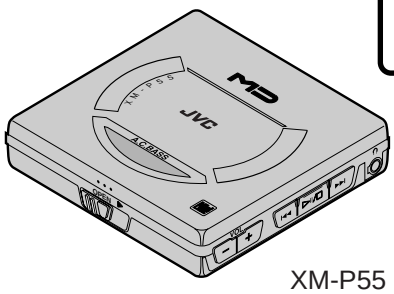
JVC

SERVICE MANUAL

PORTABLE MINIDISC PLAYER

XM-P55
XM-PJ1



XM-P55

XM-PJ1

Area Suffix

(XM-P55)

B ------ U.K. (BU,SL)
E ------ Continental Europe (BU,SL)
EE ---- Russian Federation (BU,SL)
EN ---- Northern Europe (BU,SL)
J ------ U.S.A. (SL)
UB ---- Hong kong (BU,GN,SL)
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Contents

No.20738
Jan. 1999

Safety Precaution

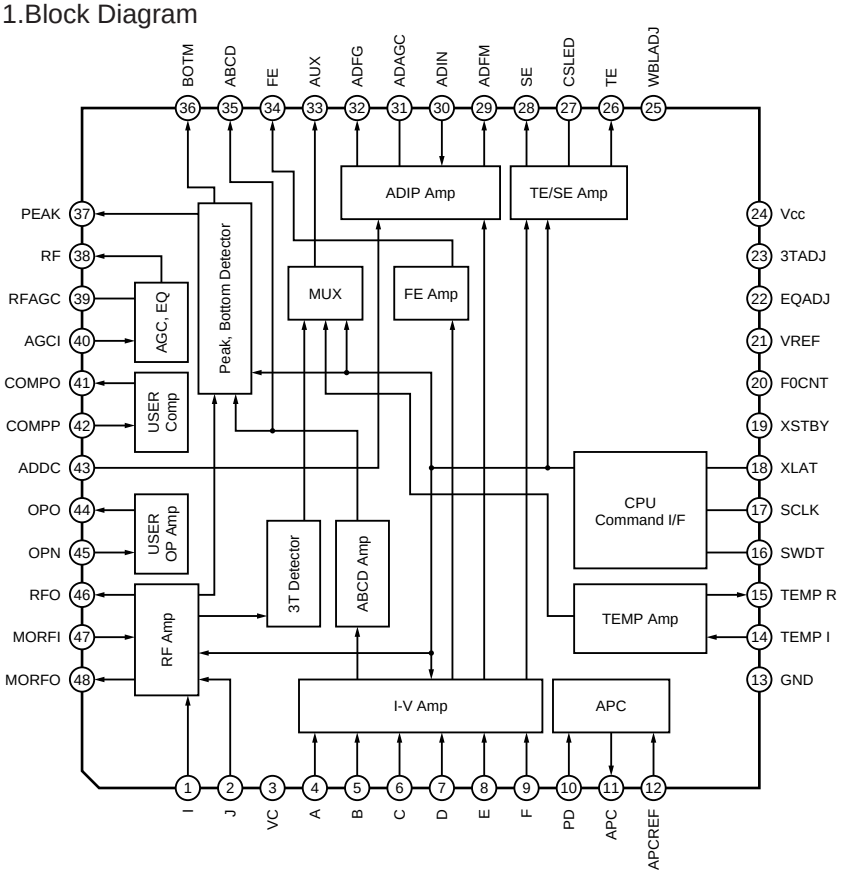
> ⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

> ⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Description of Major ICs

■CXA2523AR(IC310):MD RF & Servo

1.Block Diagram



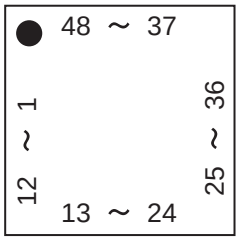
2.Pin Function

Pin No.	Symbol	I/O	Function
1	I	I	I-V converted RF signal I input.
2	J	I	I-V converted RF signal J input.
3	VC	O	Vcc/2 voltage output.
4	A	I	A current input for main beam servo signal.
5	B	I	B current input for main beam servo signal.
6	C	I	C current input for main beam servo signal.
7	D	I	D current input for main beam servo signal.
8	E	I	E current input for side beam servo signal.
9	F	I	F current input for side beam servo signal.
10	PD	I	Reflection light quantity monitor signal input.
11	APC	O	Laser APC output.
12	APCREF	I	Reference voltage input for the laser power intensity setting.
13	GND	-	Connect to GND.
14	TEMPI	I	Connects the temperature sensor.
15	TEMP R	I	Connects the temperature sensor. outputs the reference voltage.
16	SWDT	I	Data input for microcomputer serial interface.
17	SCLK	I	Shift clock input for microcomputer serial interface.
18	XLAT	I	Latch signal input for microcomputer serial interface.Latched when low.
19	XSTBY	I	Standby setting pin. Normal operation when high Standby when low.
20	F0CNT	I	Internal current source setting pin.

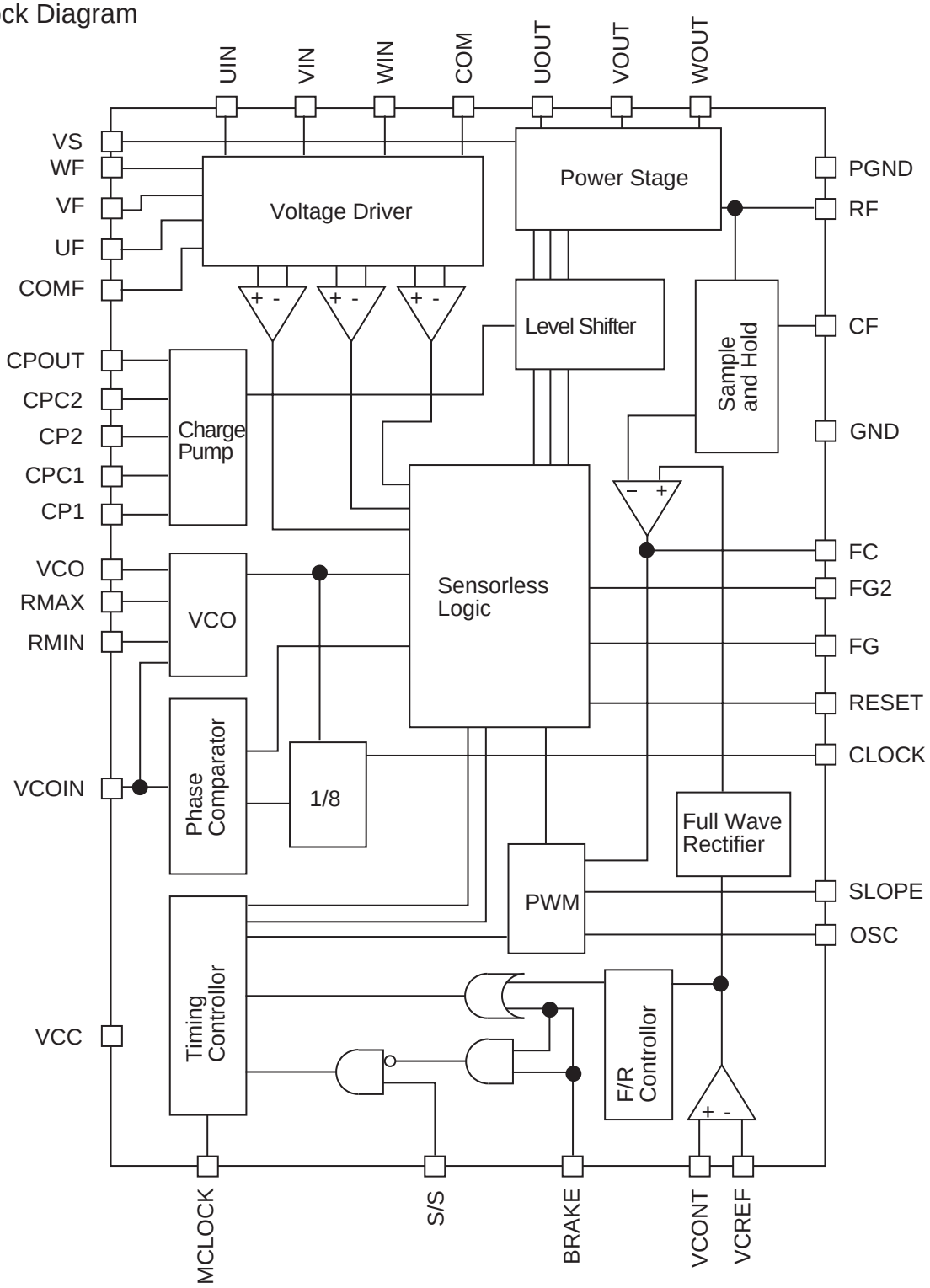
Pin No.	Symbol	I/O	Function
21	VREF	O	Reference voltage output.
22	EQADJ	I/O	Equalizer center frequency setting pin.
23	3TADJ	I/O	BPF3T center frequency setting pin.
24	Vcc	-	Power supply.
25	WBLADJ	I/O	BPF22 center frequency setting pin.
26	TE	O	Tracking error signal output.
27	CSLED	-	Connects the sled error signal LPF capacitor.
28	SE	O	Sled error signal output.
29	ADFM	O	ADIP FM signal output.
30	ADIN	I	ADIP signal comparator input.
31	ADAGC	-	Connects the ADIPAGC capacitor.
32	ADFG	O	ADIP2 binary value signal output.
33	AUX	O	13 output / temperature signal output. Switched with serial commands.
34	FE	O	Focus error signal output.
35	ABCD	O	Reflection light quantity signal output for the main beam servo detector.
36	BOTM	O	RF/ABCD bottom hold signal output.
37	PEAK	O	Peak hold signal output for the RF/ABCD signals.
38	RF	O	RF equalizer output.
39	RFAGC	-	Connects the RFAGC capacitor.
40	AGCI	I	RFAGC input.
41	COMPO	O	User comparator output.
42	COMPP	I	User comparator non-inverted input.
43	ADDC	I/O	Connects the capacitor for ADIP amplifier feedback circuit.
44	OPO	O	User operational amplifier output.
45	OPN	I	User operational amplifier inverted input.
46	RFO	O	RF amplifier output. Eye pattern checkpoint.
47	MORFI	I	Input of the groove RF signal with AC coupling.
48	MORFO	O	Groove RF signal output.

■CXA8069M(IC450):Sensorless Motor Driver

1.Pin Layout



2.Block Diagram

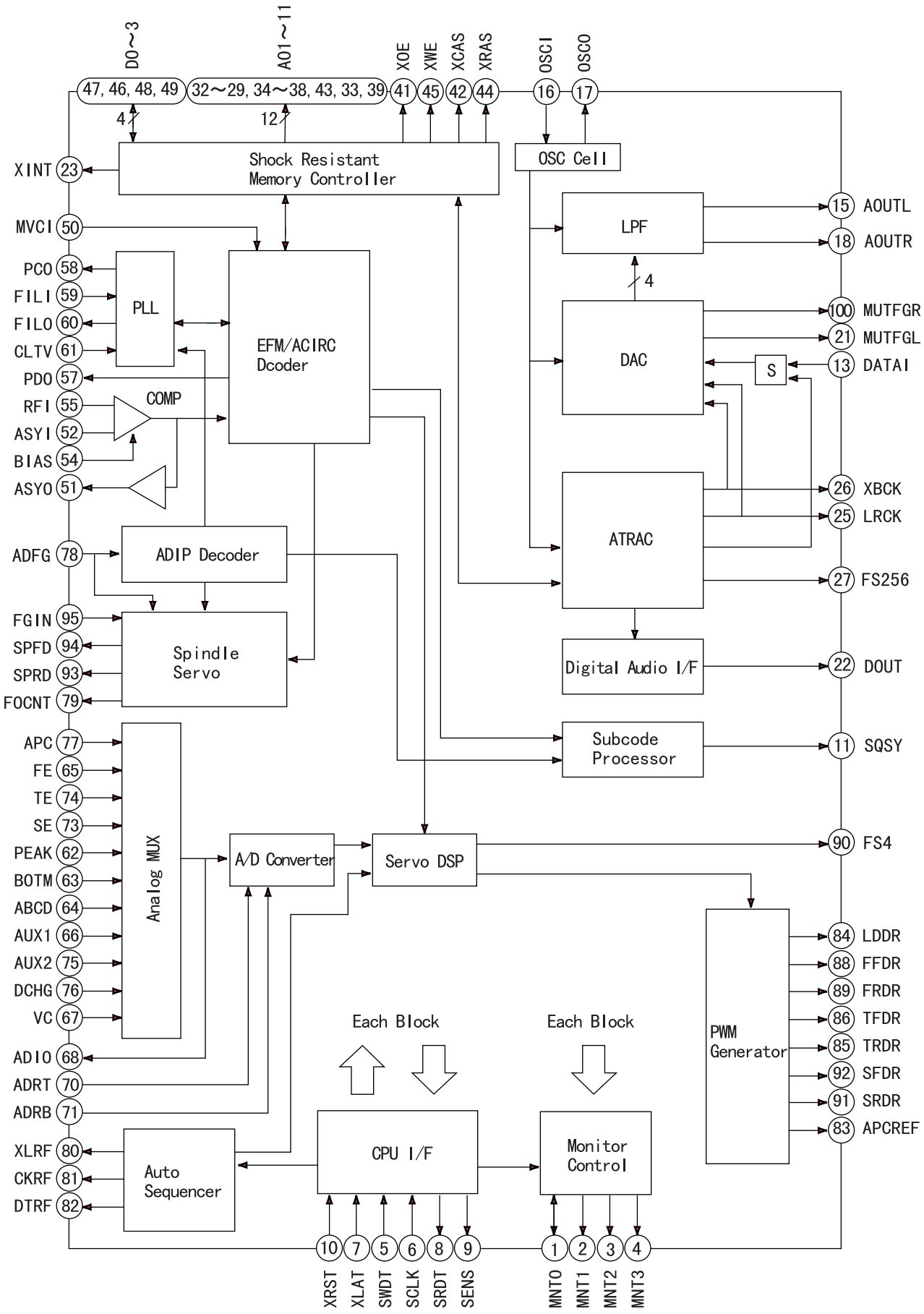


3. Pin Functions

Pin No.	Pin Name	Functions
1	NC	Non connection
2	RF	Detection of motor current
3	VS	Motor driven power supply
4	NC	Non connection
5	CPC1	Connect first condenser of charge pump to this terminal.
6	CP1	Connect first condenser of charge pump to this terminal.
7	CPC2	Connect second condenser of charge pump to this terminal.
8	CP2	Connect second condenser of charge pump to this terminal.
9	CPOUT	Connect last condenser of charge pump / VG external input
10	GND	Ground of circuits except for output section
11	S/S	Start / Stop
12	BRAKE	Brake
13	VCONT	Speed control
14	VCREF	Reference voltage of speed control
15	FG	FG pulse output
16	FG2	FG pulse output when pin15 FG signal goes half round
17	FC	Correction of frequency characteristic of speed control loop
18	VCO	Setting of VCO oscillation frequency
19	RMAX	Setting of VCO maximum oscillation frequency
20	RMIN	Setting of VCO minimum oscillation frequency
21	COMF	Forms motor waveform
22	WF	Forms motor waveform
23	VF	Forms motor waveform
24	UF	Forms motor waveform
25	VCOIN	VCO oscillation frequency control
26	CLOCK	Monitors CLOCK signal
27	GND	Ground of circuits except for output section
28	CF	Sample board for output current detection
29	OSC	Forms saw-tooth wave for PWM wave formation
30	SLOPE	Forms santooth waveform for soft switching wave formation
31	MCLOCK	Clock input
32	VCC	Power supply except for output section
33	NC	Non connection
34	VS	Motor driven power supply
35	RF	Detection of motor current
36	NC	Non connection
37	RESET	Reset for operation check
38	WIN	Detection of counter electromotive voltage
39	WOUT	Motor source output
40	NC	Non connection
41	VIN	Detection of counter electromotive voltage
42	VOUT	Motor source output
43	NC	Non connection
44	NC	Non connection
45	UIN	Detection of counter electromotive voltage
46	UOUT	Motor source output
47	COM	Detection of motor common voltage
48	PGND	Ground for output guard

■CXD2655R (IC351):Digital Servo Processor

1. Block Diagram

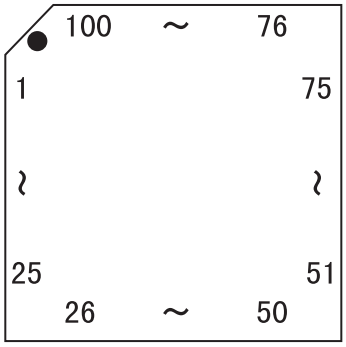


2. Pin Function Description

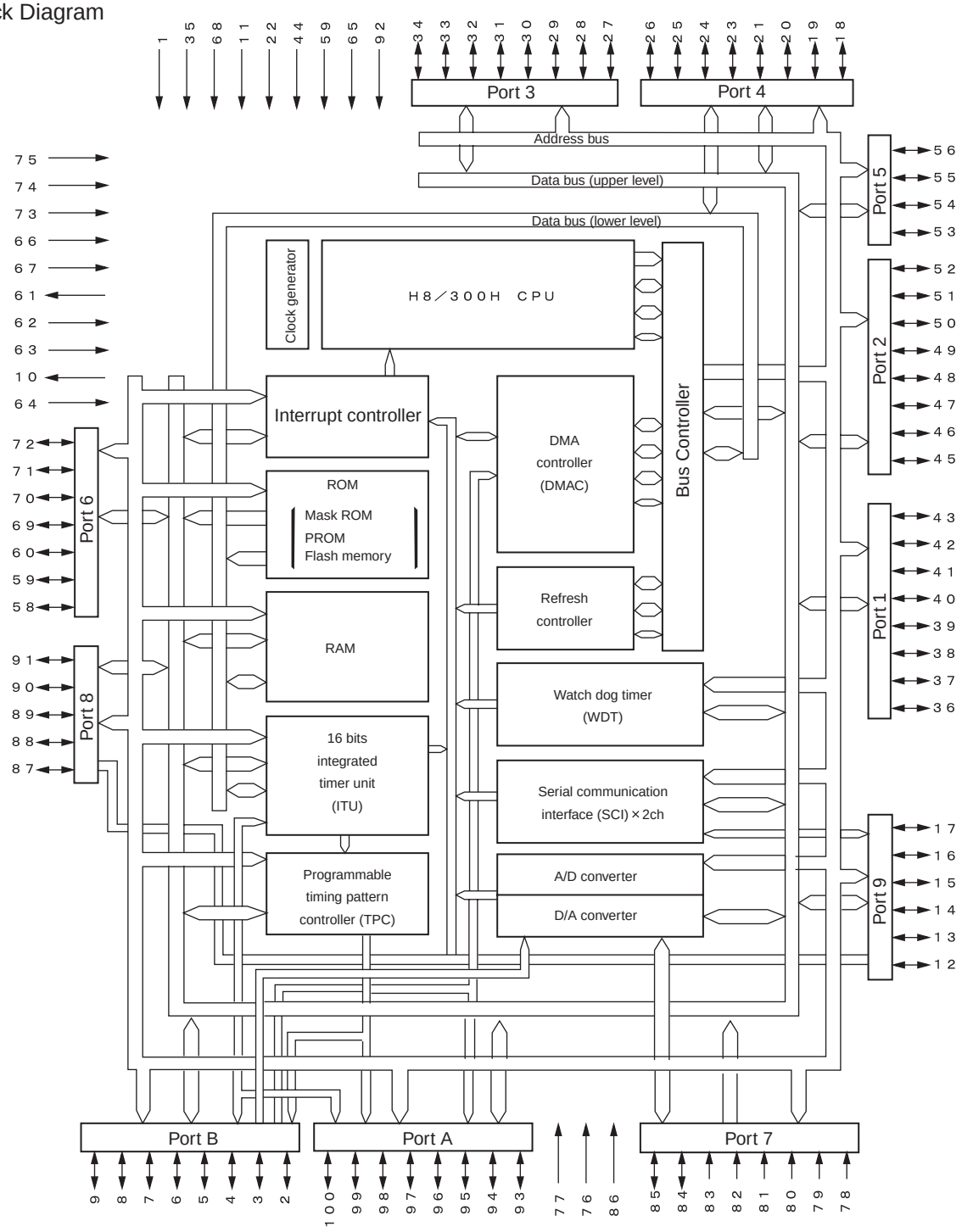
Pin No.	Symbol	I/O	Functions and Operations	Pin No.	Symbol	I/O	Functions and Operations
1	MNTO	I/O	Monitor input and output	51	ASYO	O	Playback EFM full-swing output
2	MNT1	O	Monitor output	52	ASYI	I	Playback EFM comparator slice voltage input
3	MNT2	O	Monitor output	53	AVDD	I	Analog power supply
4	MNT3	O	Monitor output	54	BIAS		Playback EFM comparator bias current input
5	SWDT	I	Data input of microcomputer serial interface	55	RFI	I	Playback EFM RF signal input
6	SCLK	I	Shift lock input of microcomputer serial interface	56	AVSS		Analog ground
7	XLAT	I	Latch input of microcomputer serial interface/ Latch at the Falling edge	57	PDO	O	Phase comparison output for analog PLL of EFM decoder
8	SRDT	O	Date output of microcomputer serial interface	58	PCO	O	Phase comparison output for master PLL of playback digital PLL
9	SENS	O	Output of internal status corresponding to microcomputer serial interface address	59	FILI	I	Filter input for master PLL of playback digital PLL
10	XRST	I	Reset input L : reset	60	FILO	O	Filter output for master PLL of playback digital PLL
11	SQSY	O	Disc sub cord Q sync / ADIP sync output	61	CLTV	I	Internal VCO control voltage input for master PLL of playback digital PLL
12	TST2	I	Test pin	62	PEAK	I	Peak hold signal input for quantity of light
13	DATAI	I	Input of external audio data to internal DAC	63	BOTM	I	Bottom hold signal input for quantity of light
14	DAVDD		DAC power supply	64	ABCD	I	Signal input for quantity of light
15	AOUTL	O	Integrated DAC Lch output	65	FE	I	Focus error signal input
16	OSCI	I	Crystal oscillation circuit input (512Fs=22.5792MHz)	66	AUX1	I	Auxiliary input 1
17	OSCO	O	Crystal oscillation circuit output (Inverted output of OSCI)	67	VC	I	Center voltage input
18	AOUTR	O	Integrated DAC Rch output	68	ADIO	O	Monitor output of A/D converter input signal
19	DAVSS		DAC ground	69	AVDD		Analog power supply
20	TST1	I	Test pin	70	ADRT	I	Input of upper-limit voltage of the A/D converter operating range
21	MUTFGL	O	Detection of Lch zero data / flag output	71	ADRB	I	Input of lower-limit voltage of the A/D converter operating range
22	DOUT	O	Out put of digital audio interface signal	72	AVSS		Analog ground
23	XINT	O	Interrupt request output L: When the interrupt status occurs.	73	SE	I	Sled error signal input
24	DADT	O	Output of audio date to external audio block	74	TE	I	Tracking error signal input
25	LRCK	O	LRCK to external audio block (44.1kHz)	75	AUX2	I	Auxiliary input 2
26	XBCK	O	Output pin (2.8224MHz)	76	DCHG	I	Connect to the low-impeddance power supply
27	FS256	O	256Fs output (11.2896MHz)	77	APC	I	Error signal input for laser digital APC
28	DVDD		Digital power supply	78	ADFG	I	ADIP binary FM signal (22.05±1kHz) input
29	A03	O	External DRAM address output	79	FOCNT	O	Output for setting of CXA 2523 current source
30	A02	O	External DRAM address output	80	XLRF	O	Latch output for CXA 2523 control
31	A01	O	External DRAM address output	81	CKRF	O	Shift lock output for CXA 2523 control
32	A00	O	External DRAM address output	82	DTRF	O	Data output for CXA 2523 control
33	A10	O	External DRAM address output	83	APCREF	O	Reference PWM output for laser APC
34	A04	O	External DRAM address output	84	LDDR	O	PWM output for laser digital APC
35	A05	O	External DRAM address output	85	TRDR	O	Tracking servo drive PWM output (−)
36	A06	O	External DRAM address output	86	TFDR	O	Tracking servo drive PWM output (+)
37	A07	O	External DRAM address output	87	DVDD		Digital power supply
38	A08	O	External DRAM address output	88	FFDR	O	Focus servo drive PWM output (+)
39	A11	O	External DRAM address output	89	FRDR	O	Focus servo drive PWM output (−)
40	DVSS		Digital ground	90	FS4	O	4Fs output (176.4kHz)
41	XOE	O	External DRAM output enable	91	SRDR	O	Sled servo drive PWM output (−)
42	XCAS	O	External DRAM CAS output	92	SFDR	O	Sled servo drive PWM output (+)
43	A09	O	External DRAM address output	93	SPRD	O	Spindle servo drive PWM output (−)
44	XRAS	O	External DRAM RAS output	94	SPFD	O	Spindle servo drive PWM output (+)
45	XWE	O	External DRAM write enable	95	FGIN	I	FG input of spindle CAV servo
46	D1	I/O	External DRAM date bus	96	TEST1	I	Test pin
47	D0	I/O	External DRAM date bus	97	TEST2	I	Test pin
48	D2	I/O	External DRAM date bus	98	TEST3	I	Test pin
49	D3	I/O	External DRAM date bus	99	DVSS		Digital ground
50	MVCI	I	External VCO (784Fs) clock input	100	MUTFGR	O	Detection of Rch zero date / flag output

■HD6433045SV14X (IC501): 3 Beams Microcomputer

1. Terminal Layout



2. Block Diagram

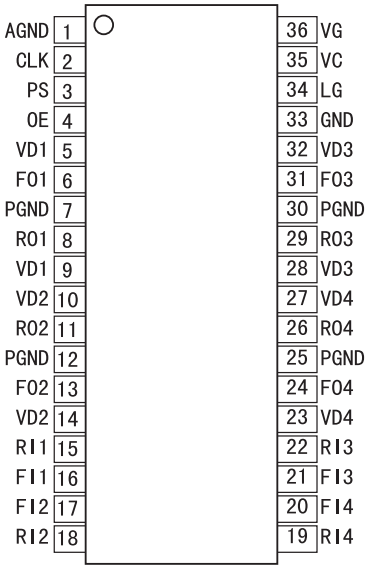


3. Description

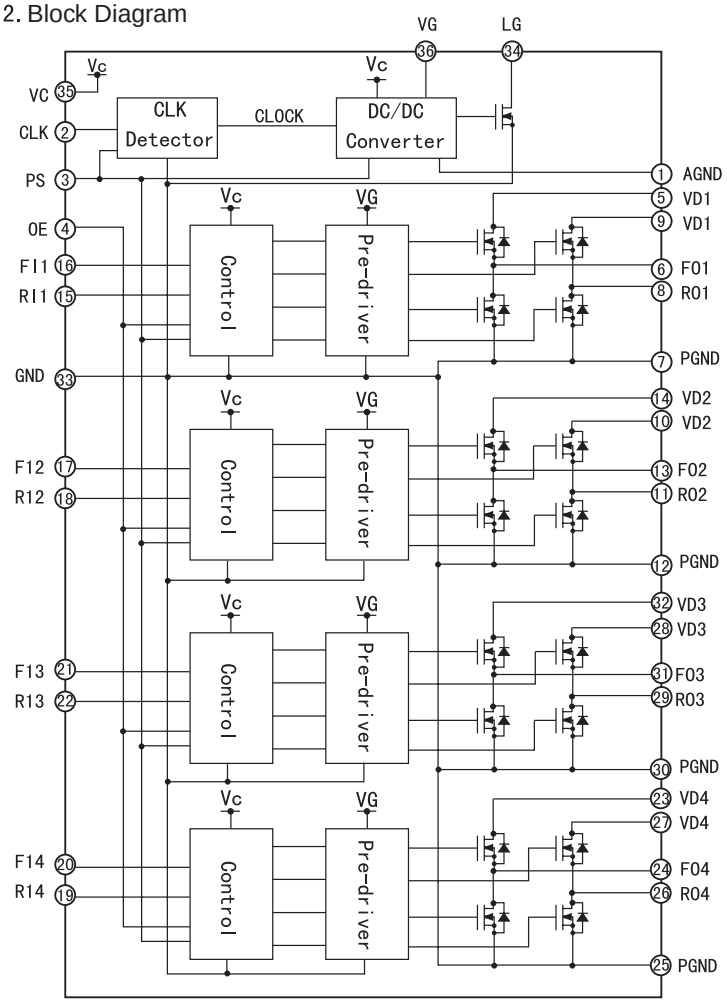
Pin No.	Symbol	I/O	Function and Operation	Pin No.	Symbol	I/O	Function and Operation
1	VCC	–	Power supply	51	PS	O	Connect to MPC17A39 power save terminal
2	XRST2	O	Communications line terminals to CXA2523AR, connect to XSTB terminal	52	SS	O	Connect to CXA8069 start / stop terminal
3	SWDT2	O	Communications line terminals to CXA2523AR, connect to SWDT terminal	53	SEL0	I	CXD2655R monitor output selection
4	SCLK2	O	Communications line terminals to CXA2523AR, connect to SCLK terminal	54	SEL1	I	CXD2655R monitor output selection
5	XLAT2	O	Communications line terminals to CXA2523AR, connect to XLAT terminal	55	SEL2	I	CXD2655R monitor output selection
6	NC	O	Non connection	56	SEL3	I	CXD2655R monitor output selection
7	NC	O	Non connection	57	GND	–	Ground
8	XRST	O	Connect to XRST terminal of CXD2655R	58	PLAY	I	PLAY key input
9	XLAT	O	Connect to XLAT terminal of CXD2655R	59	POWERON	O	Starting signal output for power supply circuit
10	RESO(+12V)	–	Supplies +12V when flash memory is writing.	60	REMOFF	O	Remote control power OFF
11	GND	–	Ground	61	Φ	–	Non connection
12	RMTX	O	Remote control UART output	62	STBY(VCC)	I	Power supply
13	SWDT	O	Connect to SWDT terminal of CXD2655R	63	RESET	I	Microcomputer reset input
14	RMRX	I	Remote control URAT input	64	NMI(VCC)	I	Power supply
15	SRDT	I	Connect to SRDT terminal of CXD2655R	65	GND	–	Ground
16	NC	O	Non connection	66	EXTAL		Connect to Crystal NAX0275-001X
17	SCLK	O	Connect to SCLK terminal of CXD2655R	67	XTAL(6.14M)		Connect to Crystal NAX0275-001X
18	RFVCTL	O	RF source pre-charge output	68	VCC	–	Power supply
19	LDON	O	Laser ON / OFF output	69	CS2	O	EEPROM2 chip select terminal output
20	RFOFF	O	RF source OFF output	70	SCL	O	EEPROM communication serial clock output
21	SLOFF	O	Sled driven voltage ON/OFF	71	DI	O	EEPROM communication serial DATA output
22	GND	–	Ground	72	CS	O	EEPROM chip select terminal output
23	FFCLR	O	Clear signal of power supply circuit flip-flop	73	MD0(VCC)	I	Power supply
24	AMUTE	O	MUTE output for audio circuit	74	MD1(VCC)	I	Power supply
25	MWUP	O	Starting control output	75	MD2(VCC)	I	Power supply
26	DIR	O	Debug / test mode	76	AVCC(VCC)	–	Power supply
27	MMONI0	O	Parallel mode monitor	77	VREF(VCC)	–	Power supply
28	MMONI1	O	Parallel mode monitor	78	KEY	I	Key input (analog)
29	MMONI2	O	Parallel mode monitor	79	NC	O	Non connection
30	MMONI3	O	Parallel mode monitor	80	NC	O	Non connection
31	DATA	O	Debug / test mode	81	BATTERY	I	Battery voltage input (analog)
32	CLK	O	Debug / test mode	82	NC	O	Non connection
33	XLAT	O	Debug / test mode	83	TEMP	I	Connect to temperature-detective thermistor
34	SLPEN	I	Sleep function enable input	84	RPLY	I	Remote control PLAY key input
35	VCC	–	Power supply	85	DISCIN	I	Disc detective switch input
36	NC	O	Non connection	86	GND	–	Ground
37	NC	O	Non connection	87	XINT	I	Connect to XINT terminal of CXD2655R
38	NC	O	Non connection	88	SQSY	I	Connect to SQSY terminal of CXD2655R
39	NC	O	Non connection	89	NC	O	Non connection
40	NC	O	Non connection	90	NC	O	Non connection
41	NC	O	Non connection	91	NC	O	Non connection
42	NC	O	Non connection	92	GND	–	Ground
43	NC	O	Non connection	93	MNT0	I	Connect to MINT0 terminal of CXD2655R
44	GND	–	Ground	94	NC	O	Non connection
45	NC	O	Non connection	95	BEEP	O	Connect to BEEP of audio circuit
46	GND	O	Ground	96	MNT3	I	Connect to MINT3 terminal of CXD2655R
47	NC	O	Non connection	97	SENS	I	Connect to SENS terminal of CXD2655R
48	NC	O	Non connection	98	DO	I	EEPROM communication serial data input
49	SAFETY	I	LSI source down detective input	99	NC	O	Non connection
50	ALLREP	I	ALL tracks repeat key input	100	ACB	O	ACTIVE CLEAR BASS circuit ON / OFF output

