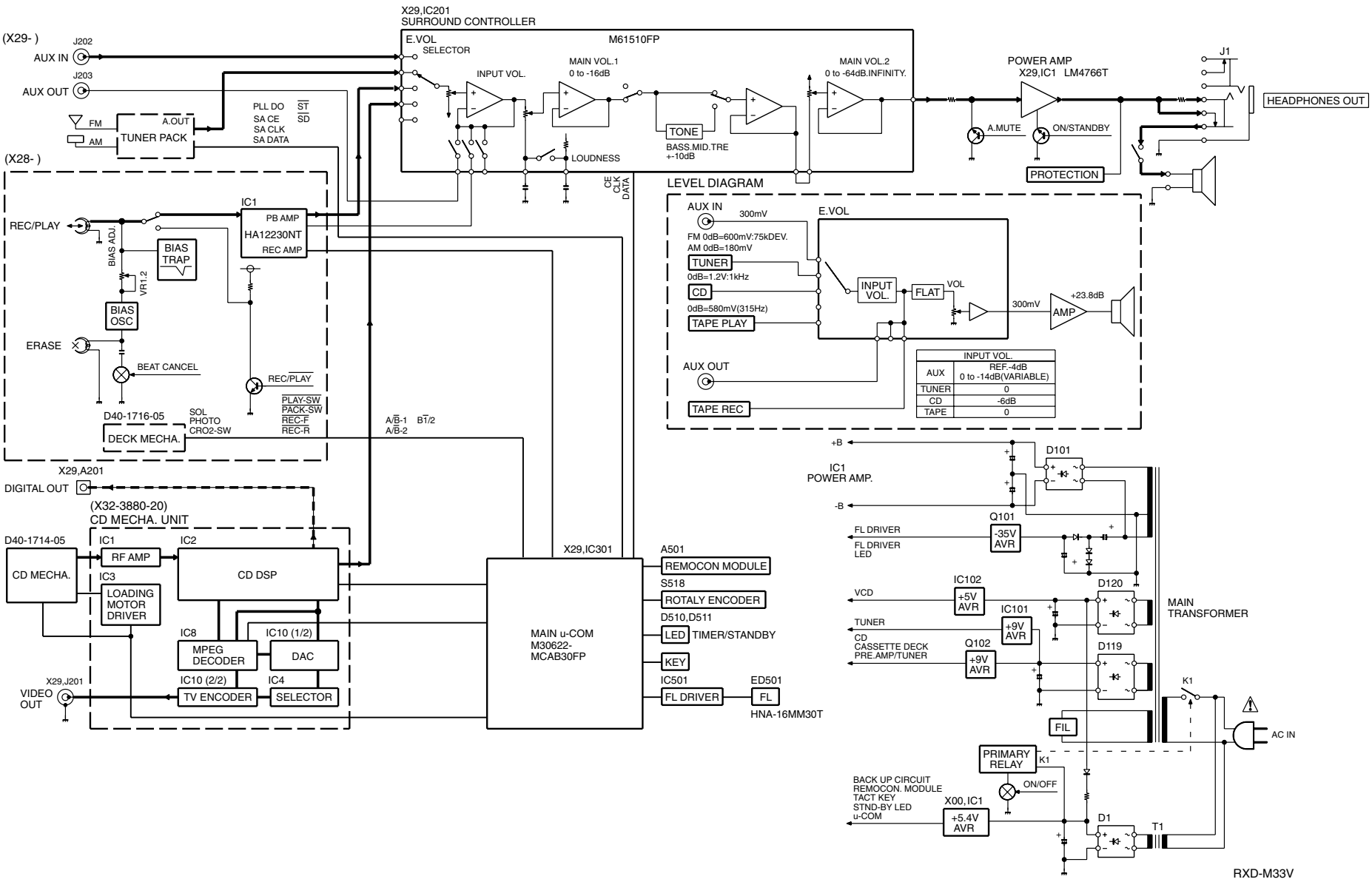
How to open the CD tray when it does not come out.

1. Insert a flat driver and so on to a square hole in the mechanism as shown in the figure.
2. Push a rack gear in the direction of arrow.
   (At this time, the tray comes out slightly frontward).
3. The tray can be opened with hand.



RXD-M33V

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Initializing

1-1 Initialization Method

• While pressing the [POWER] key, turn the AC on.

1-2 Initialization Operation

• During the initial operation, the display shows "INITIALIZE" and after that it will be returned to standby condition.

• If any mechanisms error occurred, the error indication is displayed as "ERR" in the display.

1-3 Mechanism Initializations

① CD Mechanism

• If a mechanism error occurred, the error indication is displayed as "C ERR" in the display.

② Deck Mechanism

• If a mechanism error occurred, the error indication is displayed as "X ERR" in the display.

2. Tuner Destination

Set	Destination	Band	Receiving Frequency Range	Channel Space	IF	RF
M	K2	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1610kHz	10kHz	+450kHz	10kHz

3. Tuner Preset Frequency

	Frequency	
P.CH	M,M2,I Type	K2(M,M2 Type)
1	FM 98.30MHz	FM 98.30MHz
2	FM 98.00MHz	FM 87.50MHz
3	FM 87.50MHz	FM 89.10MHz
4	FM 89.10MHz	FM 108.0MHz
5	FM 108.0MHz	FM 90.00MHz
6	FM 90.00MHz	FM 87.50MHz
7	FM 87.50MHz	FM 87.50MHz
8	FM 87.50MHz	FM 87.50MHz
9	AM 1602kHz	AM 1610kHz
10	AM 999kHz	AM 1000kHz
11	AM 630kHz	AM 630kHz
12	AM 1440kHz	AM 1440kHz
13	FM 106.0MHz	FM 106.0MHz
14	AM 531kHz	AM 530kHz
15	FM 87.50MHz	FM 87.50MHz
16	FM 98.00MHz	FM 98.00MHz
17	FM 98.50MHz	FM 98.50MHz
18	FM 87.50MHz	FM 87.50MHz
19	AM 990kHz	AM 990kHz
20	FM 97.70MHz	FM 97.40MHz
21	AM 531kHz	AM 530kHz
22	FM 87.50MHz	FM 87.50MHz
23	FM 87.50MHz	FM 87.50MHz
24	FM 87.50MHz	FM 87.50MHz
25	FM 87.50MHz	FM 87.50MHz
26	FM 87.50MHz	FM 87.50MHz
27	FM 87.50MHz	FM 87.50MHz
28	FM 87.50MHz	FM 87.50MHz
29	FM 87.50MHz	FM 87.50MHz
30	FM 106.0MHz	FM 106.0MHz

4. Test Mode

4-1 Setting method of the Test Mode

• While pressing the "below each" key in the table, turn the power switch on.

TEST MODE	SETTING METHOD
CD MODE	CD PLAY key+AC ON
DECK MODE	TAPE PLAY key (►) +AC ON
✻ FCT & SUB CLOCK OSC DIAGNOSIS	MENU key + AC ON

✻ The oscillation diagnosis (existence of oscillation and measurement of period) of a sub clock is performed before the test mode is entered. If the diagnosis result is OK, the system enters the test mode.
If the diagnosis result is NG, the oscillation of the sub clock is diagnosed again. If the result is OK, the system enters the test mode. If the diagnosis result is continuously NG 5 times, the system stops with "ERR1" and "ERR2" displayed.

4-2 Cancel of the test mode

• By turning the AC off, the system is initialized and the test mode is canceled.

• Cancel the test mode only if the power switch is turned off.

4-3 Contents of the Test Mode

• The muting during mode selection is not controlled in the test mode.

• During the test mode, it can be operated in a special manner that is different from an ordinary operation by using the keys on the main body, specifically as shown in the following tables.

CIRCUIT DESCRIPTION

4-4 CD Test Mode

KEYS	DISPLAY	OPERATION
CD-PLAY/PAUSE (Cyclically changed the mode 05 and 03 by pressing the key.)	05 ✻✻:✻✻ (✻✻:✻✻)Time Display	Tracking-servo on.
	03	Tracking-servo off.
CD STOP (Cyclically changed in the stop mode only.)	01 --:--	Stop the CD operation.
	 07 FG/FE 08 FB/FO 09 TG/TE 10 TB/TO	Adjustment value/mean value FG value/FE value FBAL value/FO value TG value/TE value TBAL value/TO value
SKIP UP	Ex.01~02	• CD track number up.
SKIP DOWN	Ex.02~01	• CD track number down.
SKIP UP/SKIP DOWN	Usual Indication	• Play the last track number in the stop mode.

4-5 Deck Test Mode

KEYS	DISPLAY	OPERATION
TAPE REC	Usual Indication	• 4 Seconds Recording If the REC/ARM key is pressed, the system record for 4 seconds. Then, it rewinds to the REC starting position and plays back automatically. If the REC/ARM key is pressed, during the 4seconds REC operation, the system records further for 4 seconds, then returns to the starting position of the first 4 seconds REC operation and plays back.
MENU	T-EQ ON	Changeover the EQ. On/off cyclically.
	T-EQ OFF	

✻ Mechanism half switches indication

The mechanism half switches status are indicated as "blank" or "E" in the display.

8th Dot(Display)	1st figure	2nd figure	3rd figure	4th figure
Mechanism Half Switch	FWD REC Inhibit Detection SW	RVS REC Inhibit Detection SW	CrO2(TYPE Ⅱ) Detection SW	Cassette Half Detection SW
ON	Blank	Blank	Blank	Blank
OFF	E	E	E	E

4-6 FCT(Factory) Test Mode

KEYS	DISPLAY	OPERATION
REPEAT	Usual Indication	• The tray opens while holding down the repeat key.
SOUND	Usual Indication	• The tray closes while holding down the sound key.

CIRCUIT DESCRIPTION

5. Port Description of Microcomputer

Port No.	Port Name	I/O	Description	Active	
				H	L
1	SEL DT	O	Data output to surround controller.		
2	TYPE	I	Discrimination of tuner destination.		
3~7	NC	-	Not Connected.		
8	BYTE	-	Connected to ground.		
9	CN VSS	-	Connected to ground.		
10	XC IN	I	Timer clock input (32.768kHz).		
11	XC OUT	O	Timer clock output (32.768kHz).		
12	RESET	I	Reset signal input for microcomputer.	Normal	Reset
13	V OUT	O	Main clock output (10MHz).		
14	VSS	-	Connected to ground.		
15	X IN	I	Main clock input (10MHz).		
16	VCC(BU)	-	Microcomputer power supply (+5v).		
17	NMI		Connected to VCC.		
18	REMOCON	I	Remote control signal input.		
19	ESS ST	I	Interrupt for ESS/ESS start to transmit		
20	ESS ST	I	Interrupt for ESS/ESS finish to transmit		
21	CE	I	Back up detection input.	AC ON	AC OFF
22~25	NC	-	Not Connected.		
26	HP DET	I	Detection port for headphones jack.	H/P IN	H/P OUT
27	CD POWER	O	CD DSP power on/off changeover control.	ON	OFF
28	ESS CLK	I	Clock input from ESS.		
29	ESS DIN	I	Data input from ESS.		
30	ESS DO	O	Data output to ESS.		
31	NC	-	Not Connected.		
32	SP RLY	O	On/off control port for speaker relay.	ON	OFF
33	AMUTE	O	Audio mute control.	Mute OFF	Mute ON
34	POWER	O	Power relay control.	ON	OFF
35	FL DATA	O	Data output to FL dot driver.		
36	NC	-	Not Connected.		
37	FL CLK	O	Clock output to FL dot driver.		
38	FL CE	O	CE output to FL dot driver.	Disable	Enable
39	FL RST	O	Reset output to FL dot driver.	Normal	Reset
40	LED POWER	O	Timer led (green) control port.	OFF	ON
41	LED STBY	O	Standby led (red) control port.	OFF	ON
42,43	ENC 1,2	I	Volume encoder (A/B) input.		
44~46	NC	-	Not Connected.		
47	CLOSE	O	Control port of CD tray motor.	ON	OFF
48	OPEN	O	Control port of CD tray motor.	ON	OFF
49	CLOSE SW	I	Input port of close switch for CD tray.	OFF	ON
50	OPEN SW	I	Input port of open switch for CD tray.	OFF	ON
51	FAN	O	Control port to fan motor.	ON	OFF
52	A/B-1	O	Deck recording mute & head select control 1.		
53	A/B-2	O	Deck recording mute & head select control 2.	Recording	Except Recording
54	B Ⅰ/Ⅱ	O	Control port of recording equalizer for deck.	TYPE Ⅱ	
55~61	NC	-	Not Connected.		
62	VCC(BU)	-	Connected to VCC.		
63	NC	-	Not Connected.		
64	VSS	-	Connected to ground.		
65	PLAY SW	I	Detection switch input of head position for deck.	OFF	ON
66	CrO2 SW	I	Detection switch input of CrO2 tape for deck.	TYPE Ⅱ	TYPE Ⅰ
67	HALF SW	I	Cassette half switch input.	OFF	ON
68	REC F SW	I	Deck forward recording switch input.	OFF	ON
69	CPM	O	Control port of capstan motor for deck.	ON	OFF

CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Description	Active	
				H	L
70	REC R SW	I	Deck reverse recording switch input.	OFF	ON
71	SOL	O	Control port of solenoid for deck.	ON	OFF
72	LMUTE	O	Deck line mute control.	Mute ON	Mute OFF
73~75	NC	-	Not Connected.		
76	NOR	O	Switching port of bias (NOR/CrO2) for deck.	TYPE Ⅰ	
77	BIAS	O	Control port of bias on/off for deck.	ON	OFF
78	R/P	O	Deck recording & playback changeover.	REC/ARM / REC PAUSE	Others
79	BEAT C	O	On/off control port of beat cancel for deck.	ON	OFF
80	MUTE	O	Tuner mute control.	Mute OFF	Mute ON
81	PLL CE	O	PLL IC chip enable output.		
82	PLL DT	O	PLL IC data output.		
83	PLL CLK	O	PLL IC clock output.		
84	PLL DO	I	PLL IC data input.		
85	SD	I	SD detection signal input.	NO Tuned	Tuned
86	ST	I	Stereo detector input.	Mono	Stereo
87	EEP SCL	-	Unused.		
88	EEP SDA	-	Unused.		
89	S LEVEL	I	Unused.		
90	FAN LEVEL	I	Level detection port for fan control.		
91	CD PROTECT	I	Detection port for CD protection.		
92	PROTECT	I	Detection port for protection.		Normal
93,94	KEY2,KEY1	I	A/D key (1,2) input.		
95	TH. SENS	I	Not Connected.		
96	AVSS	-	Connected to ground.		
97	PH	I	Deck reel pulse input.		
98	VREF	-	A/D reference voltage input.		
99	AVCC(BU)	-	Power supply input (+5V).		
100	SEL CLK	O	Clock output to surround controller		

6. Key Matrix

Input Voltage	Key 1	Key 2
(V)	Pin 93	Pin 94
0.00~0.39	POWER	SKIP UP
0.43~1.14	AUX	SET/DEMO
1.18~1.69	SKIP DOWN	MENU
1.71~2.18	STOP	TAPE EQ
2.21~2.66	TAPE FWD	TAPE REC
2.70~3.04	TAPE RVS	OTE
3.08~3.45	CD	REPEAT
3.49~3.84	TUNER	SOUND
3.88~4.41	CD OPEN/CLOSE	-
4.43~4.80	KEY OFF	KEY OFF

∗ The input voltage value : for 4.8 [v] in a standard voltage.

