

HCD-H61/H61M

SERVICE MANUAL

Discard HCD-H61/H61M Service Manual (No. 9-957-612-11) previously issued. This Service Manual contains it.

- HCD-H61 is the tuner, deck, CD and amplifier section in FH-B610/B700.
- HCD-H61M is the tuner, deck, CD and amplifier section in MHC-610.



Photo: HCD-H61 E model

AEP Model
E Model
Australian Model
Tourist Model
HCD-H61

US Model
Canadian Model
AEP Model
UK Model
HCD-H61M

SPECIFICATION

AUDIO POWER SPECIFICATIONS (For the Customers in the USA)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, both channels driven, from 60 Hz—20 kHz; rated 35 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

Tuner section

FM stereo. FM/AM superheterodyne tuner

FM tuner section

Tuning range For tourists model
76.0—108.0 MHz
For East European model
65.0—74.0 MHz
87.5—108.0 MHz
For other countries models
87.5—108.0 MHz

Antenna FM lead antenna (for HCD-H61M)
Telescopic antenna (for HCD-H61)

Antenna terminals
75 ohm unbalanced

Intermediate frequency
10.7 MHz

AM tuner section

Tuning range For US, Canadian model
AM: 530—1,710 kHz
For Italian model
AM: 522—1,611 kHz
For Germany model
AM: 531—1,602 kHz
For AEP, East European, UK model
MW: 531—1,602 kHz
LW: 153—279 kHz

CD Section	Model Name Using Similar Mechanism		NEW
	CD Mechanism Type		CDM13B-5BD4E
Tape deck Section	Base Unit Name		BU-5BD4E
	Model Name Using Similar Mechanism		DXA-H2750
	Tape Transport Mechanism Type	DECK A	TCM-190RA12A
		DECK B	TCM-190RB22A

For other countries models

MW : 531—1,602 kHz (at 9 kHz step)
530—1,710 kHz (at 10 kHz step,
except for Middle Eastern model)

SW : 5.950—17.900 MHz

Antenna AM loop antenna

External antenna terminals

Intermediate frequency

450 kHz

Amplifier section

For AEP, UK, East European, Germany, Italian model

Continuous RMS power output

35+35 watts (6 ohms at 1 kHz, DIN)

40+40 watts (6 ohms at 1 kHz, 5% THD)

Music power output

80+80 watts (6 ohms at 1 kHz, 10% THD)

For US, Canadian model

35+35 watts (6 ohms at 1 kHz, 5% THD)

For other countries models

Continuous RMS power output

40+40 watts (6 ohms at 1 kHz, 5% THD)

Peak music power output

450 watts (4 speakers driven)

Inputs

For E, Saudi Arabia, Australian,
Malaysia, Singapore, Tourist model
MIX MIC (minijack)

Sensitivity 1 mV,

impedance 600 ohms

VIDEO/AUX (phono jack)

sensitivity 250 mV,

impedance 47 kilohms

For AEP, UK, Germany, East European,
Italian model

PHONO (phono jack)

sensitivity 5 mV,

impedance 47 kilohms

For US, Canadian model

VIDEO/AUX (phono jack)

sensitivity 250 mV,

impedance 47 kilohms

— Continued on next page —

COMPACT DISC DECK RECEIVER
SONY®



Outputs
HEADPHONES (stereo minijack):
 accept headphones of 8 ohms
 or more.
SPEAKERS: accept impedance of 6 to
 16 ohms.
SURROUND SPEAKER (only for E,
 Saudi Arabia, Australian, Malaysia,
 Singapore, Tourist):
 accept impedance of 8 to 16 ohms.

Cassette deck section

Recording system
 4-track 2-channel stereo

Frequency response

(DOLBY NR OFF)
 60—13,000 HZ (± 3 dB),
 using TYPE I
 cassette (Sony HF-S)
 60—14,000 Hz (± 3 dB),
 using TYPE II
 cassette (Sony UX-S)

Wow and flutter

0.1% WRMS $\pm$ 0.3% (DIN)

Compact disc player section

System Compact disc digital audio systme
 Laser Semiconductor laser
 Wavelength=780—790 nm

General

Destination	Power requirements	Power consumption
US, Canadian	120V AC, 60Hz	100 watts
AEP, G, IT, EE	220—230V AC, 50/60Hz	110 watts
UK	240V AC, 50Hz	240W
Australian		130W
E, EA, MY, SP, JE	110—120V/220—240V AC adjustable, 50/60Hz	130 watts

● AUS : Australian model
 EA : Saudi Arabia model
 G : Germany model
 EE : East European model
 IT : Italian model
 MY : Malaysia model
 SP : Singapore model
 JE : Tourist model

Dimensions

Approx. 225 X 285 X 265 mm (w/h/d)
 (8 $\frac{7}{8}$ X 11 $\frac{1}{4}$ X 10 $\frac{1}{2}$ inches)
 incl. projecting parts and controls

Mass Approx. 6.3 kg (14 lb 5 oz)

Design and specifications subject to change
 without notice.

Note

This appliance conforms with EEC Directive
 87/308/EEC regarding interference suppression.

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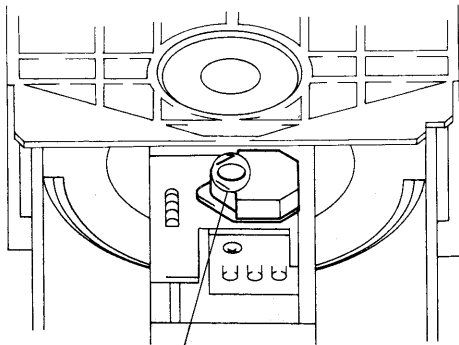
Dolby noise reduction manufactured under license from
 Dolby Laboratories Licensing Corporation.
 "DOLBY" and the double-D symbol  are trademarks of
 Dolby Laboratories Licensing Corporation.

SECTION 1

SERVICING NOTES

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the following operation is performed while observing the objecting lens.