■MPC17A39DTB-X (IC400):4Channel Bridge Driver

1. Terminal Layout



2. Block Diagram

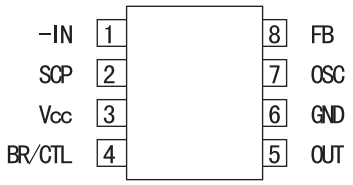


3. Pin Function Description

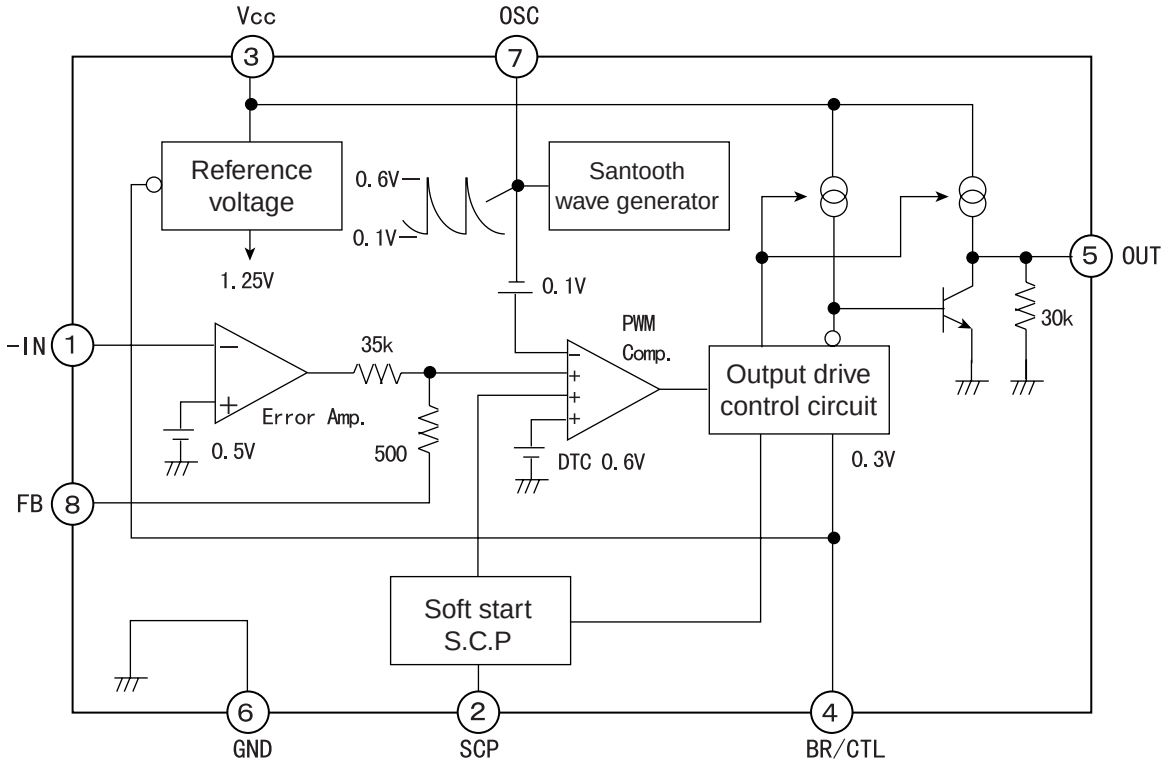
Pin No.	Symbol	Functions and Operations	Pin No.	Symbol	Functions and Operations
1	GND	DC / DC Converter circuit ground	19	RI4	CH 4 control signal input
2	CLK	External CLOCK input connection	20	FI4	CH 4 control signal input
3	PS	Standby mode control	21	FI3	CH 3 control signal input
4	OE	Output enable	22	RI3	CH 3 control signal input
5	VD1	Driver power supply	23	VD4	Driver output
6	FO1	Driver output	24	FO4	Driver output
7	PGND	Power ground	25	PGND	Power ground
8	RO1	Driver output	26	RO4	Power ground
9	VD1	Driver power supply	27	VD4	Driver power supply
10	VD2	Driver power supply	28	VD3	Driver power supply
11	RO2	Driver output	29	RO3	Driver output
12	PGND	Power ground	30	PGND	Power ground
13	FO2	Driver output	31	FO3	Driver output
14	VD2	Driver power supply	32	VD3	Driver power supply
15	RI1	CH 1 control signal input	33	GND	Control circuit ground
16	FI1	CH 1 control signal input	34	LG	DC / DC Converter boosting inductance, diode ground
17	FI2	CH 2 control signal input	35	VC	Control circuit power supply
18	RI2	CH 2 control signal input	36	VG	Pre-driver circuit power supply

■MB3800PFV-W(IC931):Switching Regulator Controller

1．Terminal Layout



2．Block Diagram

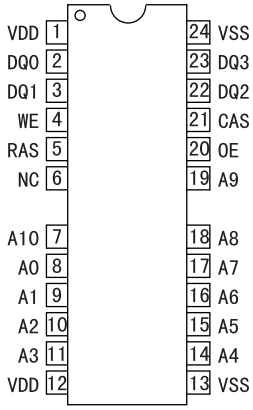


3．Pin Function Description

Pin No.	Symbol	I/O	Functions and operations
1	-IN	I	Error amplifier inversion input
2	SCP	-	Soft start, capacity for SCP setting connection
3	Vcc	-	Power supply
4	BR/CTL	I	Output current setting, control
5	OUT	O	Totem-pole output
6	GND	-	Ground
7	OSC	-	Capacity for oscillation frequency setting, resistant connection
8	FB	O	Error amplifier output

■MN41X17400CTT10X(IC391):DRAM

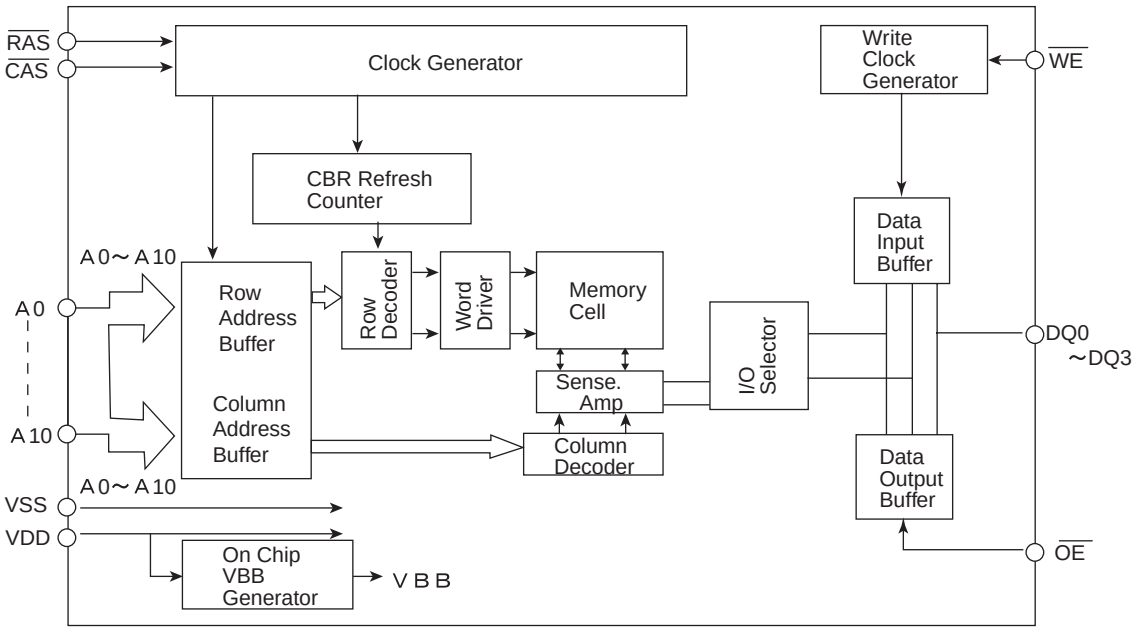
1． Terminal Layout



2． Pin Functions

Symbol	Function
A0～A10	Address input
RAS	Row address / strove
CAS	Column address / strove
WE	Write enabling input.
OE	Output enabling input.
DQ0～DQ3	Data input
VDD	Power supply (＋3.3V)
VSS	Power supply (0V)
NC	Non connection

3． Block Diagram



Removal of Main Parts

<XM-P55 Section>

■Removing the MD Door Assembly and the Bottom Cover (See Fig.1 to 4)

1. Move the door lever and open the door.
2. Remove the four A screws attaching the MD door assembly and remove the MD door assembly from the body.
3. Reverse the body and remove the six B screws attaching the bottom cover.
4. Release the joint a outside and remove the bottom cover from the body.

CAUTION: When reassembling the bottom cover, fit the part b of the hold knob slot to the hold switch on the main board (See Fig.4, 5).

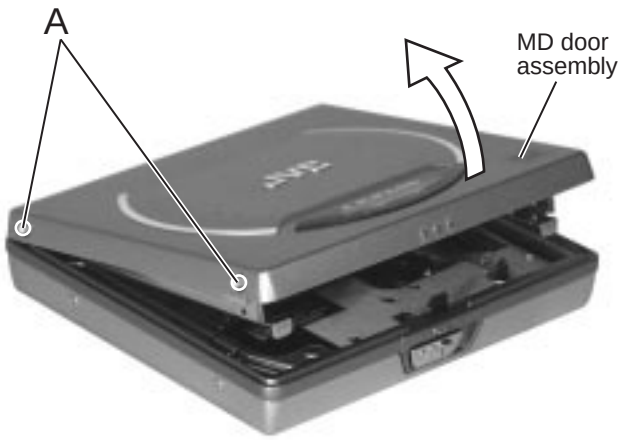


Fig.1

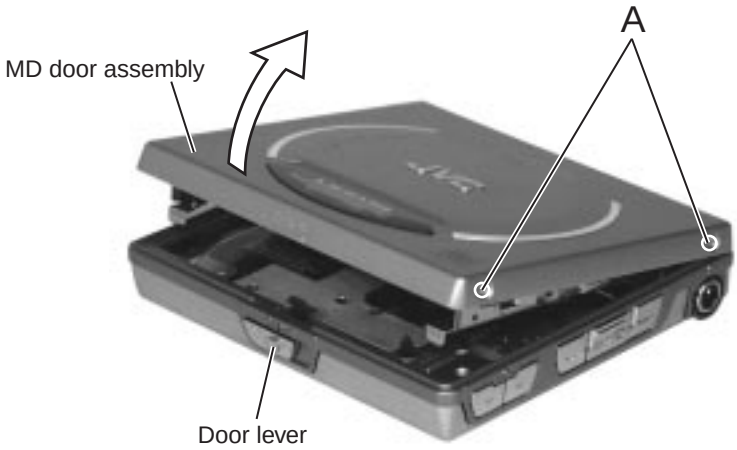


Fig.2

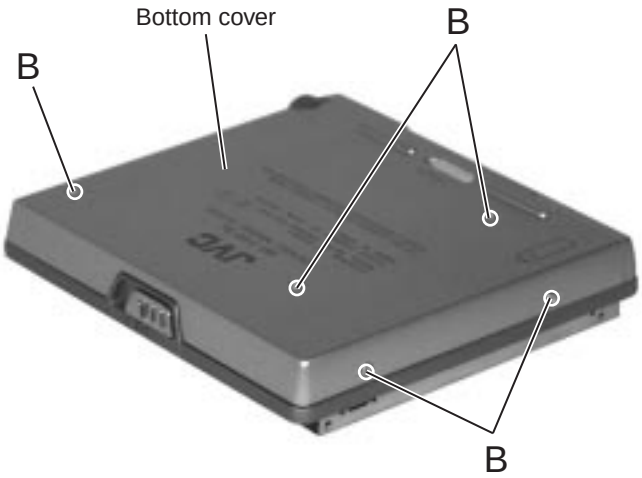


Fig.3

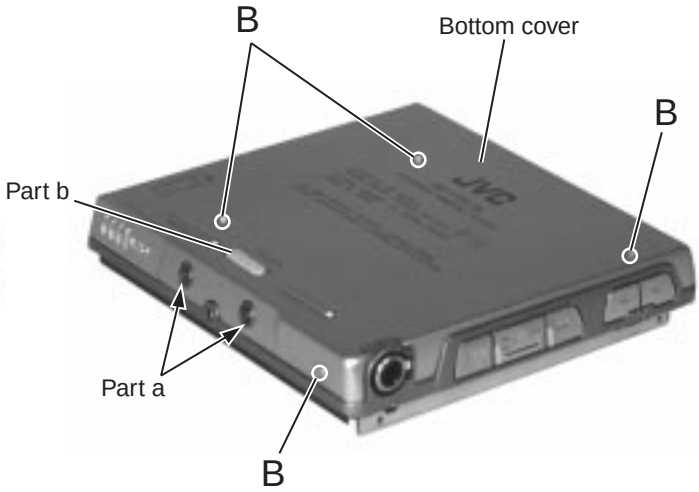


Fig.4

■Removing the Main Board

(See Fig.5 to 7)

1. Remove the three C screws and the screw D attaching the main board.
2. Unsolder the part c of the battery terminal.
3. Open the battery lid and remove it from the flame assembly.
4. Remove the headphone jack assembly while pulling the cabinet assembly of the headphone jack outwards.
5. Move the main board in the direction of the arrow in Fig.6 and remove it upward from the two parts d of the bending on the flame assembly.
6. Disconnect the flexible harnesses from connector CN300 and CN401 on the reverse side of the main board.

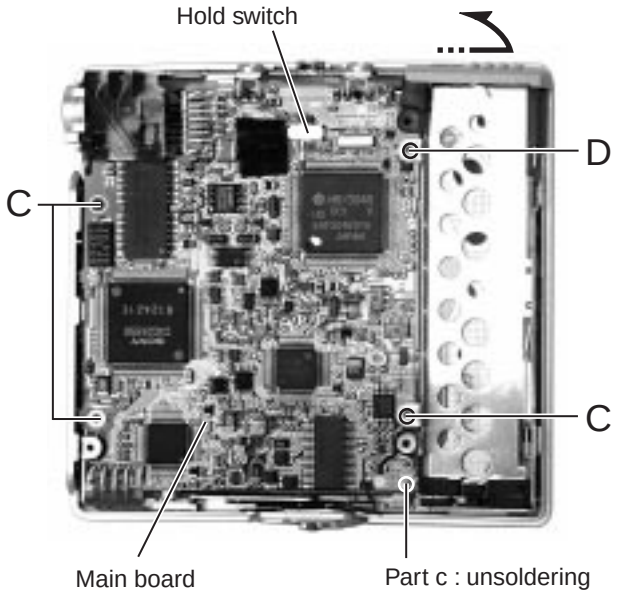


Fig.5

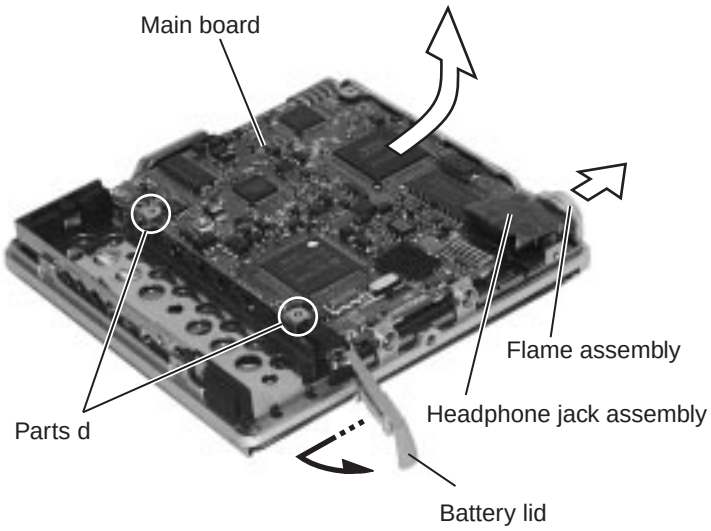


Fig.6

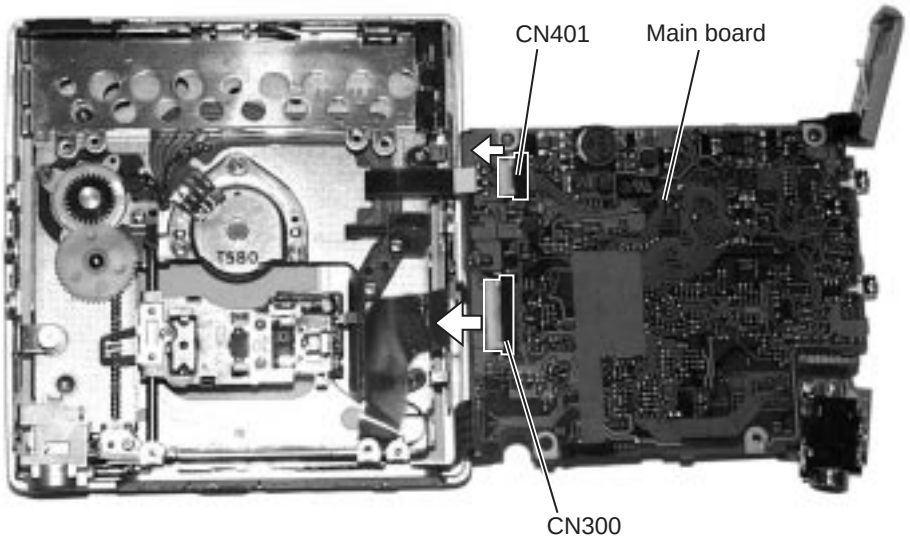


Fig.7

■Removing the Mechanism Assembly

(See Fig.8)

1. Remove the two E screws attaching the mechanism assembly and remove the mechanism assembly from the flame assembly.

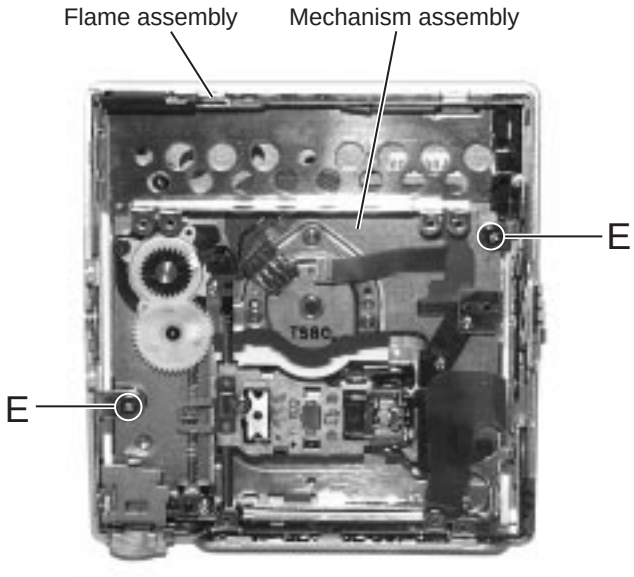


Fig.8

Removal of Main Parts

<XM-PJ1 Section>

■Removing the Bottom Cover

(See Fig.1 to 3)

1. Move and remove the battery lid of the bottom cover assembly on the side of the body in the direction of the arrow.

2. Remove the two A screws attaching the bottom cover on the bottom of the body.

3. Remove the two B screws attaching the bottom cover on the side of the body.

4. Remove the bottom cover from the body while releasing the tab a of the bottom cover on the side of the hold switch to the inside.

CAUTION: When reassembling, make sure that the convexity of the hold switch is fitted to the concave of the switch knob before inserting the tab a of the bottom cover assembly.

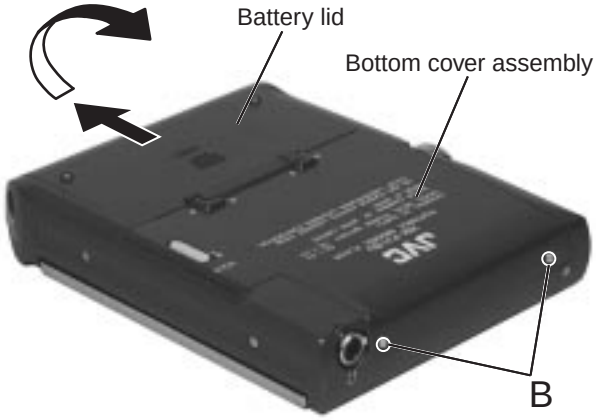


Fig. 1

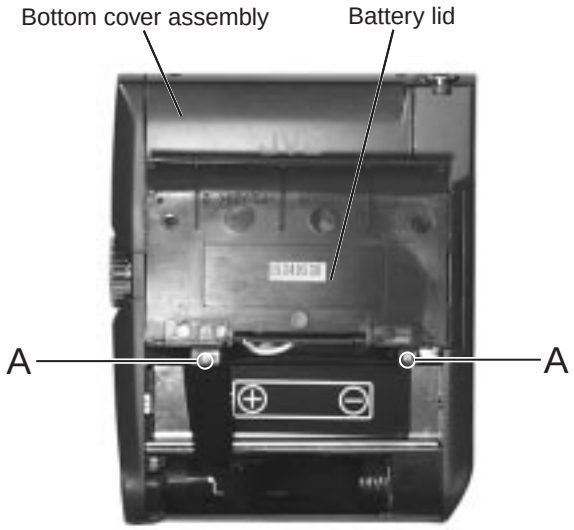


Fig. 2

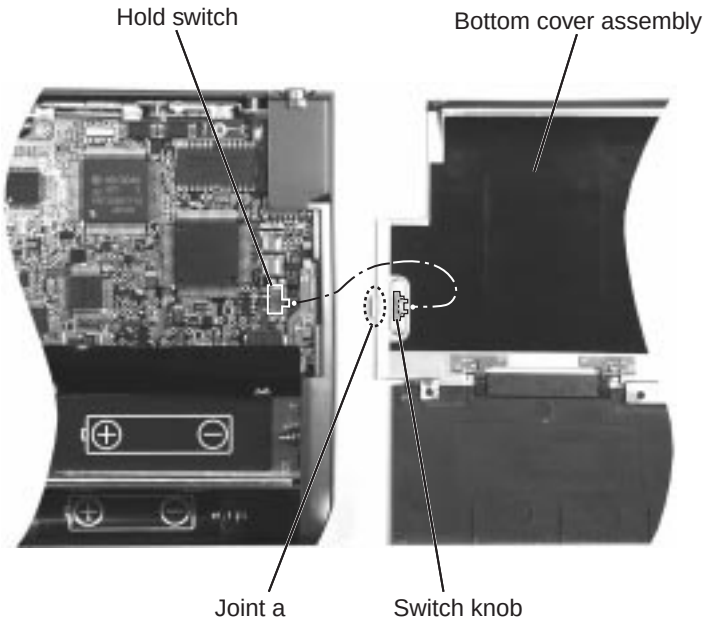


Fig. 3

■Removing the Front Cover Assembly (See Fig.4)

1. Remove the bottom cover assembly.
2. Remove the two C screws attaching the front cover assembly, and remove the front cover assembly while turning it in the direction of the arrow in the Fig.4.

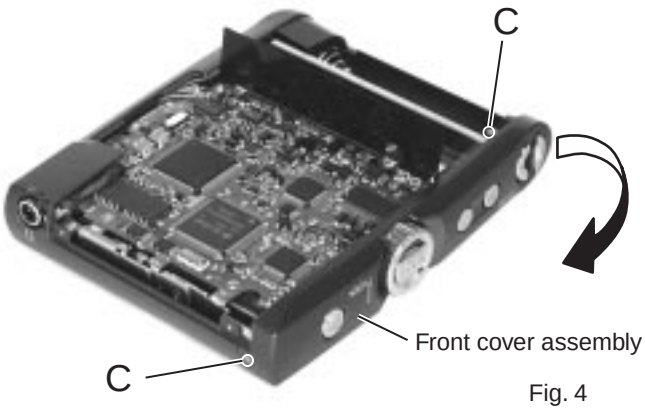


Fig. 4

■Removing the Cabinet (See Fig.5 to 8)

1. Remove the bottom cover assembly.
2. Remove the front cover assembly.
3. Remove the screw D attaching the cabinet on the upper side of the body.
4. Reverse the body and remove the two E screws attaching the cabinet on the back of the body.
5. Release the two joints b on the flame assembly side of the battery case in the direction of the arrow, and remove the cabinet from the flame assembly.
6. Unsolder the two harnesses (one is orange, the other is gray) connected to the main board. Disconnect the battery connector B with the brown harness by pulling upward.

CAUTION: When reassembling, attach the harnesses with a double-sided tape to the part c on the inside of the cabinet (See Fig.8).

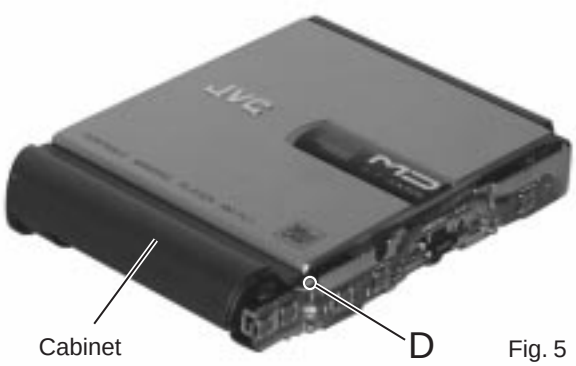


Fig. 5

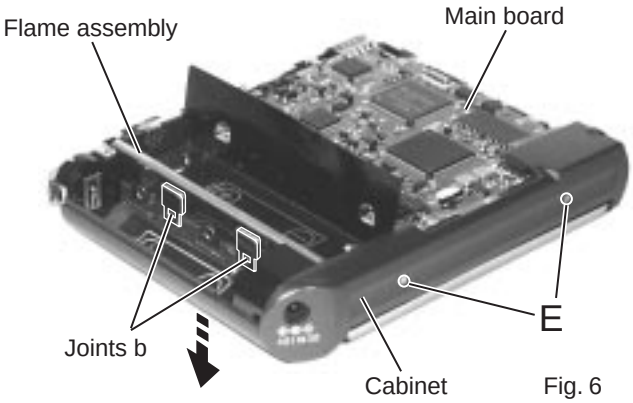


Fig. 6

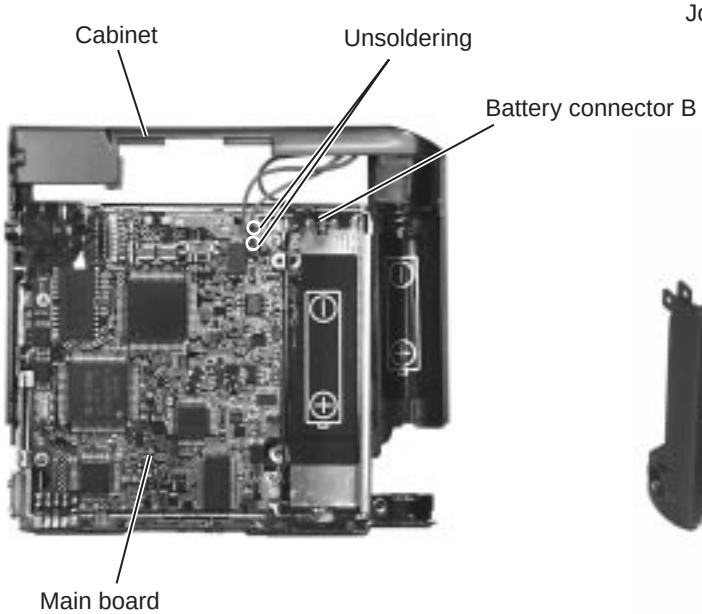


Fig. 7

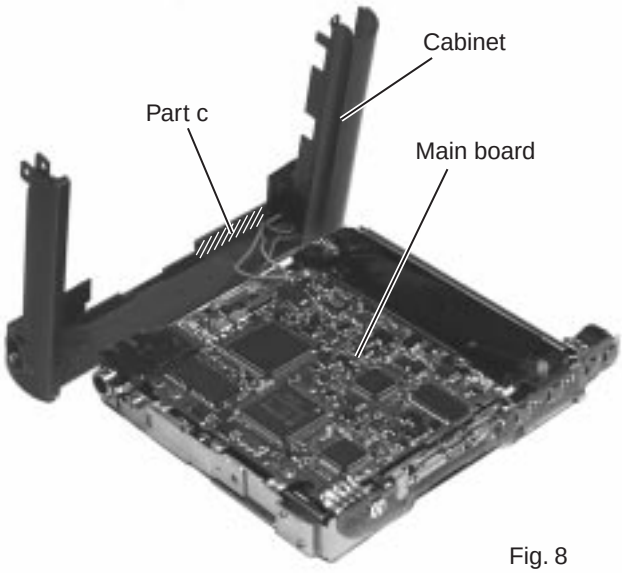


Fig. 8

■Removing the Main Board

(See Fig.9 to 11)

1. Remove the four F screws attaching the main board.
2. Remove the headphone jack fixed with a double-sided tape upward.
3. Unsolder the part d of the main board.
4. Remove the flexible harness 1 fixed to the front side of the flame assembly with a double-sided tape.
5. Move the battery terminal e from the flame assembly upward.
6. Move the main board to the inside, and remove it upward while releasing it from the two hinges f on the bending of the flame assembly.
7. Disconnect the flexible harnesses from connector CN300 and CN401 on the reverse side of the main board.

CAUTION: When reattaching the flexible harness 1, position it to the six g points and fix it with a double-sided tape (See Fig.10).

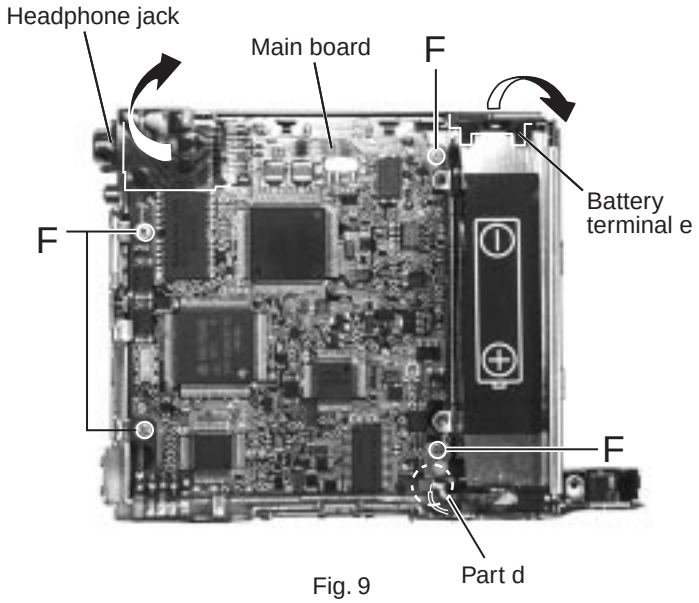


Fig. 9

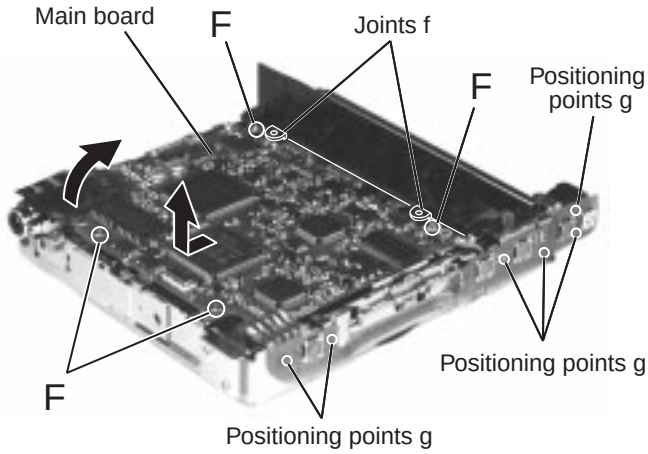


Fig. 10

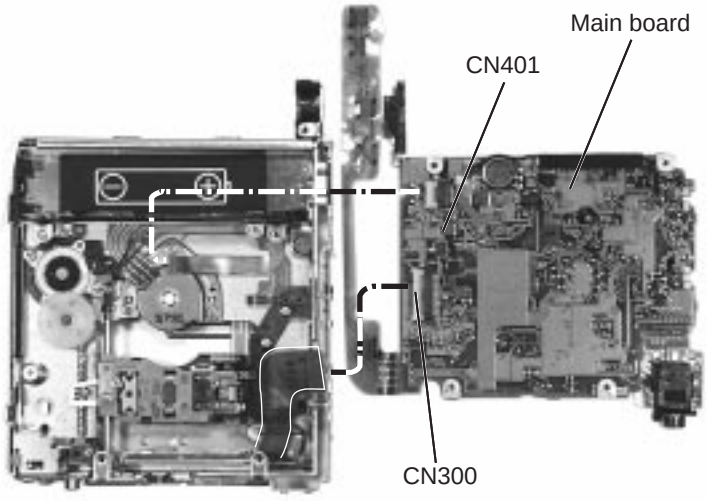


Fig. 11

■Removing the Door Cover

(See Fig.12, 13)

1. Remove the bottom cover.
2. Remove the front cover.
3. Remove the cabinet.
4. Push the lower part of the door lock lever outside on the lower front side of the body, and open the door.
5. Remove the two G screws attaching the door cover on both sides of the body, and remove the door cover.