CIRCUIT DESCRIPTION

7. Port Description of IC

7-1 Sound Controller with Surround IC(X29, IC201)

Port No.	Port Name	I/O	Description
1	REF IN	I	Input pin of the reference amplifier.
2	REF OUT	O	Output pin of the reference amplifier.
3,40	CD	I	Input pin of the CD.
4,39	NC	I	Unused.
5,38	TUN	I	Input pin of the TUNER.
6,37	TAPE	I	Input pin of the Tape play.
7,36	AUX IN	I	Input pin of the CD.
8,35	TA REC	O	Output pin of the input volume 1 and 2.
9,34	AUX OUT	I	Input pin of the volume input selector A1 and A2/Output pin of the REC-C1 and 2.
10,33	VSEL A OUT1,2	-	Capacitor connection pin for the volume changing noise reduction.
11,32	LOUDNESS	-	Frequency characteristic setting pin in the loudness part.
12,31/13,30	E.. BASS	-	Frequency characteristic setting pin in the tone control (Bass).
14,29/15,28	E.. BASS	-	Frequency characteristic setting pin in the tone control (Mid).
16,27	TRE	-	Frequency characteristic setting pin in the tone control (Treble).
17,26	VSEL B OUT1,2	O	Output pin of the volume input selector B1and B2.
18,25	VOL IN1.2	I	Input pin of the main volume.
19,24	VOL OUT1,2	O	Output pin of the main volume.
20	VCC	-	Power supply (+5.0V)
21	DATA	I	Input pin of the serial data.

7-2 Port Function of PB/REC Equalizer System IC(X28,IC1)

Port No.	Port Name	I/O	Description
1	VREF	-	Reference voltage.
2	GND	-	Ground port.
3	BIN-R	I	PB B deck right channel input.
4	AIN-R	I	PB A deck right channel input.
5	PBNF-R	-	PB EQ. feed back.
6	PBEQ-R	O	Equalizer right channel output (70u).
7	EOUT-R	O	Equalizer right channel output (120u).
8	TAI-R	I	Tape right channel input.
9	PBOUT-R	O	PB right channel output.
10	MAOUT	O	MS amplifier output.
11	MAI	I	MS amplifier input.
12	IREF	I	Equalizer reference current input.
13	RIN-R	I	Rec equalizer right channel input.
14	RIP	O	NAB output.
15	ROUT-R	O	Rec equalizer right channel output.
16	ROUT-L	O	Rec equalizer left channel output.
17	VCC	-	Power supply.
18	RIN-L	I	Rec equalizer left channel input.
19	MUTE	I	Mode control input.
20	A120/70	I	Mode control input.
21	A/B	I	Mode control input.
22	B I/I I	I	Mode control input.
23	PBOUT-L	O	PB left channel output.
24	TAI-L	I	Tape left channel input.
25	EQOUT-L	O	Equalizer left channel output (120u).
26	PBEQ-L	O	Equalizer left channel output (70u).
27	PBNF-L	-	PB EQ. feed back.
28	AIN-L	I	PB A deck left channel input.
29	BIN-L	I	PB B deck left channel input.
30	REC-RST	-	Rec return.

CIRCUIT DESCRIPTION

8. Port Logic

• Cassette Deck Reel Pulse (X29, IC301)

Input Voltage (V) (Pin 97)	Logic
0.00~1.93	LOW
1.95~2.91	-
2.92~4.80	HIGH

• Voltage Protection (X29, IC301)

Port Logic (Pin 92)	Protection
LOW	OFF
HIGH	ON

• CD Protection (X29, IC301)

Input Voltage (V) (Pin 91)	Protection
0.00~1.50	ON
1.51~3.49	OFF
3.50~4.80	ON

• Thermal Sensor (X29, IC301)

Input Voltage (V) (Pin 97)	Protection
0.00~2.49	ON
2.51~4.80	OFF

• CD Tray Mechanism Control

① Port Logic

Loading Motor	OPEN	CLOSE	BRAKE
M +	HIGH	LOW	HIGH
M -	LOW	HIGH	HIGH

②Timing Chart

M + : Motor control for CD tray open direction HIGH : Motor ON
M - : Motor control for CD tray close direction HIGH : Motor ON
OPEN SW : Tray open detection switch LOW : Switch ON
CLOSE SW : Tray close detection switch LOW : Switch ON

• Cassette Mechanism Control

✻ A/B	Low	Mid	High
✻ A/B-1	L	H	H
✻ A/B-2	L	L	H

✻ A/B : Pin 21(X28, IC1)
✻ A/B-1 : Pin 52 (X29, IC301)
✻ A/B-2 : Pin 53 (X29, IC301)

X29, IC301

Deck Mode	R/P(Pin78)	BIAS(Pin77)	A/B-1(Pin52)	A/B-2(Pin53)
STOP	L	L	L	L
PLAY	L	L	L	L
FF	L	L	L	L
RWD	L	L	L	L
REC	H	H	H	H
ARM	H	H	H	L
REC PAUSE	H	L	H	L

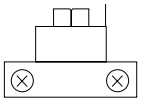
• PB/REC AMP (X28, IC1)

	PLAY		REC		ARM	
	NOR	CrO2	NOR	CrO2	NOR	CrO2
A/B (Pin 21)	L	L	H	H	M	M
B Ⅰ/Ⅱ (Pin 22)	L	H	L	H	L	H

ADJUSTMENT

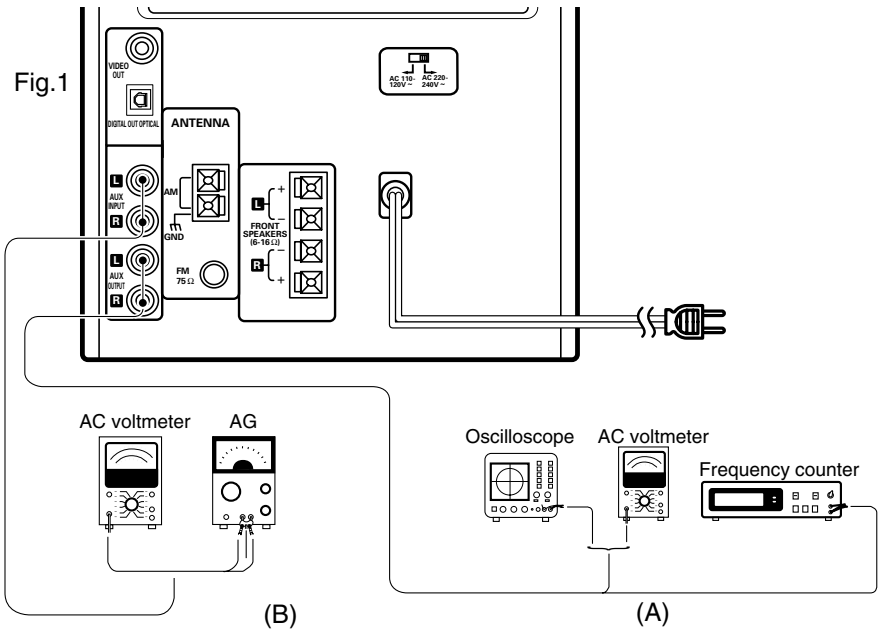
Cassette Deck adjustment

0dBs=0.775V

No	ITEM	INPUT SETTING	OUTPUT SETTING	DECK SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
Ⅰ. CASSETTE MECHANISM UNIT							
< 1 >	Demagneti-zation and cleaning	–	–	Demagneti-zation: POWER OFF Cleaning: PLAY	Recording head, erase head,capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser. Clean the REC / PLAY head, erase head,capstan and pinch roller using a cotton swab slightly damped with alcohol.	
< 2 >	Azimuth of the REC/PLAY head	SCC-1727 TCC–153 MTT–114 10kHz, – 10dB	(A)	PLAY	 RVS FWD	Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight line.	Fig.1
< 3 >	TAPE SPEED (NORMAL)	TCC–110 MTT–111 SCC–1727 3kHz	(A)	PLAY	Trimming pot in the motor.	Check the tape speed so that 3kHz(±2%) is obtained at the center of the tape.	Fig.1
Ⅱ. PC BOARD ADJUSTMENT							
< 1 >	BIAS CURRENT	(B) Connect the AG to jack. 400Hz: -20dBs 12.5kHz: -20dBs	(A)	REC and PLAY	VR 1 (L) VR 2 (R)	Record 400Hz and 12.5kHz alternate-ly, and adjust the bias current adjust-ment potentiometer for the playback levels to become the same.	Fig.1

SYSTEM CONNECTIONS

Fig.1



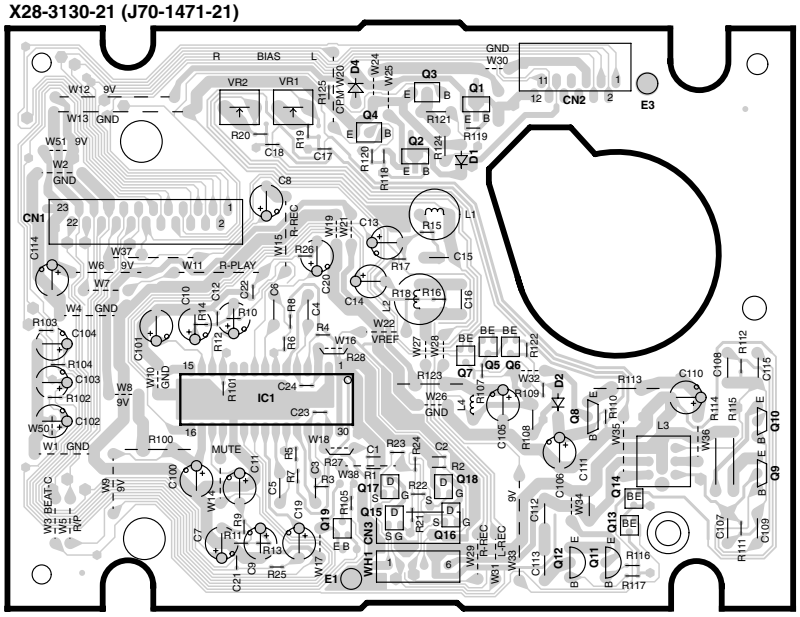
CD player adjustment

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE : While pressing the [CD PLAY/PAUSE] key, turn power on.							
1	LASER CURRENT	Test disc Type 4	Connect the DC voltmeter to CN3(#1 and #2) in X32	Press the "PLAY" key to check that the dis-play is "03" or "05"	–	163mV (Reference value)	

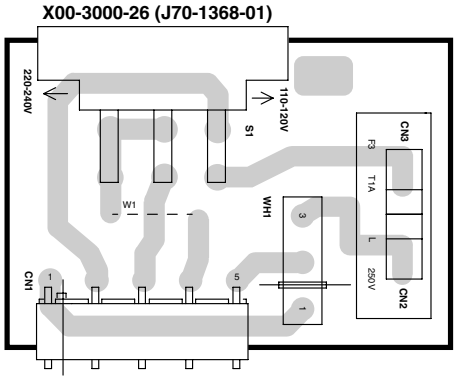
Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent. (KTD-02)
LPF : Around 47kΩ + 390pF or so.

PC BOARD (Component side view)

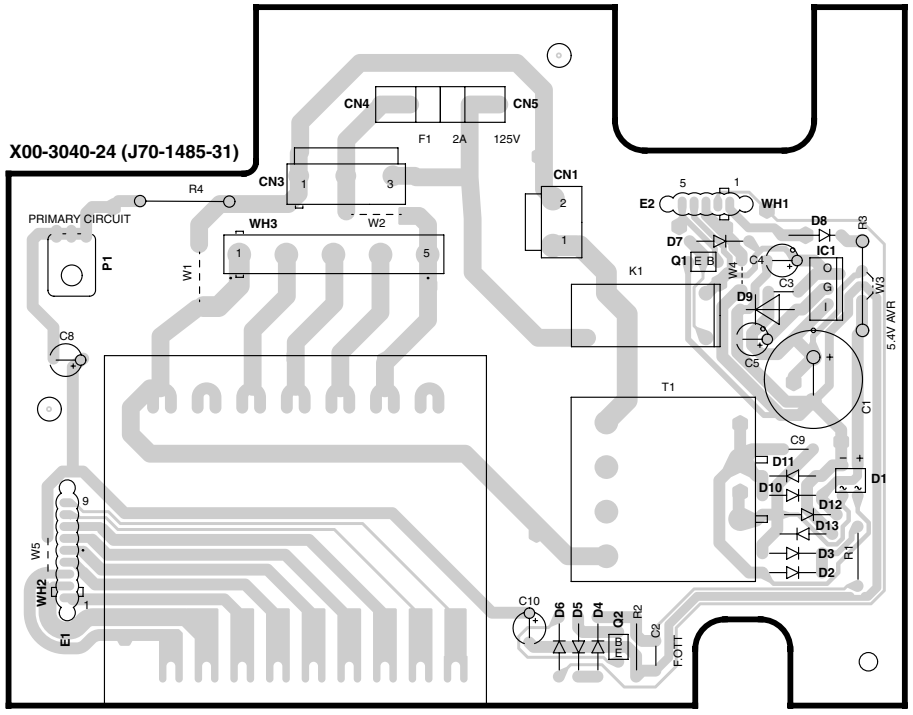
X28-3130-21 (J70-1471-21)



X00-3000-26 (J70-1368-01)



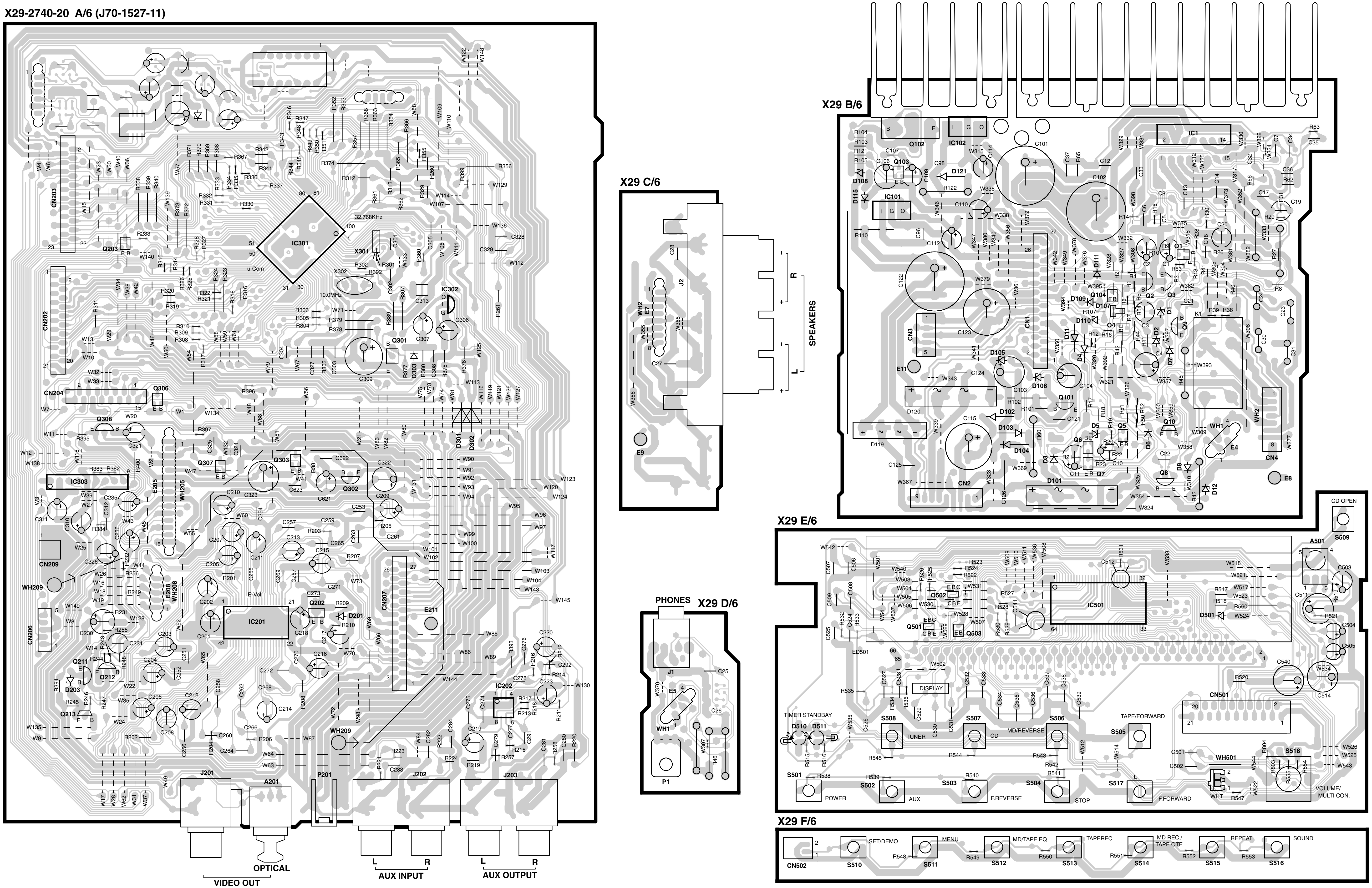
X00-3040-24 (J70-1485-31)