- ① Confirm that laser beam is spread.
- ② Up and down motion of the objective lens. (3 times)

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

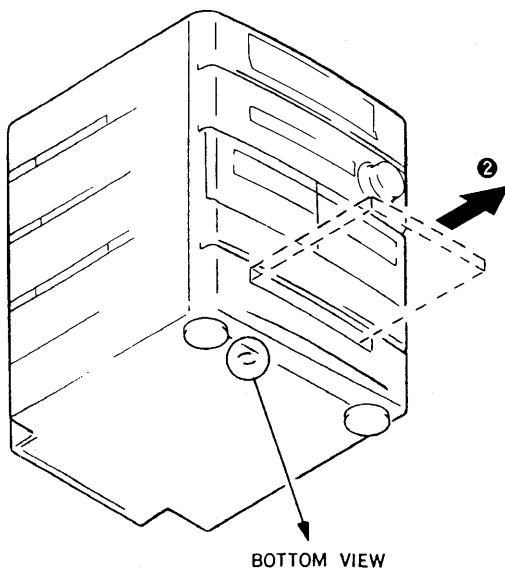
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

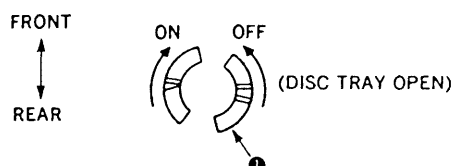
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



BOTTOM VIEW



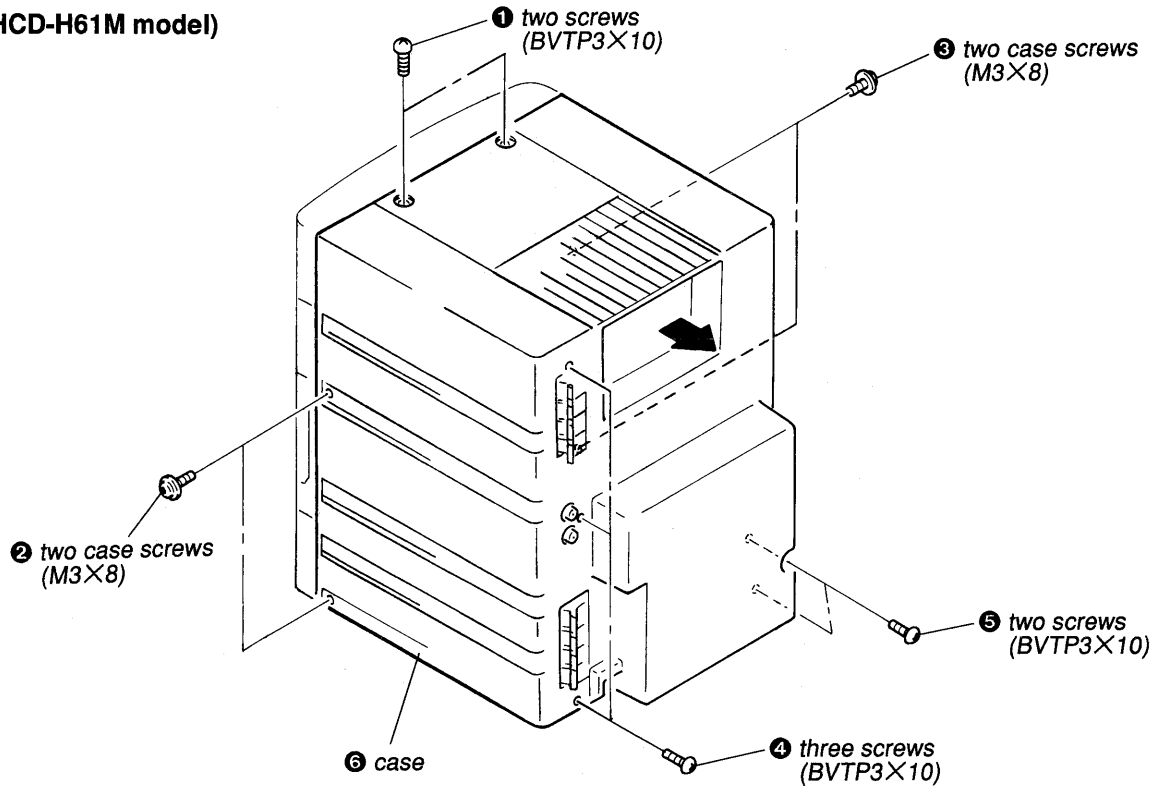
- (1) Insert to ① for tapering driver, etc., and turn in the direction of arrow OFF. (Disc tray open)
- (2) Tray as come out little of front panel, pull out in the direction of arrow ② by hand.

SECTION 3 DISASSEMBLY

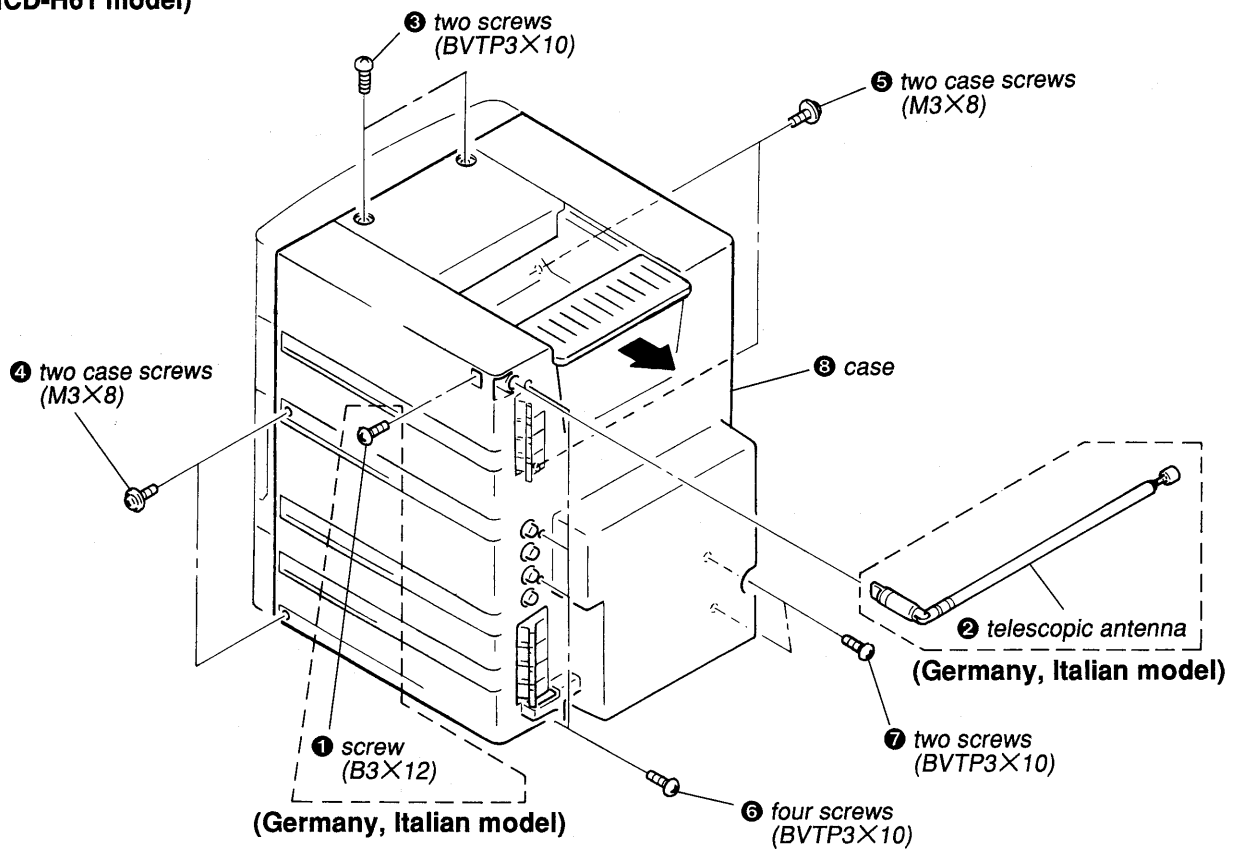
NOTE: Follow the disassembly procedure in the numerical order given.