CAUTION: When reattaching the flexible harness 1, position it to the six g points and fix it with a double-sided tape (See Fig.10).

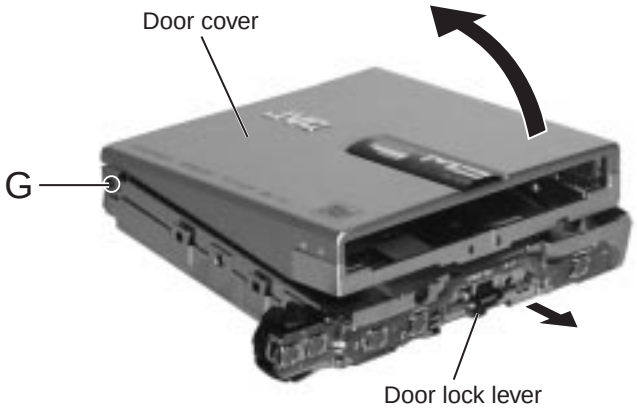


Fig. 12

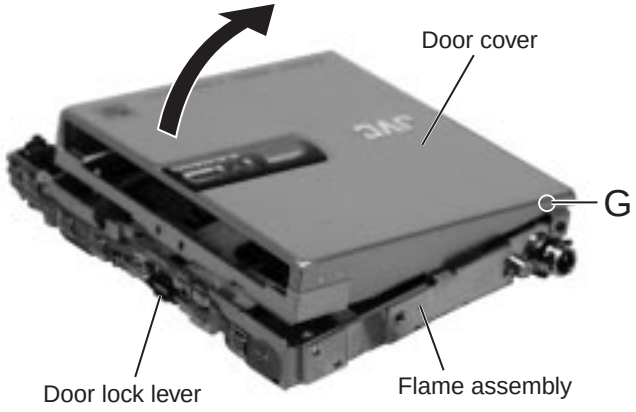


Fig. 13

■Removing the Mechanism Assembly

(See Fig.14)

1. Remove the bottom cover.
2. Remove the front cover.
3. Remove the cabinet.
4. Remove the main board.
5. Remove the two H screws attaching the mechanism assembly and remove the mechanism assembly from the flame assembly.

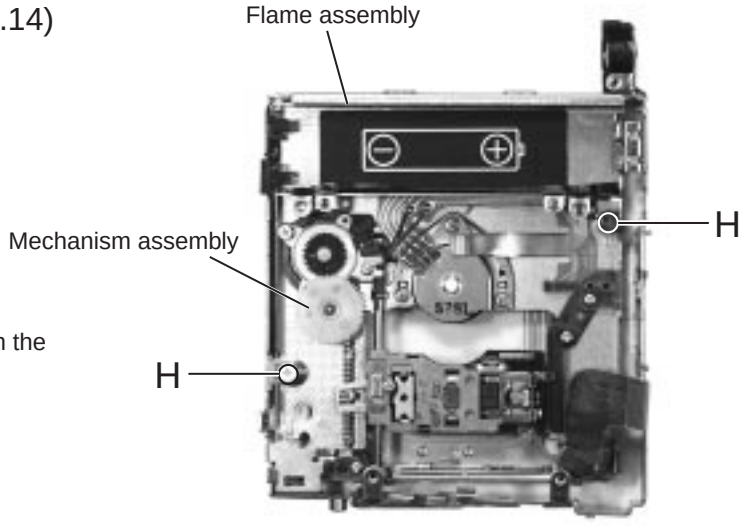


Fig. 14

<Removal of MD Mechanism Assembly>

■Removing the Holder Assembly

(See Fig.1, 2)

1. Turn the holder assembly as shown in Fig.1.

2. Push the stopper of the holder assembly to release its tab, and turn the holder assembly as shown in Fig.2. Move the part a of the holder assembly in the direction of the arrow and release its U-shaped notch from the shaft of the chassis assembly.

3. Push the part b of the holder assembly and pull out the holder assembly from the shaft of the chassis assembly.

   CAUTION: When reassembling, first attach the part (b) of the holder assembly to the shaft of the chassis assembly. Next, attach the U-shaped notch to the shaft.

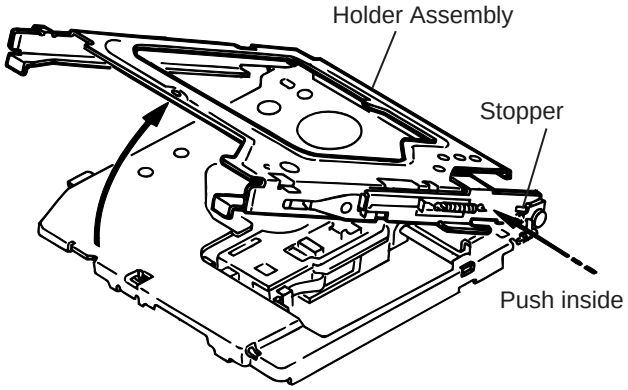


Fig.1

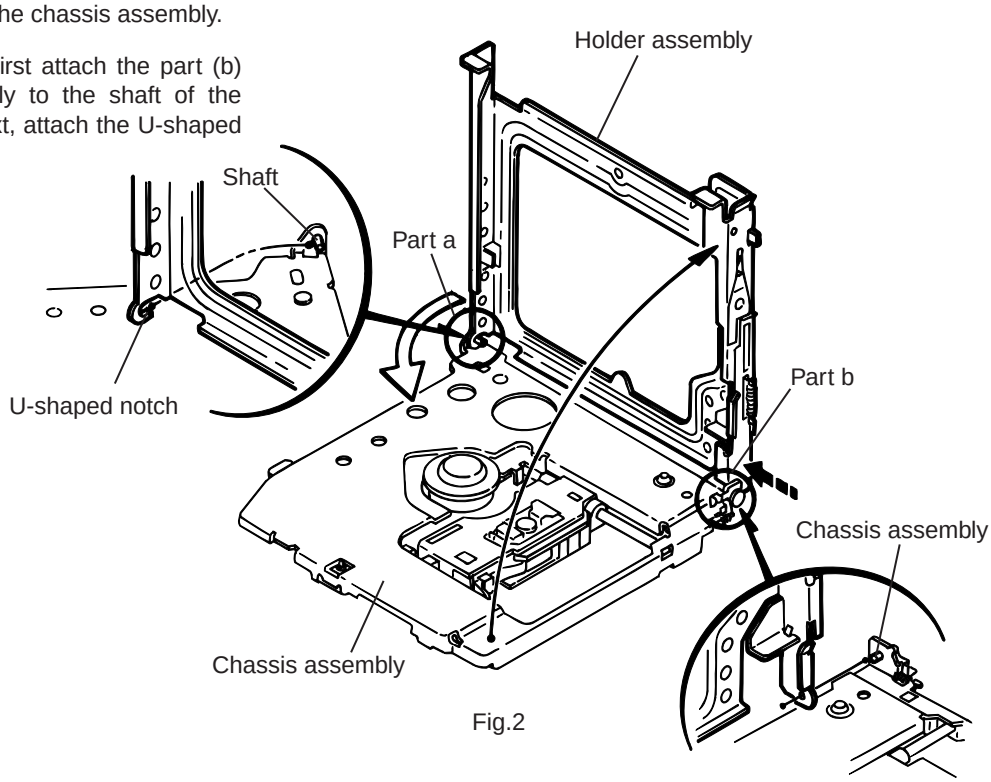


Fig.2

■Removing the Spindle Motor

(See Fig.3)

1. Unsolder the part c of the flexible harness connected to the spindle motor.

2. Remove the three A screws attaching the spindle motor and remove the spindle motor from the chassis assembly.

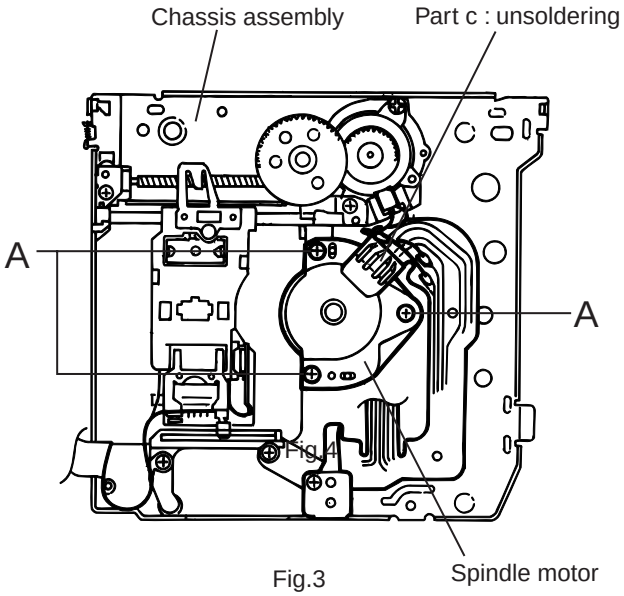


Fig.3

■Removing the Pickup Unit

(See Fig.4, 5)

1. Remove the slit washer on the reverse side of the MD mechanism and remove the worm gear.
2. Remove the screw B and the hold spring.
3. Detach the shaft of the pickup unit on the feed motor side, and the other side.
4. Remove the spacer of the flexible harness extending from the pickup unit (marked d), and remove the pickup unit from the chassis assembly.

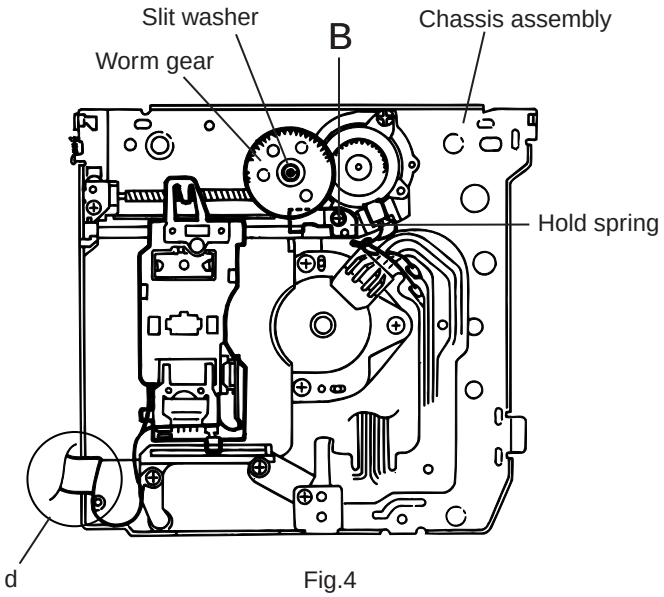


Fig.4

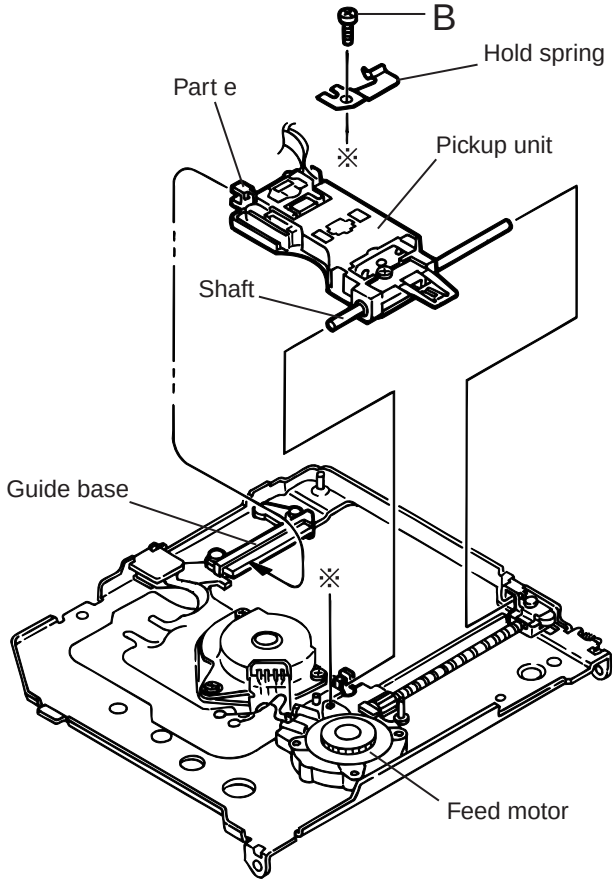


Fig.5

■Removing the Pickup (See Fig.5, 6)

1. Remove the screw C from the pickup unit and the lead spring.
2. Pull out the main shaft from the pickup.

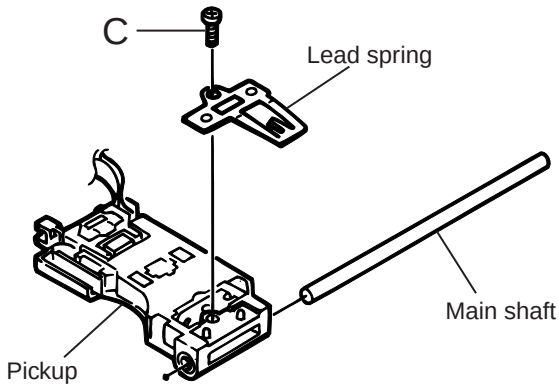


Fig.6

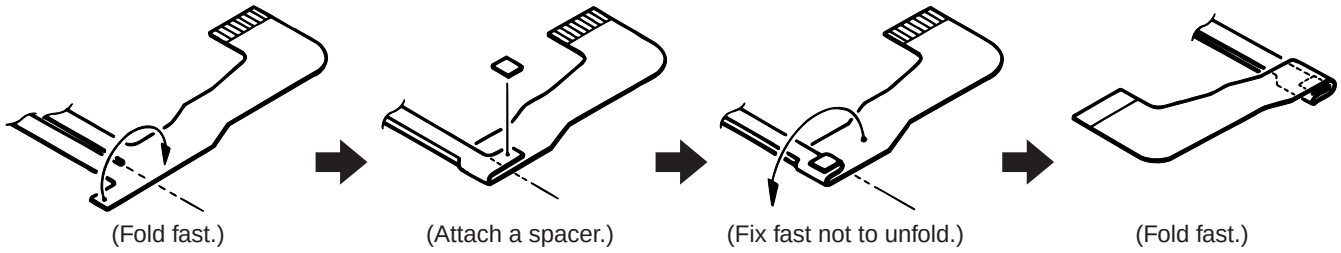


Fig.7

<Reassembling the Pickup Unit>

1. Prior to performing the following procedures, fold the flexible harness of the pickup unit (see Fig.7,8 and 9). Fix the flexible harness with a spacer not to unfold.
2. Attach the U-shaped slot of the pickup marked 'e' to the guide base.
3. For the shaft, firstly attach its shaft base side and next attach its feed motor base side.
4. Attach a spacer to the folded flexible harness and fix the flexible harness to the chassis assembly (see Fig.7, 8).
5. Attach a spacer between the chassis boss and the flexible harness (see Fig.9).
6. Make sure that the flexible harness is folded fast and fixed to the right position.

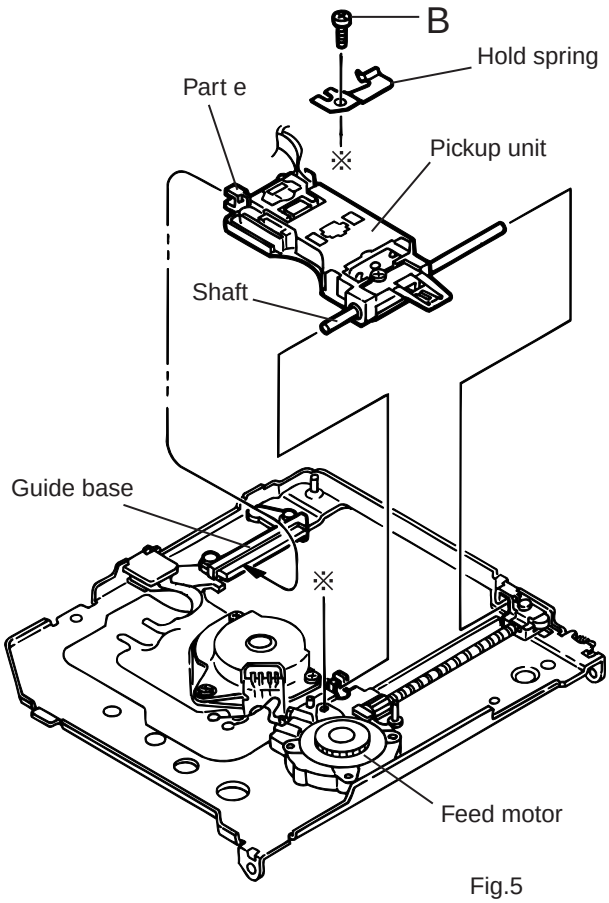


Fig.5

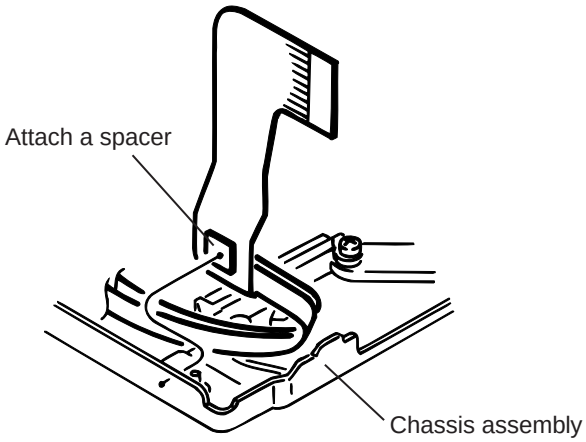


Fig.8

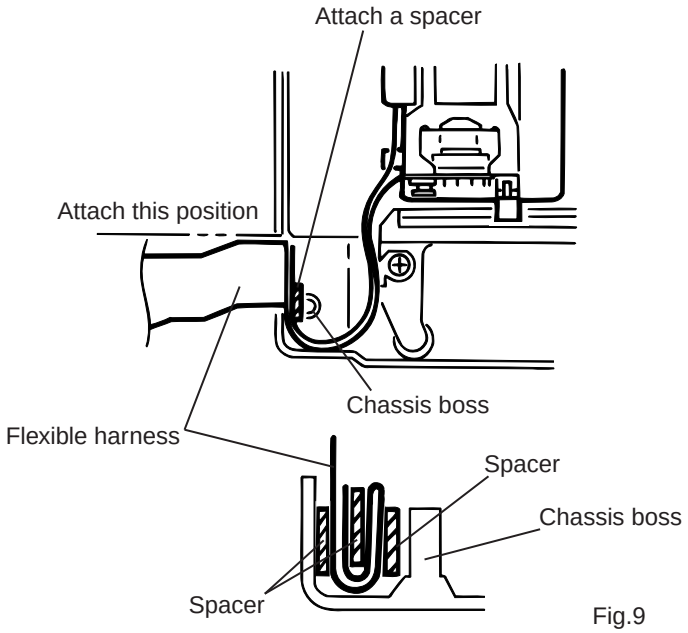


Fig.9

■Removing the Feed Motor/ Screw Shaft Assembly and Wheel Gear

1. Unsolder the two harnesses extending from the feed motor.

2. Remove the screw D attaching the feed motor, then the spring. Remove the feed motor from the feed motor base.

3. Lift the feed motor base and pull out the screw shaft assembly.

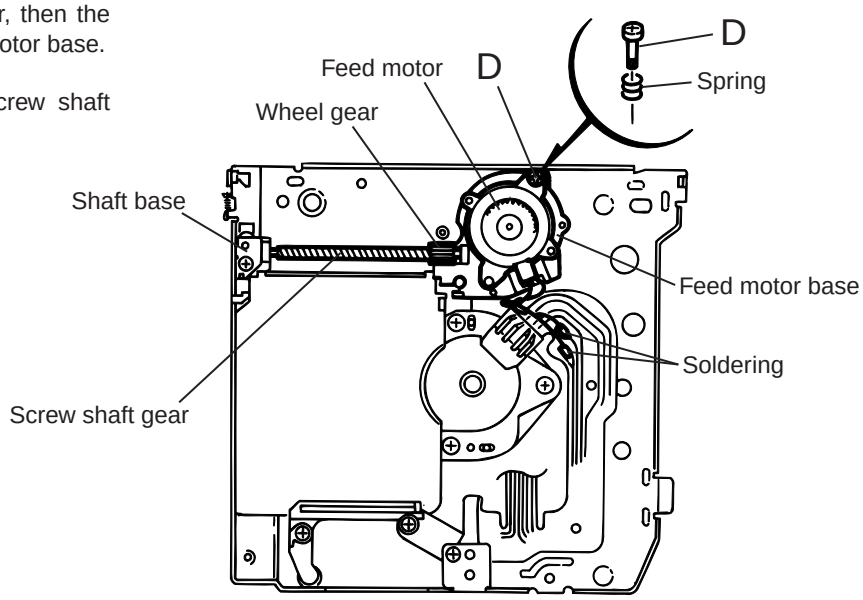


Fig.10

Maintenance of MD Pickup

1. Cleaning of pickup lens

(1) Prior to changing the pickup, clean the pickup lens.

(2) For cleaning the lens, use the following cotton swab after mearsing it in alcohol.

Product No. JCB-B4; Manufacturer;Nippon Cotton Swab

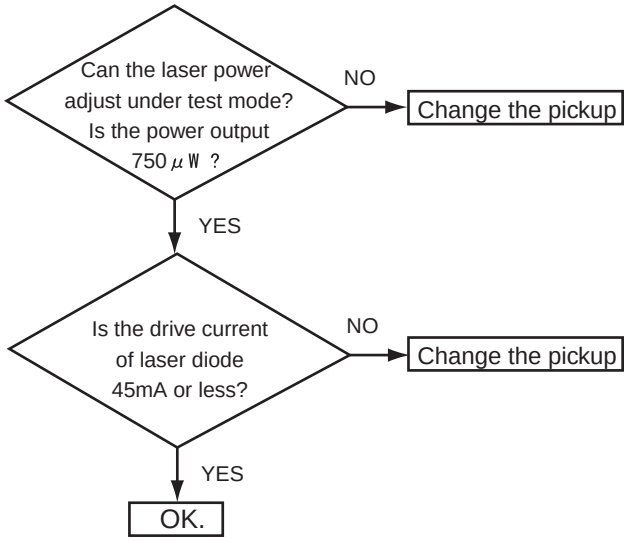
2. Confirmation of the service life of laser diode when the service life of the laser diode has been exhausted, the following symptoms will appear.

(1) Recording will become impossible.

(2) The RF output (EFM output and eye pattern amplitude) will become lower.

(3) The drive current required for light emitting of laser diode will be increased.

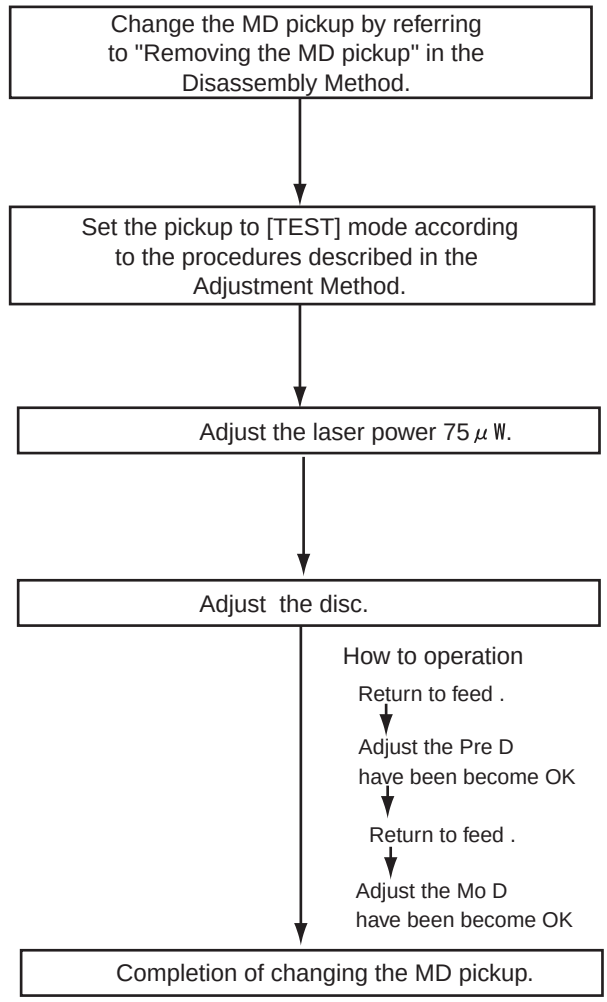
Confirm the service life according to the following flow chart:



3. Method of measuring the drive current of laser diode

When the voltage measured at the both side of carbon resistor R301 on the MD servo P.C. board (VMW2424A) have become 45mV or over, the service life of the laser diode is judged to have been exhausted.

Procedures of Changing the MD pickup



★Since this system is designed to perform magnetic recording, the laser power ten times or over of the conventional MD player will be output. Therefore, be sure to perform not only adjustment and operation of this system so carefully as not to directly look at the laser beam or touch on the body.

4. Semi-solid state resistors on the APC P.C. board

The semi-solid state resistor on the APC P.C.board attached to the pickup is used for adjusting the laser power. Since these resistor should be adjusted in pair according to the characteristics of the optical block, be sure not to touch on the resistors.

Since the service life of the laser diode will be exhausted when the laser power is low, it is necessary to change the pickup. Meanwhile, do not pickup. Otherwise, the pickup will be damaged due to over current.

Self diagnosis Function of MD

Power Supply ---------- Use to a battery charger by more than 1.3volt
Establishment ---------- Set up the horizontal

1. The method of changing to the self-diagnosis mode turns off the power supply of the main body first.
2. The power supply of the main body is turned on while pushing "PLAYMODE +DISPLAY+A.B.BASS "of the remote control unit at the same time.
3. It changes into the self-diagnosis mode, and the self-diagnosis starts.

Test 's Command for the self-diagnosis mode

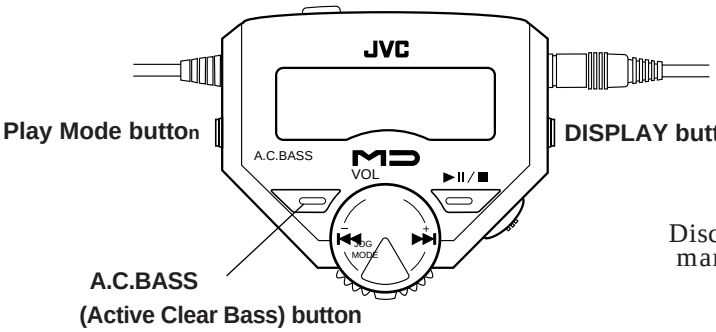
Command	data1	data2	data3	data4	data5	data6	data7
Ope.mode	State	PLY P	REC P	EEP R	EEP S	P D	M D

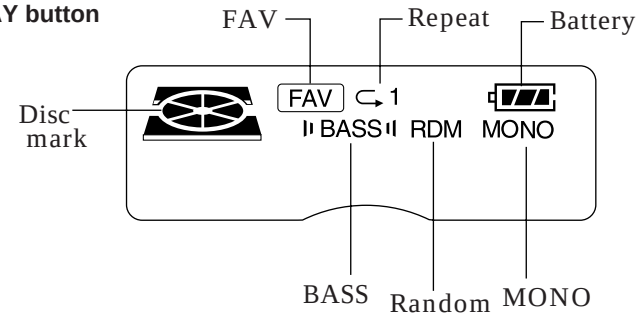
=00: Wait to Test command
=DD: Going to Resume's EEPROM initialize
=DE: Going to servo's EEPROM initialize
=E2: Turn on the leaser of PLAY
=D3: Turn up the laser
=D4: Turn down the laser
=D1: Turn off the laser
=D5: Rewind to the FEED
=D6: Adjust to the PRE DISC
=D7: Adjust to the MO DISC
=92: Break out the trouble → The following are displayed and it stops at the NG generation.

The KEY input afterwards is disregarded.