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

PC BOARD(Component side view)

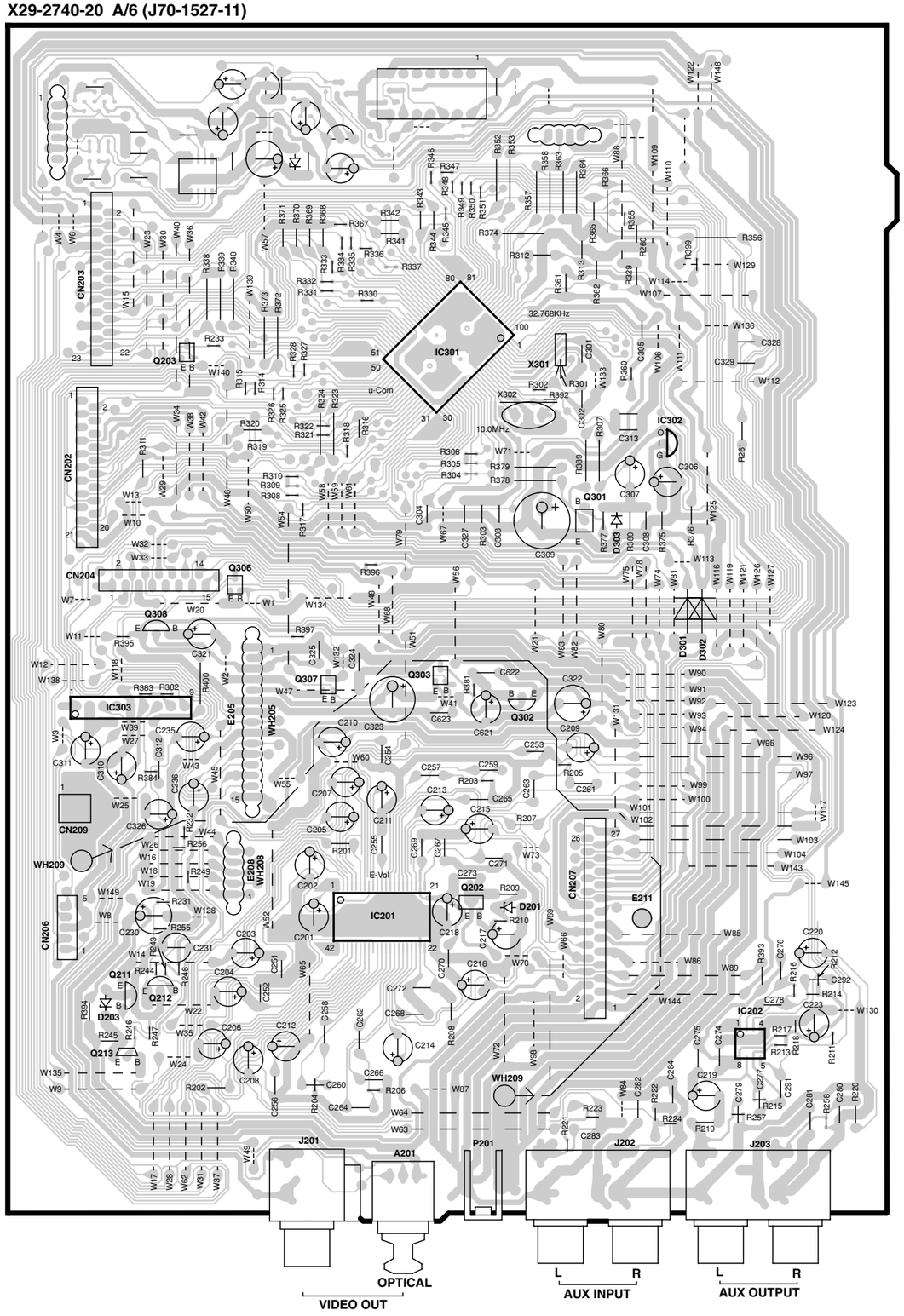
X29-2740-20 A/6 (J70-1527-11)



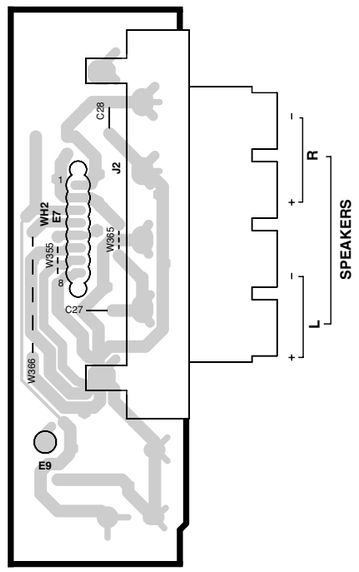
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

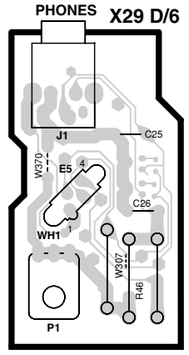
X29-2740-20 A/6 (J70-1527-11)



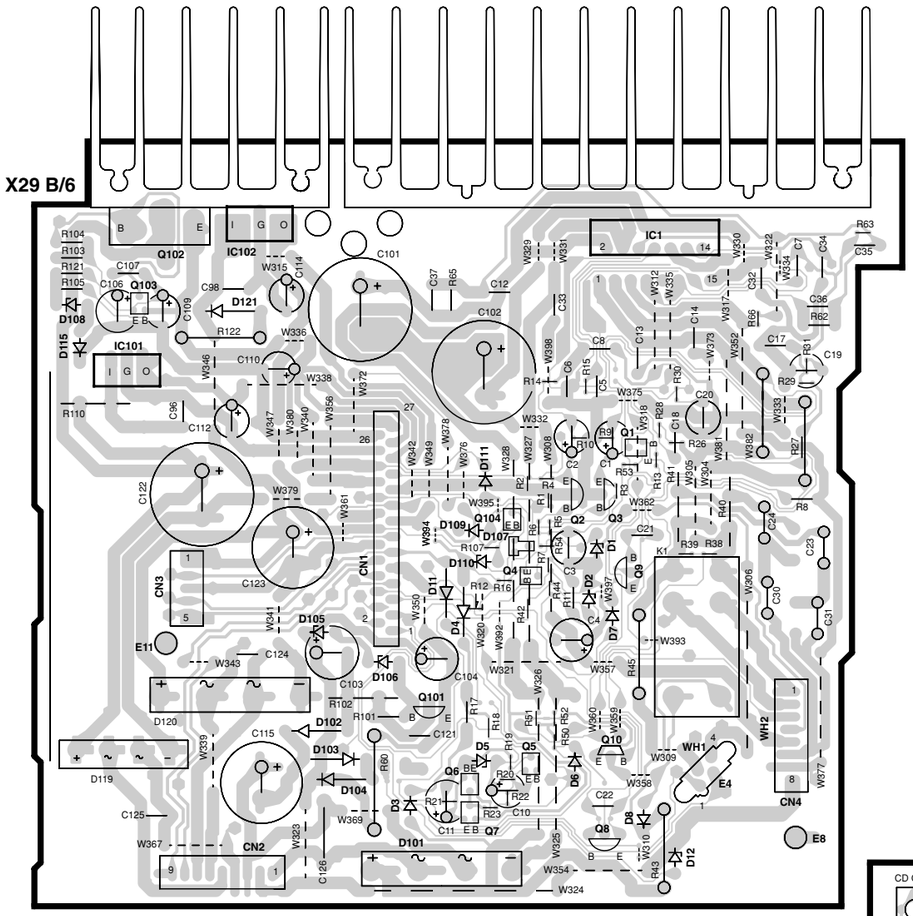
X29 C/6



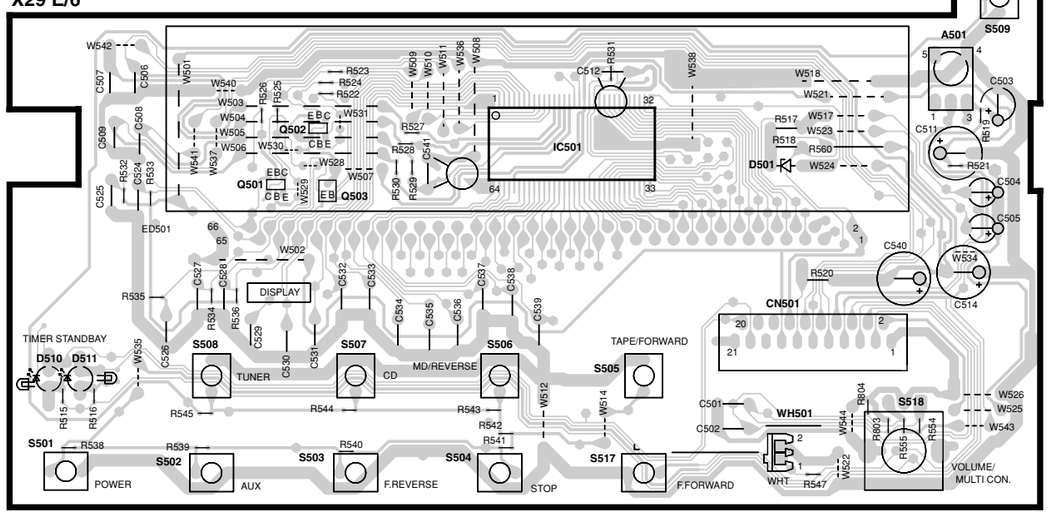
PHONES X29 D/6



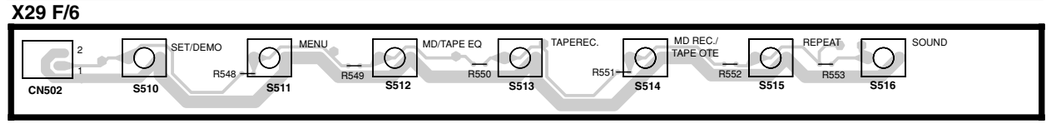
X29 B/6



X29 E/6



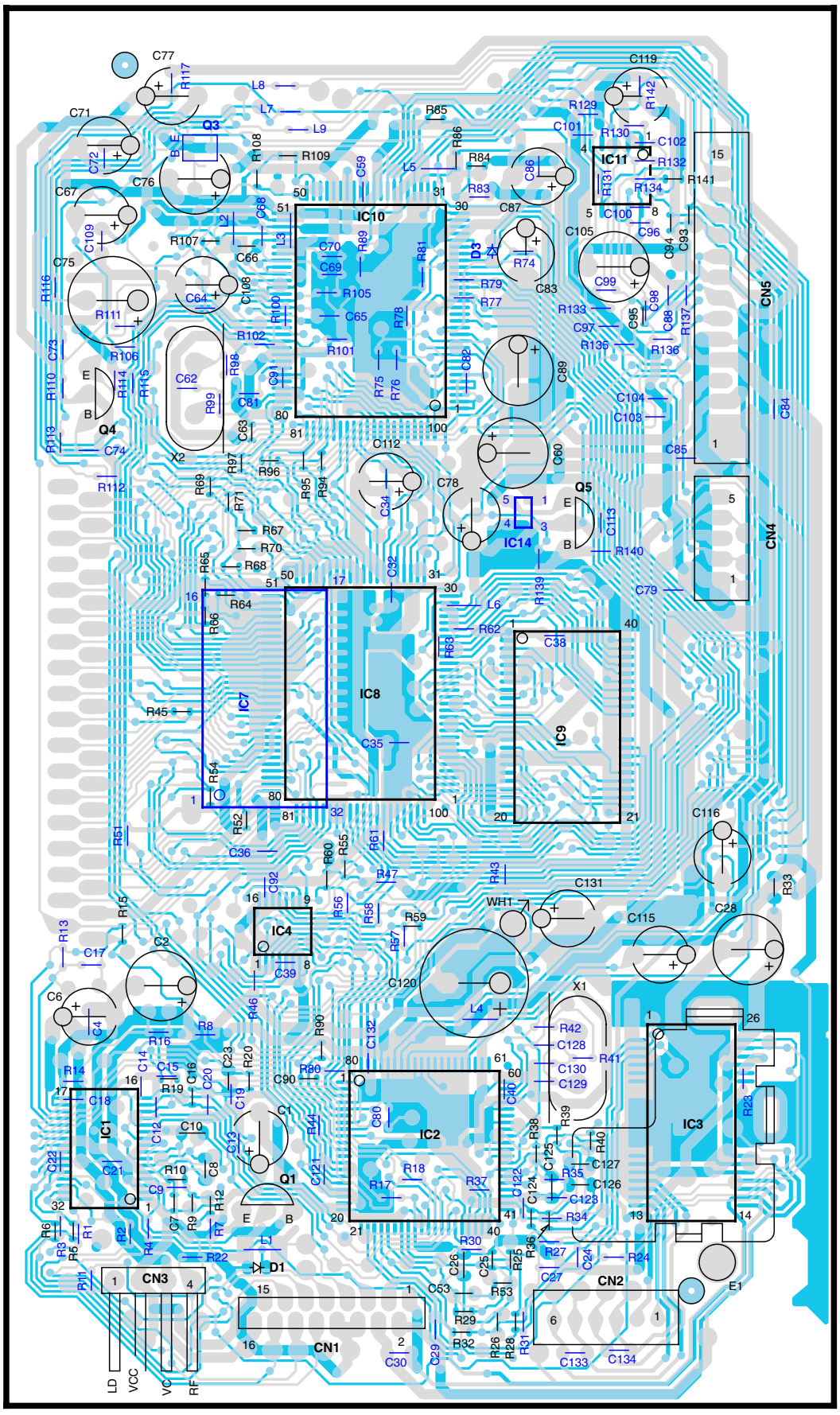
X29 F/6



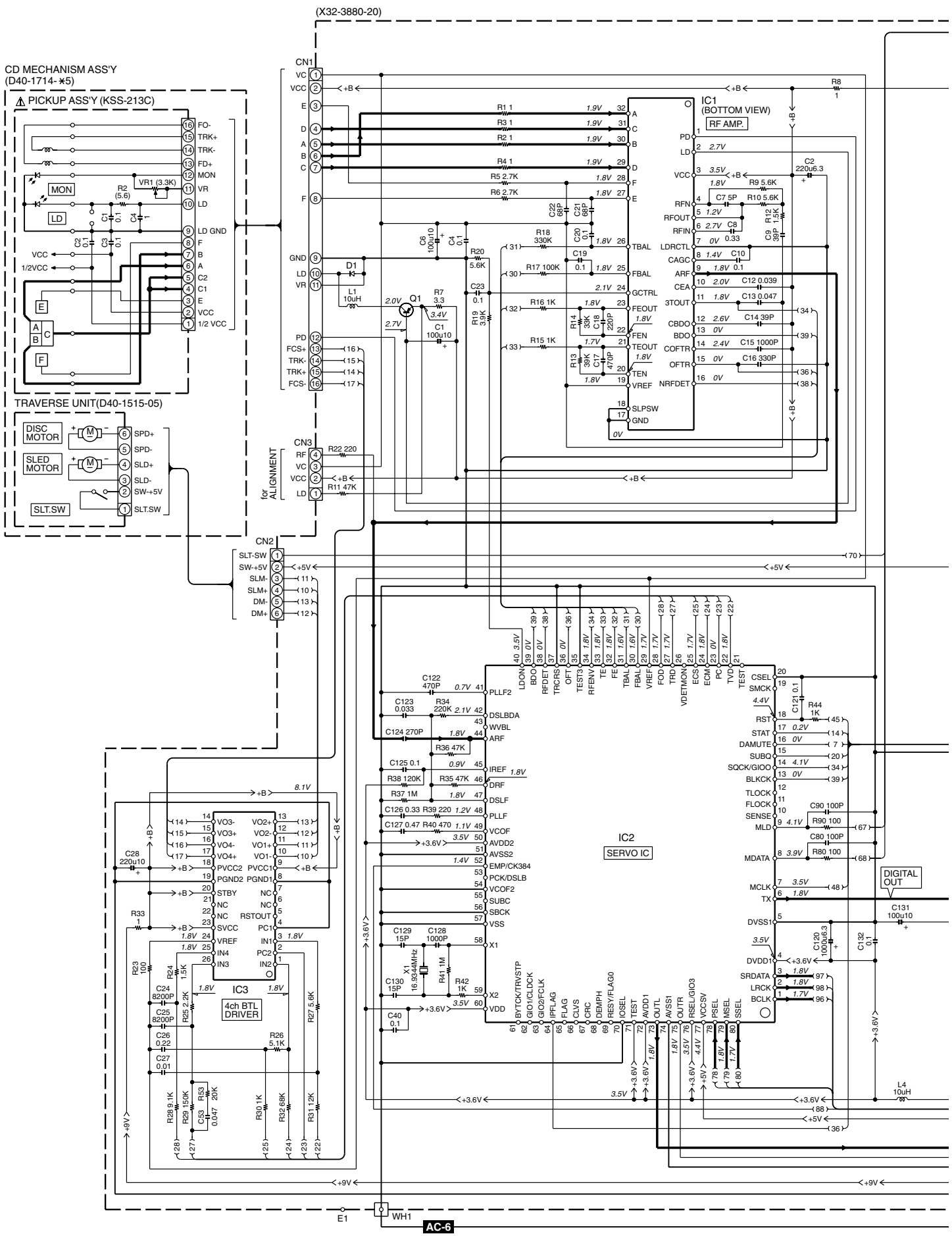
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