3-1. CASE REMOVAL

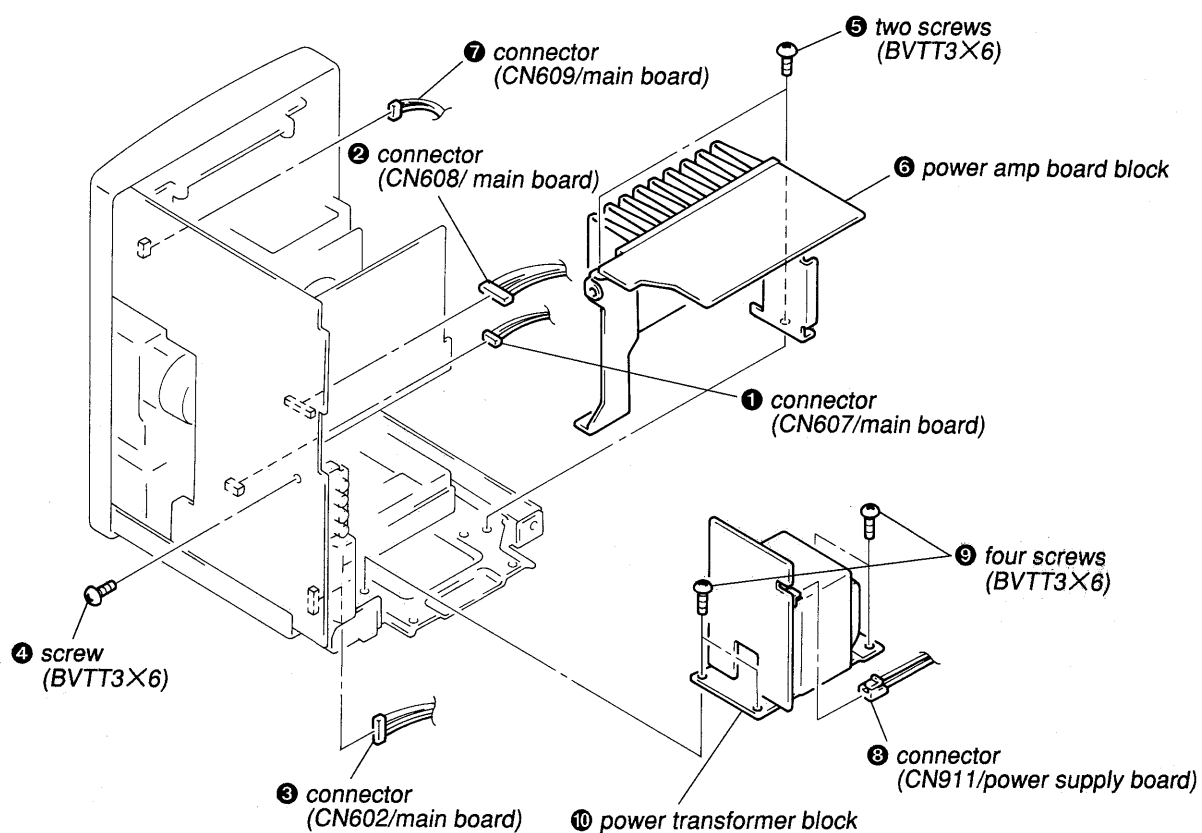
(HCD-H61M model)



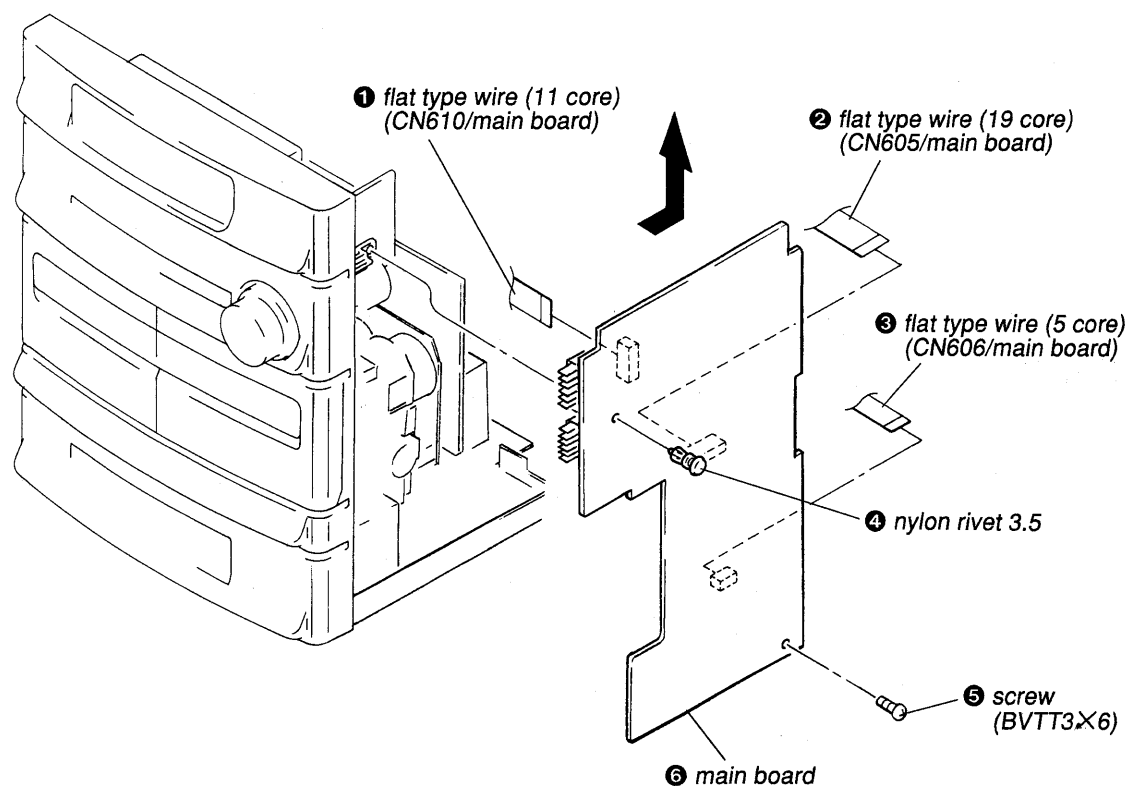
(HCD-H61 model)