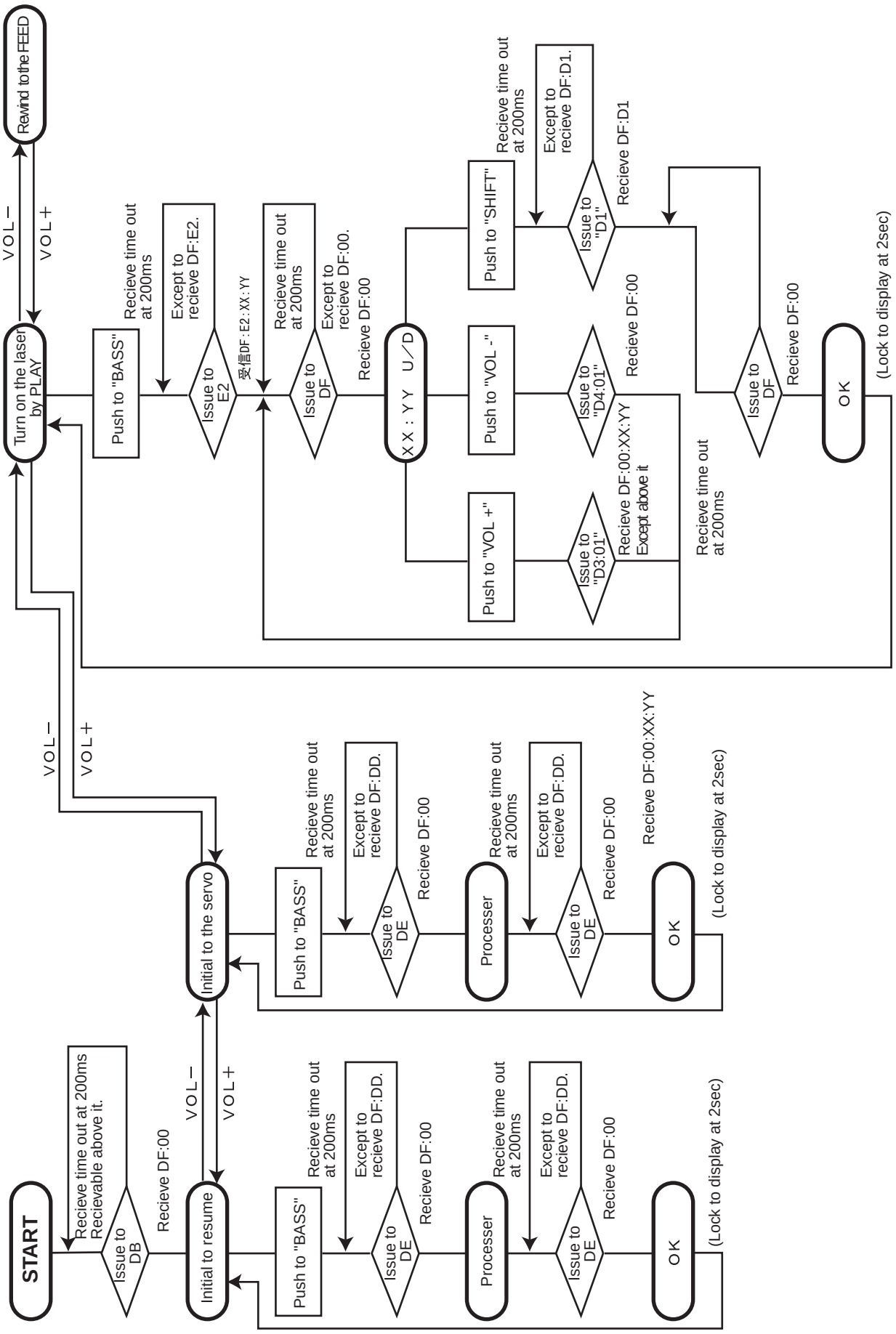
NG

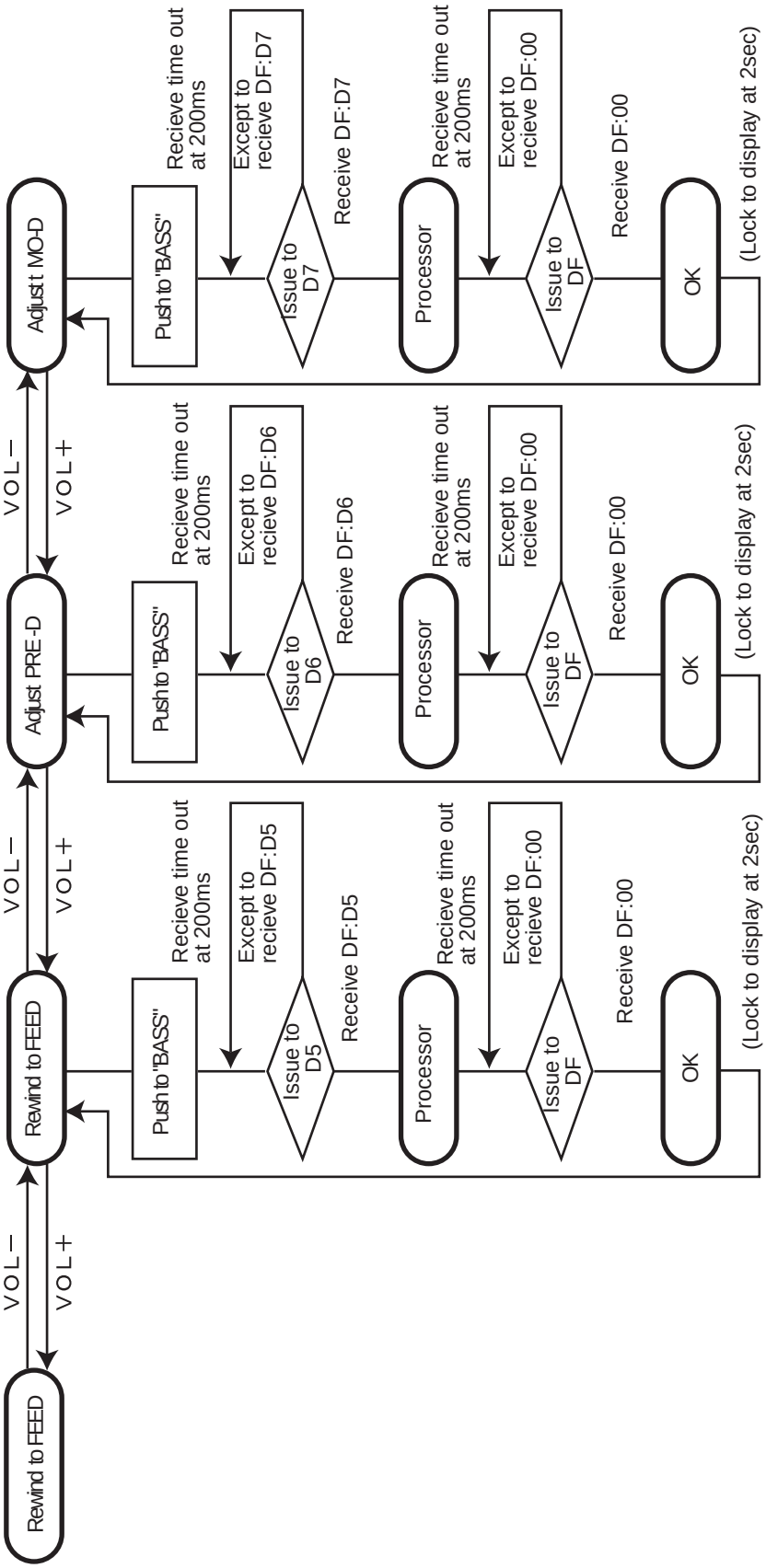
[Indicators on the display of the remote control]



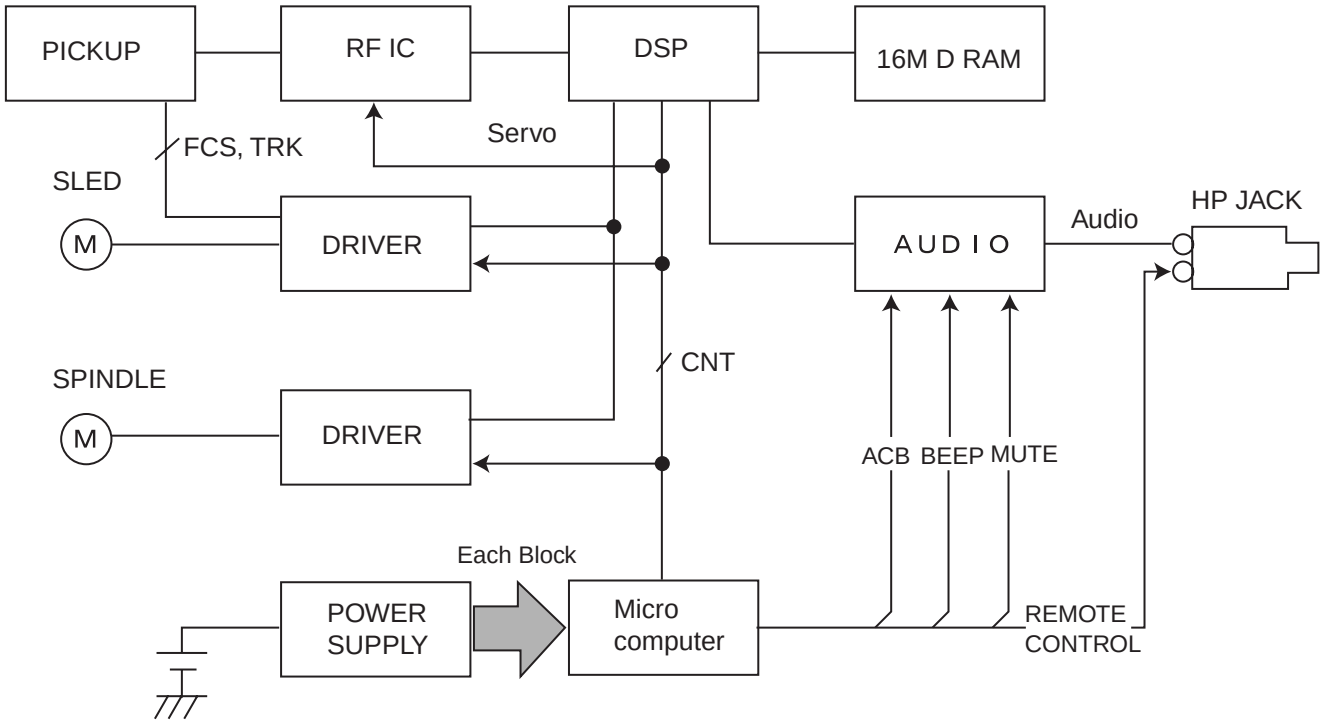


Self-diagnosis Fllow Chart

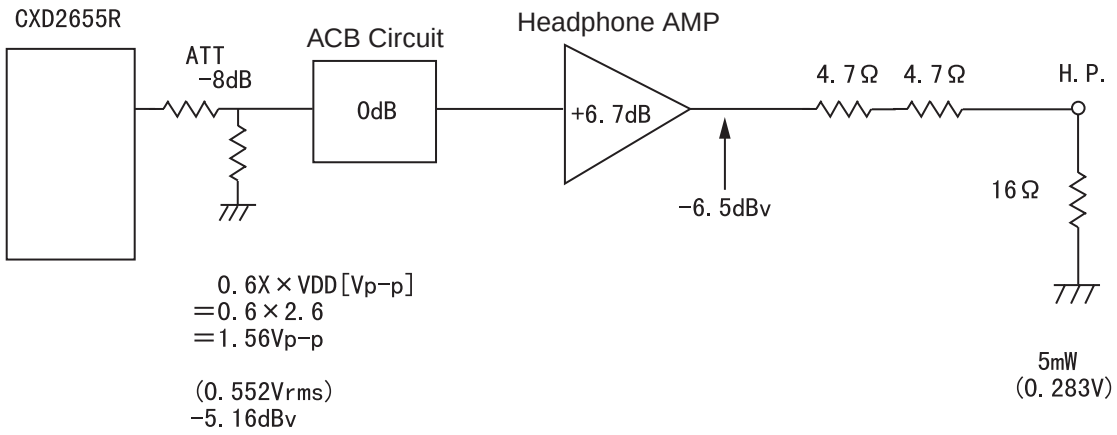



Rewind to FEED
VOL−
VOL+
Rewind to FEED
Push to "BASS"
Recieve time out at 200ms
Except to recieve DF:D5
Issue to D5
Receive DF:D5
Processor
Recieve time out at 200ms
Except to recieve DF:00
Issue to DF
Receive DF:00
OK
(Lock to display at 2sec)
VOL−
VOL+
Adjust PRE-D
Push to "BASS"
Recieve time out at 200ms
Except to recieve DF:D6
Issue to D6
Receive DF:D6
Processor
Recieve time out at 200ms
Except to recieve DF:00
Issue to DF
Receive DF:00
OK
(Lock to display at 2sec)
VOL−
VOL+
Adjust MID
Push to "BASS"
Recieve time out at 200ms
Except to recieve DF:D7
Issue to D7
Receive DF:D7
Processor
Recieve time out at 200ms
Except to recieve DF:00
Issue to DF
Receive DF:00
OK
(Lock to display at 2sec)

Block Diagrams



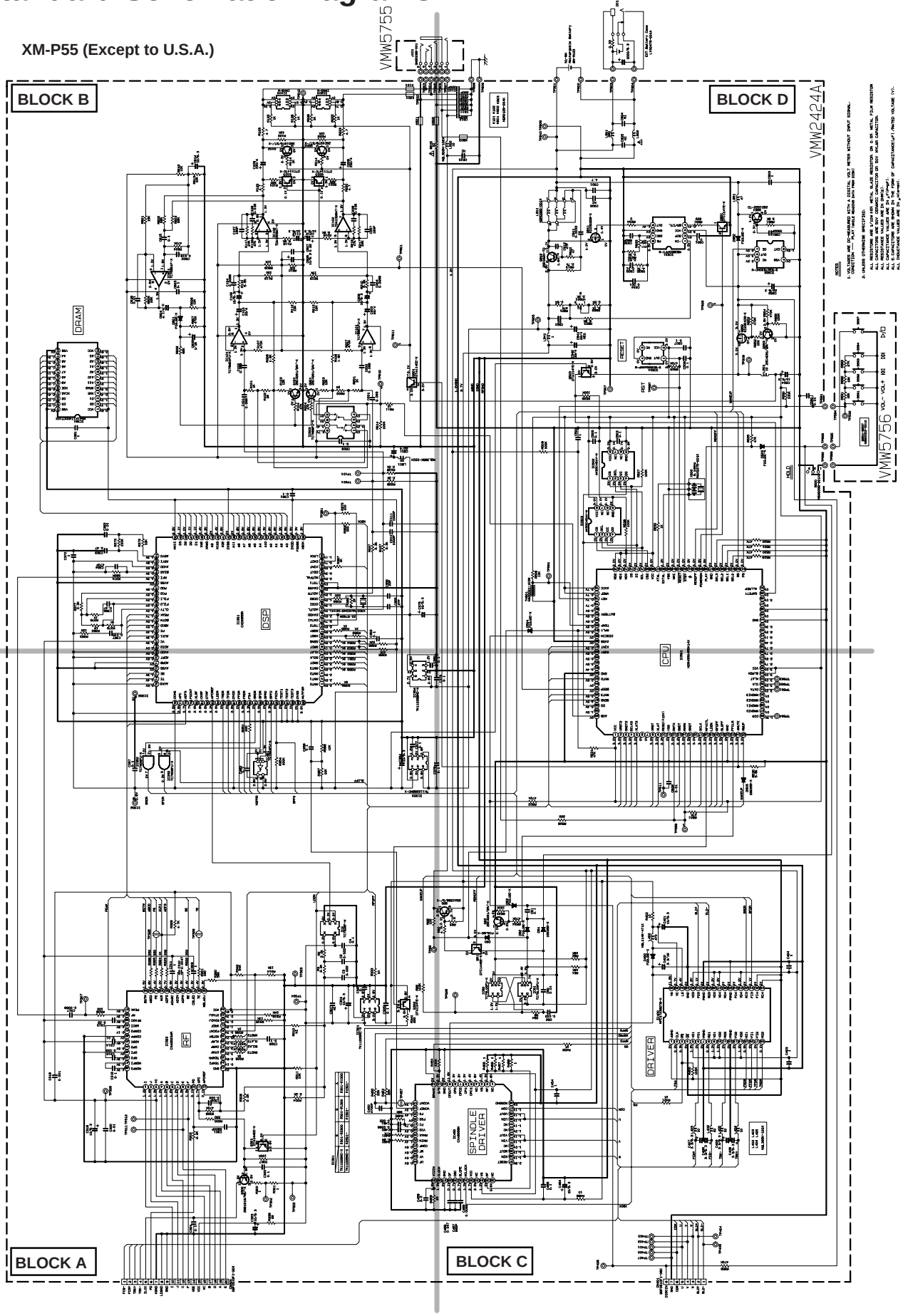
LEVEL DIAGRAM



-MEMO-

Standard Schematic Diagrams

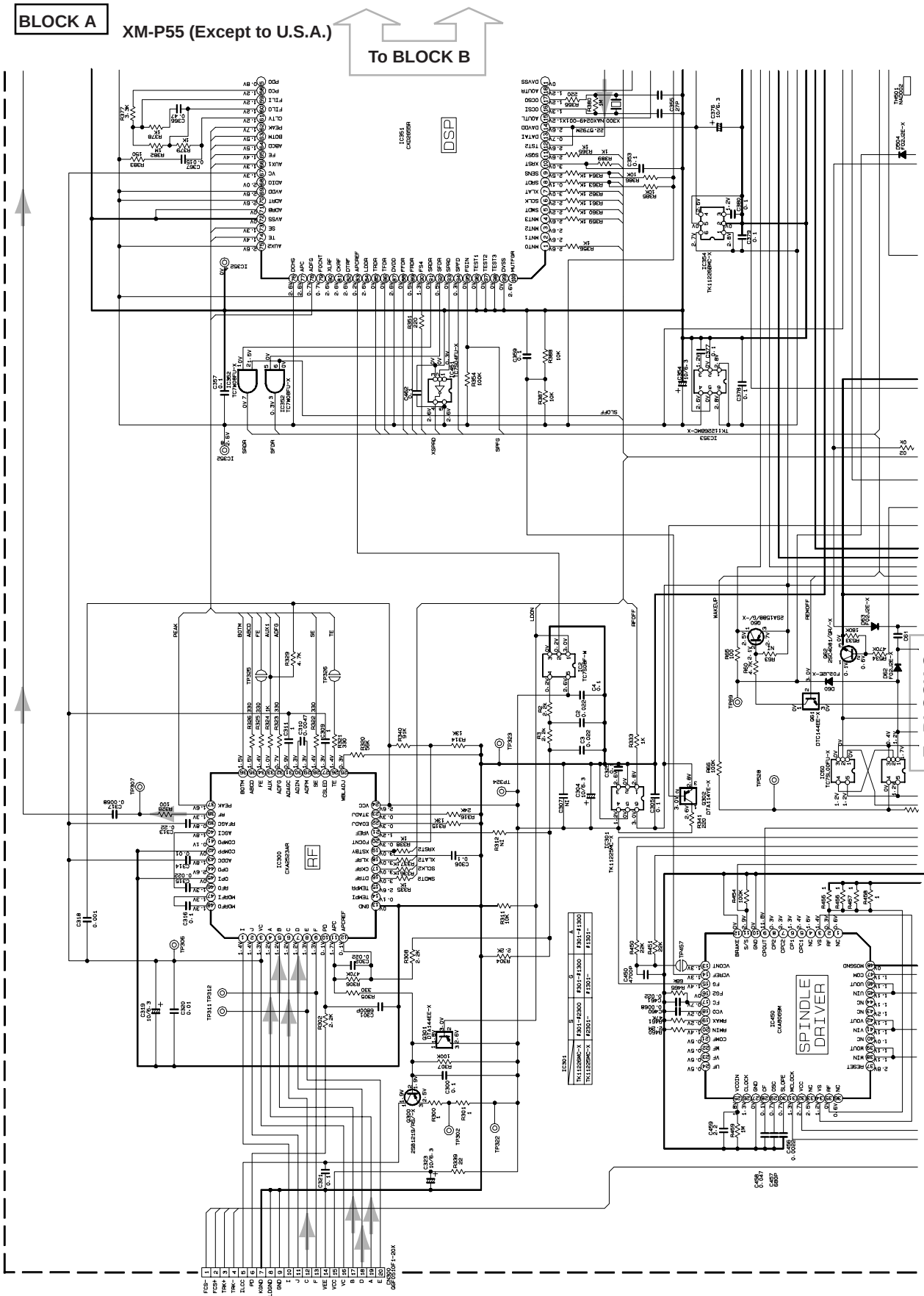
XM-P55 (Except to U.S.A.)



BLOCK A

XM-P55 (Except to U.S.A.)

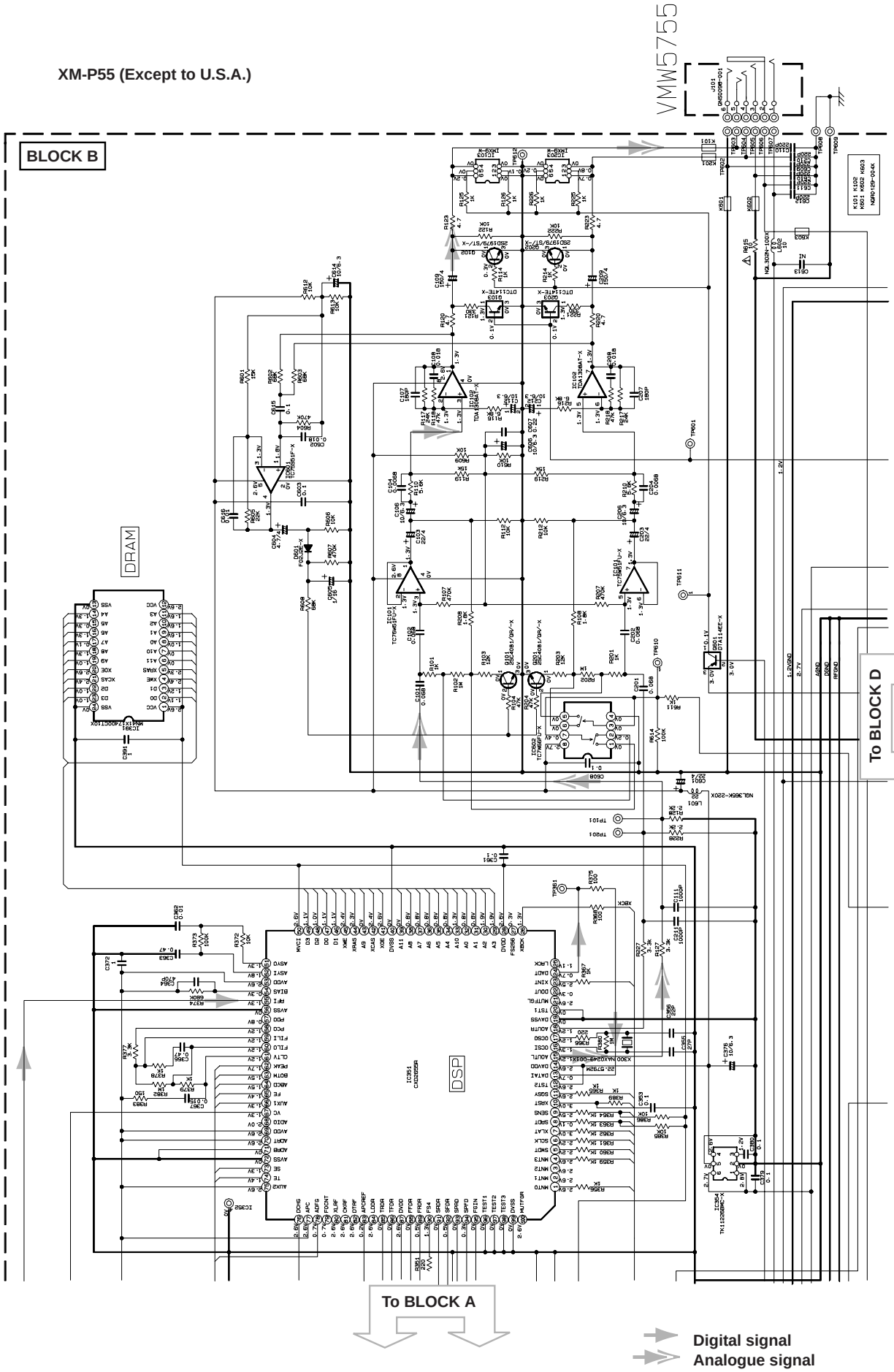
To BLOCK B



To BLOCK C

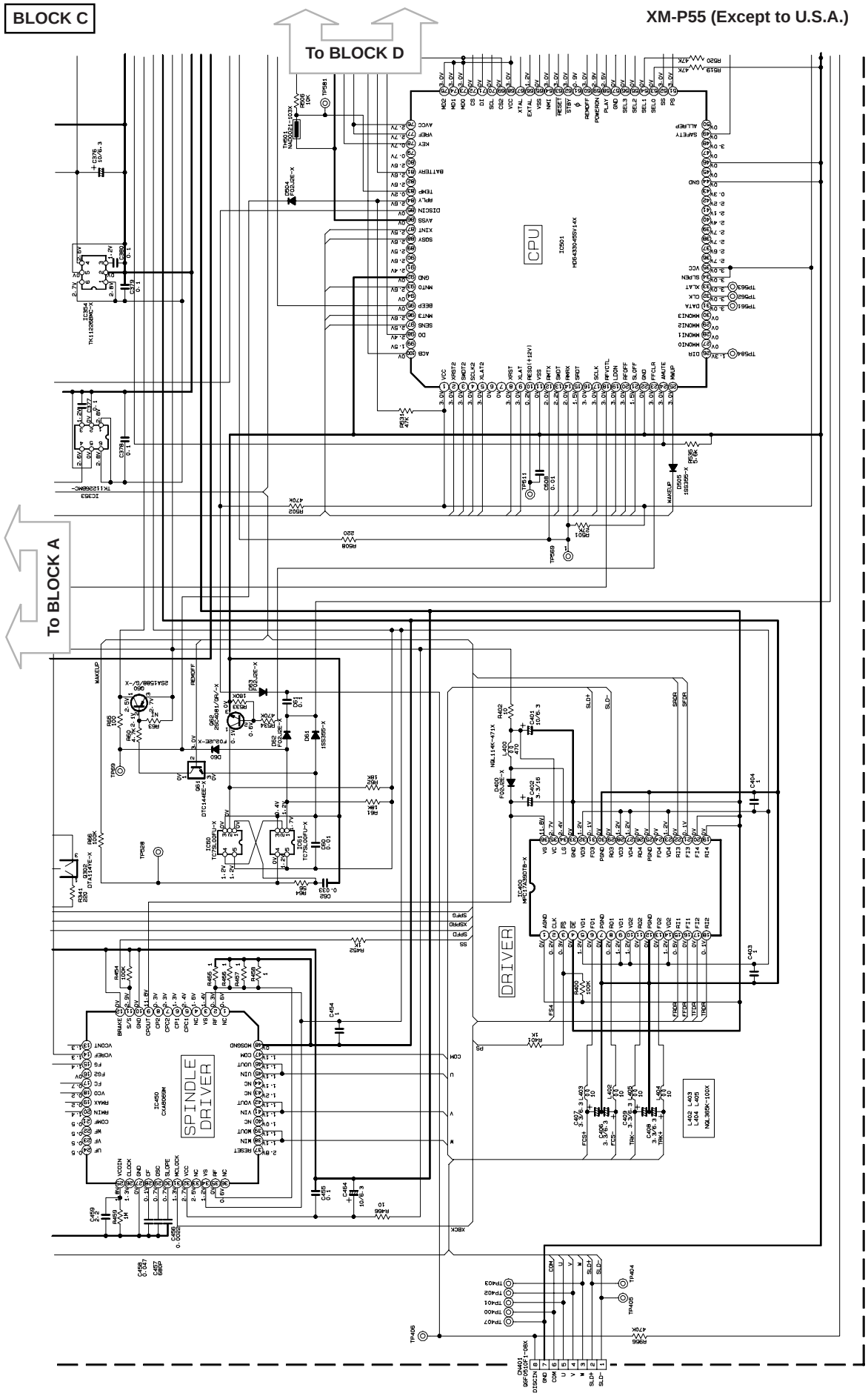
Digital signal

XM-P55 (Except to U.S.A.)

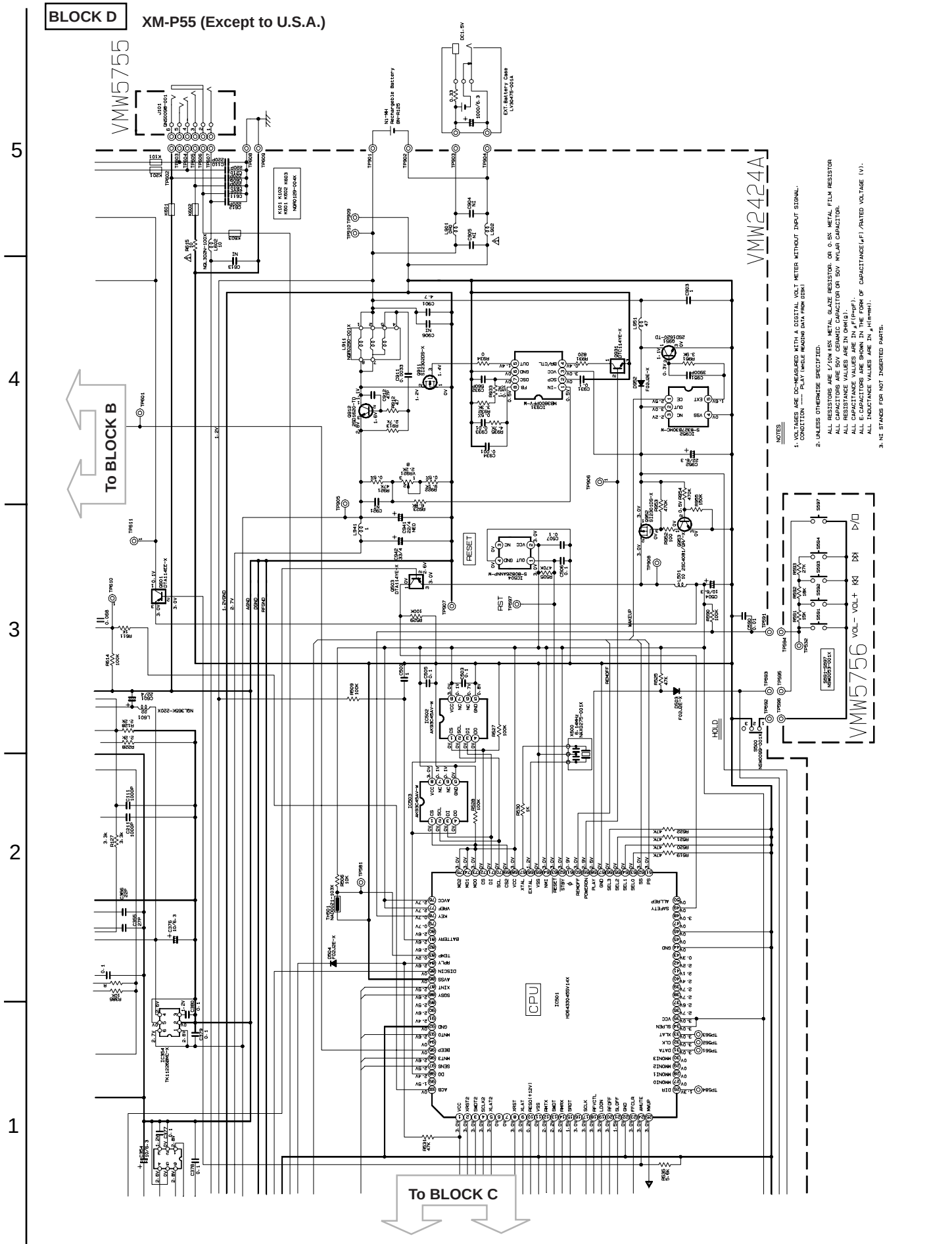


BLOCK C

XM-P55 (Except to U.S.A.)

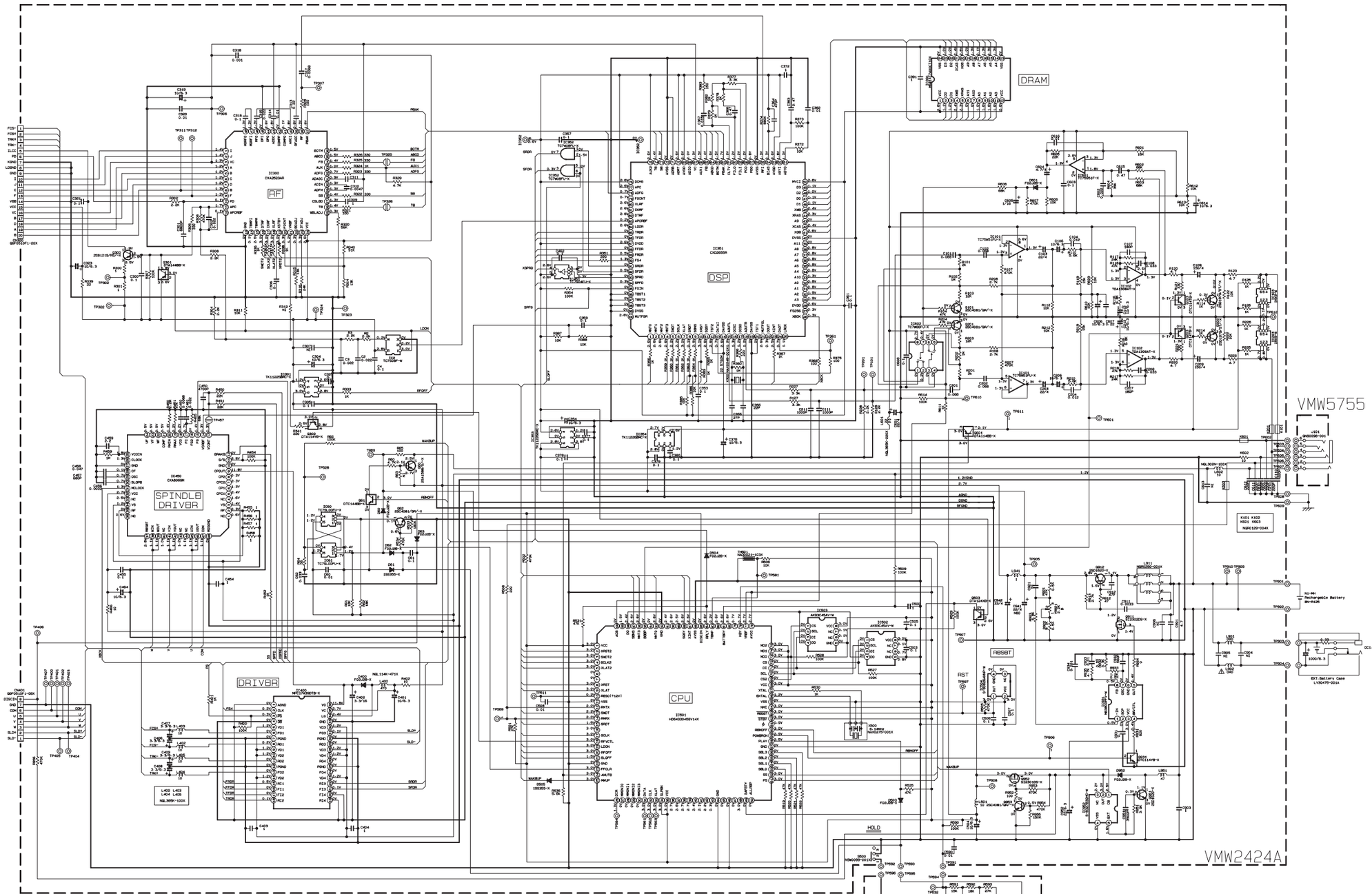


BLOCK D **XM-P55 (Except to U.S.A.)**



-MEMO-

XM-P55J ONLY



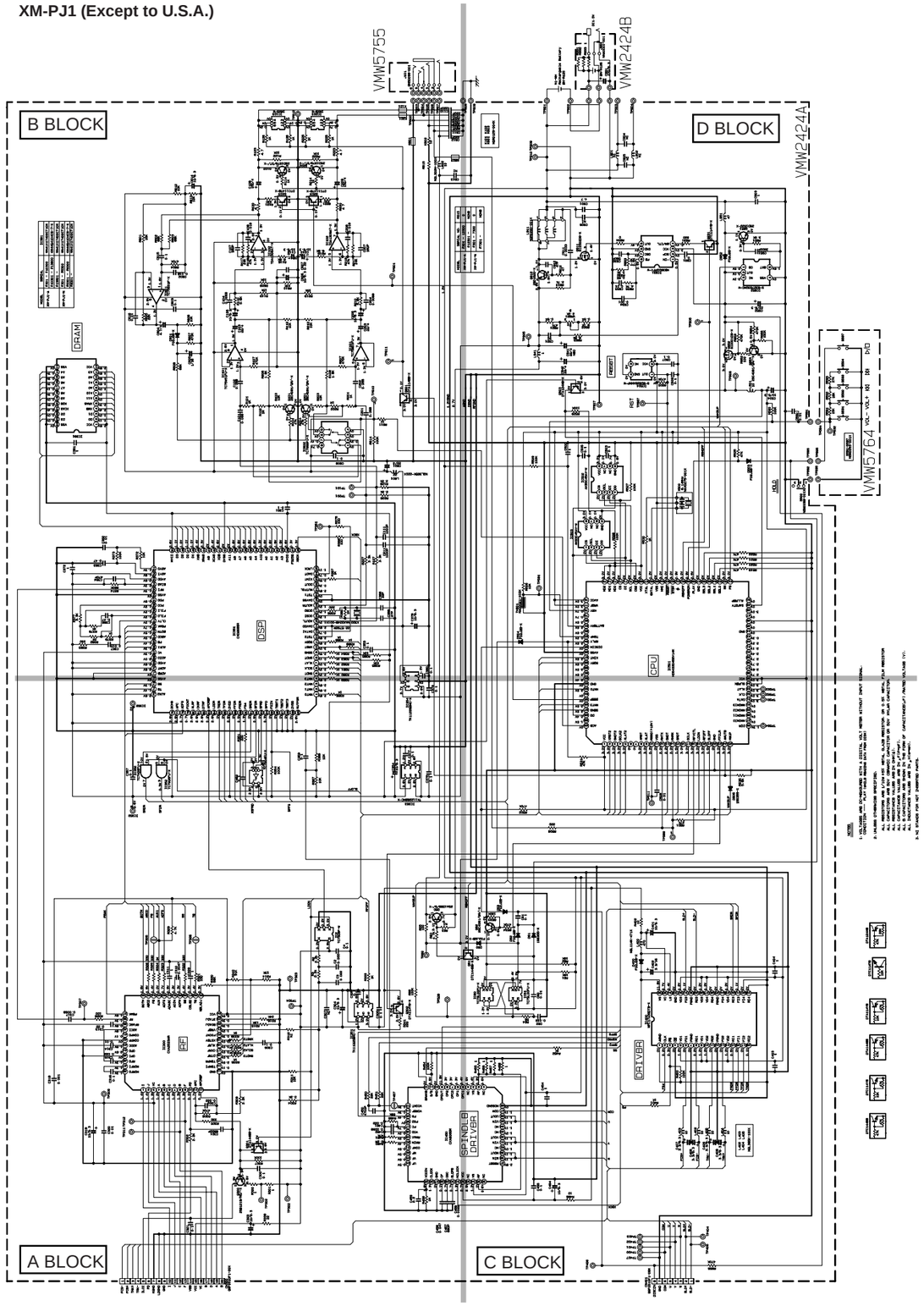
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION ---- PLAY (MUSIC READING DATA FROM DISK)