X32-3880-20 (J70-1515-02)



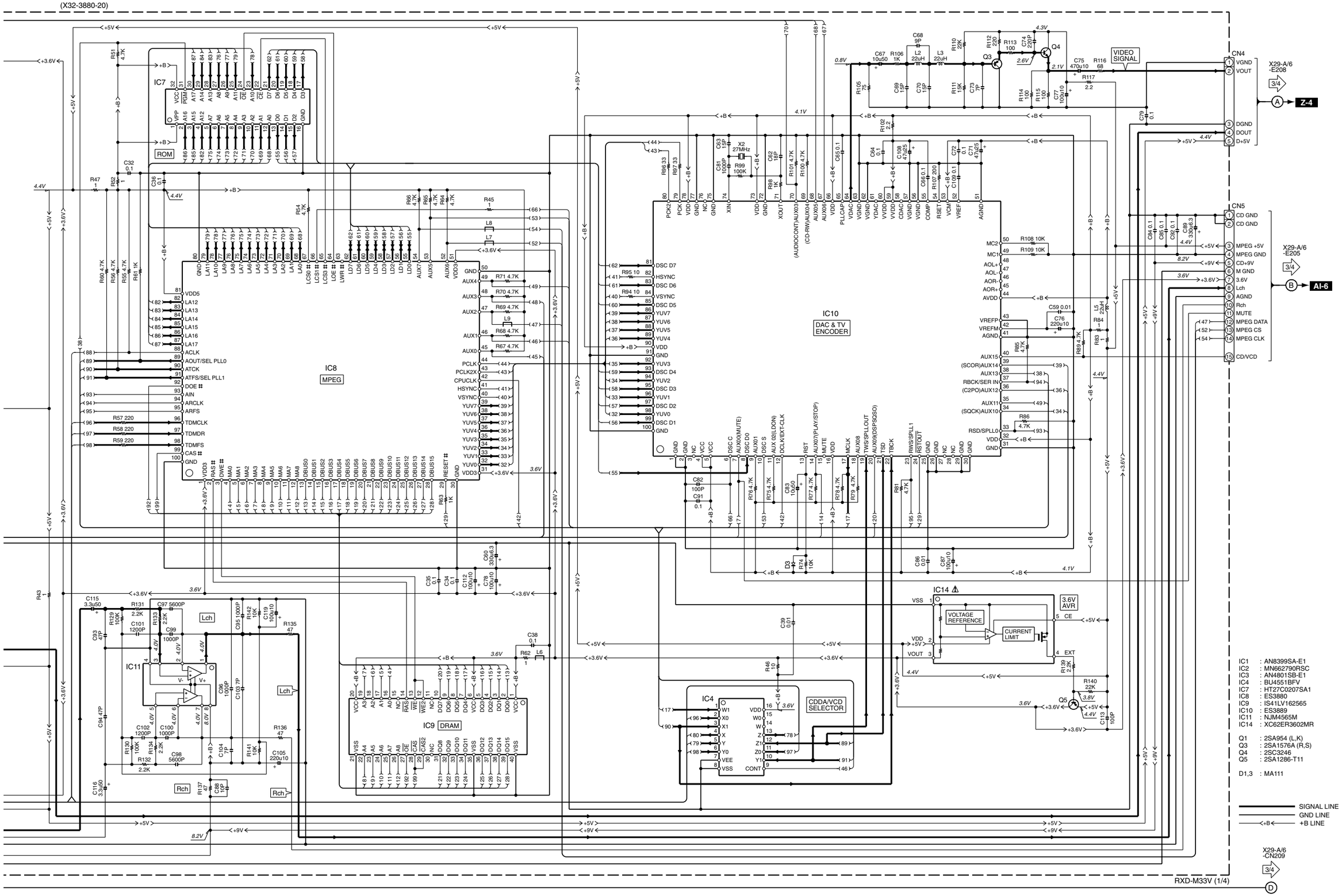
Refer to the schematic diagram for the value of resistors and capacitors.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

F G H I J K L M N O

(X32-3880-20)



The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.

Y39-4050-20

RXD-M33V

KENWOOD

P Q R S T U V W X Y

1 2 3 4 5 6 7

(X28-3130-21)

IC1 : HA12230NT

Q1,2 : 2SB1424(Q,R)
Q3 : DTC143TSA or UN4216
Q4 : KRC103M or UN4212 or DTC124ESA (V Type)
Q5-7,19 : DTC124EUA or UN5212
Q8 : KTC3205 or 2SC3940A(R,S)
Q9,10 : KTC3199(Y,GR) or 2SC2785(F,E)
Q15-18 : RK7002

D1,2 : 1SS133 or HSS104A
D4 : S5688B(TPB5)

CASSETTE MECHANISM ASSY (D40-1716-∗5)

RECORDING LINE
SIGNAL LINE
GND LINE
+B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

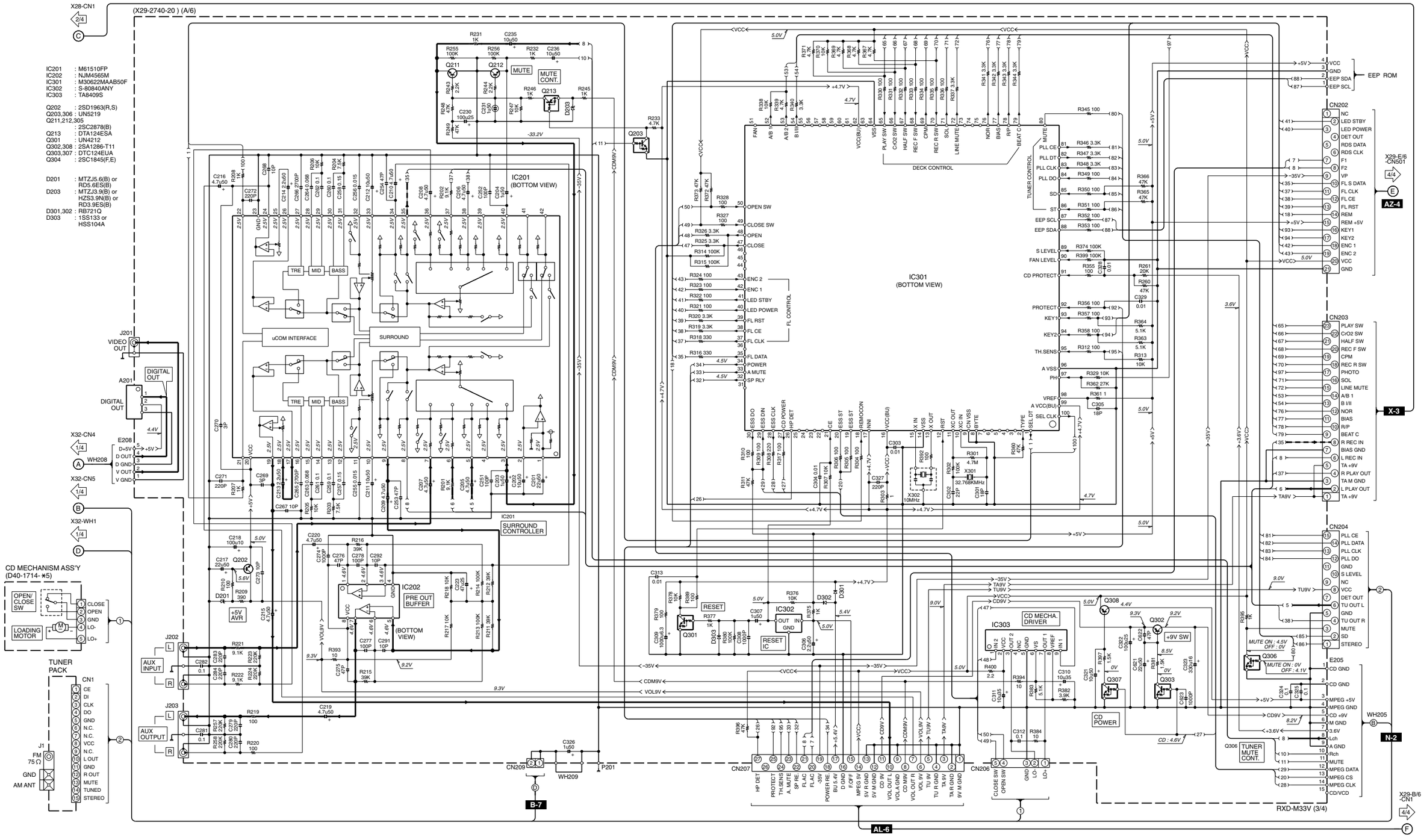
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

RXD-M33V (2/4)

Y39-4050-20

RXD-M33V

KENWOOD



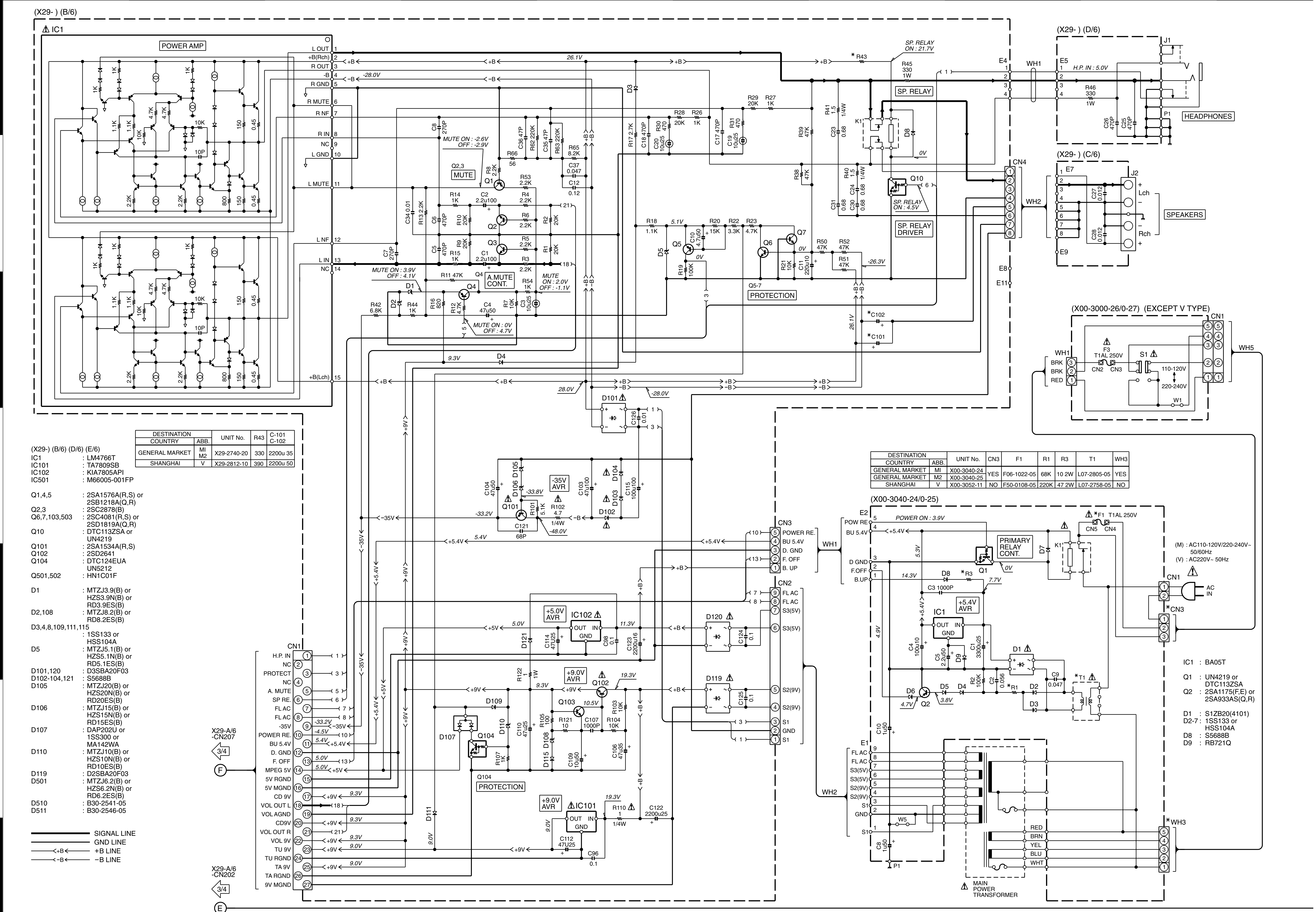
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

RXD-M33V

KENWOOD

AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS



(X29-) (B/6)
IC1
POWER AMP
L OUT
+B(Rch)
R OUT
-B
R GND
R MUTE
R NF
R IN
NC
L GND
L MUTE
L NF
L IN
NC
+B(Lch)
MUTE
A.MUTE CONT.
SP. RELAY ON : 21.7V
SP. RELAY
SP. RELAY DRIVER
SP. RELAY ON : 4.5V
PROTECTION
Q5-7
(X29-) (D/6)
HEADPHONES
H.P. IN : 5.0V
(X29-) (C/6)
SPEAKERS
Lch
Rch
(X00-3000-26/0-27) (EXCEPT V TYPE)
T1AL 250V
110-120V
220-240V
-35V AVR
+5.0V AVR
+9.0V AVR
IC102
IC101
Q104 PROTECTION
CN1
H.P. IN
NC
PROTECT
NC
A. MUTE
SP RE.
FL AC
FL AC
-35V
POWER RE.
BU 5.4V
D. GND
F. OFF
MPEG 5V
5V RGND
5V MGND
CD 9V
VOL OUT L
VOL AGND
CD9V
VOL OUT R
VOL 9V
TU 9V
TU RGND
TA 9V
TA RGND
9V MGND
X29-A/6 -CN207
X29-A/6 -CN202
CN3
POWER RE.
BU 5.4V
D. GND
F. OFF
B. UP
CN2
FL AC
S3(5V)
S2(9V)
S1
GND
(X00-3040-24/0-25)
POWER ON : 3.9V
PRIMARY RELAY CONT.
+5.4V AVR
AC IN
(M) : AC110-120V/220-240V~ 50/60Hz
(V) : AC220V~ 50Hz
MAIN POWER TRANSFORMER

DESTINATION		UNIT No.	R43	C-101 C-102
COUNTRY	ABB.			
GENERAL MARKET	MI M2	X29-2740-20	330	2200u 35
SHANGHAI	V	X29-2812-10	390	2200u 50