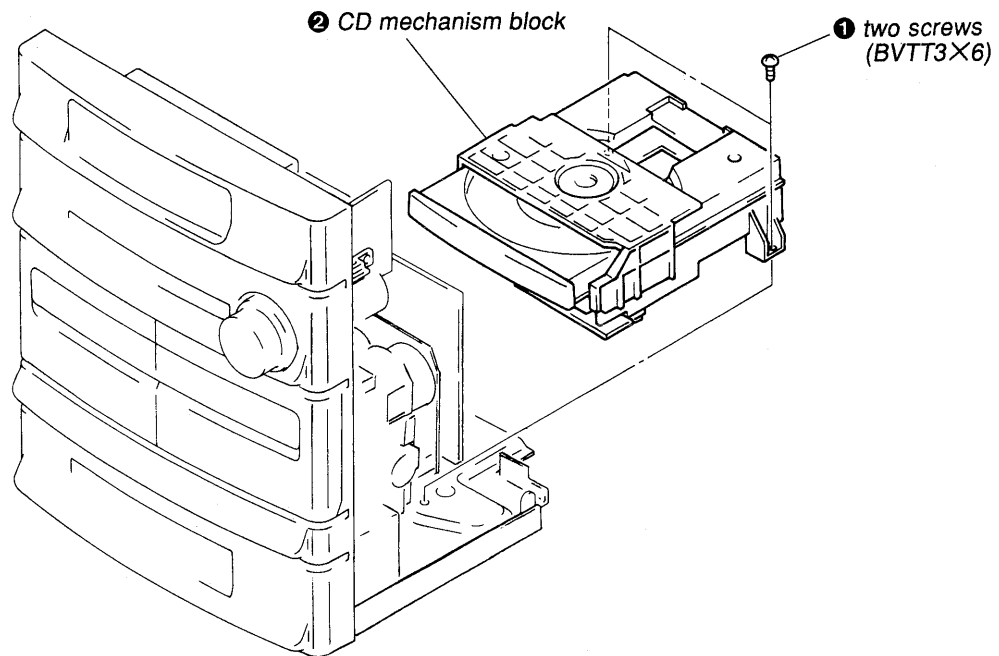
3-2. POWER BLOCK REMOVAL



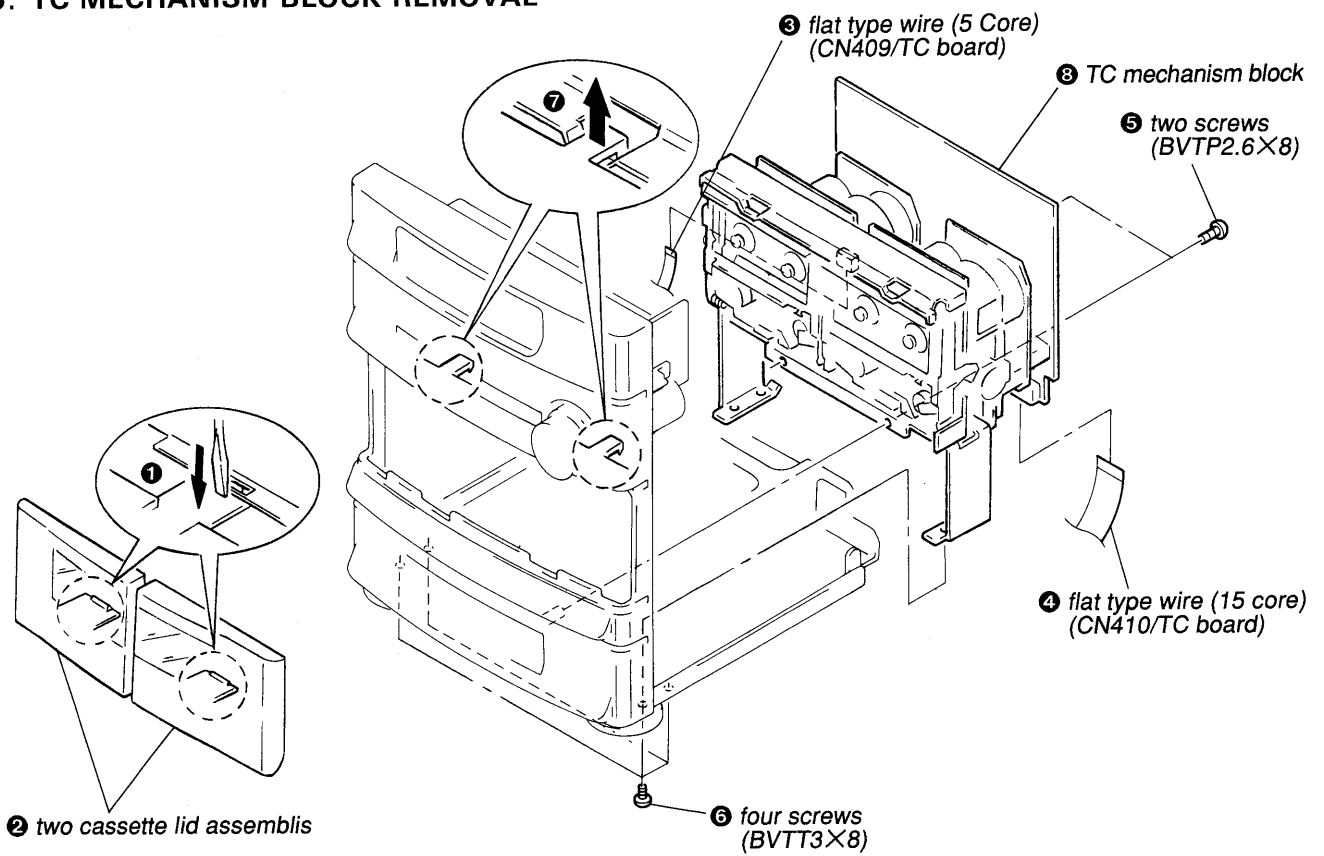
3-3. MAIN BOARD REMOVAL



3-4. CD MECHANISM BLOCK REMOVAL



3-5. TC MECHANISM BLOCK REMOVAL



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belt
capstan	idler
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustment.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustment should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

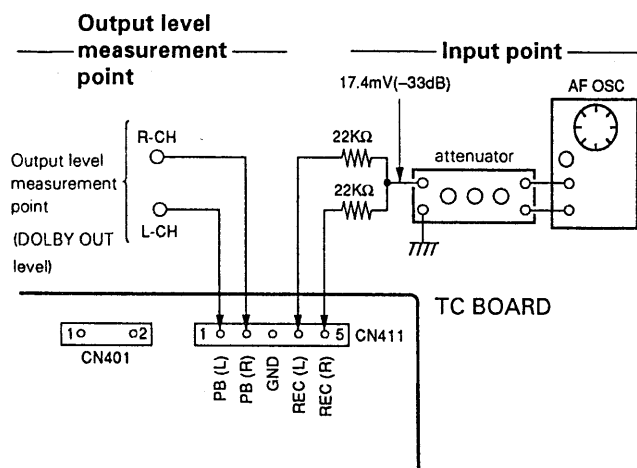
Torque	Torque meter	Meter reading
Forward	CQ-102C	35 to 60g • cm (0.49 to 0.83oz • inch)
Forward back tension	CQ-102C	2 to 6g • cm (0.028 to 0.08oz • inch)
Reverse	CQ-102RC	35 to 60g • cm (0.49 to 0.83oz • inch)
Reverse back tension	CQ-102RB	2 to 6g • cm (0.028 to 0.08oz • inch)
FF/REW	CQ-201B	70 to 110g • cm (0.98 to 1.52oz • inch)

SECTION 5 ELECTRICAL ADJUSTMENTS

REVISED

DECK SECTION

- The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch: OFF
FUNCTION button: CD