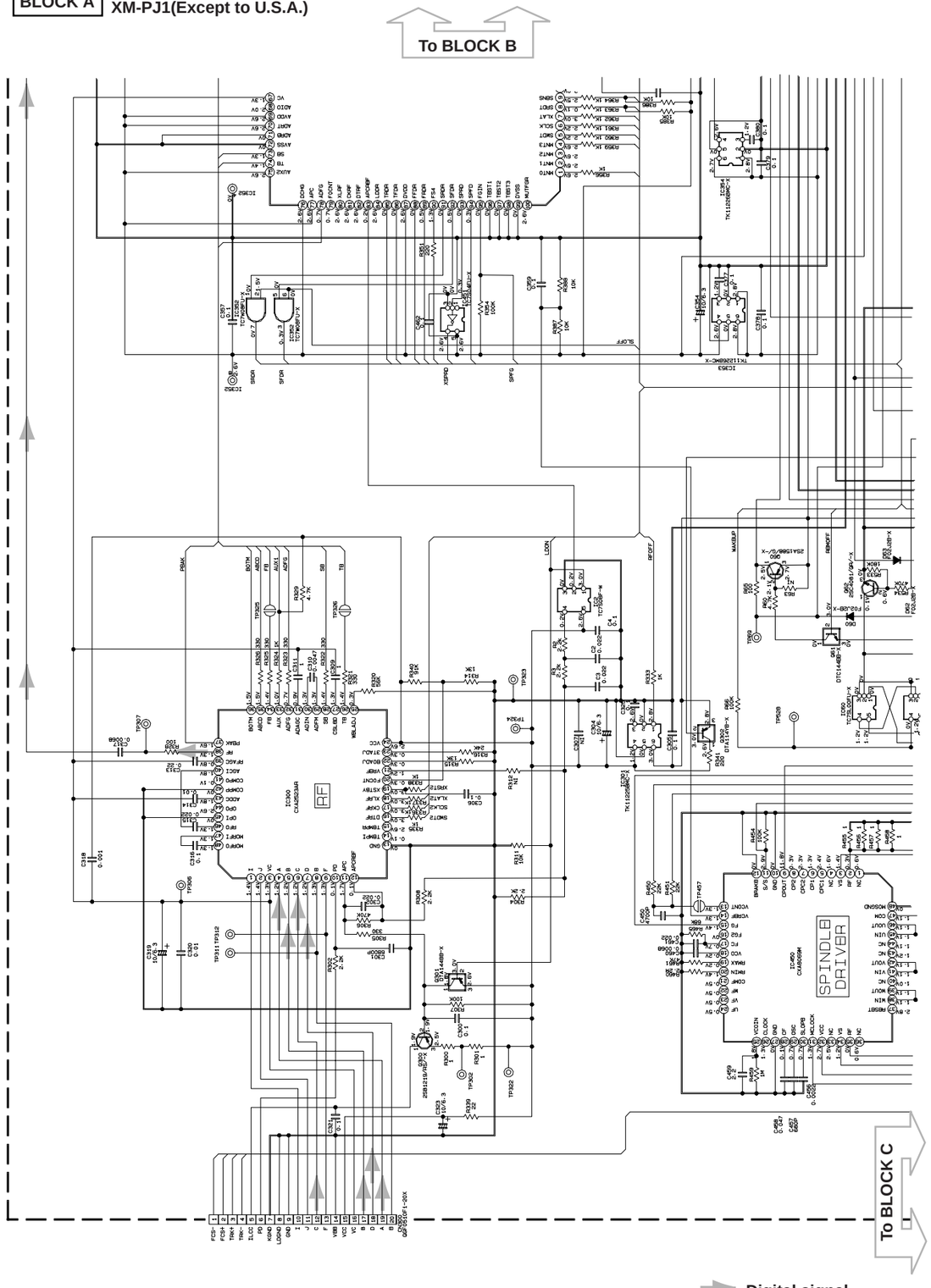
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL FILM RESISTOR
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(PF=pF).
   ALL B CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) /RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(mH=mH).

3. NI STANDS FOR NOT INSERTED PARTS.

XM-PJ1 (Except to U.S.A.)

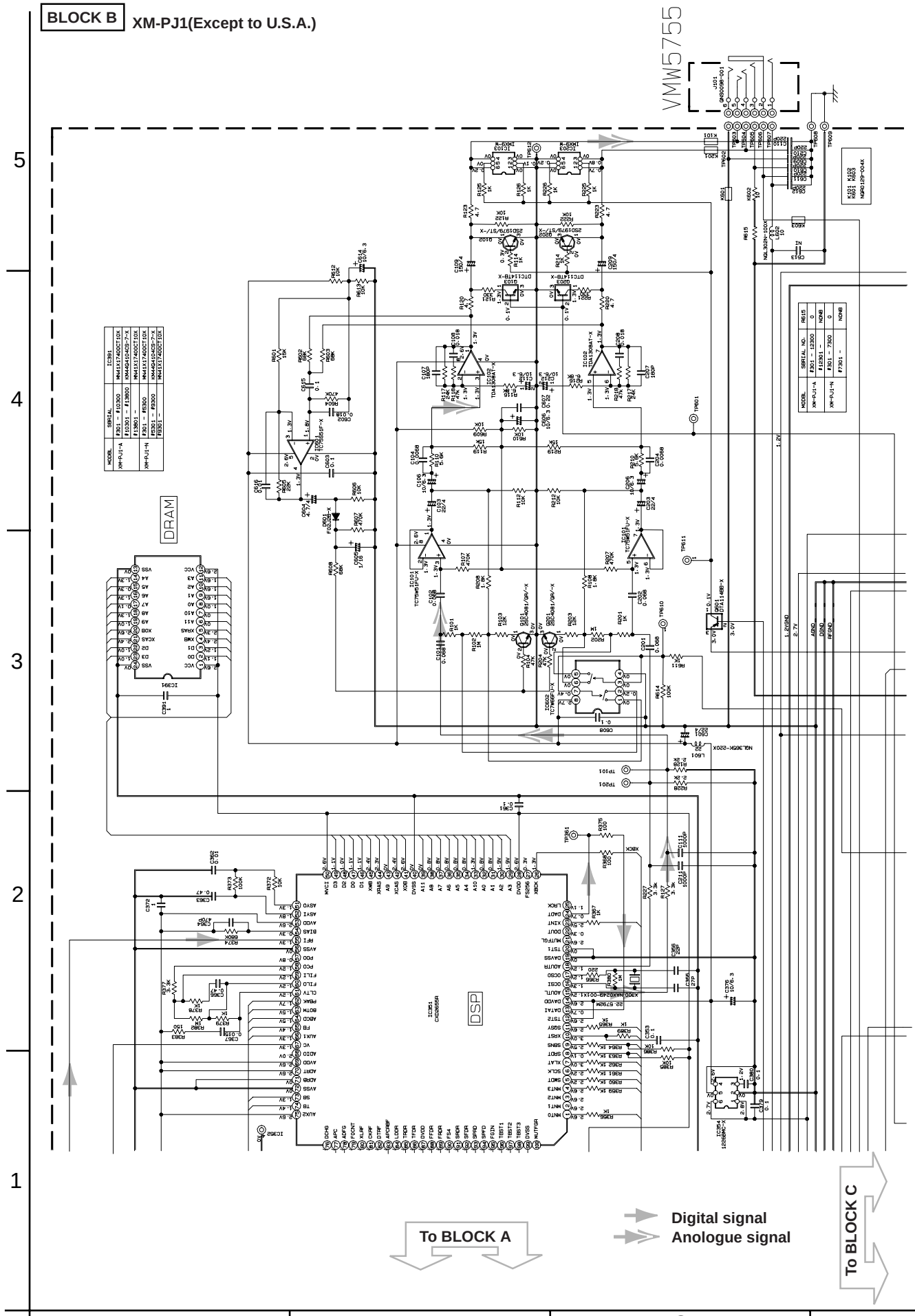


BLOCK A **XM-PJ1(Except to U.S.A.)**

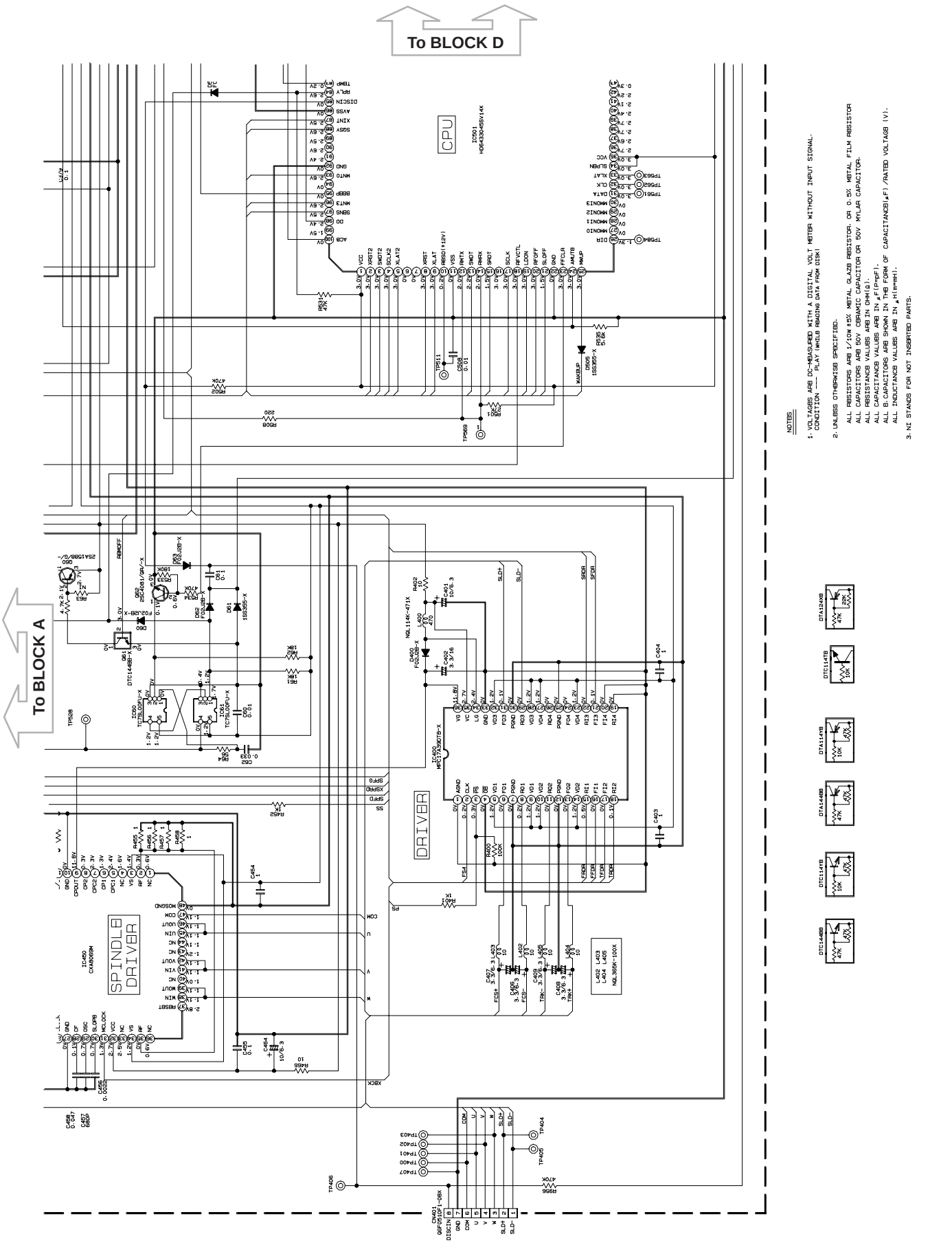


Digital signal

BLOCK B **XM-PJ1(Except to U.S.A.)**

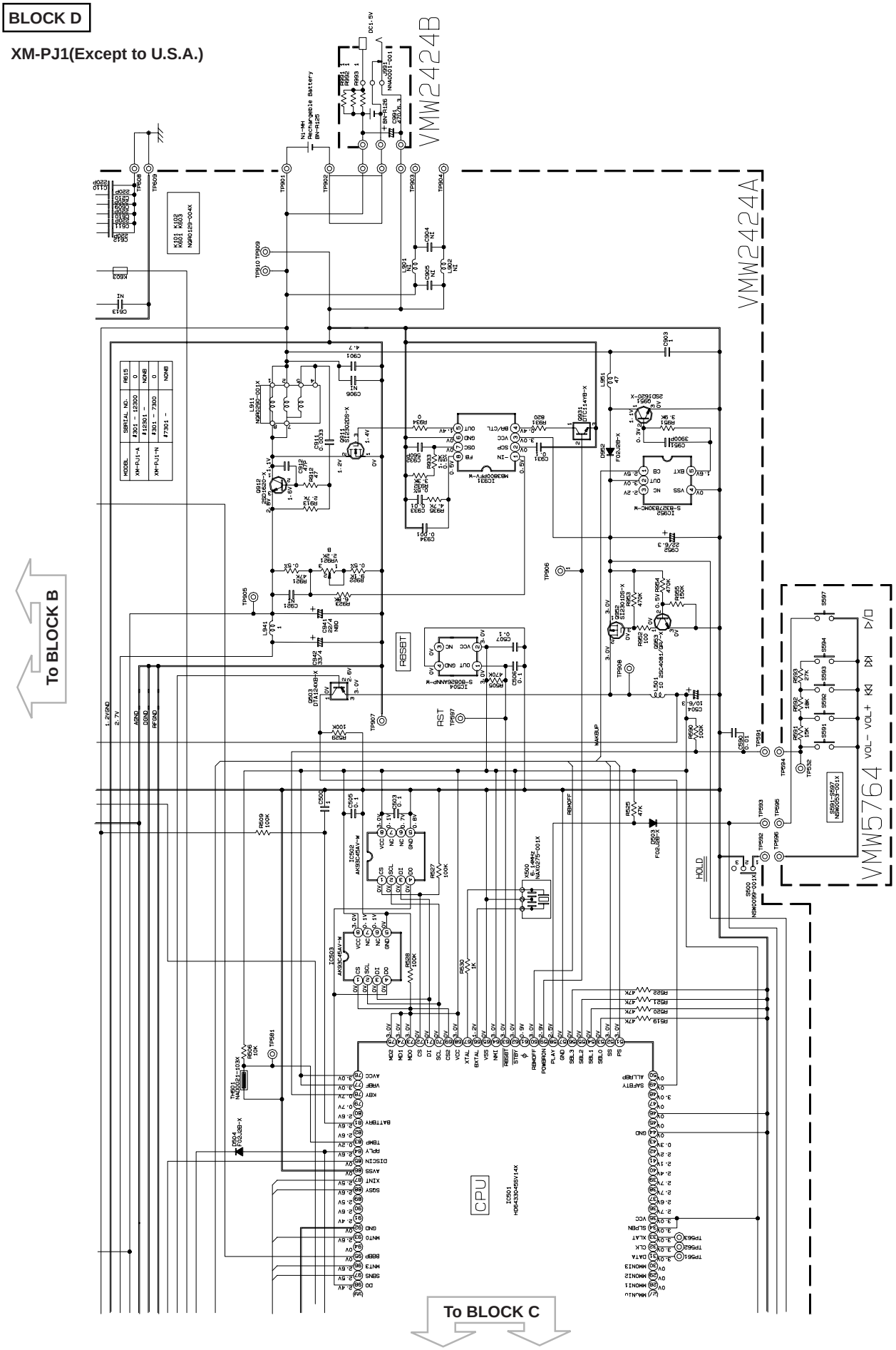


BLOCK C **XM-PJ1(Except to U.S.A.)**



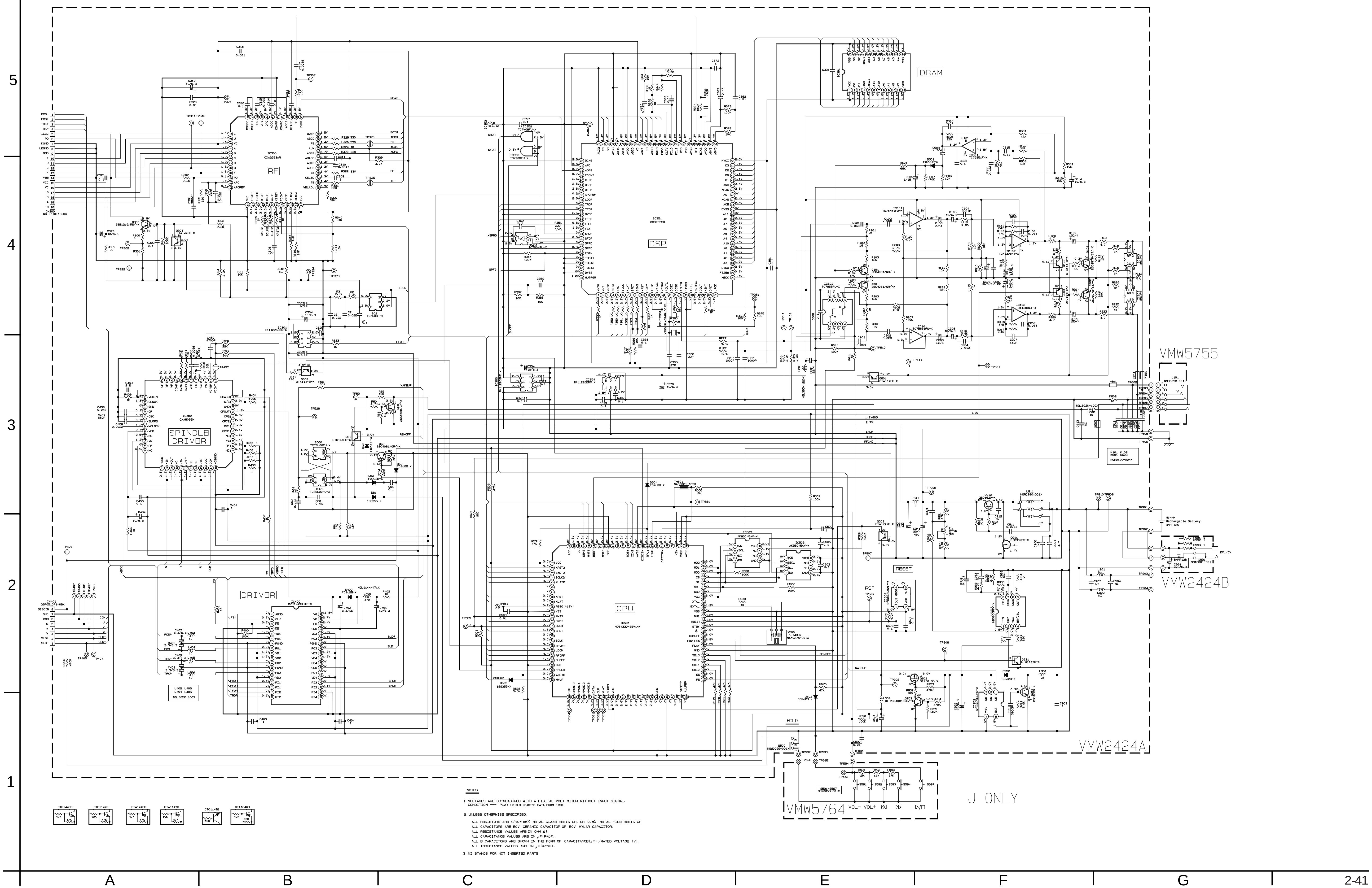
BLOCK D

XM-PJ1(Except to U.S.A.)



-MEMO-

XM-PJ1 J ONLY



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- PLAY (WHILE READING DATA FROM DISK)

2. UNLESS OTHERWISE SPECIFIED.
   - ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL FILM RESISTOR
   - ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   - ALL RESISTANCE VALUES ARE IN OHM(Ω).
   - ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   - ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   - ALL INDUCTANCE VALUES ARE IN μH(m=mH).

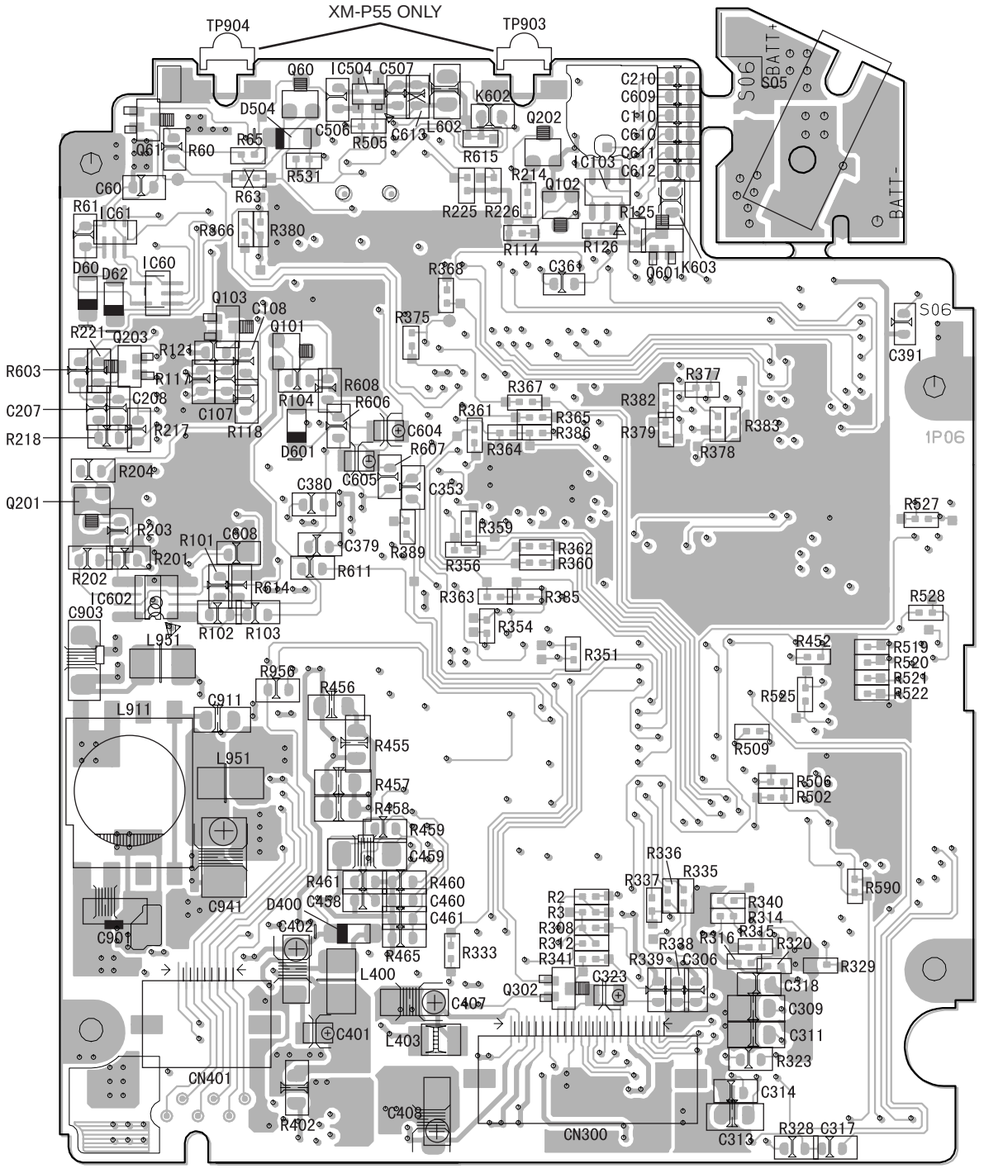
3. NI STANDS FOR NOT INSERTED PARTS.

Printed Circuit Boards

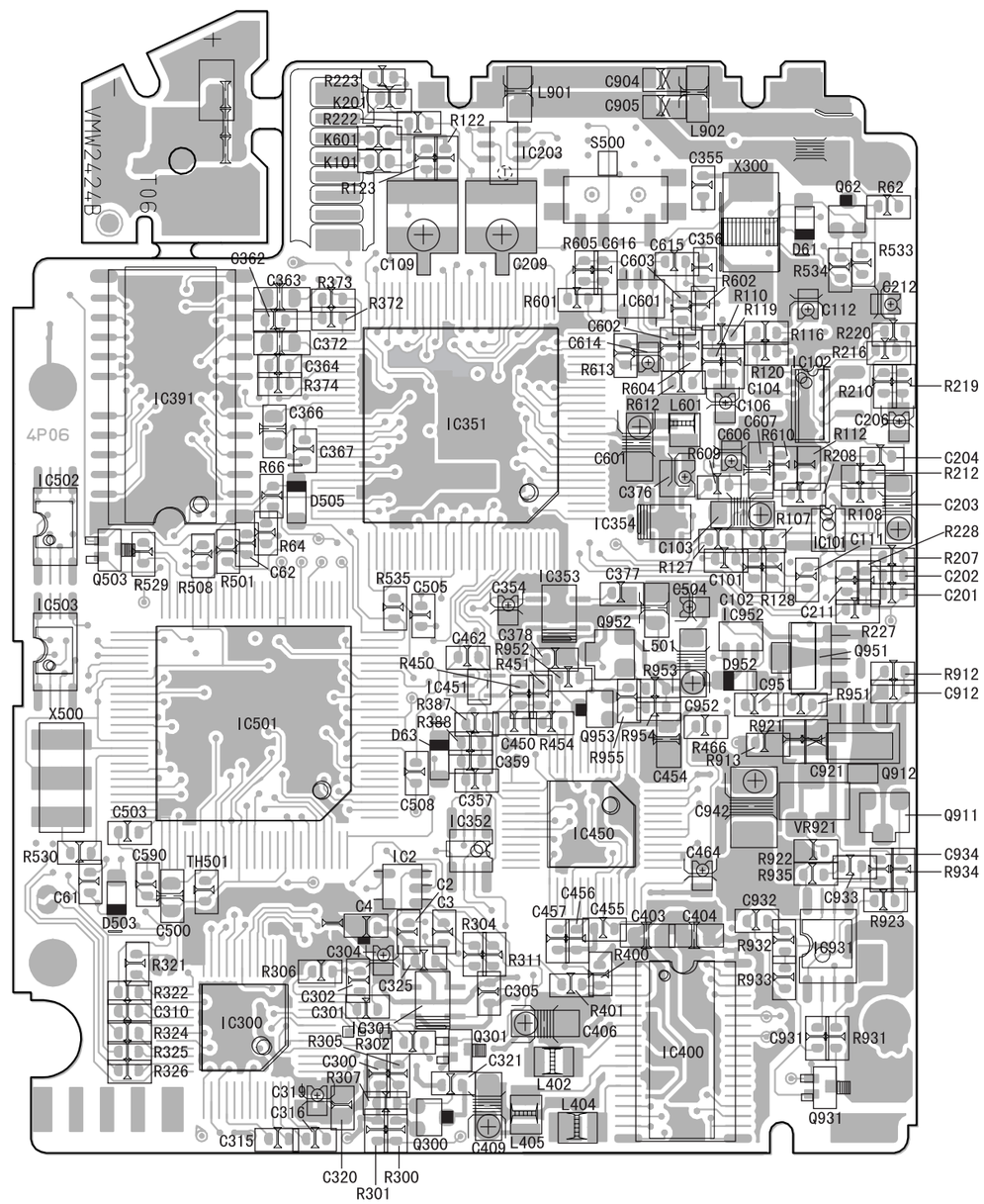
■Main board Block No. 0 1

: chip parts

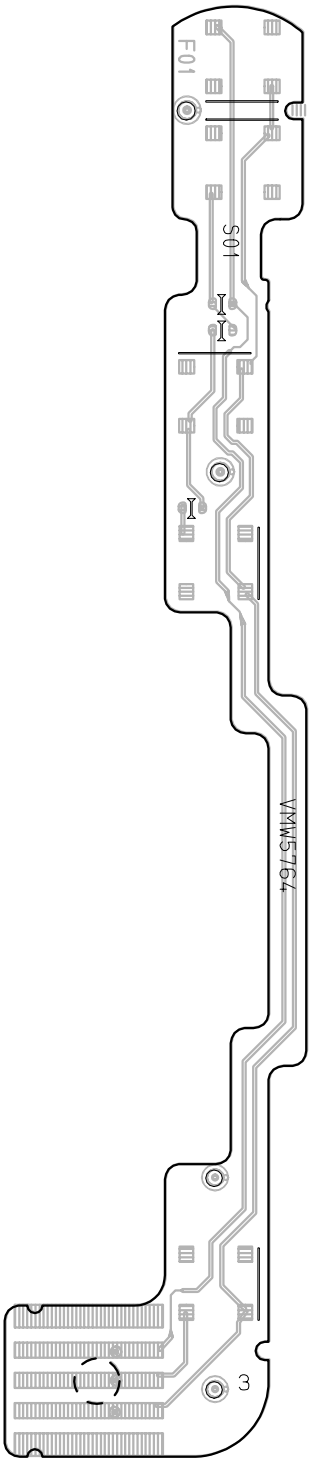
(Parts side)



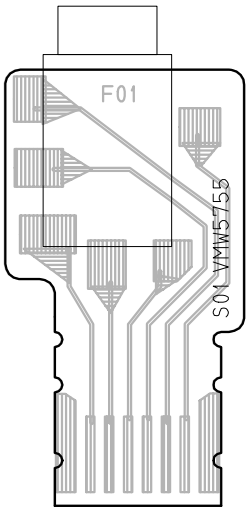
(Solder side)