(X29-) (B/6) (D/6) (E/6)

IC1 : LM4766T
IC101 : TA7809SB
IC102 : KIA7805API
IC501 : M66005-001FP

Q1,4,5 : 2SA1576A(R,S) or 2SB1218A(Q,R)
Q2,3 : 2SC2878(B)
Q6,7,103,503 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q10 : DTC113ZSA or UN4219
Q101 : 2SA1534A(R,S)
Q102 : 2SD2641
Q104 : DTC124EUA UN5212
Q501,502 : HN1C01F

D1 : MTZJ3.9(B) or HZS3.9N(B) or RD3.9ES(B)
D2,108 : MTZJ8.2(B) or RD8.2ES(B)
D3,4,8,109,111,115 : 1SS133 or HSS104A
D5 : MTZJ5.1(B) or HZS5.1N(B) or RD5.1ES(B)
D101,120 : D3SBA20F03
D102-104,121 : S5688B
D105 : MTZJ20(B) or HZS20N(B) or RD20ES(B)
D106 : MTZJ15(B) or HZS15N(B) or RD15ES(B)
D107 : DAP202U or 1SS300 or MA142WA
D110 : MTZJ10(B) or HZS10N(B) or RD10ES(B)
D119 : D2SBA20F03
D501 : MTZJ6.2(B) or HZS6.2N(B) or RD6.2ES(B)
D510 : B30-2541-05
D511 : B30-2546-05

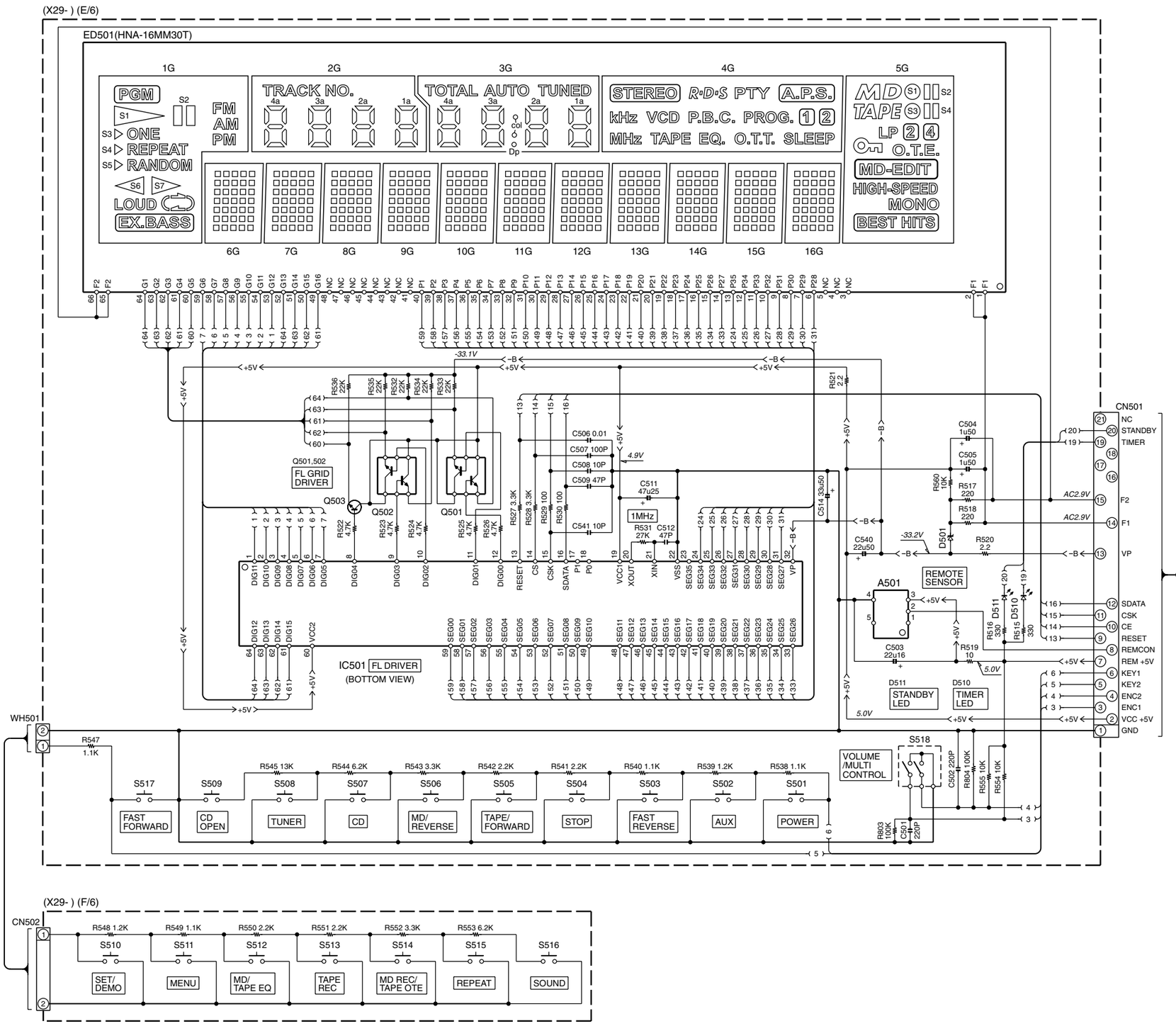
SIGNAL LINE
GND LINE
+B LINE
−B LINE

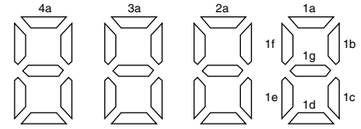
DESTINATION		UNIT No.	CN3	F1	R1	R3	T1	WH3
COUNTRY	ABB.							
GENERAL MARKET	MI	X00-3040-24	YES	F06-1022-05	68K	10 2W	L07-2805-05	YES
GENERAL MARKET	M2	X00-3040-25						
SHANGHAI	V	X00-3052-11	NO	F50-0108-05	220K	47 2W	L07-2758-05	NO

IC1 : BA05T

Q1 : UN4219 or DTC113ZSA
Q2 : 2SA1175(F,E) or 2SA933AS(Q,R)

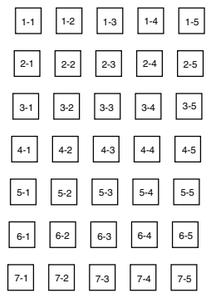
D1 : S1ZB20(4101)
D2-7 : 1SS133 or HSS104A
D8 : S5688B
D9 : RB721Q





(2G,3G)

	1G	2G	3G	4G	5G	6G-16G
P1	PGM	TRACK	TOTAL	STEREO	MD	1-1
P2	S1	NO.	AUTO	R·D·S	TAPE	1-2
P3	S2	—	TUNED	PTY	S1	1-3
P4	FM	1a	1a	A.P.S.	S2	1-4
P5	AM	1b	1b	kHz	S3	1-5
P6	PM	1c	1c	VCO	S4	2-1
P7	S3	1d	1d	P.B.C.	LP	2-2
P8	ONE	1e	1e	PROG.	2	2-3
P9	S4	1f	1f	1	4	2-4
P10	REPEAT	1g	1g	2		2-5
P11	S5	2a	2a	MHz	O.T.E.	3-1
P12	RANDOM	2b	2b	TAPE	MD.EDIT	3-2
P13	S6	2c	2c	EQ.		3-3
P14	S7	2d	2d	O.T.T.	HIGH.	3-4
P15	LOUD	2e	2e	SLEEP	SPEED	3-5
P16		2f	2f	—	MONO	4-1
P17		2g	2g	—	BEST HITS	4-2
P18		3a	3a	—	—	4-3
P19	EX.BASS	3b	3b	—	—	4-4
P20	—	3c	3c	—	—	4-5
P21	—	3d	3d	—	—	5-1
P22	—	3e	3e	—	—	5-2
P23	—	3f	3f	—	—	5-3
P24	—	3g	3g	—	—	5-4
P25	—	4a	4a	—	—	5-5
P26	—	4b	4b	—	—	6-1
P27	—	4c	4c	—	—	6-2
P28	—	4d	4d	—	—	6-3
P29	—	4e	4e	—	—	6-4
P30	—	4f	4f	—	—	6-5
P31	—	4g	4g	—	—	7-1
P32	—	—	col	—	—	7-2
P33	—	—	Dp	—	—	7-3
P34	—	—	—	—	—	7-4
P35	—	—	—	—	—	7-5



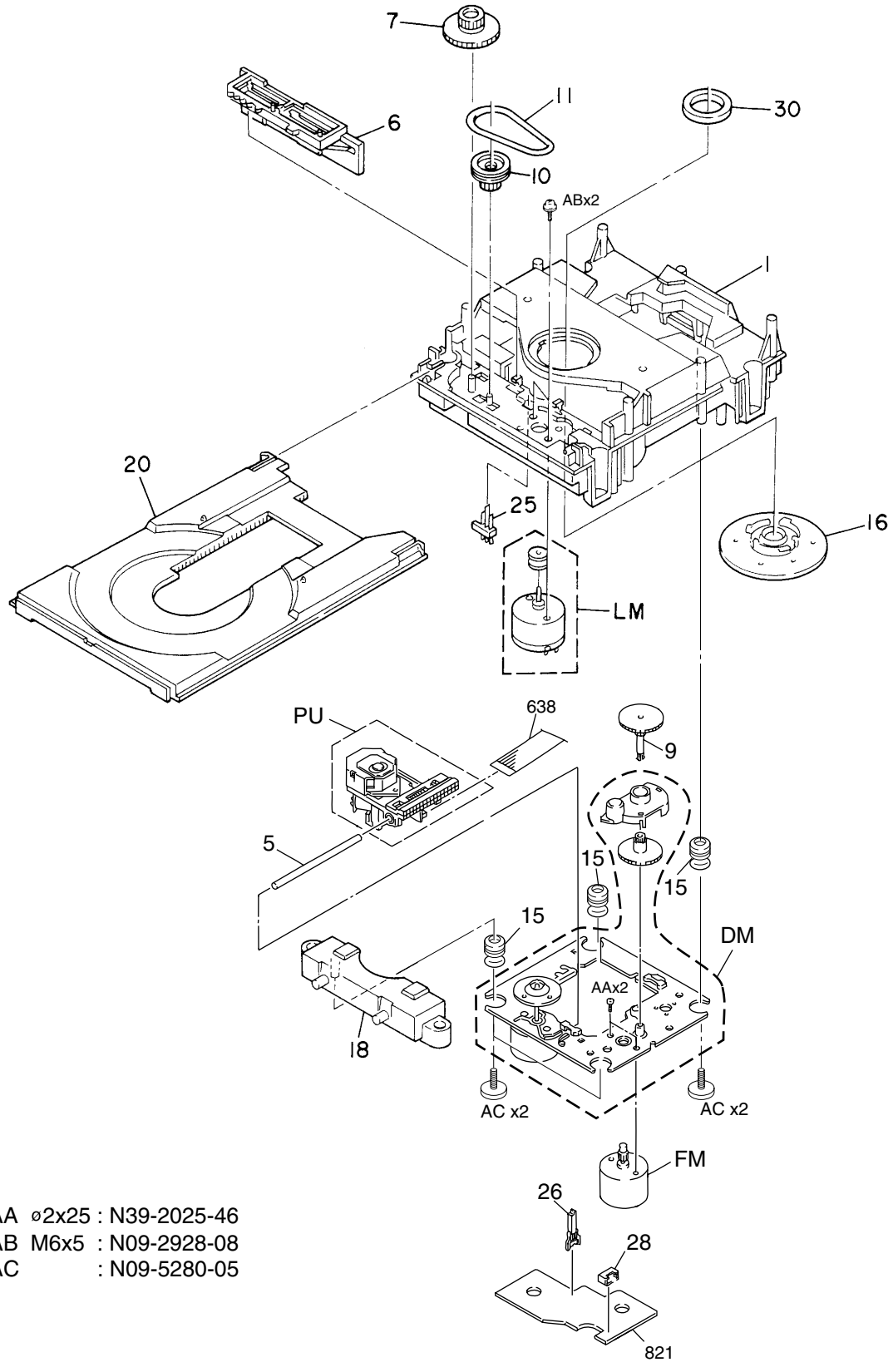
(6G-16G)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

RXD-M33V (4/4)

EXPLODED VIEW (CD MECHANISM)

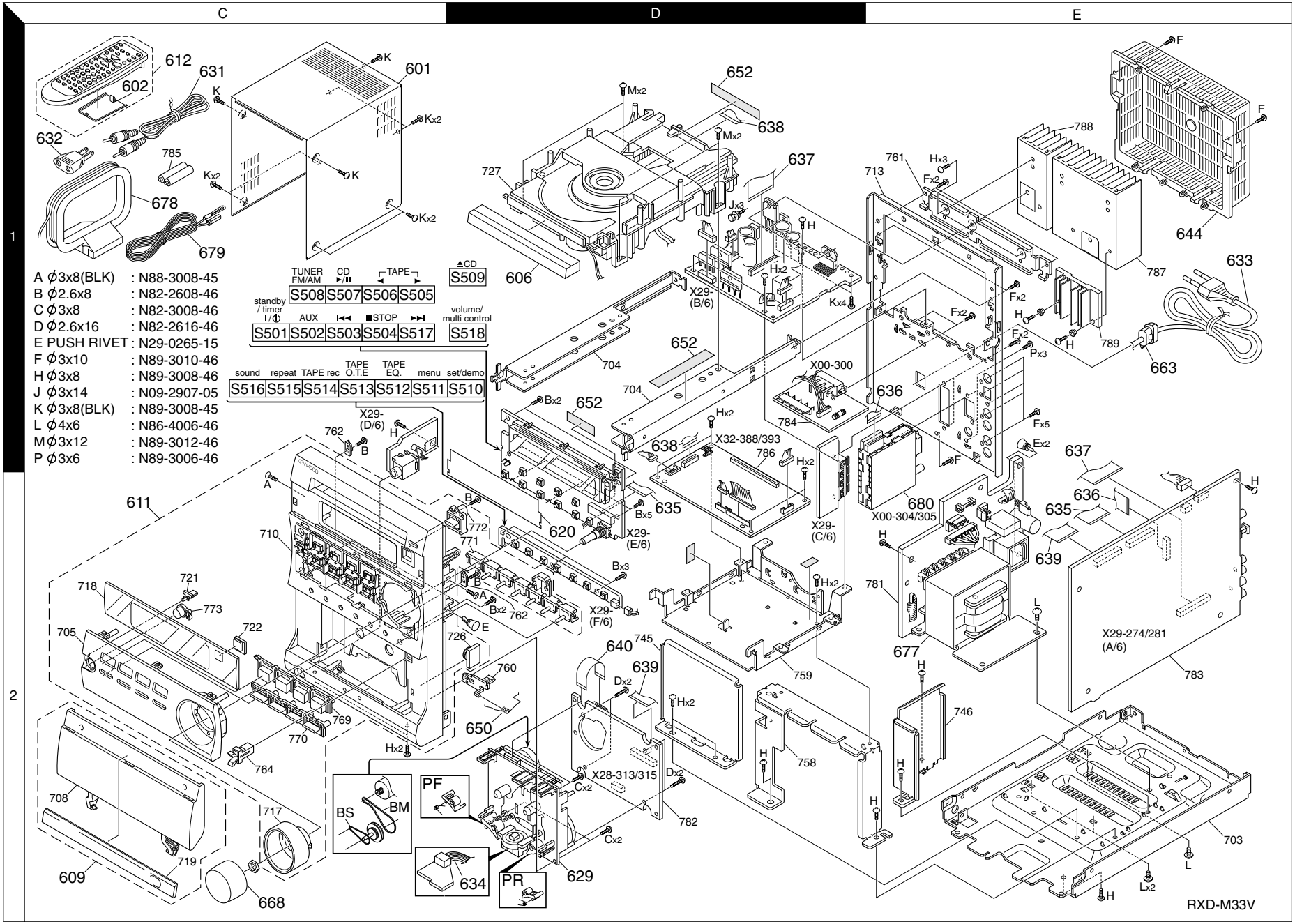


AA ø2x25 : N39-2025-46
AB M6x5 : N09-2928-08
AC : N09-5280-05

Parts with exploded numbers larger than 700 are not supplied.