- Perior to electrical adjustments, short the connector CN401 (test mode).
- Input point and output level measurement point.



• Test Tape

Tape	Contents	Use
P-4-A100	10kHz, -10dB	Head Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

0dB = 0.775V

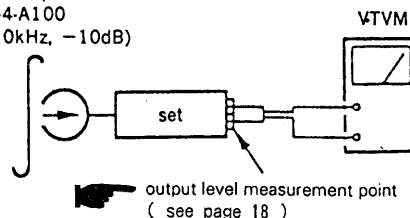
Record/Playback Head Azimuth Adjustment

DECK A DECK B

Procedure :

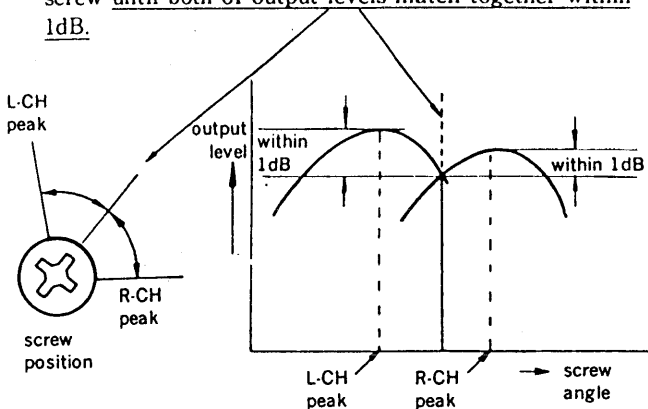
- Forward Playback Mode
Reverse Playback Mode

test tape
P-4-A100
(10kHz, -10dB)



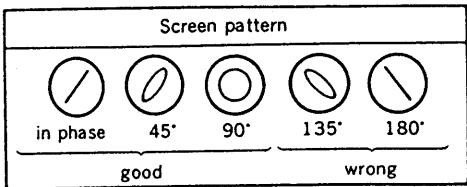
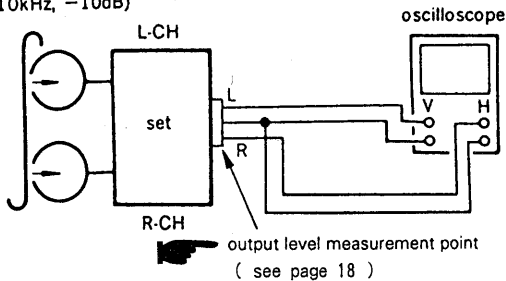
output level measurement point
(see page 18)

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



3. Playback Mode

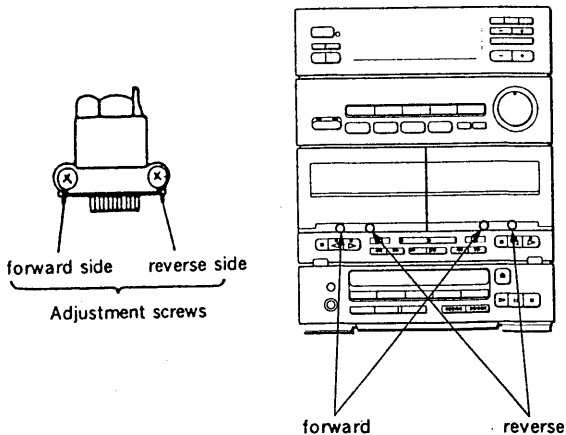
test tape
P-4-A100
(10kHz, -10dB)



4. Change the review playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location :

—record/playback head (deck A and B)



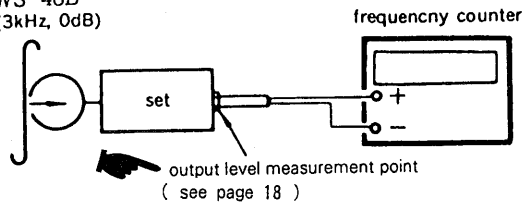
Tape Speed Adjustment DECK A DECK B

Procedure :

- Perform high speed adjustment before normal speed adjustment.