■Switch Board Block No. 0 3



■Headphone Jack Board Block No. 0 2



-MEMO-

PARTS LIST

[XM-P55]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix

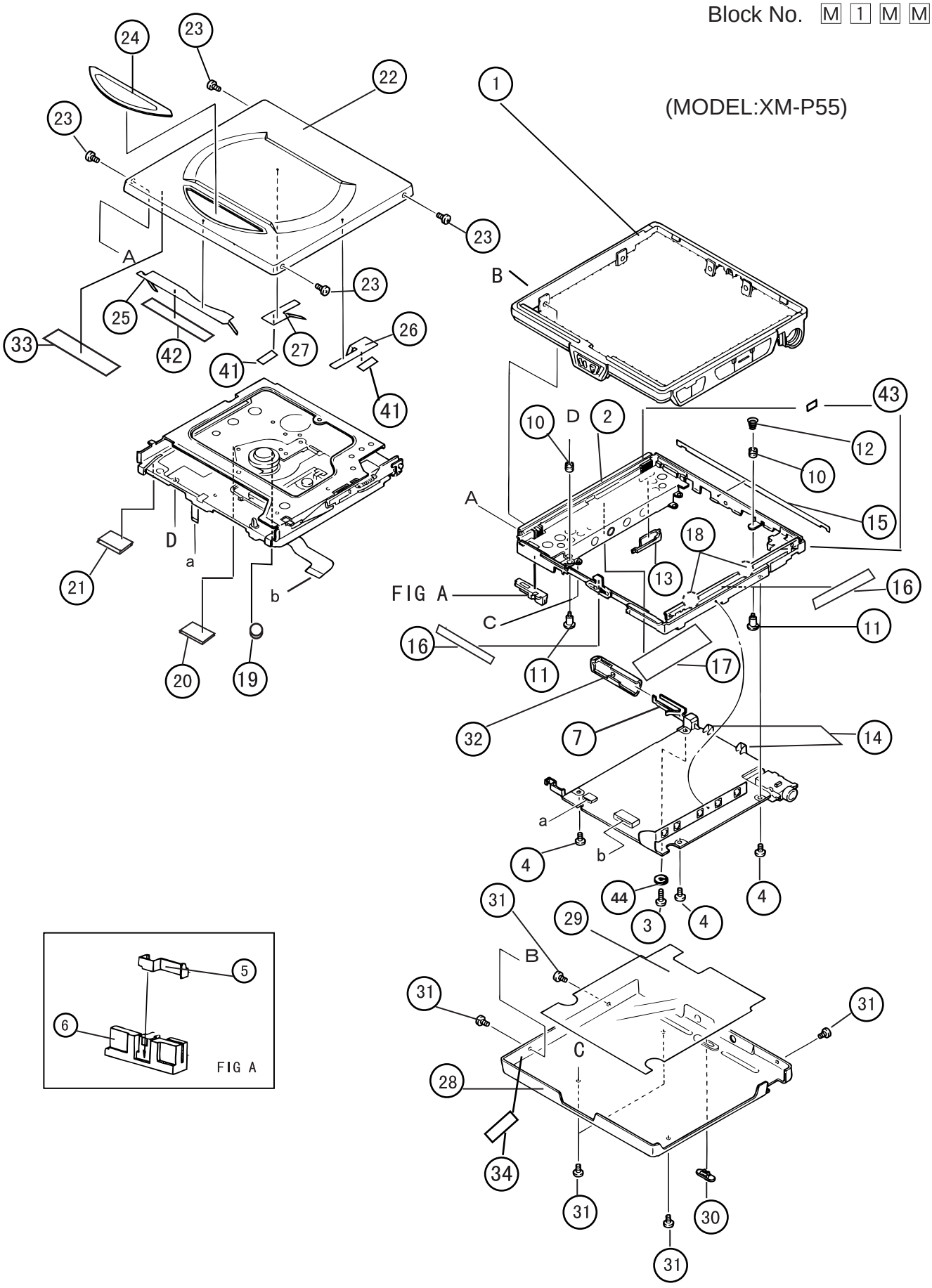
B	U.K. (BU,SL)
E	Continental Europe (BU,SL)
EE	Russian Federation (BU,SL)
EN	Northern Europe (BU,SL)
J	U.S.A. (SL)
UB	Hong kong (BU,GN,SL)
US	Singapore (BU,SL)
UT	Taiwan (SL)
UX	Saudi Arabia (SL)
UY	Argentina (SL)

- Contents -

General Exploded View and Parts List

Block No. M 1 M M

(MODEL:XM-P55)



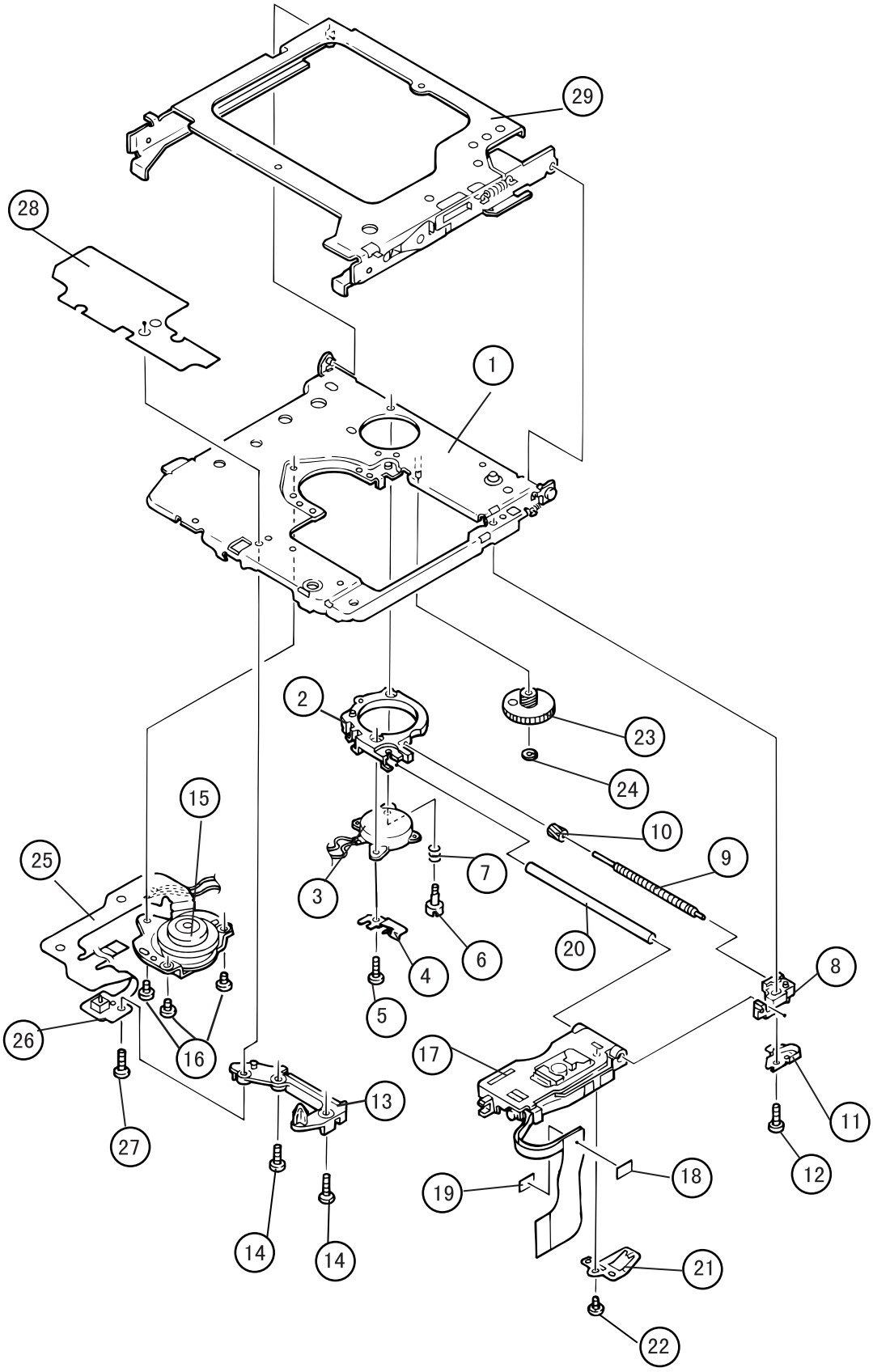
BLOCK NO. M1MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	LV20136-004A	CABINET ASSY		1		GN
		LV20136-003A	CABINET ASSY		1		SL
		LV20136-004A	CABINET ASSY		1		BU
	2	LV30454-002A	FRAME ASS'Y		1		
	3	QYSPSPU1435N	MINI SCREW		1		
	4	VKZ4616-008	SCREW		3		
	5	LV30465-004A	BATT.CONTACT (A		1		
	6	LV30468-002A	CONTACT BASE (A		1		
	7	LV30883-001A	BATT.CONT ASSY		1		
	10	LV40400-001A	CUSHION		2		
	11	LV40406-001A	SPECIAL SCREW		2		
	12	LV40573-001A	EARTH SPRING		1		
	13	LV30476-002A	LID CATCHER		1		
	14	LV40404-002A	EXT.DC TERMINAL		2		
	15	LV40605-001A	BLIND		1		
	16	LV40659-001A	PROTECTOR		2		
	17	LV40659-002A	PROTECTOR		1		
	18	LV40660-001A	PROTECTOR		2		
	19	LV40660-002A	PROTECTOR		1		
	20	LV40661-003A	PROTECTOR		1		
	21	VYSA1R3-038	SPACER		1		
	22	LV30458-013A	MD DOOR ASS'Y		1		GN
		LV30458-011A	MD DOOR ASS'Y		1		SL
		LV30458-012A	MD DOOR ASS'Y		1		BU
	23	VKZ4616-008	SCREW		4		
	24	LV40401-005A	LENS		1		SL
		LV40401-005A	LENS		1		GN
		LV40401-004A	LENS		1		BU
	25	LV40402-002A	DOOR SPRING(A)		1		
	26	LV40403-002A	DOOR SPRING(B)		1		
	27	LV40403-004A	DOOR SPRING(B)		1		
	28	LV10086-010A	BOTTOM COVER		1		BU
		LV10086-009A	BOTTOM COVER		1		SL
		LV10086-011A	BOTTOM COVER		1		GN
	29	LV40405-001A	INSULATOR		1		
	30	LV30471-001A	HOLD KNOB		1		
	31	VKZ4616-008	SCREW		6		
	32	LV30470-007A	BATTERY LID		1		SL
		LV30470-009A	BATTERY LID		1		GN
		LV30470-008A	BATTERY LID		1		BU
	33	VPZ4011-007	SERIAL LABEL		1	E,EE,EN	
		VPZ4011-007	SERIAL LABEL		1	B,UB,US,UT	
		VPZ4011-007	SERIAL LABEL		1	UX,UY	
	34	VYSS1R1-102	SPACER		1		
	41	LV40868-001A	D.F.SHEET		2		
	42	LV30260-001A	D.F. SHEET		1		
	43	LV40707-001A	D.F. SHEET		1		
	44	WLS1400N	WASHER		1		

MD Mechanism Ass'y and Parts List

Block No. M 2 M M

(MODEL:PPM)



BLOCK NO. M2MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	LV30478-006A	CHASSIS ASS'Y		1		
	2	LV30417-002A	FEED M. BASE		1		
	3	QAR0052-002	FEED MOTOR		1		
	4	LV40601-001A	HOLD SPRING		1		
	5	LV40500-001A	SPECIAL SCREW	(M1.4X3.0,N)	1		
	6	LV40602-001A	SPECIAL SCREW		1		
	7	LV40603-001A	COMP.SPRING		1		
	8	LV30418-001A	SHAFT BASE		1		
	9	LV40371-001A	SCREW SHAFT		1		
	10	LV40368-002A	WHEEL GEAR		1		
	11	LV40365-001A	SPRING PLATE		1		
	12	LV40500-001A	SPECIAL SCREW	(M1.4X3.0,N)	1		
	13	LV20121-003A	GUIDE BASE		1		
	14	LV40500-001A	SPECIAL SCREW	(M1.4X3.0,N)	2		
	15	QAR0053-001	SPINDLE MOTOR		1		
	16	LV40501-001A	SPECIAL SCREW	(M1.4X1.6,N)	3		
	17	QAL0114-001SA	PICK UP		1		
	18	LV40690-001A	SPACER		2		
	19	LV40657-001A	SPACER		1		
	20	LV40370-001A	MAIN SHAFT		1		
	21	LV40374-001A	LEAD SPRING		1		
	22	LV40501-001A	SPECIAL SCREW	(M1.4X1.6,N)	1		
	23	LV40369-001A	WORM GEAR		1		
	24	WDM082520	SLIT WASHER		1		
	25	VMW2967-001	PW BOARD		1		
	26	NSW0091-001X	DETECT SWITCH		1		
	27	LV40500-001A	SPECIAL SCREW	(M1.4X3.0,N)	1		
	28	LV40484-002A	CAUTION SHEET		1		
	29	LV30420-003A	HOLDER ASS'Y		1		

Electrical Parts List

■ Main board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 2	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 3	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 4	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 60	NCB31CK-103X	C CAPACITOR	.010MF 10% 16V	
	C 61	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 62	NCB31CK-333X	C CAPACITOR	.033MF 10% 16V	
	C 101	NCB31CK-683X	C.CAPACITOR	.068MF 10% 16V	
	C 102	NCB31CK-683X	C.CAPACITOR	.068MF 10% 16V	
	C 103	NBE20GM-226X	TS E CAPACITOR		
	C 104	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 106	NBM90JM-106X	TS E CAPACITOR		
	C 107	NCB31HK-181X	C CAPACITOR	180PF 10% 50V	
	C 108	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	
	C 109	NBFA0GM-157X	TS E CAPACITOR		
	C 110	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 111	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 112	NBE90JM-106X	TS E CAPACITOR		
	C 201	NCB31CK-683X	C.CAPACITOR	.068MF 10% 16V	
	C 202	NCB31CK-683X	C.CAPACITOR	.068MF 10% 16V	
	C 203	NBE20GM-226X	TS E CAPACITOR		
	C 204	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 206	NBM90JM-106X	TS E CAPACITOR		
	C 207	NCB31HK-181X	C CAPACITOR	180PF 10% 50V	
	C 208	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	
	C 209	NBFA0GM-157X	TS E CAPACITOR		
	C 210	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 211	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 212	NBE90JM-106X	TS E CAPACITOR		
	C 300	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 301	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 302	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 304	NBM90JM-106X	TS E CAPACITOR		
	C 305	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 306	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 309	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 310	NCB31HK-472X	C CAPACITOR	4700PF 10% 50V	
	C 311	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 313	NCB21CK-224X	C CAPACITOR	.22MF 10% 16V	
	C 314	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 315	NCB31EK-223X	C CAPACITOR	.022MF 10% 25V	
	C 316	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 317	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 318	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 319	NBM90JM-106X	TS E CAPACITOR		
	C 320	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 321	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 323	NBM90JM-106X	TS E CAPACITOR		
	C 325	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 353	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 354	NBE90JM-106X	TS E CAPACITOR		
	C 355	NCS31HJ-270X	C CAPACITOR	27PF 5% 50V	
	C 356	NCS31HJ-220X	C CAPACITOR	22PF 5% 50V	
	C 357	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 359	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 361	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 362	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 363	NCB21CK-474X	C CAPACITOR	.47MF 10% 16V	
	C 364	NCB31HK-471X	C CAPACITOR	470PF 10% 50V	
	C 366	NCB21CK-474X	C CAPACITOR	.47MF 10% 16V	
	C 367	NCB31HK-153X	C CAPACITOR	.015MF 10% 50V	
	C 372	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 376	NBM90JM-106X	TS E CAPACITOR		
	C 377	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 378	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 379	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 380	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 391	NCF31AZ-105X	C CAPACITOR	1.0MF +80:-20%	
	C 401	NBM90JM-106X	TS E CAPACITOR		
	C 402	NBE21CM-335X	TS E CAPACITOR		
	C 403	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 404	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 406	NBE20JM-335X	TS E CAPACITOR		
	C 407	NBE20JM-335X	TS E CAPACITOR		
	C 408	NBE20JM-335X	TS E CAPACITOR		
	C 409	NBE20JM-335X	TS E CAPACITOR		
	C 450	NCB31HK-472X	C CAPACITOR	4700PF 10% 50V	
	C 454	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 455	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 456	NCB31HK-222X	C CAPACITOR	2200PF 10% 50V	
	C 457	NCB31HK-681X	C CAPACITOR	680PF 10% 50V	
	C 458	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C 459	NCB11CK-225X	C CAPACITOR	2.2MF 10% 16V	
	C 460	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 461	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 462	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 464	NBM90JM-106X	TS E CAPACITOR		
	C 500	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 503	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 504	NBM90JM-106X	TS E CAPACITOR		
	C 505	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 506	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 507	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 508	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 590	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 601	NBE20GM-226X	TS E CAPACITOR		
	C 602	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	
	C 603	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 604	NBE90GM-475X	TS E CAPACITOR		
	C 605	NBE91CM-105X	E CAPACITOR		
	C 606	NBM90JM-106X	TS E CAPACITOR		
	C 607	NCB21CK-224X	C CAPACITOR	.22MF 10% 16V	
	C 608	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 609	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 610	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 611	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 612	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 614	NBM90JM-106X	TS E CAPACITOR		
	C 615	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 616	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 901	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 903	NCB11CK-105X	C CAPACITOR	1.0MF 10% 16V	
	C 911	NCB21HK-332X	C CAPACITOR	3300PF 10% 50V	
	C 912	NCS31HJ-470X	C CAPACITOR	47PF 5% 50V	
	C 931	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 932	NCB31HK-561X	C CAPACITOR	560PF 10% 50V	
	C 933	NCB31CK-103X	C CAPACITOR	.010MF 10% 16V	
	C 934	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 941	NBG40GM-226X	TS E CAPACITOR		
	C 942	NBEE0GM-336X	TA E CAPACITOR		
	C 951	NCB31HK-392X	C CAPACITOR	3900PF 10% 50V	
	C 952	NBE20JM-226X	TS E CAPACITOR		
	CN300	QGF0510F1-20X	FFC CONNECTOR	PICK	
	CN401	QGF0510F1-08X	FFC CONNECTOR	MECHA	
	D 60	F02J2E-X	DIODE		
	D 61	1SS355-X	DIODE C.M		
	D 62	F02J2E-X	DIODE		
	D 63	F02J2E-X	DIODE		
	D 400	F02J2E-X	DIODE		
	D 503	F02J2E-X	DIODE		
	D 504	F02J2E-X	DIODE		
	D 505	1SS355-X	DIODE C.M		
	D 601	F02J2E-X	DIODE		
	D 952	F02J2E-X	DIODE		
	IC 2	TC7S08F-W	IC		
	IC 60	TC7SL00FU-X	IC(DIGITAL)		
	IC 61	TC7SL00FU-X	IC(DIGITAL)		
	IC101	TC75W51FU-X	IC		
	IC102	TDA1308AT-X	I.C		
	IC103	IMX9-W	TRANSISTOR		
	IC203	IMX9-W	TRANSISTOR		
	IC300	CXA2523AR	IC		
	IC301	TK11225BMC-X	IC		
	IC351	CXD2655R	IC		
	IC352	TC7W08FU-X	IC		
	IC353	TK11226BMC-X	IC		
	IC354	TK11226BMC-X	IC		
	IC391	MN41X17400CT10X	IC		
	IC400	MPC17A39DTB-X	IC		
	IC450	CXA8069M	IC		
	IC451	TC7S04FU-X	IC		
	IC501	HD6433045SV14X	U-COM		
	IC502	AK93C45AV-W	IC		
	IC503	AK93C45AV-W	IC		
	IC504	S-80826ANNP-W	IC		
	IC601	TC75S51F-X	IC		
	IC602	TC7W66FU-X	IC		
	IC931	MB3800PFV-W	IC		
	IC952	S-8327B30MC-W	IC		
	K 101	NQR0129-004X	FERRITE BEADS		
	K 201	NQR0129-004X	FERRITE BEADS		
	K 601	NQR0129-004X	FERRITE BEADS		
	K 602	NRSA63J-100X	MG RESISTOR	10 5%	
	K 603	NQR0129-004X	FERRITE BEADS		
	L 400	NQL114K-471X	INDUCTOR		
	L 402	NQL365K-100X	INDUCTOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	L 403	NQL365K-100X	INDUCTOR		
	L 404	NQL365K-100X	INDUCTOR		
	L 405	NQL365K-100X	INDUCTOR		
	L 501	NQL302N-100X	INDUCTOR		
	L 601	NQL365K-220X	INDUCTOR		
	L 602	NQL302N-100X	INDUCTOR		
	L 911	NQR0290-001X	D/D CON TRANS		
	L 941	NQL114M-1R0X	INDUCTOR		
	L 951	NQL114K-470X	INDUCTOR		
	Q 60	2SA1588/G/-X	TRANSISTOR		
	Q 61	DTC144EE-X	TRANSISTOR		
	Q 62	2SC4081/QR/-X	TRANSISTOR		
	Q 101	2SC4081/QR/-X	TRANSISTOR		
	Q 102	2SD1979/ST/-X	TRANSISTOR		
	Q 103	DTC114TE-X	TRANSISTOR		
	Q 201	2SC4081/QR/-X	TRANSISTOR		
	Q 202	2SD1979/ST/-X	TRANSISTOR		
	Q 203	DTC114TE-X	TRANSISTOR		
	Q 300	2SB1219/RS/-X	TRANSISTOR CM		
	Q 301	DTA144EE-X	DIGI TRANSISTOR		
	Q 302	DTA114YE-X	TRANSISTOR		
	Q 503	DTA124XE-X	TRANSISTOR		
	Q 601	DTA114EE-X	DIGITAL.TR		
	Q 911	SI2302DS-X	MOS FET		
	Q 912	2SD1620-X	TRANSISTOR		
	Q 931	DTC114YE-X	TRANSISTOR		
	Q 951	2SD1620-X	TRANSISTOR		
	Q 952	SI2301DS-X	TRANSISTOR		
	Q 953	2SC4081/QR/-X	TRANSISTOR		
	R 2	NRSA6AJ-222W	MG RESISTOR	2.2K 5%	
	R 3	NRSA6AJ-222W	MG RESISTOR	2.2K 5%	
	R 60	NRSA63J-472X	RESISTOR	4.7K 5%	
	R 61	NRSA63J-183X	MG RESISTOR	18K 5%	
	R 62	NRSA63J-183X	MG RESISTOR	18K 5%	
	R 64	NRSA63J-560X	RESISTOR	56 5%	
	R 65	NRSA6AJ-101W	MG RESISTOR	100 5%	
	R 66	NRSA63J-104X	RESISTOR	100K 5%	
	R 101	NRSA63J-102X	RESISTOR	1.0K 5%	
	R 102	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R 103	NRSA63J-123X	MG RESISTOR	12K 5%	
	R 104	NRSA63J-473X	RESISTOR	47K 5%	
	R 107	NRSA63J-474X	RESISTOR	470K 5%	
	R 108	NRSA63J-182X	RESISTOR	1.8K 5%	
	R 110	NRSA63J-562X	RESISTOR	5.6K 5%	
	R 112	NRSA63J-103X	RESISTOR	10K 5%	
	R 114	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 116	NRSA63J-682X	RESISTOR	6.8K 5%	
	R 117	NRSA63J-243X	MG RESISTOR	24K 5%	
	R 118	NRSA63J-473X	RESISTOR	47K 5%	
	R 119	NRSA63J-153X	RESISTOR	15K 5%	
	R 120	NRSA63J-4R7X	RESISTOR	4.7 5%	
	R 121	NRSA63J-331X	RESISTOR	330 5%	
	R 122	NRSA63J-103X	RESISTOR	10K 5%	
	R 123	NRSA63J-4R7X	RESISTOR	4.7 5%	
	R 125	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 126	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 127	NRSA63J-332X	RESISTOR	3.3K 5%	
	R 128	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 201	NRSA63J-102X	RESISTOR	1.0K 5%	
	R 202	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R 203	NRSA63J-123X	MG RESISTOR	12K 5%	
	R 204	NRSA63J-473X	RESISTOR	47K 5%	
	R 207	NRSA63J-474X	RESISTOR	470K 5%	
	R 208	NRSA63J-182X	RESISTOR	1.8K 5%	
	R 210	NRSA63J-562X	RESISTOR	5.6K 5%	
	R 212	NRSA63J-103X	RESISTOR	10K 5%	
	R 214	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 216	NRSA63J-682X	RESISTOR	6.8K 5%	
	R 217	NRSA63J-243X	MG RESISTOR	24K 5%	
	R 218	NRSA63J-473X	RESISTOR	47K 5%	
	R 219	NRSA63J-153X	RESISTOR	15K 5%	
	R 220	NRSA63J-4R7X	RESISTOR	4.7 5%	
	R 221	NRSA63J-331X	RESISTOR	330 5%	
	R 222	NRSA63J-103X	RESISTOR	10K 5%	
	R 223	NRSA63J-4R7X	RESISTOR	4.7 5%	
	R 225	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 226	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 227	NRSA63J-332X	RESISTOR	3.3K 5%	
	R 228	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 300	NRSA63J-1R0X	MG RESISTOR	1.0 5%	
	R 301	NRSA63J-1R0X	MG RESISTOR	1.0 5%	
	R 302	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 304	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 305	NRSA63J-331X	RESISTOR	330 5%	
	R 306	NRSA63J-474X	RESISTOR	470K 5%	
	R 307	NRSA63J-104X	RESISTOR	100K 5%	
	R 308	NRSA6AJ-222W	MG RESISTOR	2.2K 5%	
	R 311	NRSA63J-103X	RESISTOR	10K 5%	
	R 314	NRSA6AJ-133W	MG RESISTOR	13K 5%	
	R 315	NRSA6AJ-133W	MG RESISTOR	13K 5%	
	R 316	NRSA6AJ-243W	MG RESISTOR	24K 5%	
	R 320	NRSA6AJ-563W	RESISTOR	56K 5%	
	R 321	NRSA63J-331X	RESISTOR	330 5%	
	R 322	NRSA63J-331X	RESISTOR	330 5%	
	R 323	NRSA63J-331X	RESISTOR	330 5%	
	R 324	NRSA63J-102X	RESISTOR	1.0K 5%	
	R 325	NRSA63J-331X	RESISTOR	330 5%	
	R 326	NRSA63J-331X	RESISTOR	330 5%	
	R 328	NRSA63J-101X	RESISTOR	100 5%	
	R 329	NRSA6AJ-472W	MG RESISTOR	4.7K 5%	
	R 333	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 335	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 336	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 337	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 338	NRSA63J-102X	RESISTOR	1.0K 5%	
	R 339	NRSA63J-220X	RESISTOR	22 5%	
	R 340	NRSA6AJ-913W	RESISTOR	91K 5%	
	R 341	NRSA6AJ-221W	MG RESISTOR	220 5%	
	R 351	NRSA6AJ-221W	MG RESISTOR	220 5%	
	R 354	NRSA6AJ-104W	MG RESISTOR	100K 5%	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 356	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 359	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 360	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 361	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 362	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 363	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 364	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 365	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 366	NRSA6AJ-221W	MG RESISTOR	220 5%	
	R 367	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 368	NRSA6AJ-101W	MG RESISTOR	100 5%	
	R 372	NRSA63J-103X	RESISTOR	10K 5%	
	R 373	NRSA63J-104X	RESISTOR	100K 5%	
	R 374	NRSA63J-684X	RESISTOR	680K 5%	
	R 375	NRSA6AJ-101W	MG RESISTOR	100 5%	
	R 377	NRSA6AJ-332W	RESISTOR	3.3K 5%	
	R 378	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 379	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 380	NRSA6AJ-105W	MG RESISTOR	1.0M 5%	
	R 382	NRSA6AJ-105W	MG RESISTOR	1.0M 5%	
	R 383	NRSA6AJ-151W	MG RESISTOR	150 5%	
	R 385	NRSA6AJ-103W	MG RESISTOR	10K 5%	
	R 386	NRSA6AJ-103W	MG RESISTOR	10K 5%	
	R 387	NRSA63J-103X	RESISTOR	10K 5%	
	R 388	NRSA63J-103X	RESISTOR	10K 5%	
	R 389	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 400	NRSA63J-104X	RESISTOR	100K 5%	
	R 401	NRSA63J-102X	RESISTOR	1.0K 5%	
	R 402	NRSA02J-100X	MG RESISTOR	10 5% 1/10W	
	R 450	NRSA63J-223X	RESISTOR	22K 5%	
	R 451	NRSA63J-223X	RESISTOR	22K 5%	
	R 452	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 454	NRSA63J-104X	RESISTOR	100K 5%	
	R 455	NRSA02J-1R0X	MG RESISTOR	1.0 5% 1/10W	
	R 456	NRSA02J-1R0X	MG RESISTOR	1.0 5% 1/10W	
	R 457	NRSA02J-1R0X	MG RESISTOR	1.0 5% 1/10W	
	R 458	NRSA02J-1R0X	MG RESISTOR	1.0 5% 1/10W	
	R 459	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R 460	NRSA63J-225X	MG RESISTOR	2.2M 5%	
	R 461	NRSA63J-473X	RESISTOR	47K 5%	
	R 465	NRSA63J-683X	RESISTOR	68K 5%	
	R 466	NRSA63J-100X	MG RESISTOR	10 5%	
	R 501	NRSA63J-273X	MG RESISTOR	27K 5%	
	R 502	NRSA6AJ-474W	MG RESISTOR	470K 5%	
	R 505	NRSA6AJ-474W	MG RESISTOR	470K 5%	
	R 506	NRSA6AJ-103W	MG RESISTOR	10K 5%	
	R 508	NRSA63J-221X	MG RESISTOR	220 5%	
	R 509	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 519	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 520	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 521	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 522	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 525	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 527	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 528	NRSA6AJ-104W	MG RESISTOR	100K 5%	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 529	NRSA63J-104X	RESISTOR	100K 5%	
	R 530	NRSA63J-102X	RESISTOR	1.0K 5%	
	R 531	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 533	NRSA63J-184X	MG RESISTOR	180K 5%	
	R 534	NRSA63J-474X	RESISTOR	470K 5%	
	R 535	NRSA63J-562X	RESISTOR	5.6K 5%	
	R 590	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 601	NRSA63J-153X	RESISTOR	15K 5%	
	R 602	NRSA63J-683X	RESISTOR	68K 5%	
	R 603	NRSA63J-683X	RESISTOR	68K 5%	
	R 604	NRSA63J-474X	RESISTOR	470K 5%	
	R 605	NRSA63J-223X	RESISTOR	22K 5%	
	R 606	NRSA63J-103X	RESISTOR	10K 5%	
	R 607	NRSA63J-474X	RESISTOR	470K 5%	
	R 608	NRSA63J-683X	RESISTOR	68K 5%	
	R 609	NRSA63J-103X	RESISTOR	10K 5%	
	R 610	NRSA63J-103X	RESISTOR	10K 5%	
	R 611	NRSA63J-102X	RESISTOR	1.0K 5%	
	R 612	NRSA63J-103X	RESISTOR	10K 5%	
	R 613	NRSA63J-103X	RESISTOR	10K 5%	
	R 614	NRSA63J-104X	RESISTOR	100K 5%	
	R 912	NRSA63J-470X	MG RESISTOR	47 5%	
	R 913	NRSA63J-272X	RESISTOR	2.7K 5%	
	R 921	NRVA63D-473X	CMF RESISTOR	47K	
	R 922	NRVA63D-912X	RESISTOR	9.1K	
	R 923	NRSA63J-682X	RESISTOR	6.8K 5%	
	R 931	NRSA63J-821X	RESISTOR	820 5%	
	R 932	NRVA63D-332X	MF RESISTOR	3.3K	
	R 933	NRVA63D-122X	MG RESISTOR	1.2K	
	R 934	NRSA63J-0R0X	RESISTOR	5%	
	R 935	NRSA63J-472X	RESISTOR	4.7K 5%	
	R 951	NRSA63J-392X	MG RESISTOR	3.9K 5%	
	R 952	NRSA63J-101X	RESISTOR	100 5%	
	R 953	NRSA63J-474X	RESISTOR	470K 5%	
	R 954	NRSA63J-474X	RESISTOR	470K 5%	
	R 955	NRSA63J-154X	RESISTOR	150K 5%	
	R 956	NRSA63J-474X	RESISTOR	470K 5%	
	S 500	NSW0099-001X	SLIDE SWITCH		
	TH501	NAD0021-103X	THERMISTOR		
	VR921	NVP0013-222X	V RESISTOR		
	X 300	NAX0249-001X	CRYSTAL		
	X 500	NAX0275-001X	C OSCIALLATOR		