RXD-M33V

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

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

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
RXD-M33V-S/L/N						
601	1C		A01-3799-01	METALLIC CABINET	MIM2V	S,L
601	1C		A01-3812-01	METALLIC CABINET	MIM2	N
602	1C		A09-1192-08	BATTERY COVER		
606	1D	✻	A29-1160-03	PANEL(CD)	MIM2V	S,L
606	1D	✻	A29-1161-03	PANEL(CD)	MIM2	N
609	2C	✻	A53-2257-08	CASSETTE HOLDER ASSY	MIM2V	S
609	2C	✻	A53-2259-08	CASSETTE HOLDER ASSY	MIM2	L
609	2C	✻	A53-2261-08	CASSETTE HOLDER ASSY	MIM2	N
611	2C	✻	A60-2159-08	PANEL ASSY	MIM2V	S
611	2C	✻	A60-2160-08	PANEL ASSY	MIM2	L
611	2C	✻	A60-2161-08	PANEL ASSY	MIM2	N
612	1C	✻	A70-1528-05	REMOTE CONTROL ASSY(RC-M0304V)		
620	2D		B11-1530-04	COLOR FILTER		
-			B46-0344-03	WARRANTY CARD	V	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MIM2	
-			B58-1546-03	CAUTION CARD	V	
-			B58-1643-04	CAUTION CARD (CASSETTE EJEC)		
-		✻	B60-5071-00	INSTRUCTION MANUAL (EN)	MIM2	
-		✻	B60-5073-00	INSTRUCTION MANUAL (AR)	M	
-		✻	B60-5074-00	INSTRUCTION MANUAL (TC)	M	
-		✻	B60-5096-00	INSTRUCTION MANUAL (SC)	V	
629	2D		D40-1716-05	CASSETTE MECHANISM ASSY		
BM	2C		D16-0741-08	BELT MAIN		
BS	2C		D16-0705-08	BELT SUB		
PF	2C		D14-0380-08	PINCHROLLER FWD		
PR	2D		D14-0381-08	PINCHROLLER RVS		
631	1C		E30-1427-05	AUDIO CORD		
⚠ 632	1C		E03-0115-05	AC PLUG ADAPTER	MM2	
⚠ 633	1E		E30-2824-15	AC POWER CORD	V	
⚠ 633	1E		E30-2942-05	AC POWER CORD	MIM2	
634	2D		E35-2716-05	WIRING HARNESS		
635	2D,2E		E35-2791-15	FLAT CABLE (21P)		
636	1E,2E	✻	E35-2922-05	FLAT CABLE (15P)		
637	1D,1E		E35-2793-05	FLAT CABLE (27P)		
638	1D	✻	E35-2926-15	FLAT CABLE (16P)		
639	2D,2E		E35-2825-05	FLAT CABLE (23P)		
640	2D		E35-2874-05	FLAT CABLE (12P)		
644	1E		F07-1728-02	COVER		
650	2D		G01-4246-04	TORSION COIL SPRING		
652	1D		G10-0536-04	NON-WOVEN FABRIC		
-		✻	H10-7774-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H10-7775-02	POLYSTYRENE FOAMED FIXTURE		
-		✻	H12-3541-14	PACKING FIXTURE		
-			H25-1642-04	PROTECTION BAG		
-			H25-1694-04	PROTECTION BAG	V	
-		✻	H25-1711-04	PROTECTION BAG	MIM2	
⚠ 663	1E		J42-0083-05	POWER CORD BUSHING	V	
⚠ 663	1E		J42-0349-05	POWER CORD BUSHING	MIM2	
-			J61-0307-05	WIRE BAND		

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
Y : PX(Far East,Hawaii) **T :** England **E :** Europe **G :** Germany **V :** China(Shanghai)
Y : AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components .

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

❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
668	2C	✻	K29-7907-04	KNOB		
⚠ 677	2E	✻	L07-2989-05	POWER TRANSFORMER	M2	
⚠ 677	2E	✻	L07-2990-05	POWER TRANSFORMER	I	
⚠ 677	2E	✻	L07-2990-05	POWER TRANSFORMER	M	
⚠ 677	2E	✻	L07-3119-05	POWER TRANSFORMER	V	
-		✻	L92-0536-05	FERRITE CORE(AC POWER CORD)		
678	1C		T90-0852-05	LOOP ANTENNA		
679	1C		T90-0877-05	LEAD WIRE ANTENNA		
680	2E		W02-2780-05	TUNER ASSY		
680	2E		W02-2783-05	TUNER ASSY		
POWER SUPPLY UNIT (X00-3000-2X)						
CN1			E40-8386-05	PIN ASSY	MIM2	
⚠ F3			F06-1022-05	FUSE (SEMKO) (250V T1AL)	MIM2	
CN2 ,3			J13-0075-05	FUSE CLIP	MIM2	
⚠ S1			S62.1.5	SLIDE SWITCH	MIM2	
POWER SUPPLY UNIT (X00-304/305X-XX)						
C1			CE04LW1E332M	ELECTRO 3300UF 25WV		
C2			CQ93FMG1H563J	MYLAR 0.056UF J		
C3			CK45FB1H102K	CERAMIC 1000PF K		
C4			CE04LW1A101M	ELECTRO 100UF 10WV		
C5			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C8			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C9			CQ93FMG1H473J	MYLAR 0.047UF J		
C10			CE04KW1H010M	ELECTRO 1.0UF 50WV		
CN1			E40-4245-05	PIN ASSY		
CN3			E40-4428-05	PIN ASSY	MIM2	
⚠ F1			F06-1022-05	FUSE (SEMKO) (250V T1AL)	MIM2	
⚠ F1			F50-0108-05	FUSE (5X20) (250V 1A)	V	
CN4 ,5			J13-0075-05	FUSE CLIP		
⚠ T1			L07-2758-05	POWER TRANSFORMER	V	
⚠ T1			L07-2805-05	POWER TRANSFORMER	MIM2	
R3			RS14KB3D100J	FL-PROOF RS 10 J 2W	MIM2	
R3			RS14KB3D470J	FL-PROOF RS 47 J 2W	V	
⚠ K1			S76-0102-05	MAGNETIC RELAY		
⚠ D1			S1ZB20(4101)	DIODE		
D2 -7			HSS104A	DIODE		
D2 -7			1SS133	DIODE		
D8			S5688B	DIODE		
D9			RB721Q	DIODE		
IC1			BA05T	ANALOGUE IC		
Q1			DTC113ZSA	DIGITAL TRANSISTOR		
Q1			UN4219	DIGITAL TRANSISTOR		
Q2			2SA1175(F,E)	TRANSISTOR		
Q2			2SA933AS(Q,R)	TRANSISTOR		
RECORD/PLAYBACK UNIT (X28-313/315X-XX)						
C1 ,2			CC73GCH1H681J	CHIP C 680PF J		
C3 ,4			CQ93FMG1H822J	MYLAR 8200PF J		

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C5 ,6			CQ93FMG1H393J	MYLAR	0.039UF	J		
C7 ,8			CE04LW1H100M	ELECTRO	10UF	50WV		
C9 ,10			CE04LW1HR22M	ELECTRO	0.22UF	50WV		
C11 ,12			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C13 ,14			CE04LW1H100M	ELECTRO	10UF	50WV		
C15 ,16			CC45FSL1H271J	CERAMIC	270PF	J		
C17 ,18			CC73GCH1H221J	CHIP C	220PF	J		
C19 ,20			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C21 ,22			CK73GB1H472K	CHIP C	4700PF	K		
C100			CE04PW1A101M	ELECTRO	100UF	10WV		
C101			CE04PW1H010M	ELECTRO	1UF	50WV		
C102			CE04PW1H4R7M	ELECTRO	4.7UF	50WV		
C103			CE04PW1E470M	ELECTRO	47UF	25WV		
C104			CE04PW1H4R7M	ELECTRO	4.7UF	50WV		
C105			CE04PW1H010M	ELECTRO	1UF	50WV		
C106			CE04PW1H100M	ELECTRO	10UF	50WV		
C107,108			CQ93FMG1H472J	MYLAR	4700PF	J		
C109			CQ93FMG1H183J	MYLAR	0.018UF	J		
C110			CE04PW1E470M	ELECTRO	47UF	25WV		
C111			CQ93HP2A822J	MYLAR	8200PF	J		
C114			CE04PW1A101M	ELECTRO	100UF	10WV		
C115			CQ93FMG1H153J	MYLAR	0.015UF	J		
CN1			E40-4910-05	FLAT CABLE CONNECTOR				
CN2			E40-4937-05	FLAT CABLE CONNECTOR				
CN3			E40-3250-05	PIN ASSY				
E1			J11-0808-05	WIRE CLAMPER				
L1 ,2			L40-1035-20	SMALL FIXED INDUCTOR(10MH,J)				
L3		✻	L32-1038-05	BIAS OSCILATING COIL				
L4			L40-1001-82	SMALL FIXED INDUCTOR(10UH)				
R1 ,2			RK73GB1J224J	CHIP R	220K	J 1/16W		
R3 ,4			RK73GB1J103J	CHIP R	10K	J 1/16W		
R5 ,6			RK73GB1J512J	CHIP R	5.1K	J 1/16W		
R7 ,8			RK73GB1J752J	CHIP R	7.5K	J 1/16W		
R9 ,10			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R11 ,12			RK73GB1J272J	CHIP R	2.7K	J 1/16W		
R13 ,14			RK73GB1J432J	CHIP R	4.3K	J 1/16W		
R15 ,16			RK73GB1J153J	CHIP R	15K	J 1/16W		
R17 ,18			RK73GB1J103J	CHIP R	10K	J 1/16W		
R19 ,20			RK73GB1J473J	CHIP R	47K	J 1/16W		
R21 -24			RK73GB1J105J	CHIP R	1.0M	J 1/16W		
R25 ,26			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
⚠ R100			RD14NB2E4R7J	RD	4.7	J 1/4W		
R101			RK73GB1J223J	CHIP R	22K	J 1/16W		
R102			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R103			RK73GB1J101J	CHIP R	100	J 1/16W		
R104,105			RK73GB1J103J	CHIP R	10K	J 1/16W		
R107			RK73GB1J103J	CHIP R	10K	J 1/16W		
R109			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R110			RK73GB1J394J	CHIP R	390K	J 1/16W		
R111,112			RK73GB1J103J	CHIP R	10K	J 1/16W		
⚠ R113			RD14NB2E100J	RD	10	J 1/4W		
R118,119			RK73GB1J473J	CHIP R	47K	J 1/16W		
R120			RK73GB1J222J	CHIP R	2.2K	J 1/16W		

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⚠ R123			RD14NB2E1R0J	RD	1	J 1/4W		
R125			RK73GB1J513J	CHIP R	51K	J 1/16W		
VR1 ,2			R12-6013-05	TRIMMING POT.(330K)				
D1 ,2			HSS104A	DIODE				
D1 ,2			1SS133	DIODE				
D4			S5688B(TPB5)	DIODE				
IC1			HA12230NT	ANALOGUE IC				
⚠ Q1 ,2			2SB1424(Q,R)	TRANSISTOR				
Q3			DTC143TSA	DIGITAL TRANSISTOR				
Q3			UN4216	DIGITAL TRANSISTOR				
Q4			DTC124ESA	DIGITAL TRANSISTOR			V	
Q4			KRC103M	DIGITAL TRANSISTOR				
Q4			UN4212	DIGITAL TRANSISTOR				
Q5 -7			DTC124EUA	DIGITAL TRANSISTOR				
Q5 -7			UN5212	DIGITAL TRANSISTOR				
⚠ Q8			KTC3205	TRANSISTOR				
⚠ Q8			2SC3940A(R,S)	TRANSISTOR				
Q9 ,10			KTC3199(Y,GR)	TRANSISTOR				
Q9 ,10			2SC2785(F,E)	TRANSISTOR				
Q15 -18		✻	RK7002	FET				
Q19			DTC124EUA	DIGITAL TRANSISTOR				
Q19			UN5212	DIGITAL TRANSISTOR				
CONTROL CIRCUIT UNIT (X29-274/281X-XX)								
D510			B30-2541-05	LED(GRN3(80))				
D511			B30-2546-05	LED(RED3(80))				
C1 ,2			CE04KW2A2R2M	ELECTRO	2.2UF	100WV		
C3			CE04HW1E100M	NP-ELEC	10UF	25WV		
C4			CE04LW1H470M	ELECTRO	47UF	50WV		
C5 ,6			CK45FB1H471K	CERAMIC	470PF	K		
C7 ,8			CC45FSL1H271J	CERAMIC	270PF	J		
C10			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C11			CE04LW1A221M	ELECTRO	220UF	10WV		
C12			CQ93FMG1H124J	MYLAR	0.12UF	J		
C17 ,18			CK45FB1H471K	CERAMIC	470PF	K		
C19 ,20			CE04HW1E100M	NP-ELEC	10UF	25WV		
C23 ,24			CF92FV1H684J	MF-C	0.68UF	J		
C23 ,24			C91-1583-05	MF-C	0.68UF	J		
C25 ,26			CK45FB1H471K	CERAMIC	470PF	K		
C27 ,28			CQ93FMG1H123J	MYLAR	0.012UF	J		
C30 ,31			CF92FV1H684J	MF-C	0.68UF	J		
C30 ,31			C91-1583-05	MF-C	0.68UF	J		
C34			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C35 ,36			CC45FSL1H470J	CERAMIC	47PF	J		
C37			CQ93FMG1H473J	MYLAR	0.047UF	J		
C96			CQ93FMG1H104J	MYLAR	0.10UF	J		
C98			CQ93FMG1H104J	MYLAR	0.10UF	J		
C101,102			CE04KW1V222M	ELECTRO	2200UF	35WV	M1M2	
C101,102			CE04KW1H222M	ELECTRO			V	
C103			CE04LW1A470M	ELECTRO	47UF	63WV		
C104			CE04LW1H470M	ELECTRO	47UF	50WV		
C106			CE04LW1V470M	ELECTRO	47UF	35WV		
C107			CK45FB1H102K	CERAMIC	1000PF	K		
C109			CE04LW1H100M	ELECTRO	10UF	50WV		
C110			CE04KW1E470M	ELECTRO	47UF	25WV		
C112			CE04LW1E470M	ELECTRO	47UF	25WV		