Mode : playback

test tape
WS-48B
(3kHz, 0dB)



Speed	Deck	Adjustment	Frequency counter
※ High	A	RV72	5,970 to 6.030Hz
	B	RV72	
Normal	A	RV71	2,985 to 3,015Hz
	B	RV71	

※ Continue to press HIGH SPEED DUBBING switch (S557) in playback mode : High speed playback.

Frequency difference between the beginning and the end of the tape should be within ±3%.

Frequency difference between deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location: MD (AX) and MD (BX) boards.

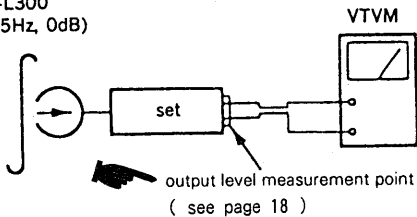
(see page 20)

Playback Level Adjustment DECK A DECK B

Procedure :

Mode : playback

test tape
P-4-L300
(315Hz, 0dB)



Deck A is RV11 (L-CH) and RV21 (R-CH), deck B is RV11 (L-CH) and RV21 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level :

LINE OUT level : $-12.7 \pm 1.0\text{dB}$ (0.16 to 0.20V)

Level Difference between Channels : within 0.5dB

Confirm the DOLBY OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : MD (AX) and MD (BX) boards

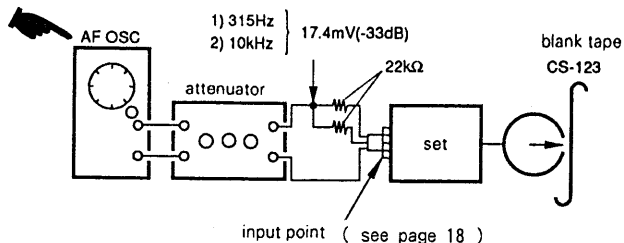
(see page 20)

REVISED

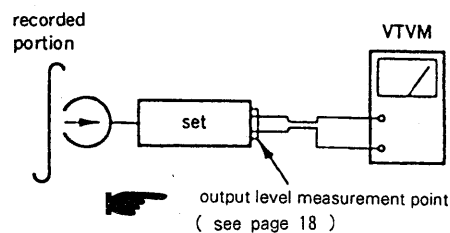
Record Bias Adjustment **DECK B**

Procedure :

1. record mode



2. playback mode



Confirm playback the signal recorded in step 1 become adjustment level as follows.

If these levels do not adjustment level, adjustment the RV12 (L-CH) and RV22 (R-CH) to repeat step 1 and 2.

Adjustment level : Playback output of 315Hz to playback output of 10kHz : -0.5dB to 0.5dB .
(0.732 to 0.821V)

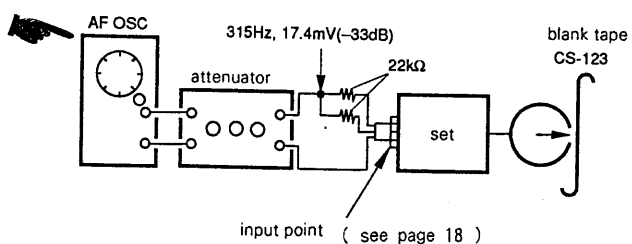
Adjustment Location : MD (BX) board
(see page 20)

Record Level Adjustment **DECK B**

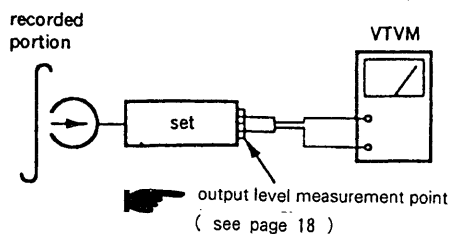
FUNCTION button: CD

Procedure :

1. record mode



2. playback mode



Confirm playback the signal recorded in step become adjustment level as follows.

If these levels do not adjustment level, adjustment the RV103 (L-CH) and RV203 (R-CH) to repeat step 1 and 2.

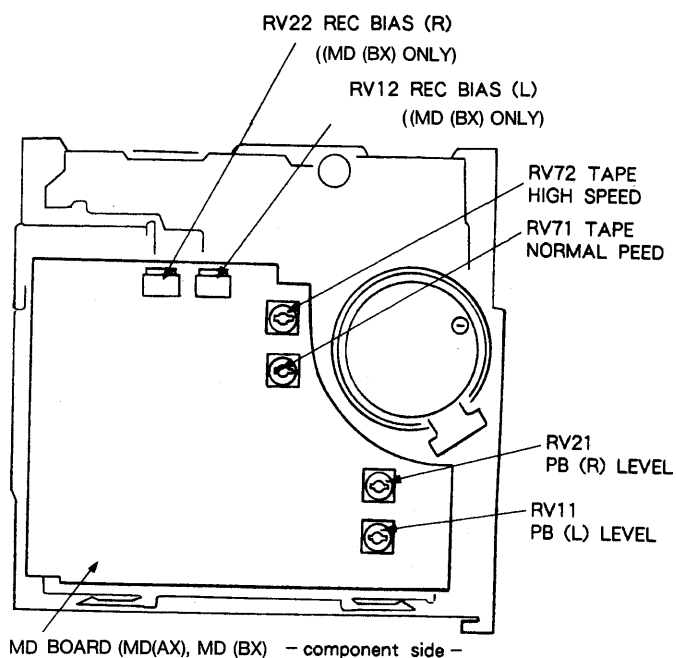
Adjustment Level :

DOLBY OUT level : $-33\text{dB} \pm 0.5\text{dB}$ (16.4 to 18.4mV)