■ Headphone Jack board

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	J 101	QNS0098-001	3.5 JACK		

■ Switch board

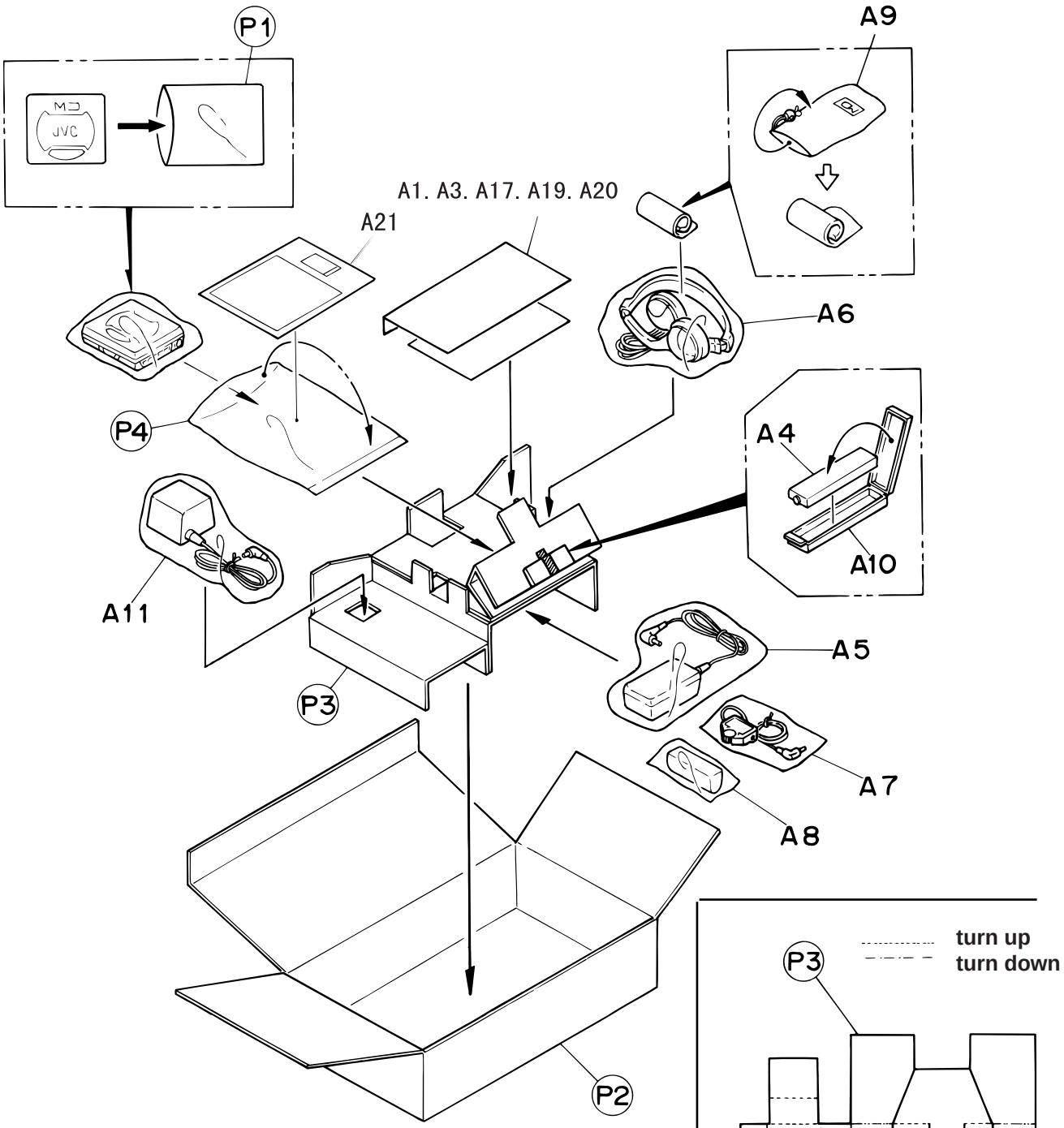
BLOCK NO. 03

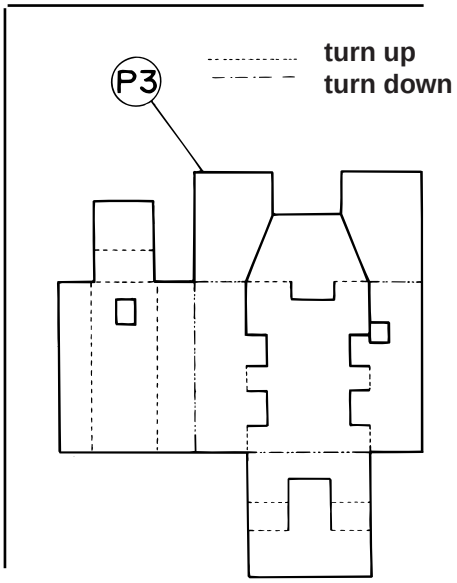
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 591	NRSA63J-153X	RES. C.M	15K 5%	
	R 592	NRSA63J-183X	MG RESISTOR	18K 5%	
	R 593	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	S 591	NSW0053-001X	TACT SWITCH		
	S 592	NSW0053-001X	TACT SWITCH		
	S 593	NSW0053-001X	TACT SWITCH		
	S 594	NSW0053-001X	TACT SWITCH		
	S 597	NSW0053-001X	TACT SWITCH		

Packing Materials and Accessories Parts List

■J Version Section

Block No. M 3 M M
Block No. M 4 M M





■ Packing Parts list

BLOCK NO. M3MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	LV30245-003A	POLY BAG		1		
	P 2	LV30473-005A	CARTON BOX		1		
	P 3	LV31083-001A	PAPER CUSHION		1		
	P 4	LV31153-001A	BARRIER BAG		1		

■ Accessories Parts list

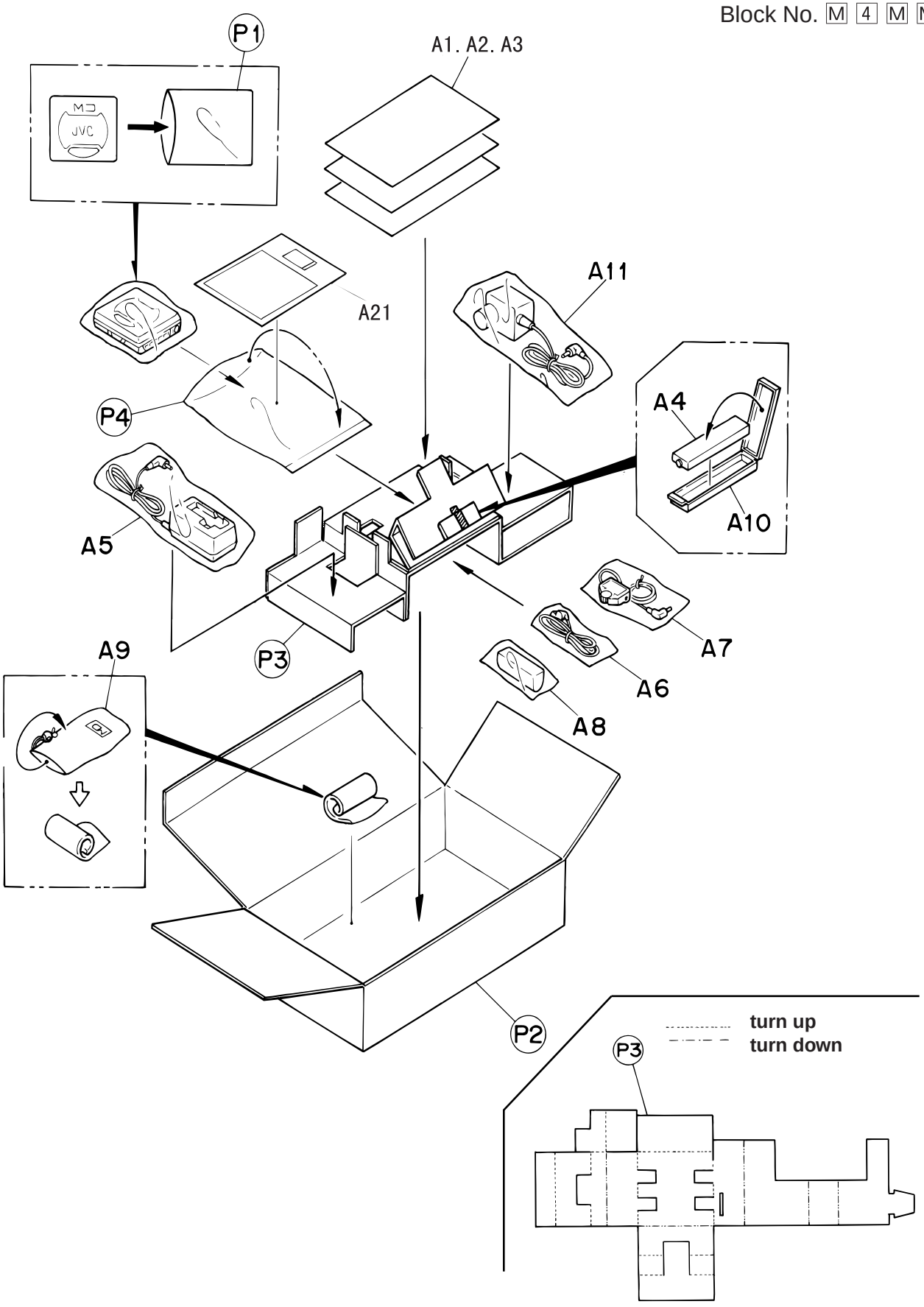
BLOCK NO. M4MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0119-005B	INST.BOOK	ENG	1		
	A 3	BT-51009-3	W.CARD		1		
		BT-52001-4	W.CARD		1		
	A 4	QAB0011-003	NI-MH BATTERY		1		
	A 5	QAL0121-001	BATTERY CHARGER		1		
	A 6	QAN0022-001	HEADPHONE		1		
	A 7	QAL0132-001	REMO.CON		1		
	A 8	LV30475-002A	BATT.CASE ASS'Y		1		
	A 9	LV30472-004A	SOFT CASE		1		
	A 10	LV30791-001A	BATTERY CASE		1		
	A 11	QAL0124-001	AC ADAPTOR		1		
	A 17	BT-20044G	SAFETY INST		1		
	A 19	BT-20071B	SVC CENTER LIST		1		
	A 20	BT-51015-2	SVC CENTER LIST		1		
	A 21	LV31129-001A	CAUTION SHEET		1		

Packing Materials and Accessories Parts List

■E/EE/EN/ Version Section

Block No. M 3 M M
Block No. M 4 M M



■ Packing Parts list

BLOCK NO. M3MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	LV30245-003A	POLY BAG		1		
	P 2	LV30473-005A	CARTON BOX		1	E,EE,EN	SL
		LV30473-006A	CARTON BOX		1	E,EE,EN	BU
	P 3	LV31082-001A	PAPER CUSHION		1		
	P 4	LV31153-001A	BARRIER BAG		1		

■ Accessories Parts list

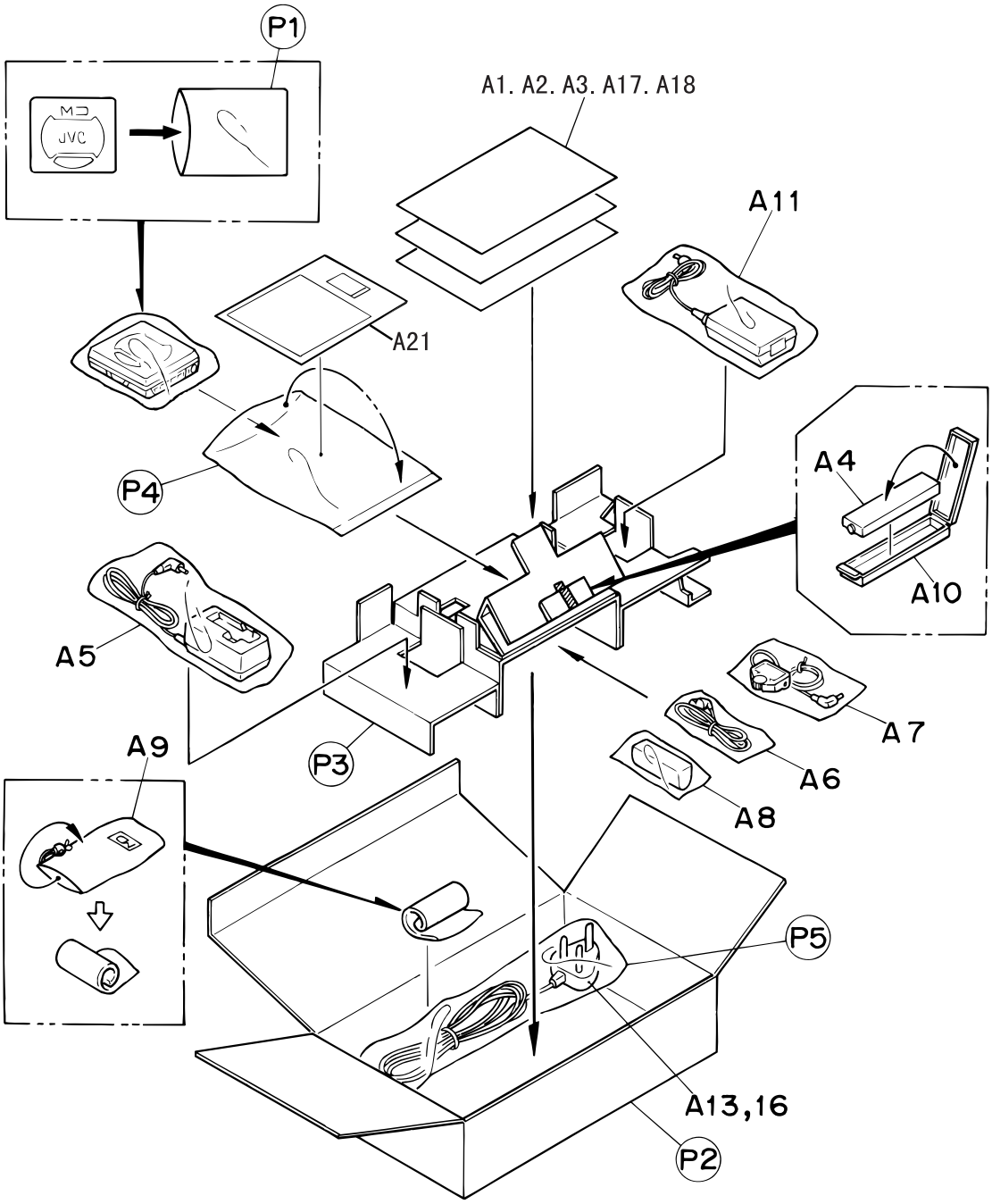
BLOCK NO. M4MM□□□

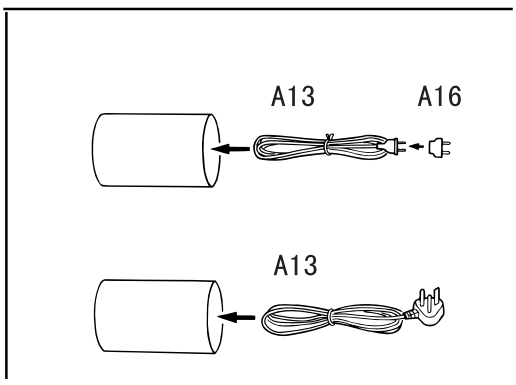
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0119-001A	INST.BOOK	ENG.GER.FRE.DUT	1	E	
		LVT0119-001A	INST.BOOK	ITA	1	E	
		LVT0119-001A	INST.BOOK	SPA.DAN.SWE.FIN	1	E	
		LVT0119-003A	INST.BOOK	ENG.GER.FRE.DUT	1	EN	
		LVT0119-003A	INST.BOOK	ITA	1	EN	
		LVT0119-003A	INST.BOOK	SPA.DAN.SWE.FIN	1	EN	
		LVT0119-006A	INST.BOOK	RUS	1	EE	
	A 2	LVT0119-002A	INST.BOOK	SPA.DAN.SWE.FIN	1	E,EN	
		LVT0119-002A	INST.BOOK	ENG.GER.FRE.DUT	1	E,EN	
		LVT0119-002A	INST.BOOK	ITA	1	E,EN	
	A 3	BT-54008-1	W.CARD		1	E,EN	
		BT-54012-1	W.CARD		1	EE	
	A 4	QAB0011-003	NI-MH BATTERY		1		
	A 5	QAL0121-001	BATTERY CHARGER		1		
	A 6	QAN0021-001	HEADPHONE		1		
	A 7	QAL0132-001	REMO.CON		1		
	A 8	LV30475-002A	BATT.CASE ASS'Y		1		
	A 9	LV30472-004A	SOFT CASE		1		
	A 10	LV30791-001A	BATTERY CASE		1		
	A 11	QAL0120-001	AC ADAPTOR		1		
	A 21	LV31129-001A	CAUTION SHEET		1		

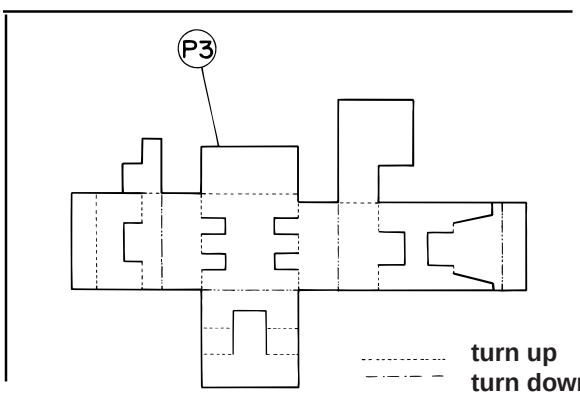
Packing Materials and Accessories Parts List

Block No. M 3 M M
Block No. M 4 M M

■B/UB/US/UT/UX/UY/ Version Section







■ Packing Parts list

BLOCK NO. M3MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	LV30245-003A	POLY BAG		1		
	P 2	LV30473-005A	CARTON BOX		1	UT,US,UB,UX	SL
		LV30473-005A	CARTON BOX		1	B,UY	SL
		LV30473-006A	CARTON BOX		1	B,US,UB	BU
		LV30473-007A	CARTON BOX		1	UB	GN
	P 3	LV31081-001A	PAPER CUSHION		1		
	P 4	LV31153-001A	BARRIER BAG		1		
	P 5	QPA01202505	POLY BAG		1	UT,US,UX,UY	
		QPA01503503	POLY BAG		1	B,UB	

■ Accessories Parts list

BLOCK NO. M4MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0119-007A	INST.BOOK	CHI	1	UT	
		LVT0119-007A	INST.BOOK	ENG.CHI	1	UB	
		LVT0119-007A	INST.BOOK	ENG.SPA.ARA	1	UX	
		LVT0119-007A	INST.BOOK	ENG.SPA.CHI	1	US	
		LVT0119-007A	INST.BOOK	SPA	1	UY	
	A 2	LVT0119-008A	INST.BOOK	ENG.SPA.ARA	1	UX	
		LVT0119-004A	INST.BOOK	ENG	1	B	
	A 3	BT-54008-1	W.CARD		1	B	
	A 4	QAB0011-003	NI-MH BATTERY		1		
	A 5	QAL0121-001	BATTERY CHARGER		1		
	A 6	QAN0021-001	HEADPHONE		1		
	A 7	QAL0132-001	REMO.CON		1		
	A 8	LV30475-002A	BATT.CASE ASS'Y		1		
	A 9	LV30472-004A	SOFT CASE		1		
	A 10	LV30791-001A	BATTERY CASE		1		
	A 11	QAL0123-001	AC ADAPTOR		1	B	
		QAL0133-001	AC ADAPTOR		1	UX,UY,UT	
		QAL0133-001	AC ADAPTOR		1	UB,US	
	A 13	QMPP060-183-JD	POWER CORD		1	UB	
		QMPS050-183-JC	POWER CORD		1	UY	
		QMP39F0-183	POWER CORD		1	US	
		QMP5520-183	POWER CORD		1	B	
		QMP7350-150	POWER CORD		1	UT,UX	
	A 16	QAM0027-001	AC PLUG ADAPTOR		1	UT,UX	
		QAM0060-001	AC PLUG ADAPTOR		1	US	
	A 17	E43486-340B	SAFETY INST		1	B	
	A 18	LV30258-050A	UB SHEET		1	UB	
	A 21	LV31129-001A	CAUTION SHEET		1		

-MEMO-

PARTS LIST

[XM-PJ1]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix

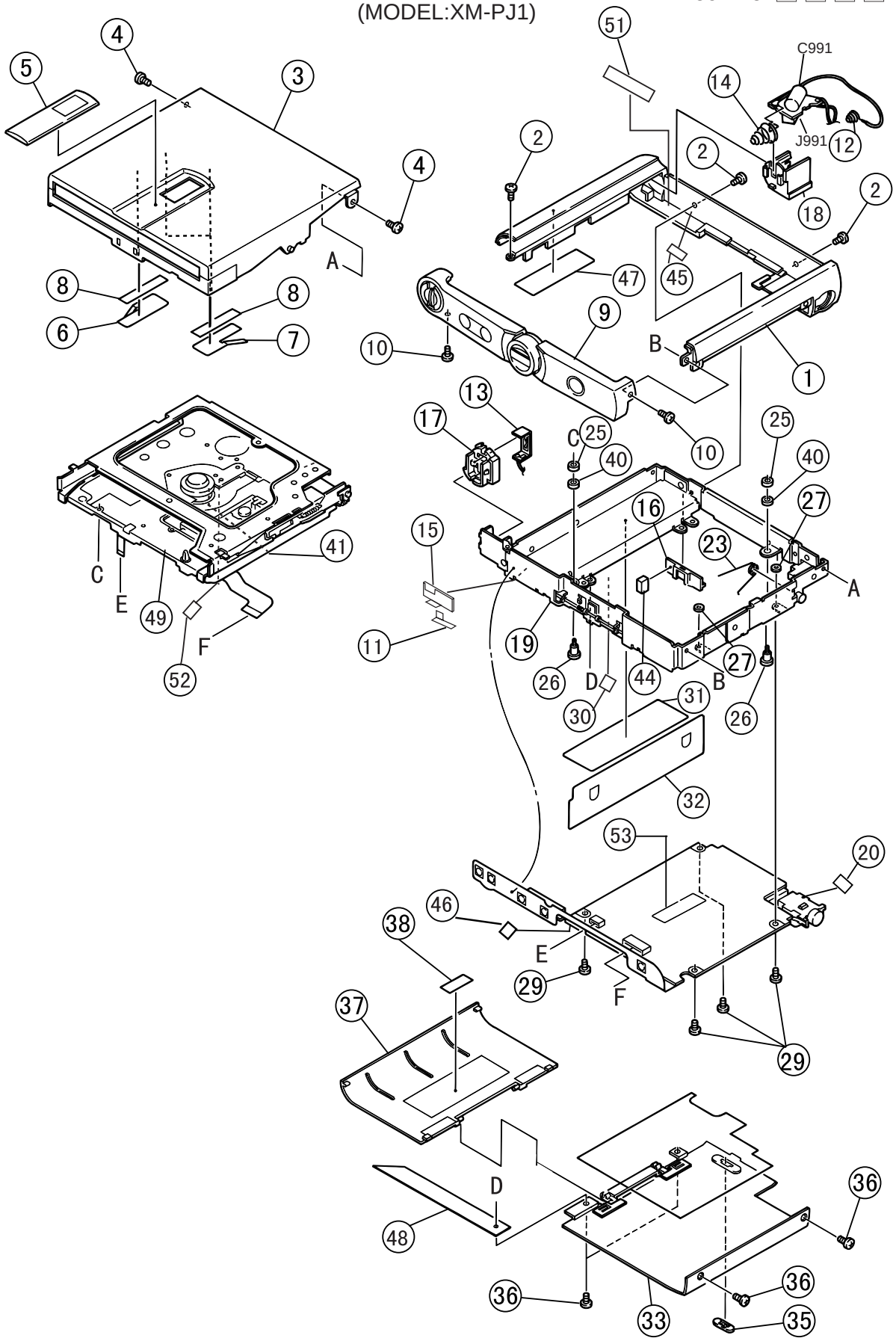
B	U.K. (BU)
E	Continental Europe (BU)
EE	Russian Federation (BU)
EN	Northern Europe (BU)
J	U.S.A. (BU)
UB	Hong kong (BU,GD)
US	Singapore (BU)
UT	Taiwan (BU)
UX	Saudi Arabia (BU)
UY	Argentina (BU)

- Contents -

General Exploded View and Parts List

Block No. M 1 M M

(MODEL:XM-PJ1)



BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	LV10115-003A	CABINET ASSY		1		BU
		LV10115-004A	CABINET ASSY		1		GD
	2	VKZ4616-008	SCREW	FOR CABINET	3		
	3	LV30659-007A	MD DOOR ASS'Y		1		
	4	VKZ4764-001	SPECIAL SCREW	FOR MD DOOR	2		
	5	LV40589-001A	LENS		1		
	6	LV40403-002A	DOOR SPRING(B)		2		
	7	LV40403-004A	DOOR SPRING(B)		2		
	8	LV40868-001A	D.F.SHEET		4		
	9	LV30657-010A	FRONT COVER ASY		1		GD
		LV30657-009A	FRONT COVER ASY		1		BU
	10	VKZ4616-008	SCREW	FOR FRONT COVER	2		
	11	LV40514-004A	BATT.CONTACT(A)	(+)	1		
	12	LV40515-001A	BATT.CONTACT(B)	(-)	1		
	13	LV40516-003A	BATT.CONTACT(C)	(+)	1		
	14	LV40517-001A	BATT.CONTACT(D)	(-)	1		
	15	LV30621-002A	CONT.HOLDER(A)		1		
	16	LV30622-001A	CONT.HOLDER(B)		1		
	17	LV30623-001A	CONT.HOLDER(C)		1		
	18	LV30625-001A	DC JACK HOLDER		1		
	19	LV30619-004A	FRAME ASS'Y		1		
	20	LV40707-001A	D.F. SHEET	FOR H.P.JACK	1		
	23	LV40521-001A	SPRING		1		
	25	LV40752-001A	COLLAR		2		
	26	LV40406-002A	SPECIAL SCREW	FOR MECHA	2		
	27	LV40660-001A	PROTECTOR		2		
	29	VKZ4616-008	SCREW	FOR PWB	4		
	30	LV30225-014A	SPACER		1		
	31	LV40855-002A	SHEET		1		
	32	LV40766-001A	SHEET	FOR PWB	1		
	33	LV30624-005A	BOTT.COVER ASSY		1		BU
		LV30624-006A	BOTT.COVER ASSY		1		GD
	35	LV30471-001A	HOLD KNOB		1		
	36	VKZ4616-008	SCREW	FOR BOTTOM	4		
	37	LV20206-007A	BATTERY COVER		1		BU
		LV20206-008A	BATTERY COVER		1		GD
	38	VPZ4011-003	SERIAL LABEL		1		
	40	LV40660-003A	PROTECTOR		2		
	41	LV40660-002A	PROTECTOR	FOR MOTOR	1		
	44	LV30225-005A	SPACER		1		
	45	LV30225-005A	SPACER		1		
	46	LV30225-012A	SPACER		1		
	47	LV40856-002A	SHEET		1		
	48	LV40854-001A	RIBBON		1		
	49	BDL1051-101M	MD MECHA		1		
	51	LV30260-002A	D.F. SHEET		1		
	52	LV30225-016A	SPACER		1		
	53	LV40876-002A	INSULATOR		1		
	C 991	QETLOJM-477	E.CAPACITOR	470MF 20% 6.3V	1		
	J 991	NNA0001-001	DC JACK		1		

MD Mechanism Exploded View and Parts List

Block No.M 2 M M

MD Mechanism as same as XM-P55.
Please refer of the page 3-4 and 3-5.