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C114			CE04KW1E470M	ELECTRO	47UF	25WV		
C115			CE04LW2A101M	ELECTRO	100UF	100WV		
C121			CC45FSL1H680J	CERAMIC	68PF	J		
C122			CE04LW1E222M	ELECTRO	2200UF	25WV		
C123			CE04KW1C222M	ELECTRO	2200UF	16WV		
C124,125			CQ93FMG1H104J	MYLAR	0.10UF	J		
C126			CK45FE2H103P	CERAMIC	0.010UF	P		
C201			CE04KW1H220M	ELECTRO	22UF	50WV		
C202			CE04LW1H100M	ELECTRO	10UF	50WV		
C203,204			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C205-210			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C211,212			CE04KW1H100M	ELECTRO	10UF	50WV		
C213,214			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C215,216			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C217			CE04KW1H220M	ELECTRO	22UF	50WV		
C218			CE04LW1A101M	ELECTRO	100UF	10WV		
C219,220			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C223			CE04LW1E470M	ELECTRO	47UF	25WV		
C230			CE04LW1E101M	ELECTRO	100UF	25WV		
C231			CE04HW1H010M	NP-ELEC	1.0UF	50WV		
C235,236			CE04LW1H100M	ELECTRO	10UF	50WV		
C251,252			CC45FCH1H101J	CERAMIC	100PF	J		
C253,254			CC45FCH1H470J	CERAMIC	47PF	J		
C255,256			CQ93FMG1H153J	MYLAR	0.015UF	J		
C257,258			CQ93FMG1H154J	MYLAR	0.15UF	J		
C257,258			C91-1575-05	MF-C	0.15UF	J		
C259-262			CQ93FMG1H104J	MYLAR	0.10UF	J		
C263,264			CQ93FMG1H683J	MYLAR	0.068UF	J		
C265,266			CQ93FMG1H272J	MYLAR	2700PF	J		
C267,268			CC45FCH1H100D	CERAMIC	10PF	D		
C269,270			CC45FSL1H030C	CERAMIC	3.0PF	C		
C271,272			CC45FCH1H221J	CERAMIC	220PF	J		
C273			CC45FCH1H100D	CERAMIC	10PF	D		
C274			CK45FB1H102K	CERAMIC	1000PF	K		
C275,276			CC45FCH1H470J	CERAMIC	47PF	J		
C277,278			CC45FCH1H101J	CERAMIC	100PF	J		
C279,280			CC45FCH1H221J	CERAMIC	220PF	J		
C281,282			CQ93FMG1H104J	MYLAR	0.10UF	J		
C283,284			CC45FCH1H221J	CERAMIC	220PF	J		
C291,292			CC45FCH1H100D	CERAMIC	10PF	D		
C301			CC45FCH1H180J	CERAMIC	18PF	J		
C302			CC45FCH1H220J	CERAMIC	22PF	J		
C303,304			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C305			CC45FCH1H180J	CERAMIC	18PF	J		
C306			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C307			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C308			CK45FB1H102K	CERAMIC	1000PF	K		
C309			CE04EW0J102M	ELECTRO	1000UF	6.3WV		
C310,311			CE04LW1V100M	ELECTRO	10UF	35WV		
C312			CQ93FMG1H104J	MYLAR	0.10UF	J		
C313			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C321			CE04LW1H100M	ELECTRO	10UF	50WV		
C322			CE04LW1E101M	ELECTRO	100UF	25WV		
C323			CE04LW1C331M	ELECTRO	330UF	16WV		
C324,325			CQ93FMG1H104J	MYLAR	0.10UF	J		

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C326			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C327			CC45FSL1H221J	CERAMIC	220PF	J		
C328,329			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C501,502			CC45FSL1H221J	CERAMIC	220PF	J		
C503			CE04RW1C220M	ELECTRO	22UF	16WV		
C504,505			CE04RW1H010M	ELECTRO	1.0UF	50WV		
C506			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C507			CC45FSL1H101J	CERAMIC	100PF	J		
C508			CC45FSL1H100D	CERAMIC	10PF	D		
C509			CC45FSL1H470J	CERAMIC	47PF	J		
C511			CE04RW1E470M	ELECTRO	47UF	25WV		
C512			CC45FCH1H470J	CERAMIC	47PF	J		
C514			CE04RW1H330M	ELECTRO	33UF	50WV		
C540			CE04RW1H220M	ELECTRO	22UF	50WV		
C541			CC45FSL1H100D	CERAMIC	10PF	D		
C621			CE04LW1H220M	ELECTRO	22UF	50WV		
C622			CC45FCH1H470J	CERAMIC	47PF	J		
C623			CK45FB1H102K	CERAMIC	1000PF	K		
CN1			E40-8487-05	FLAT CABLE CONNECTOR				
CN2			E40-3253-05	PIN ASSY				
CN3			E40-3249-05	PIN ASSY				
CN4			E40-3252-05	PIN ASSY				
CN202			E40-8484-05	FLAT CABLE CONNECTOR				
CN203			E40-8485-05	FLAT CABLE CONNECTOR				
CN204			E40-8481-05	FLAT CABLE CONNECTOR				
CN206			E40-8793-05	PIN ASSY				
CN207			E40-8487-05	FLAT CABLE CONNECTOR				
CN209			E40-3246-05	PIN ASSY				
CN501			E40-4728-05	FLAT CABLE CONNECTOR				
CN502			E40-3260-05	PIN ASSY				
J1			E11-0399-05	MINIATURE PHONE JACK(7P)				
J2			E70-0057-05	LOCK TERMINAL BOARD				
J201			E63-1010-05	PIN JACK				
J202,203			E63-1038-05	PIN JACK				
-			J19-6154-03	HOLDER				
E8 ,9			J11-0809-05	WIRE CLAMPER				
E11			J11-0809-05	WIRE CLAMPER				
E211			J11-0809-05	WIRE CLAMPER				
X301			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)				
X302			L78-0294-05	RESONATOR	(10.000M)			
R1 ,2			RK73GB1J203J	CHIP R	20K	J 1/16W		
R3 -6			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R7			RK73GB1J103J	CHIP R	10K	J 1/16W		
R9 ,10			RK73GB1J203J	CHIP R	20K	J 1/16W		
R12			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R13			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R14 ,15			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R16			RK73GB1J821J	CHIP R	820	J 1/16W		
R18			RK73EB2B112J	CHIP R	1.1K	J 1/8W		
R19			RK73GB1J104J	CHIP R	100K	J 1/16W		
R20			RK73GB1J153J	CHIP R	15K	J 1/16W		
R21			RK73GB1J103J	CHIP R	10K	J 1/16W		
R22			RK73GB1J332J	CHIP R	3.3K	J 1/16W		

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R23			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R26			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R28 ,29			RK73GB1J203J	CHIP R	20K	J 1/16W		
R30 ,31			RK73GB1J471J	CHIP R	470	J 1/16W		
R38 ,39			RK73GB1J473J	CHIP R	47K	J 1/16W		
R40 ,41			RD14NB2E1R5J	RD	1.5	J 1/4W		
R42			RK73EB2B682J	CHIP R	6.8K	J 1/8W		
R43			RS14KB3A331J	FL-PROOF RS	330	J 1W	MIM2	
R43			RS14KB3A391J	FL-PROOF RS	390	J 1W	V	
R44			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R45 ,46			RS14KB3A331J	FL-PROOF RS	330	J 1W		
R50 -52			RK73GB1J473J	CHIP R	47K	J 1/16W		
R53			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R54			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R63			RK73GB1J224J	CHIP R	220K	J 1/16W		
R66			RK73GB1J560J	CHIP R	56	J 1/16W		
⚠ R102			RD14NB2E4R7J	RD	4.7	J 1/4W		
R107			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
⚠ R110			RD14NB2E1R0J	RD	1	J 1/4W		
R122			RS14KB3A1R0J	FL-PROOF RS	1	J 1W		
R203,204			RK73GB1J752J	CHIP R	7.5K	J 1/16W		
R205,206			RK73GB1J103J	CHIP R	10K	J 1/16W		
R210			RK73GB1J101J	CHIP R	100	J 1/16W		
R211,212			RK73GB1J393J	CHIP R	39K	J 1/16W		
R213,214			RK73GB1J104J	CHIP R	100K	J 1/16W		
R215,216			RK73GB1J393J	CHIP R	39K	J 1/16W		
R217,218			RK73GB1J103J	CHIP R	10K	J 1/16W		
R221,222			RK73GB1J912J	CHIP R	9.1K	J 1/16W		
R223,224			RK73GB1J224J	CHIP R	220K	J 1/16W		
R231,232			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R233			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R243,244			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R246			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R247			RK73GB1J103J	CHIP R	10K	J 1/16W		
R248,249			RK73GB1J473J	CHIP R	47K	J 1/16W		
R255,256			RK73GB1J104J	CHIP R	100K	J 1/16W		
R257,258			RK73GB1J224J	CHIP R	220K	J 1/16W		
R301			RK73GB1J475J	CHIP R	4.7M	J 1/16W		
R302			RK73GB1J104J	CHIP R	100K	J 1/16W		
R304-306			RK73GB1J101J	CHIP R	100	J 1/16W		
R308			RK73GB1J221J	CHIP R	220	J 1/16W		
R309,310			RK73GB1J101J	CHIP R	100	J 1/16W		
R314,315			RK73GB1J104J	CHIP R	100K	J 1/16W		
R317			RK73GB1J101J	CHIP R	100	J 1/16W		
R318			RK73GB1J331J	CHIP R	330	J 1/16W		
R319			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R321,322			RK73GB1J101J	CHIP R	100	J 1/16W		
R325,326			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R327,328			RK73GB1J101J	CHIP R	100	J 1/16W		
R330-336			RK73GB1J101J	CHIP R	100	J 1/16W		
R337			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R345			RK73GB1J101J	CHIP R	100	J 1/16W		
R346-348			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R349-351			RK73GB1J101J	CHIP R	100	J 1/16W		
R355			RK73GB1J101J	CHIP R	100	J 1/16W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R360			RK73GB1J473J	CHIP R	47K	J 1/16W		
R367			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R381			RK73GB1J152J	CHIP R	1.5K	J 1/16W		
R382			RK73GB1J392J	CHIP R	3.9K	J 1/16W		
R383			RK73GB1J512J	CHIP R	5.1K	J 1/16W		
R384			RK73GB1J100J	CHIP R	10	J 1/16W		
R392			RK73GB1J101J	CHIP R	100	J 1/16W		
R395			RK73GB1J102J	CHIP R	1.0K	J 1/16W		
R396			RK73GB1J473J	CHIP R	47K	J 1/16W		
R397			RK73GB1J152J	CHIP R	1.5K	J 1/16W		
R399			RK73GB1J104J	CHIP R	100K	J 1/16W		
R515,516			RK73GB1J331J	CHIP R	330	J 1/16W		
R519			RK73GB1J100J	CHIP R	10	J 1/16W		
R521			RK73GB1J2R2J	CHIP R	2.2	J 1/16W		
R522-526			RK73GB1J472J	CHIP R	4.7K	J 1/16W		
R527,528			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R529,530			RK73GB1J101J	CHIP R	100	J 1/16W		
R531			RK73GB1J273J	CHIP R	27K	J 1/16W		
R532-536			RK73GB1J223J	CHIP R	22K	J 1/16W		
R538			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R539			RK73GB1J122J	CHIP R	1.2K	J 1/16W		
R540			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R541,542			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R543			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R544			RK73GB1J622J	CHIP R	6.2K	J 1/16W		
R545			RK73GB1J133J	CHIP R	13K	J 1/16W		
R547			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R548			RK73GB1J122J	CHIP R	1.2K	J 1/16W		
R549			RK73GB1J112J	CHIP R	1.1K	J 1/16W		
R550,551			RK73GB1J222J	CHIP R	2.2K	J 1/16W		
R552			RK73GB1J332J	CHIP R	3.3K	J 1/16W		
R553			RK73GB1J622J	CHIP R	6.2K	J 1/16W		
R554,555			RK73GB1J103J	CHIP R	10K	J 1/16W		
R803,804			RK73GB1J104J	CHIP R	100K	J 1/16W		
W307			R92-1252-05	CHIP R	0 OHM			
W310			R92-1252-05	CHIP R	0 OHM			
W334			R92-1252-05	CHIP R	0 OHM			
W373			R92-0679-05	CHIP R	0 OHM			
W392			R92-0679-05	CHIP R	0 OHM			
W393			R92-0670-05	CHIP R	0 OHM			
W394,395			R92-1252-05	CHIP R	0 OHM			
W397			R92-1252-05	CHIP R	0 OHM			
W528-531			R92-0670-05	CHIP R	0 OHM			
W534			R92-0679-05	CHIP R	0 OHM			
K1			S76-0098-05	MAGNETIC RELAY				
S501-517			S70-0031-05	TACT SWITCH				
S518			T99-0634-05	ROTARY ENCODER				
⚠ D1			HZS3.9N(B)	ZENER DIODE				
⚠ D1			MTZJ3.9(B)	ZENER DIODE				
⚠ D1			RD3.9ES(B)	ZENER DIODE				
D2			MTZJ8.2(B)	ZENER DIODE				
D2			RD8.2ES(B)	ZENER DIODE				
D3 ,4			HSS104A	DIODE				

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D3 ,4			1SS133	DIODE		
D5			HZS5.1N(B)	ZENER DIODE		
D5			MTZJ5.1(B)	ZENER DIODE		
D5			RD5.1ES(B)	ZENER DIODE		
D8			HSS104A	DIODE		
D8			1SS133	DIODE		
⚠ D101			D3SBA20F03	DIODE		
⚠ D102-104			S5688B	DIODE		
D105			HZS20N(B)	ZENER DIODE		
D105			MTZJ20(B)	ZENER DIODE		
D105			RD20ES(B)	ZENER DIODE		
D106			HZS15N(B)	ZENER DIODE		
D106			MTZJ15(B)	ZENER DIODE		
D106			RD15ES(B)	ZENER DIODE		
D107			DAP202U	DIODE		
D107			MA142WA	DIODE		
D107			1SS300	DIODE		
D108			MTZJ8.2(B)	ZENER DIODE		
D108			RD8.2ES(B)	ZENER DIODE		
D109			HSS104A	DIODE		
D109			1SS133	DIODE		
D110			HZS10N(B)	ZENER DIODE		
D110			MTZJ10(B)	ZENER DIODE		
D110			RD10ES(B)	ZENER DIODE		
D111			HSS104A	DIODE		
D111			1SS133	DIODE		
D115			HSS104A	DIODE		
D115			1SS133	DIODE		
⚠ D119			D2SBA20F03	DIODE		
⚠ D120			D3SBA20F03	DIODE		
D121			S5688B	DIODE		
D201			MTZJ5.6(B)	ZENER DIODE		
D201			RD5.6ES(B)	ZENER DIODE		
D203			HZS3.9N(B)	ZENER DIODE		
D203			MTZJ3.9(B)	ZENER DIODE		
D203			RD3.9ES(B)	ZENER DIODE		
D301,302			RB721Q	DIODE		
D303			HSS104A	DIODE		
D303			1SS133	DIODE		
D501			HZS6.2N(B)	ZENER DIODE		
D501			MTZJ6.2(B)	ZENER DIODE		
D501			RD6.2ES(B)	ZENER DIODE		
ED501			HNA-16MM30T	FLUORESCENT INDICATOR TUBE		
⚠ IC1			LM4766T	ANALOGUE IC		
⚠ IC101			TA7809SB	ANALOGUE IC		
⚠ IC102			KIA7805API	ANALOGUE IC		
IC201			M61510FP	ANALOGUE IC		
IC202			NJM4565M	ANALOGUE IC		
IC301		✻	M30622MAAB50F	MI-COM IC		
IC302			S-80840ANY	ANALOGUE IC		
IC303			TA8409S	MOS-IC		
IC501			M66005-001FP	MOS-IC		
Q1			2SA1576A(R,S)	TRANSISTOR		
Q1			2SB1218A(Q,R)	TRANSISTOR		
Q2 ,3			2SC2878(B)	TRANSISTOR		

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Q4 ,5			2SA1576A(R,S)	TRANSISTOR		
Q4 ,5			2SB1218A(Q,R)	TRANSISTOR		
Q6 ,7			2SC4081(R,S)	TRANSISTOR		
Q6 ,7			2SD1819A(Q,R)	TRANSISTOR		
Q10			DTC113ZSA	DIGITAL TRANSISTOR		
Q10			UN4219	DIGITAL TRANSISTOR		
⚠ Q101			2SA1534A(R,S)	TRANSISTOR		
⚠ Q102			2SD2641	TRANSISTOR		
Q103			2SC4081(R,S)	TRANSISTOR		
Q103			2SD1819A(Q,R)	TRANSISTOR		
Q104			DTC124EVA	DIGITAL TRANSISTOR		
Q104			UN5212	DIGITAL TRANSISTOR		
Q202			2SD1963(R,S)	TRANSISTOR		
Q203			DTC113ZUA	DIGITAL TRANSISTOR	MIM2	
Q203			UN5219	DIGITAL TRANSISTOR		
Q211,212			2SC2878(B)	TRANSISTOR		
Q213			DTA124ESA	DIGITAL TRANSISTOR		
Q301			UN4212	DIGITAL TRANSISTOR		
Q302			2SA1286-T11	TRANSISTOR		
Q303			DTC124EUA	DIGITAL TRANSISTOR		
Q306			DTC113ZUA	DIGITAL TRANSISTOR	MIM2	
Q306			UN5219	DIGITAL TRANSISTOR		
Q307			DTC124EUA	DIGITAL TRANSISTOR		
Q308			2SA1286-T11	TRANSISTOR		
Q501,502			HN1C01F	DUAL TRANSISTOR		
Q503			2SC4081(R,S)	TRANSISTOR		
Q503			2SD1819A(Q,R)	TRANSISTOR		
A201			W02-1114-15	OSCILLATING MODULE		
A501			W02-2759-05	ELECTRIC CIRCUIT MODULE		