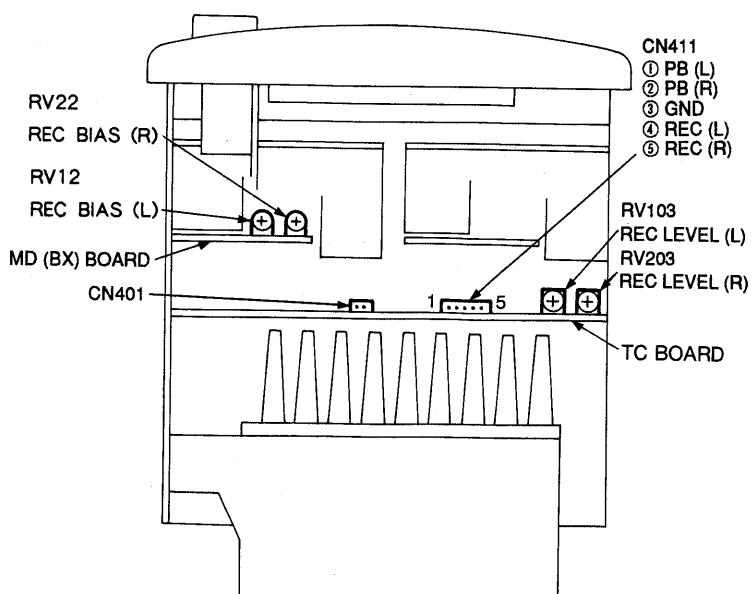
Adjustment Location : TC board

Adjustment Location :

Mechanism deck - rear side -



TC board - component side -



REVISED

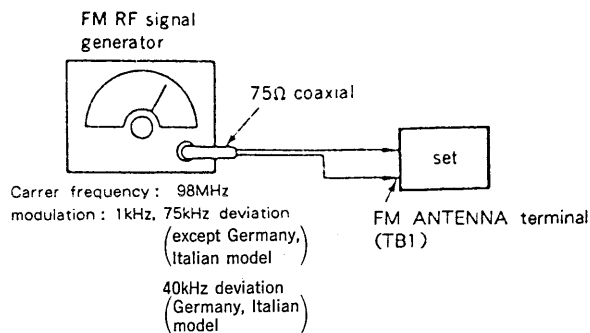
TUNER SECTION

0dB μ = 1 μ V

Note : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

FM SECTION ADJUSTMENTS

Setting :



FM Tuned Indication Lighting Level Adjustment

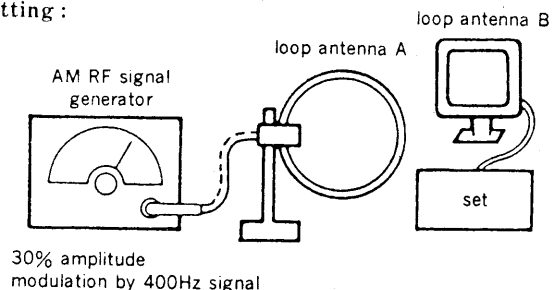
Band : FM

Procedure:

- Germany, Italian model:
Supply a 11 μ V (21dB μ) 98MHz signal from the ANTENNA terminal.
except Germany, Italian model:
Supply a 13 μ V (23dB μ) 98MHz signal from the ANTENNA terminal.
- Tune the set to 98MHz.
- Adjust RV1 so that the **TUNED** light up.
- Germany, Italian model:
Confirm that the **TUNED** light off with FM RF signal generator output level set at 18dB μ .
except Germany, Italian model:
Confirm that the **TUNED** light off with FM RF signal generator output level set at 20dB μ .

AM SECTION ADJUSTMENTS

Setting :



SW OSC Voltage Adjustment

Band : SW

Procedure :

- Connect the VOM to JW693 (OSC).
- Tune the set to 5.95MHz.
- Adjust T2 for 0.9 to 1.1V reading on the VOM.
- Tune the set to 17.90MHz.
- Adjust CT2 for 8.3 to 8.7V reading on the VOM.

SW Tracking Adjustment

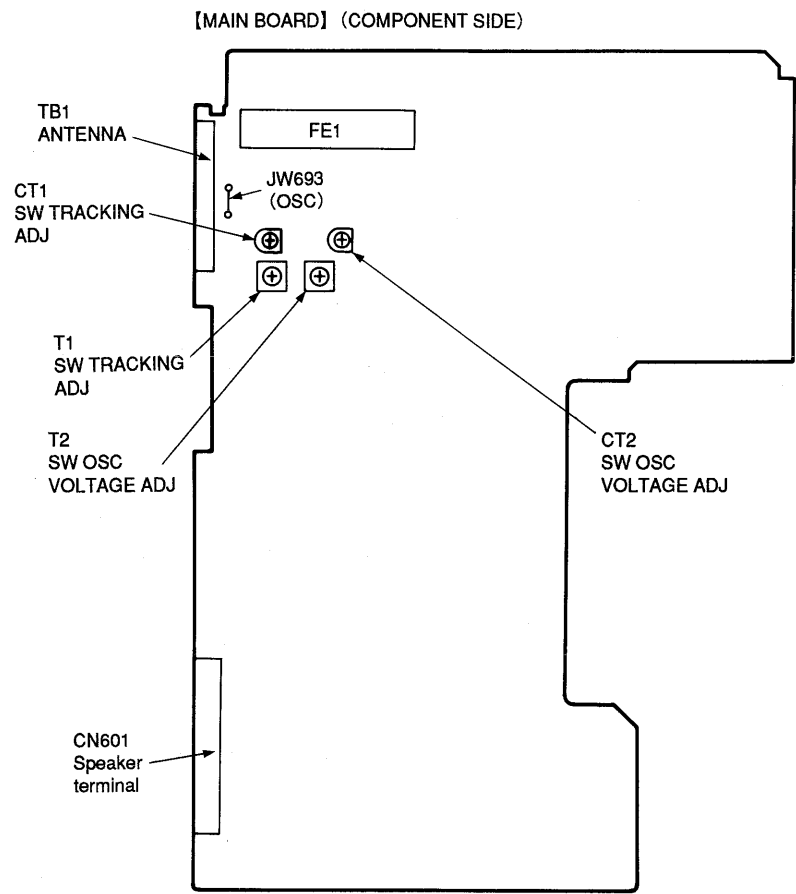
Band : SW

Procedure :

- Connect the VOM to speaker terminal.
- Adjust for a maximum reading on VOM (CN601).

Signal generator and Set frequency	Adjustment part
7.0MHz	T1
17.0MHz	CT1

Adjustment Location : main board —component side—

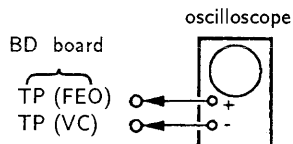


CD SECTION

Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

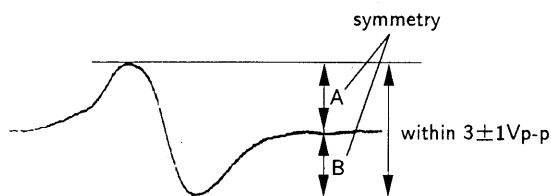
S-Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within $3\pm 1V_{p-p}$.