■ Main board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 2	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 3	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 4	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 60	NCB31CK-103X	C CAPACITOR	.010MF 10% 16V	
	C 61	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 62	NCB31CK-333X	C CAPACITOR	.033MF 10% 16V	
	C 101	NCB31CK-683X	C CAPACITOR	.068MF 10% 16V	
	C 102	NCB31CK-683X	C CAPACITOR	.068MF 10% 16V	
	C 103	NBE20GM-226X	TS E CAPACITOR		
	C 104	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	B,E,EE,EN,UY
	C 104	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	UB,US,UT,UX
	C 104	NCB31HK-123X	C CAPACITOR	.012PF 10% 16V	J
	C 106	NBM90JM-106X	TS E CAPACITOR		
	C 107	NCB31HK-181X	C CAPACITOR	180PF 10% 50V	
	C 108	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	B,E,EE,EN,UY
	C 108	NCB31CK-333X	C CAPACITOR	.033MF 10% 16V	J
	C 108	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	UB,US,UT,UX
	C 109	NBFA0GM-157X	TS E CAPACITOR		
	C 110	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 111	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 112	NBE90JM-106X	TS E CAPACITOR		
	C 201	NCB31CK-683X	C CAPACITOR	.068MF 10% 16V	
	C 202	NCB31CK-683X	C CAPACITOR	.068MF 10% 16V	
	C 203	NBE20GM-226X	TS E CAPACITOR		
	C 204	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	B,E,EE,EN,UY
	C 204	NCB31HK-123X	C CAPACITOR	.012PF 10% 16V	J
	C 204	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	UB,US,UT,UX
	C 206	NBM90JM-106X	TS E CAPACITOR		
	C 207	NCB31HK-181X	C CAPACITOR	180PF 10% 50V	
	C 208	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	B,E,EE,EN,UY
	C 208	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	UB,US,UT,UX
	C 208	NCB31CK-333X	C CAPACITOR	.033MF 10% 16V	J
	C 209	NBFA0GM-157X	TS E CAPACITOR		
	C 210	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 211	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 212	NBE90JM-106X	TS E CAPACITOR		
	C 300	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 301	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 302	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 304	NBM90JM-106X	TS E CAPACITOR		
	C 305	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 306	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 309	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 310	NCB31HK-472X	C CAPACITOR	4700PF 10% 50V	
	C 311	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 313	NCB21CK-224X	C CAPACITOR	.22MF 10% 16V	
	C 314	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 315	NCB31EK-223X	C CAPACITOR	.022MF 10% 25V	
	C 316	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 317	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 318	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 319	NBM90JM-106X	TS E CAPACITOR		
	C 320	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 321	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 323	NBM90JM-106X	TS E CAPACITOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 325	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 353	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 354	NBE90JM-106X	TS E CAPACITOR		
	C 355	NCS31HJ-270X	C CAPACITOR	27PF 5% 50V	
	C 356	NCS31HJ-220X	C CAPACITOR	22PF 5% 50V	
	C 357	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 359	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 361	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 362	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 363	NCB21CK-474X	C CAPACITOR	.47MF 10% 16V	
	C 364	NCB31HK-471X	C CAPACITOR	470PF 10% 50V	
	C 366	NCB21CK-474X	C CAPACITOR	.47MF 10% 16V	
	C 367	NCB31HK-153X	C CAPACITOR	.015MF 10% 50V	
	C 372	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 376	NBM90JM-106X	TS E CAPACITOR		
	C 377	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 378	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 379	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 380	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 391	NCF31AZ-105X	C CAPACITOR	1.0MF +80:-20%	
	C 401	NBM90JM-106X	TS E CAPACITOR		
	C 402	NBE21CM-335X	TS E CAPACITOR		
	C 403	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 404	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 406	NBE20JM-335X	TS E CAPACITOR		
	C 407	NBE20JM-335X	TS E CAPACITOR		
	C 408	NBE20JM-335X	TS E CAPACITOR		
	C 409	NBE20JM-335X	TS E CAPACITOR		
	C 450	NCB31HK-472X	C CAPACITOR	4700PF 10% 50V	
	C 454	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 455	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 456	NCB31HK-222X	C CAPACITOR	2200PF 10% 50V	
	C 457	NCB31HK-681X	C CAPACITOR	680PF 10% 50V	
	C 458	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C 459	NCB11CK-225X	C CAPACITOR	2.2MF 10% 16V	
	C 460	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 461	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	
	C 462	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 464	NBM90JM-106X	TS E CAPACITOR		
	C 500	NCB21AK-105X	C CAPACITOR	1.0MF 10% 10V	
	C 503	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 504	NBM90JM-106X	TS E CAPACITOR		
	C 505	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 506	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 507	NCF31EZ-104X	C CAPACITOR	.10MF +80:-20%	
	C 508	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 590	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 601	NBE20GM-226X	TS E CAPACITOR		
	C 602	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	B,E,EE,EN,UY
	C 602	NCB31CK-183X	C CAPACITOR	.018MF 10% 16V	UB,US,UT,UX
	C 602	NCB31CK-223X	C CAPACITOR	.022MF 10% 16V	J
	C 603	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 604	NBE90GM-475X	TS E CAPACITOR		
	C 605	NBE91CM-105X	E CAPACITOR		
	C 606	NBM90JM-106X	TS E CAPACITOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 607	NCB21CK-224X	C CAPACITOR	.22MF 10% 16V	
	C 608	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 609	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 610	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 611	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 612	NCB31HK-221X	C CAPACITOR	220PF 10% 50V	
	C 614	NBM90JM-106X	TS E CAPACITOR		
	C 615	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	B,E,EE,EN,UY
	C 615	NCB30JK-474X	CER.CAPACITOR	.47MF 10% 16V	J
	C 615	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	UB,US,UT,UX
	C 616	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 901	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	
	C 903	NCB11CK-105X	C CAPACITOR	1.0MF 10% 16V	
	C 911	NCB21HK-332X	C CAPACITOR	3300PF 10% 50V	
	C 912	NCS31HJ-470X	C CAPACITOR	47PF 5% 50V	
	C 931	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C 932	NCB31HK-561X	C CAPACITOR	560PF 10% 50V	
	C 933	NCB31CK-103X	C CAPACITOR	.010MF 10% 16V	
	C 934	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 941	NBG40GM-226X	TS E CAPACITOR		
	C 942	NBEE0GM-336X	TA E CAPACITOR		
	C 951	NCB31HK-392X	C CAPACITOR	3900PF 10% 50V	
	C 952	NBE20JM-226X	TS E CAPACITOR		
	CN300	QGF0510F1-20X	FFC CONNECTOR	PICK	
	CN401	QGF0510F1-08X	FFC CONNECTOR	MECHA	
	D 60	F02J2E-X	DIODE		
	D 61	1SS355-X	DIODE		
	D 62	F02J2E-X	DIODE		
	D 63	F02J2E-X	DIODE		
	D 400	F02J2E-X	DIODE		
	D 503	F02J2E-X	DIODE		
	D 504	F02J2E-X	DIODE		
	D 505	1SS355-X	DIODE		
	D 601	F02J2E-X	DIODE		
	D 952	F02J2E-X	DIODE		
	IC 2	TC7S08F-W	IC		
	IC 60	TC7SL00FU-X	IC(DIGITAL)		
	IC 61	TC7SL00FU-X	IC(DIGITAL)		
	IC101	TC75W51FU-X	IC		
	IC102	TDA1308AT-X	I.C		
	IC103	IMX9-W	TRANSISTOR		
	IC203	IMX9-W	TRANSISTOR		
	IC300	CXA2523AR	IC		
	IC301	TK11225BMC-X	IC		
	IC351	CXD2655R	IC		
	IC352	TC7W08FU-X	IC		
	IC353	TK11226BMC-X	IC		
	IC354	TK11226BMC-X	IC		
	IC391	MN41X17400CT10X	IC		
	IC400	MPC17A39DTB-X	IC		
	IC450	CXA8069M	IC		
	IC451	TC7S04FU-X	IC		
	IC501	HD6433045SV14X	U-COM		
	IC502	AK93C45AV-W	IC		
	IC503	AK93C45AV-W	IC		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	IC504	S-80826ANNP-W	IC		
	IC601	TC75S51F-X	IC		
	IC602	TC7W66FU-X	IC		
	IC931	MB3800PFV-W	IC		
	IC952	S-8327B30MC-W	IC		
	K 101	NQR0129-004X	FERRITE BEADS		
	K 201	NQR0129-004X	FERRITE BEADS		
	K 601	NQR0129-004X	FERRITE BEADS		
	K 602	NRSA63J-100X	MG RESISTOR	10 5%	
	K 603	NQR0129-004X	FERRITE BEADS		
	L 400	NQL114K-471X	INDUCTOR		
	L 402	NQL365K-100X	INDUCTOR		
	L 403	NQL365K-100X	INDUCTOR		
	L 404	NQL365K-100X	INDUCTOR		
	L 405	NQL365K-100X	INDUCTOR		
	L 501	NQL302N-100X	INDUCTOR		
	L 601	NQL365K-220X	INDUCTOR		
	L 602	NQL302N-100X	INDUCTOR		
	L 911	NQR0290-001X	D/D CON TRANS		
	L 941	NQL114M-1R0X	INDUCTOR		
	L 951	NQL114K-470X	INDUCTOR		
	Q 60	2SA1588/G/-X	TRANSISTOR		
	Q 61	DTC144EE-X	DIGI TRANSISTOR		
	Q 62	2SC4081/QR/-X	TRANSISTOR		
	Q 101	2SC4081/QR/-X	TRANSISTOR		
	Q 102	2SD1979/ST/-X	TRANSISTOR		
	Q 103	DTC114TE-X	DIGI TRANSISTOR		
	Q 201	2SC4081/QR/-X	TRANSISTOR		
	Q 202	2SD1979/ST/-X	TRANSISTOR		
	Q 203	DTC114TE-X	DIGI TRANSISTOR		
	Q 300	2SB1219/RS/-X	TRANSISTOR		
	Q 301	DTA144EE-X	DIGI TRANSISTOR		
	Q 302	DTA114YE-X	DIGI TRANSISTOR		
	Q 503	DTA124XE-X	DIGI TRANSISTOR		
	Q 601	DTA114EE-X	DIGI TRANSISTOR		
	Q 911	SI2302DS-X	MOS FET		
	Q 912	2SD1620-X	TRANSISTOR		
	Q 931	DTC114YE-X	DIGI TRANSISTOR		
	Q 951	2SD1620-X	TRANSISTOR		
	Q 952	SI2301DS-X	TRANSISTOR		
	Q 953	2SC4081/QR/-X	TRANSISTOR		
	R 2	NRSA6AJ-222W	MG RESISTOR	2.2K 5%	
	R 3	NRSA6AJ-222W	MG RESISTOR	2.2K 5%	
	R 60	NRSA63J-472X	MG RESISTOR	4.7K 5%	
	R 61	NRSA63J-183X	MG RESISTOR	18K 5%	
	R 62	NRSA63J-183X	MG RESISTOR	18K 5%	
	R 64	NRSA63J-560X	MG RESISTOR	56 5%	
	R 65	NRSA6AJ-101W	MG RESISTOR	100 5%	
	R 66	NRSA63J-104X	MG RESISTOR	100K 5%	
	R 101	NRSA63J-102X	MG RESISTOR	1.0K 5%	B,E,EE,EN,UY
	R 101	NRSA63J-102X	MG RESISTOR	1.0K 5%	UB,US,UT,UX
	R 101	NRSA63J-202X	MG RESISTOR	2.0K 5%	J
	R 102	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R 103	NRSA63J-123X	MG RESISTOR	12K 5%	
	R 104	NRSA63J-473X	MG RESISTOR	47K 5%	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 107	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 108	NRSA63J-182X	MG RESISTOR	1.8K 5%	UB,US,UT,UX
	R 108	NRSA63J-272X	MG RESISTOR	2.7K 5%	J
	R 108	NRSA63J-182X	MG RESISTOR	1.8K 5%	B,E,EE,EN,UY
	R 110	NRSA63J-562X	MG RESISTOR	5.6K 5%	
	R 112	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 114	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 116	NRSA63J-682X	MG RESISTOR	6.8K 5%	
	R 117	NRSA63J-243X	MG RESISTOR	24K 5%	
	R 118	NRSA63J-473X	MG RESISTOR	47K 5%	
	R 119	NRSA63J-153X	MG RESISTOR	15K 5%	
	R 120	NRSA63J-4R7X	MG RESISTOR	4.7 5%	
	R 121	NRSA63J-331X	MG RESISTOR	330 5%	
	R 122	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 123	NRSA63J-4R7X	MG RESISTOR	4.7 5%	
	R 125	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 126	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 127	NRSA63J-332X	MG RESISTOR	3.3K 5%	
	R 128	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 201	NRSA63J-102X	MG RESISTOR	1.0K 5%	B,E,EE,EN,UY
	R 201	NRSA63J-202X	MG RESISTOR	2.0K 5%	J
	R 201	NRSA63J-102X	MG RESISTOR	1.0K 5%	UB,US,UT,UX
	R 202	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R 203	NRSA63J-123X	MG RESISTOR	12K 5%	
	R 204	NRSA63J-473X	MG RESISTOR	47K 5%	
	R 207	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 208	NRSA63J-182X	MG RESISTOR	1.8K 5%	UB,US,UT,UX
	R 208	NRSA63J-272X	MG RESISTOR	2.7K 5%	J
	R 208	NRSA63J-182X	MG RESISTOR	1.8K 5%	B,E,EE,EN,UY
	R 210	NRSA63J-562X	MG RESISTOR	5.6K 5%	
	R 212	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 214	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 216	NRSA63J-682X	MG RESISTOR	6.8K 5%	
	R 217	NRSA63J-243X	MG RESISTOR	24K 5%	
	R 218	NRSA63J-473X	MG RESISTOR	47K 5%	
	R 219	NRSA63J-153X	MG RESISTOR	15K 5%	
	R 220	NRSA63J-4R7X	MG RESISTOR	4.7 5%	
	R 221	NRSA63J-331X	MG RESISTOR	330 5%	
	R 222	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 223	NRSA63J-4R7X	MG RESISTOR	4.7 5%	
	R 225	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 226	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 227	NRSA63J-332X	MG RESISTOR	3.3K 5%	
	R 228	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 300	NRSA63J-1ROX	MG RESISTOR	1.0 5%	
	R 301	NRSA63J-1ROX	MG RESISTOR	1.0 5%	
	R 302	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 304	NRSA63J-222X	MG RESISTOR	2.2K 5%	
	R 305	NRSA63J-331X	MG RESISTOR	330 5%	
	R 306	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 307	NRSA63J-104X	MG RESISTOR	100K 5%	
	R 308	NRSA6AJ-222W	MG RESISTOR	2.2K 5%	
	R 311	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 314	NRSA6AJ-133W	MG RESISTOR	13K 5%	
	R 315	NRSA6AJ-133W	MG RESISTOR	13K 5%	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 316	NRSA6AJ-243W	MG RESISTOR	24K 5%	
	R 320	NRSA6AJ-563W	MG RESISTOR	56K 5%	
	R 321	NRSA63J-331X	MG RESISTOR	330 5%	
	R 322	NRSA63J-331X	MG RESISTOR	330 5%	
	R 323	NRSA63J-331X	MG RESISTOR	330 5%	
	R 324	NRSA63J-102X	MG RESISTOR	1.0K 5%	
	R 325	NRSA63J-331X	MG RESISTOR	330 5%	
	R 326	NRSA63J-331X	MG RESISTOR	330 5%	
	R 328	NRSA63J-101X	MG RESISTOR	100 5%	
	R 329	NRSA6AJ-472W	MG RESISTOR	4.7K 5%	
	R 333	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 335	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 336	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 337	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 338	NRSA63J-102X	MG RESISTOR	1.0K 5%	
	R 339	NRSA63J-220X	MG RESISTOR	22 5%	
	R 340	NRSA6AJ-913W	MG RESISTOR	91K 5%	
	R 341	NRSA6AJ-221W	MG RESISTOR	220 5%	
	R 351	NRSA6AJ-221W	MG RESISTOR	220 5%	
	R 354	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 356	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 359	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 360	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 361	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 362	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 363	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 364	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 365	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 366	NRSA6AJ-221W	MG RESISTOR	220 5%	
	R 367	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 368	NRSA6AJ-101W	MG RESISTOR	100 5%	
	R 372	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 373	NRSA63J-104X	MG RESISTOR	100K 5%	
	R 374	NRSA63J-684X	MG RESISTOR	680K 5%	
	R 375	NRSA6AJ-101W	MG RESISTOR	100 5%	
	R 377	NRSA6AJ-332W	MG RESISTOR	3.3K 5%	
	R 378	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 379	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 380	NRSA6AJ-105W	MG RESISTOR	1.0M 5%	
	R 382	NRSA6AJ-105W	MG RESISTOR	1.0M 5%	
	R 383	NRSA6AJ-151W	MG RESISTOR	150 5%	
	R 385	NRSA6AJ-103W	MG RESISTOR	10K 5%	
	R 386	NRSA6AJ-103W	MG RESISTOR	10K 5%	
	R 387	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 388	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 389	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 400	NRSA63J-104X	MG RESISTOR	100K 5%	
	R 401	NRSA63J-102X	MG RESISTOR	1.0K 5%	
	R 402	NRSA02J-100X	MG RESISTOR	10 5% 1/10W	
	R 450	NRSA63J-223X	MG RESISTOR	22K 5%	
	R 451	NRSA63J-223X	MG RESISTOR	22K 5%	
	R 452	NRSA6AJ-102W	MG RESISTOR	1.0K 5%	
	R 454	NRSA63J-104X	MG RESISTOR	100K 5%	
	R 455	NRSA02J-1ROX	MG RESISTOR	1.0 5% 1/10W	
	R 456	NRSA02J-1ROX	MG RESISTOR	1.0 5% 1/10W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 457	NRSA02J-1R0X	MG RESISTOR	1.0 5% 1/10W	
	R 458	NRSA02J-1R0X	MG RESISTOR	1.0 5% 1/10W	
	R 459	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R 460	NRSA63J-225X	MG RESISTOR	2.2M 5%	
	R 461	NRSA63J-473X	MG RESISTOR	47K 5%	
	R 465	NRSA63J-683X	MG RESISTOR	68K 5%	
	R 466	NRSA63J-100X	MG RESISTOR	10 5%	
	R 501	NRSA63J-273X	MG RESISTOR	27K 5%	
	R 502	NRSA6AJ-474W	MG RESISTOR	470K 5%	
	R 505	NRSA6AJ-474W	MG RESISTOR	470K 5%	
	R 506	NRSA6AJ-103W	MG RESISTOR	10K 5%	
	R 508	NRSA63J-221X	MG RESISTOR	220 5%	
	R 509	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 519	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 520	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 521	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 522	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 525	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 527	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 528	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 529	NRSA63J-104X	MG RESISTOR	100K 5%	
	R 530	NRSA63J-102X	MG RESISTOR	1.0K 5%	
	R 531	NRSA6AJ-473W	MG RESISTOR	47K 5%	
	R 533	NRSA63J-184X	MG RESISTOR	180K 5%	
	R 534	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 535	NRSA63J-562X	MG RESISTOR	5.6K 5%	
	R 590	NRSA6AJ-104W	MG RESISTOR	100K 5%	
	R 601	NRSA63J-153X	MG RESISTOR	15K 5%	
	R 602	NRSA63J-683X	MG RESISTOR	68K 5%	
	R 603	NRSA63J-683X	MG RESISTOR	68K 5%	
	R 604	NRSA63J-393X	MG RESISTOR	39K 5%	J
	R 604	NRSA63J-474X	MG RESISTOR	470K 5%	UB,US,UT,UX
	R 604	NRSA63J-474X	MG RESISTOR	470K 5%	B,E,EE,EN,UY
	R 605	NRSA63J-223X	MG RESISTOR	22K 5%	
	R 606	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 607	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 608	NRSA63J-683X	MG RESISTOR	68K 5%	
	R 609	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 610	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 611	NRSA63J-102X	MG RESISTOR	1.0K 5%	
	R 612	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 613	NRSA63J-103X	MG RESISTOR	10K 5%	
	R 614	NRSA63J-104X	MG RESISTOR	100K 5%	
	R 912	NRSA63J-470X	MG RESISTOR	47 5%	
	R 913	NRSA63J-272X	MG RESISTOR	2.7K 5%	
	R 921	NRVA63D-473X	CMF RESISTOR	47K	
	R 922	NRVA63D-912X	CMF RESISTOR	9.1K	
	R 923	NRSA63J-682X	MG RESISTOR	6.8K 5%	
	R 931	NRSA63J-821X	MG RESISTOR	820 5%	
	R 932	NRVA63D-332X	MF RESISTOR	3.3K	
	R 933	NRVA63D-122X	MG RESISTOR	1.2K	
	R 934	NRSA63J-0R0X	MG RESISTOR	5%	
	R 935	NRSA63J-472X	MG RESISTOR	4.7K 5%	
	R 951	NRSA63J-392X	MG RESISTOR	3.9K 5%	
	R 952	NRSA63J-101X	MG RESISTOR	100 5%	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 953	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 954	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 955	NRSA63J-154X	MG RESISTOR	150K 5%	
	R 956	NRSA63J-474X	MG RESISTOR	470K 5%	
	R 991	NRZ0046-1R0X	RESISTOR	1.0	
	R 992	NRZ0046-1R0X	RESISTOR	1.0	
	R 993	NRZ0046-1R0X	RESISTOR	1.0	
	S 500	NSW0099-001X	SLIDE SWITCH		
	TH501	NAD0021-103X	THERMISTOR		
	VR921	NVP0013-222X	V RESISTOR		
	X 300	NAX0249-001X	CRYSTAL		
	X 500	NAX0275-001X	C OSCIALLATOR		

■ Headphone Jack board

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	J 101	QNS0098-001	3.5 JACK		

■ Switch board

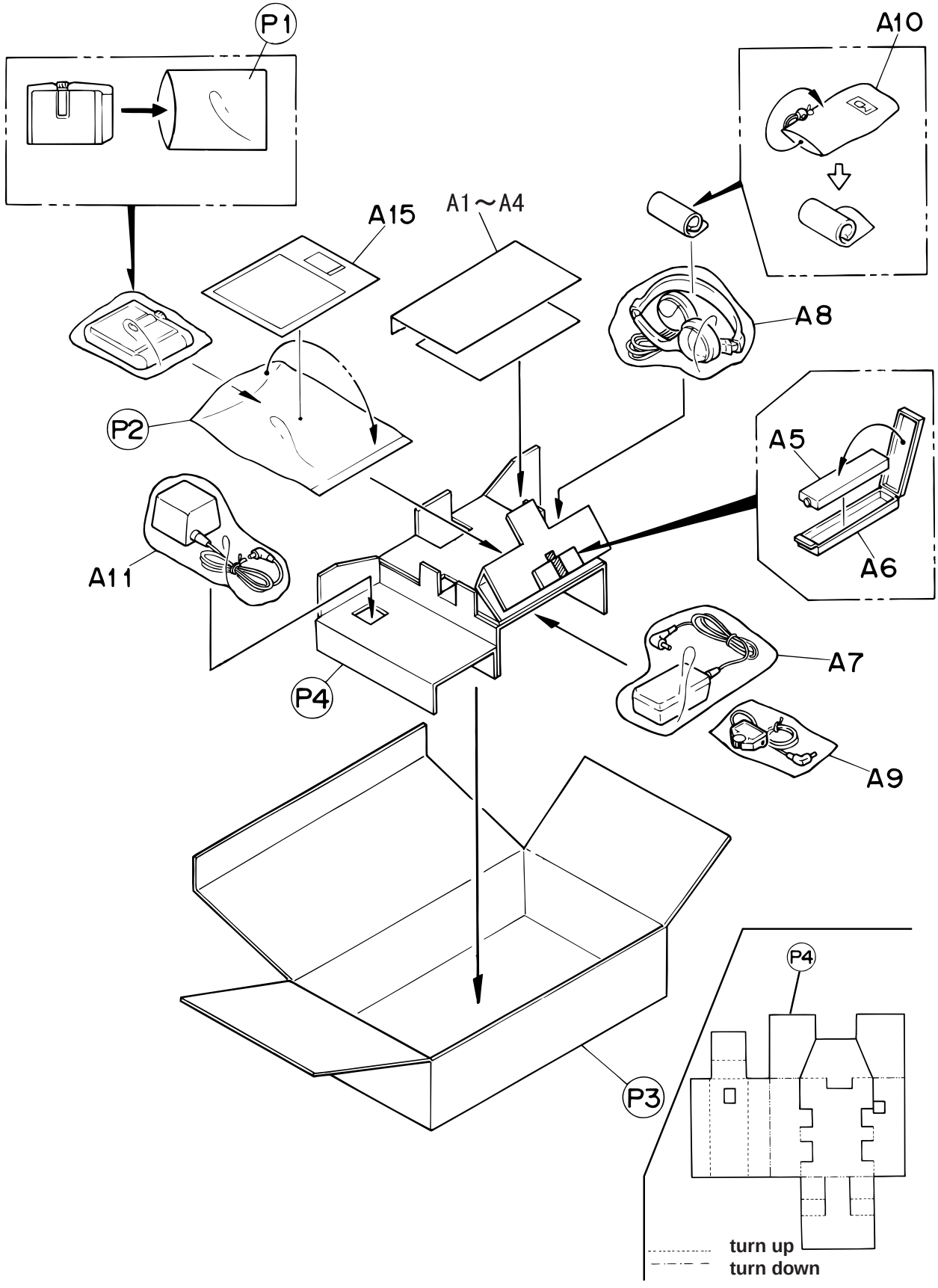
BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 591	NRSA63J-153X	MG RESISTOR	15K 5%	
	R 592	NRSA63J-183X	MG RESISTOR	18K 5%	
	R 593	NRSA63J-273X	MG RESISTOR	27K 5%	
	S 591	NSW0053-001X	TACT SWITCH		
	S 592	NSW0053-001X	TACT SWITCH		
	S 593	NSW0053-001X	TACT SWITCH		
	S 594	NSW0053-001X	TACT SWITCH		
	S 597	NSW0053-001X	TACT SWITCH		

Packing Materials and Accessories Parts List

Block No. M 3 M M
Block No. M 4 M M

■ **J Version Section**



■ Packing Parts list

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	LV30245-003A	POLY BAG		1		
	P 2	LV31153-001A	BARRIER BAG		1		
	P 3	LV30627-003A	CARTON BOX		1		
	P 4	LV31083-001A	PAPER CUSHION		1		

■ Accessories Parts list

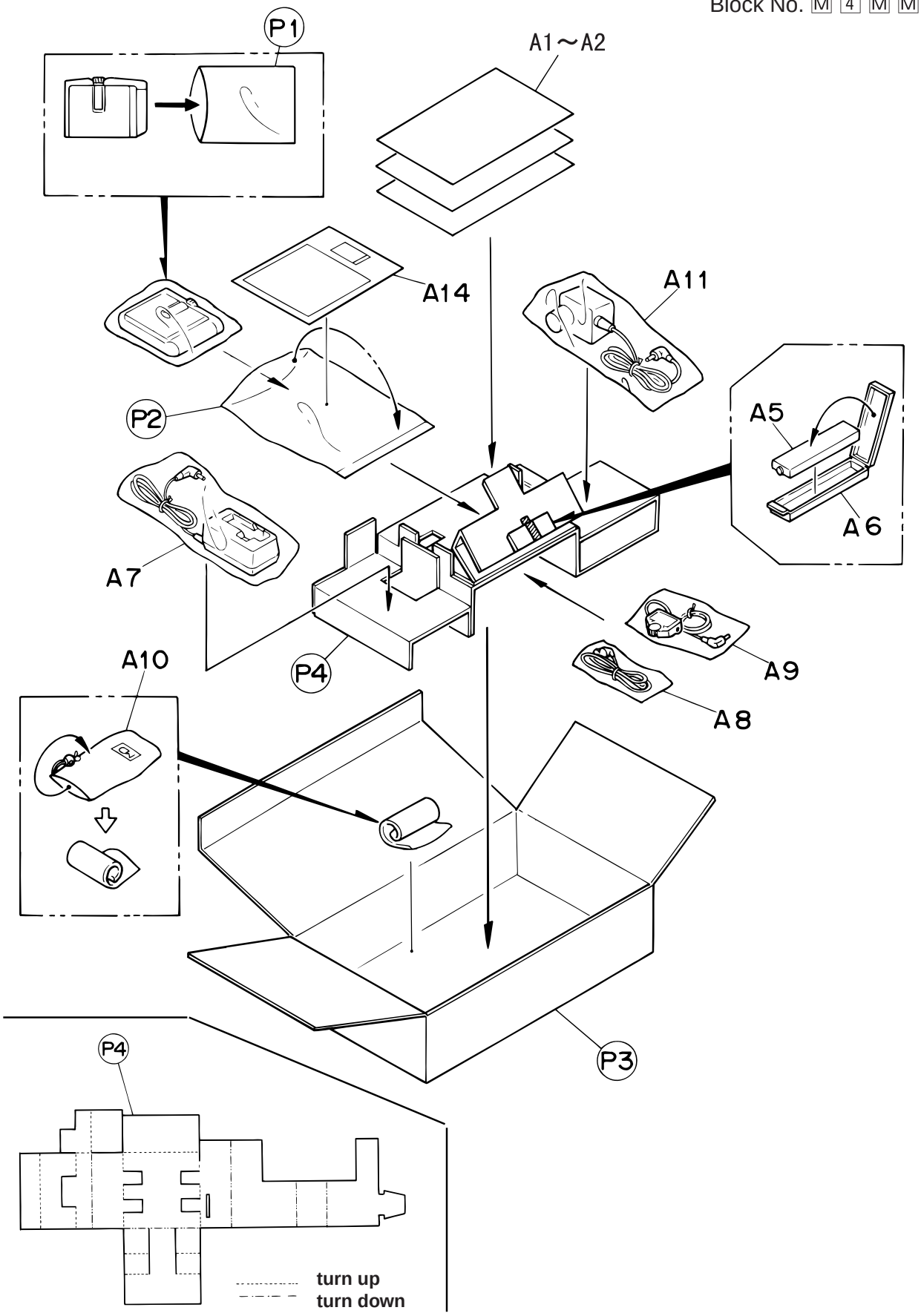
BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0122-005A	INSTRUCTIONS		1		
	A 2	BT-51009-3	WARRANTY CARD		1		
		BT-52001-4	WARRANTY CARD		1		
	A 3	BT-51015-2	SERVICE NETWORK		1		
		BT-20071B	SERVICE NETWORK		1		
	A 4	BT-20044G	SAFETY SHEET		1		
	A 5	QAB0011-003	BATTERY PACK	BN-R127	1		
	A 6	LV30791-001A	BATTERY CASE		1		
	A 7	QAL0121-001	BATTERY CHARGER	AC-R124	1		
	A 8	QAN0022-001	HEADPHONE		1		
	A 9	QAL0132-001	WIRE REMOCON		1		
	A 10	LV30472-004A	SOFT CASE		1		
	A 11	QAL0124-001	AC ADAPTOR		1		
	A 15	LV31129-001A	CAUTION SHEET		1		

Packing Materials and Accessories Parts List

■E/EE/EN/ Version Section

Block No. M 3 M M
Block No. M 4 M M



■ Packing Parts list

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	LV30245-003A	POLY BAG		1		
	P 2	LV31153-001A	BARRIER BAG		1		
	P 3	LV30627-003A	CARTON BOX		1		
	P 4	LV31085-001A	PAPER CUSHION		1		

■ Accessories Parts list

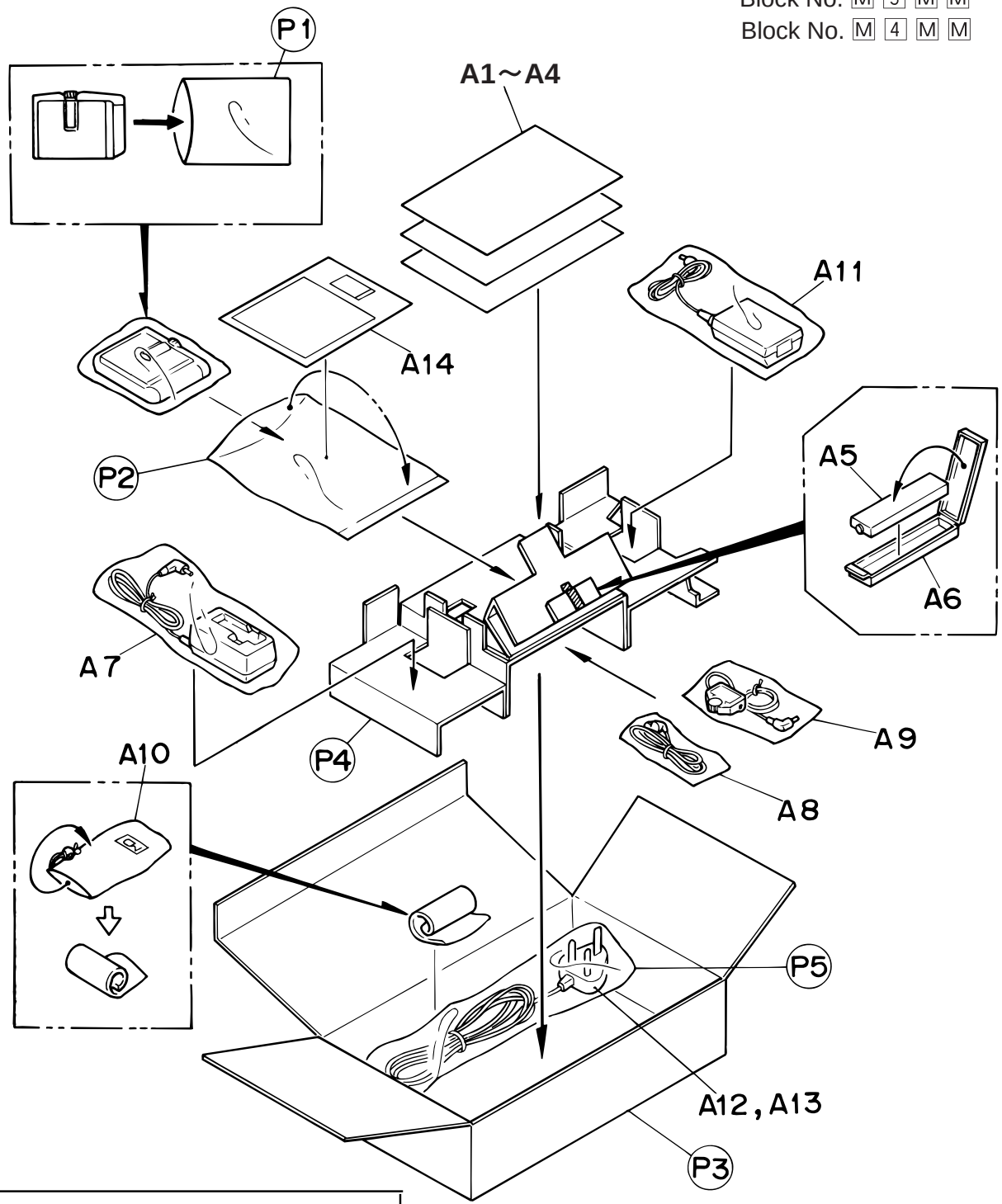
BLOCK NO. M4MM

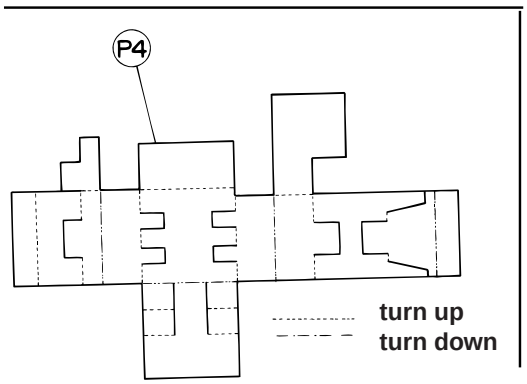
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0122-001A	INSTRUCTIONS		1	E	
		LVT0122-002A	INSTRUCTIONS		1	E,EN	
		LVT0122-003A	INSTRUCTIONS		1	EN	
		LVT0122-006A	INSTRUCTIONS		1	EE	
	A 2	BT-54008-1	WARRANTY CARD		1	E,EN	
		BT-54012-01	WARRANTY CARD		1	EE	
	A 5	QAB0011-003	BATTERY PACK	BN-R127	1		
	A 6	LV30791-001A	BATTERY CASE		1		
	A 7	QAL0121-001	BATTERY CHARGER	AC-R124	1		
	A 8	QAN0021-001	HEADPHONE		1		
	A 9	QAL0132-001	WIRE REMOCON		1		
	A 10	LV30472-004A	SOFT CASE		1		
	A 11	QAL0120-001	AC ADAPTOR		1		
	A 14	LV31129-001A	CAUTION SHEET		1		

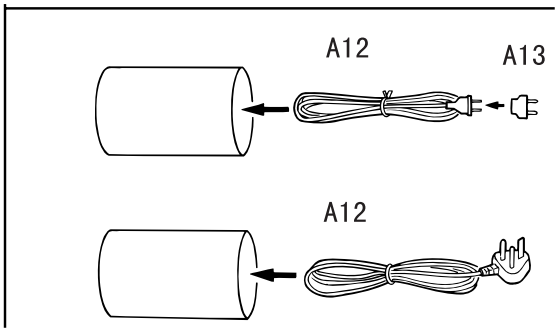
Packing Materials and Accessories Parts List

■B/UB/US/UT/UX/UY/ Version Section

Block No. M 3 M M
Block No. M 4 M M







■Packing Parts List

BLOCK NO. M3MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	LV30245-003A	POLY BAG		1		
	P 2	LV31153-001A	BARRIER BAG		1		
	P 3	LV30627-003A	CARTON BOX		1		BU
		LV30627-004A	CARTON BOX		1		GD
	P 4	LV31084-001A	PAPER CUSHION		1		
	P 5	QPA01202505	POLY BAG		1	US,UT,UX,UY	
		QPA01503503	POLY BAG		1	B,UB	

■Accessories Parts List

BLOCK NO. M4MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0122-004A	INSTRUCTIONS		1	B	
		LVT0122-007A	INSTRUCTIONS		1	UB,US,UT,UY	
		LVT0122-008A	INSTRUCTIONS		1	UX	
	A 2	BT-54008-1	WARRANTY CARD		1	B	
	A 3	E43486-340B	SAFETY SHEET		1	B	
	A 4	LV3025-050A	UB SHEET		1	UB	
	A 5	QAB0011-003	BATTERY PACK	BN-R127	1		
	A 6	LV30791-001A	BATTERY CASE		1		
	A 7	QAL0121-001	BATTERY CHARGER	AC-R124	1		
	A 8	QAN0021-001	HEADPHONE		1		
	A 9	QAL0132-001	WIRE REMOCON		1		
	A 10	LV30472-004A	SOFT CASE		1		
	A 11	QAL0123-001	AC ADAPTOR		1	B	
		QAL0133-001	AC ADAPTOR		1	UB,US,UT	
		QAL0133-001	AC ADAPTOR		1	UX,UY	
	A 12	QMPP060-183-JD	POWER CORD		1	UB	
		QMPS050-183-JC	POWER CORD		1	UY	
		QMP39F0-083	POWER CORD		1	US	
		QMP5520-183	POWER CORD		1	B	
		QMP7350-150	POWER CORD		1	UT,UX	
	A 13	QAM0027-001	SIEMENS PLUG		1	UT,UX	
		QAM0060-001	SIEMENS PLUG		1	US	
	A 14	LV31129-001A	CAUTION SHEET		1		

XM-P55
XM-PJ1

JVC

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