CD PLAYER UNIT (X32-388/393X-XX)

C1			CE04KW1A101M	ELECTRO	100UF	10WV		
C2			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C4			CK73FB1E104K	CHIP C	0.10UF	K		
C6			CE04KW1A101M	ELECTRO	100UF	10WV		
C7			CC73GCH1H050C	CHIP C	5.0PF	C		
C8			CK73FB1C334K	CHIP C	0.33UF	K		
C9			CC73GCH1H390J	CHIP C	39PF	J		
C10			CK73FB1E104K	CHIP C	0.10UF	K		
C12			CK73GB1C393K	CHIP C	0.039UF	K		
C13			CK73GB1E473K	CHIP C	0.047UF	K		
C14			CC73GCH1H390J	CHIP C	39PF	J		
C15			CK73GB1H102K	CHIP C	1000PF	K		
C16			CC73GCH1H331J	CHIP C	330PF	J		
C17			CK73GB1H471K	CHIP C	470PF	K		
C18			CC73GCH1H221J	CHIP C	220PF	J		
C19 ,20			CK73FB1E104K	CHIP C	0.10UF	K		
C21 ,22			CC73GCH1H680J	CHIP C	68PF	J		
C23			CK73FB1E104K	CHIP C	0.10UF	K		
C24 ,25			CK73GB1H822K	CHIP C	8200PF	K		
C26			CK73FF1E224Z	CHIP C	0.22UF	Z		
C27			CK73GB1H103K	CHIP C	0.010UF	K		
C28			CE04KW1A221M	ELECTRO	220UF	10WV		
C32			CK73FB1E104K	CHIP C	0.10UF	K		
C34 -36			CK73FB1E104K	CHIP C	0.10UF	K		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C38			CK73FB1E104K	CHIP C	0.10UF	K		
C39			CK73GB1H103K	CHIP C	0.010UF	K		
C40			CK73FB1E104K	CHIP C	0.10UF	K		
C53			CK73GB1E473K	CHIP C	0.047UF	K		
C59			CK73GB1H103K	CHIP C	0.010UF	K		
C60			CE04KW0J331M	ELECTRO	330UF	6.3WV		
C62			CC73GCH1H180J	CHIP C	18PF	J		
C63			CC73GCH1H150J	CHIP C	15PF	J		
C64 -66			CK73FB1E104K	CHIP C	0.10UF	K		
C67			CE04KW1H100M	ELECTRO	10UF	50WV		
C68			CC73GCH1H090D	CHIP C	9.0PF	D		
C69 ,70			CC73GCH1H150J	CHIP C	15PF	J		
C71			CE04KW1E470M	ELECTRO	47UF	25WV		
C72			CK73FB1E104K	CHIP C	0.10UF	K		
C73			CC73GCH1H070D	CHIP C	7.0PF	D		
C74			CC73GCH1H221J	CHIP C	220PF	J		
C75			CE04KW1A471M	ELECTRO	470UF	10WV		
C76			CE04KW1A221M	ELECTRO	220UF	10WV		
C77 ,78			CE04KW1A101M	ELECTRO	100UF	10WV		
C79			CK73FB1E104K	CHIP C	0.10UF	K		
C80			CC73GCH1H101J	CHIP C	100PF	J		
C81			CK73GB1H102K	CHIP C	1000PF	K		
C82			CC73GCH1H101J	CHIP C	100PF	J		
C83			CE04KW1H100M	ELECTRO	10UF	50WV		
C84 ,85			CK73FB1E104K	CHIP C	0.10UF	K		
C86			CK73GB1H103K	CHIP C	0.010UF	K		
C87			CE04KW1A101M	ELECTRO	100UF	10WV		
C88			CC73GCH1H100D	CHIP C	10PF	D		
C89			CE04KW0J331M	ELECTRO	330UF	6.3WV		
C90			CC73GCH1H101J	CHIP C	100PF	J		
C91 ,92			CK73FB1E104K	CHIP C	0.10UF	K		
C93 ,94			CC73GCH1H470J	CHIP C	47PF	J		
C95 ,96			CK73GB1H102K	CHIP C	1000PF	K		
C97 ,98			CK73GB1H562K	CHIP C	5600PF	K		
C99 ,100			CK73GB1H102K	CHIP C	1000PF	K		
C101,102			CK73GB1H122K	CHIP C	1200PF	K		
C103,104			CC73GCH1H070D	CHIP C	7.0PF	D		
C105			CE04KW1A221M	ELECTRO	220UF	10WV		
C108			CE04KW1E470M	ELECTRO	47UF	25WV		
C109			CK73FB1E104K	CHIP C	0.10UF	K		
C112			CE04KW1A101M	ELECTRO	100UF	10WV		
C113			CC73GCH1H101J	CHIP C	100PF	J		
C115,116			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C119			CE04KW1A101M	ELECTRO	100UF	10WV		
C120			CE04DW0J102M	ELECTRO	1000UF	6.3WV		
C121			CK73FB1E104K	CHIP C	0.10UF	K		
C122			CK73GB1H471K	CHIP C	470PF	K		
C123			CK73GB1E333K	CHIP C	0.033UF	K		
C124			CC73GCH1H271J	CHIP C	270PF	J		
C125			CK73FB1E104K	CHIP C	0.10UF	K		
C126			CK73FB1C334K	CHIP C	0.33UF	K		
C127			CK73FF1E474Z	CHIP C	0.47UF	Z		
C128			CK73GB1H102K	CHIP C	1000PF	K		
C129,130			CC73GCH1H150J	CHIP C	15PF	J		
C131			CE04KW1A101M	ELECTRO	100UF	10WV		

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C132			CK73FB1E104K	CHIP C	0.10UF	K			
CN1		✻	E40-8328-15	FLAT CABLE CONNECTOR					
CN2			E40-3250-05	PIN ASSY					
CN3			E40-4976-05	PIN ASSY					
CN4			E40-3249-05	PIN ASSY					
CN5			E40-3259-05	PIN ASSY					
E1			J11-0808-05	WIRE CLAMPER					
L1			L40-1001-31	SMALL FIXED INDUCTOR(10UH,K)					
L2 ,3			L40-2201-31	SMALL FIXED INDUCTOR(22UH)					
L4			L40-1001-31	SMALL FIXED INDUCTOR(10UH,K)					
L5			L40-2201-31	SMALL FIXED INDUCTOR(22UH)					
L6			L92-0089-05	CHIP FERRITE					
L7 -9			L92-0515-05	FERRITE CORE					
X1		✻	L77-2353-05	CRYSTAL RESONATOR(16.9344MHZ,1)					
X2			L77-2273-05	CRYSTAL RESONATOR(27MHZ)					
R1 -4			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R5 ,6			RK73GB1J272J	CHIP R	2.7K	J	1/16W		
R7			RK73GB1J3R3J	CHIP R	3.3	J	1/16W		
R8			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R9 ,10			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R11			RK73GB1J473J	CHIP R	47K	J	1/16W		
R12			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R13			RK73GB1J393J	CHIP R	39K	J	1/16W		
R14			RK73GB1J333J	CHIP R	33K	J	1/16W		
R15 ,16			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R17			RK73GB1J104J	CHIP R	100K	J	1/16W		
R18			RK73GB1J334J	CHIP R	330K	J	1/16W		
R19			RK73GB1J392J	CHIP R	3.9K	J	1/16W		
R20			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R22			RK73GB1J221J	CHIP R	220	J	1/16W		
R23			RK73GB1J101J	CHIP R	100	J	1/16W		
R24			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R25			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R26			RK73GB1J512J	CHIP R	5.1K	J	1/16W		
R27			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R28			RK73GB1J912J	CHIP R	9.1K	J	1/16W		
R29			RK73GB1J154J	CHIP R	150K	J	1/16W		
R30			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R31			RK73GB1J123J	CHIP R	12K	J	1/16W		
R32			RK73GB1J683J	CHIP R	68K	J	1/16W		
R33			RK73FB2A1R0J	CHIP R	1	J	1/10W		
R34			RK73GB1J224J	CHIP R	220K	J	1/16W		
R35 ,36			RK73GB1J473J	CHIP R	47K	J	1/16W		
R37			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R38			RK73GB1J124J	CHIP R	120K	J	1/16W		
R39			RK73GB1J221J	CHIP R	220	J	1/16W		
R40			RK73GB1J471J	CHIP R	470	J	1/16W		
R41			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R42			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R43			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R44			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R45			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R46			RK73GB1J100J	CHIP R	10	J	1/16W		

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

⑬

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R47			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R51			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R52			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R53			RK73GB1J203J	CHIP R	20K	J	1/16W		
R54 -56			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R57 -59			RK73GB1J221J	CHIP R	220	J	1/16W		
R60			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R61			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R62			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R63			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R64 -71			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R74			RK73GB1J103J	CHIP R	10K	J	1/16W		
R75 -79			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R80			RK73GB1J101J	CHIP R	100	J	1/16W		
R81			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R83 ,84			RK73GB1J1R0J	CHIP R	1	J	1/16W		
R85 ,86			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R89			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R90			RK73GB1J101J	CHIP R	100	J	1/16W		
R94 ,95			RK73GB1J100J	CHIP R	10	J	1/16W		
R96 ,97			RK73GB1J330J	CHIP R	33	J	1/16W		
R98			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R99			RK73GB1J104J	CHIP R	100K	J	1/16W		
R100,101			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R102			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R105			RK73GB1J750J	CHIP R	75	J	1/16W		
R106			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R107			RK73GB1J201J	CHIP R	200	J	1/16W		
R108,109			RK73GB1J103J	CHIP R	10K	J	1/16W		
R110			RK73GB1J223J	CHIP R	22K	J	1/16W		
R111			RK73GB1J153J	CHIP R	15K	J	1/16W		
R112			RK73GB1J221J	CHIP R	220	J	1/16W		
R113-115			RK73GB1J101J	CHIP R	100	J	1/16W		
R116			RK73GB1J680J	CHIP R	68	J	1/16W		
R117			RK73FB2A2R2J	CHIP R	2.2	J	1/10W		
R129,130			RK73GB1J104J	CHIP R	100K	J	1/16W		
R131-134			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R135-137			RK73GB1J470J	CHIP R	47	J	1/16W		
R139			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R140			RK73GB1J223J	CHIP R	22K	J	1/16W		
R141,142			RK73GB1J103J	CHIP R	10K	J	1/16W		
D1			MA111	DIODE					
D3			MA111	DIODE					
IC1			AN8399SA-E1	ANALOGUE IC					
IC2		✻	MN662790RSC	MOS-IC					
IC3			AN4801SB-E1	ANALOGUE IC					
IC4			BU4551BFV	ANALOGUE IC					
IC7		✻	HT27C0207SA1	MOS-IC					
IC8		✻	ES3880	MOS-IC					
IC9		✻	IS41LV162565	MOS-IC					
IC10		✻	ES3889	MOS-IC					
IC11			NJM4565M	ANALOGUE IC					
⚠ IC14			XC62ER3602MR	ANALOGUE IC					
Q1			2SA954(L,K)	TRANSISTOR					

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⑭

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Q3			2SA1576A(R,S)	TRANSISTOR		
Q4			2SC3246	TRANSISTOR		
Q5			2SA1286-T11	TRANSISTOR		
CD MECHANISM (D40-1714-05)						
1	1B		A10-3554-08	LOADING CHS LCHSM0127AWZZ		
5	2B		D10-3606-08	ROD		
6	1A		D13-2557-08	RACK GEAR NGERR0005AWZZ		
7	1A		D13-2558-08	TRAY GEAR NGERH0146AWZZ		
9	2B		D13-1720-08	DRIVING GEAR		
10	1B		D15-0444-08	DRIVE PULLEY NPLYR0010AWZZ		
11	1B		D16-0770-08	DRIVE BELT NBLTK0040AWZZ		
13	2B		E35-2322-08	CONE WIRE QCNWN1379AWZZ		
15	2B,3B		J02-1511-05	INSULATOR		
16	2B		J11-0868-08	CLAMPER LHLDM1015AWZZ		
18	3A		J19-6221-08	MEC HOLDER LHLDZ1341AWZZ		
20	2A		J99-0831-08	DISC HOLDER GCOVA1386AWSA		
25	2B		S74-0080-08	LEAF SWITCH SWICHL1749A		
26	3B		S74-0038-08	LEAF SWITCH		
28	3B		E40-3264-05	CONNECTOR		
30	1B		T99-0609-08	MAGNET PMAGF0001AWZZ		
DM	3B		A11-1082-18	MOTOR CHS ASSY DISC		
FM	3B		T42-0817-08	MOTOR ASSY FEED		
LM	2B		T42-1113-08	MOTOR ASSY TRAY		
⚠ PU	2A		T25-0061-08	PICKUP ASSY KSS-213C		
AC	3A,3B		N09-5280-05	TAPTITE SCREW		

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PARTS LIST

HOW TO READ THE PARTS LIST
ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	*ABB.*	*Australia*	*Canada*	*China*	*England*	*Europe*	*Germany*	*Korea*	*Malaysia*
RXD-M33V-S	*S*	-	-	-	-	-	-	-	I
RXD-M33V-L	L	-	-	-	-	-	-	-	I
RXD-M33V-N	N	-	-	-	-	-	-	-	I
RXD-M33V-S(M2)	S	-	-	-	-	-	-	-	-
RXD-M33V-L(M2)	L	-	-	-	-	-	-	-	-
RXD-M33V/N(M2)	N	-	-	-	-	-	-	-	-

MODEL	*ABB.*	*Mexico*	*PX/AAFES*	*Russia*	*Scandinavia*	*Shanghai*	*USA*	*Other area*	
RXD-M33V-S	*S*	-	-	-	-	V	-	M	-
RXD-M33V-L	L	-	-	-	-	-	-	M	-
RXD-M33V-N	N	-	-	-	-	-	-	M	-
RXD-M33V-S(M2)	S	-	-	-	-	-	-	M2	-
RXD-M33V-L(M2)	L	-	-	-	-	-	-	M2	-
RXD-M33V/N(M2)	N	-	-	-	-	-	-	M2	-

RXD-M33V

SPECIFICATIONS

Main unit

[Amplifier section]

Rated output power during STEREO operation
(1 kHz, 10% T.H.D., at 6 Ω) ..... 30 W + 30 W

(For Singapore)
Rated output power during STEREO operation
(1 kHz, 10% T.H.D., at 6 Ω) ..... 25 W + 25 W
Frequency response
AUX ..... 50 Hz~50 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz

AM (MW) tuner section
Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz

[CD player section]

Laser ..... Semiconductor laser
D/A Conversion ..... 1 Bit
Over sampling ..... 8 fs (352.8 kHz)
Laser wave length ..... 760 to 800 nm
Laser power class ..... Class 1 (IEC)
Digital output (Optical) ..... – 15 dBm ~ – 21 dBm
(Wave length 660 nm)
Video Output format ..... NTSC/PAL
Video Output level ..... 1 Vp-p (75 Ω)

[Cassette deck section]

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 105 kHz)
Heads
Playback/ recording head 1
Erasing head 1
Motor 1
Wow and flutter ..... 0.2 % (W.R.M.S.)
Fast winding time ..... Approx. 110 seconds
(C-60 tape)

[General]

Power consumption ..... 90 W

(For Singapore)
Power consumption ..... 80 W
Dimensions ..... W : 180 mm
H : 255 mm
D : 317 mm
Weight (net) ..... 5.5 kg

Speakers

Enclosure ..... Bass-refrex type, magnetically shielded
Speaker configuration
Woofer ..... 120 mm, cone type
Tweeter ..... 25 mm, dome type
Impedance ..... 6 Ω
Maximum input level ..... 30 W
Dimensions ..... W : 150 mm
H : 255 mm
D : 215 mm
Weight (net) ..... 2.3 kg (1 piece)

Notes

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

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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