S-curve waveform

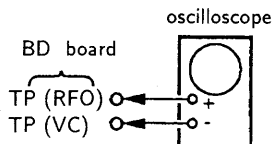


5. After check, remove the lead wire connected in step 2.

Note :

- Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

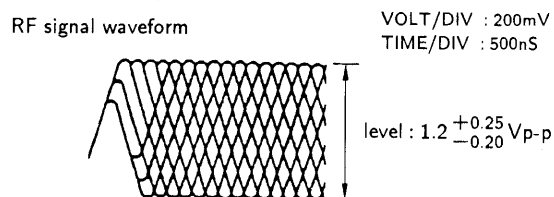


Procedure :

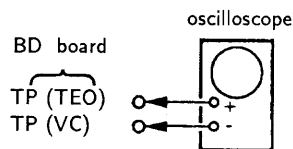
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.



E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse waveform

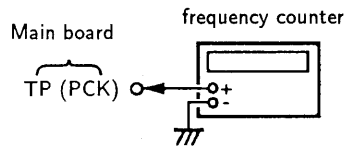


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

- 1. Connect frequency counter to test point (PCK) with lead wire.



- 2. Turn Power switch on.
- 3. Confirm that reading on frequency counter is 4.3218 MHz.

Focus/Tracking Gain

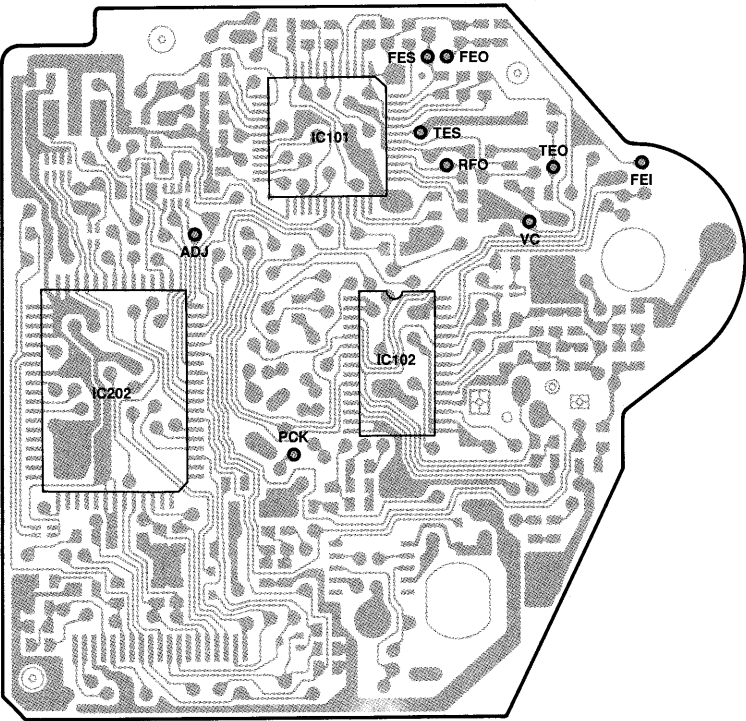
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location :

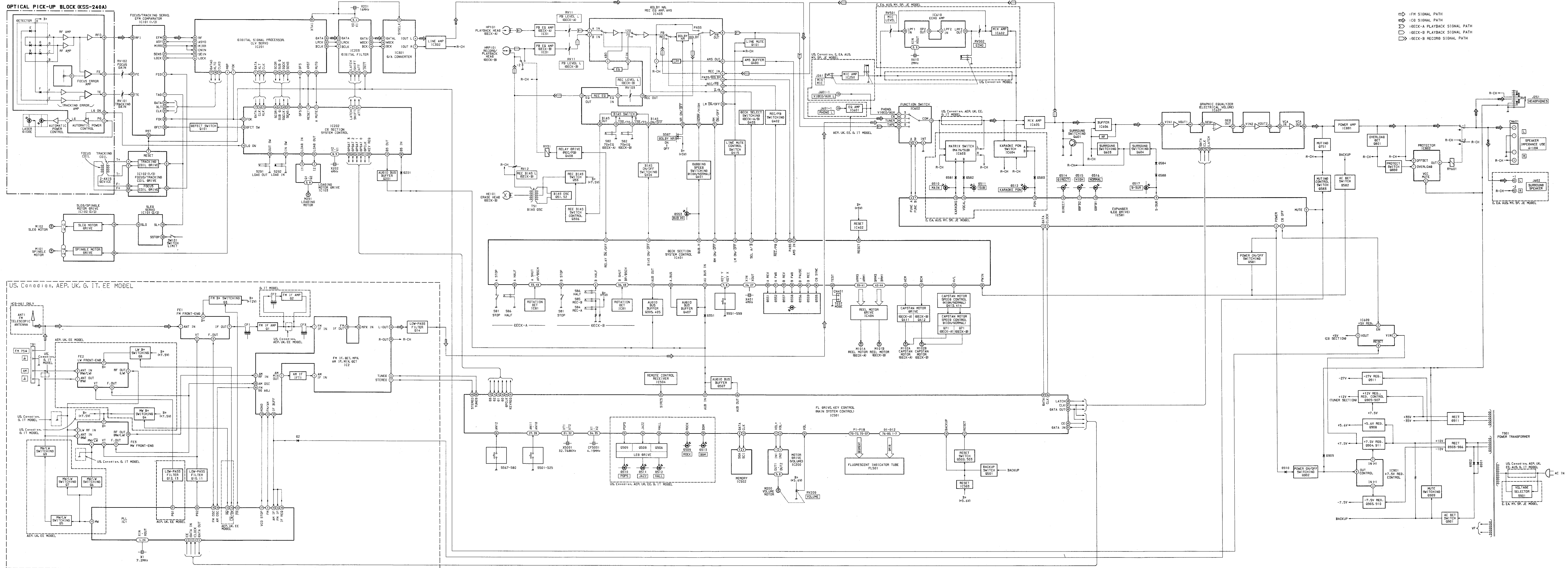
[BD BOARD] (SIDE B)



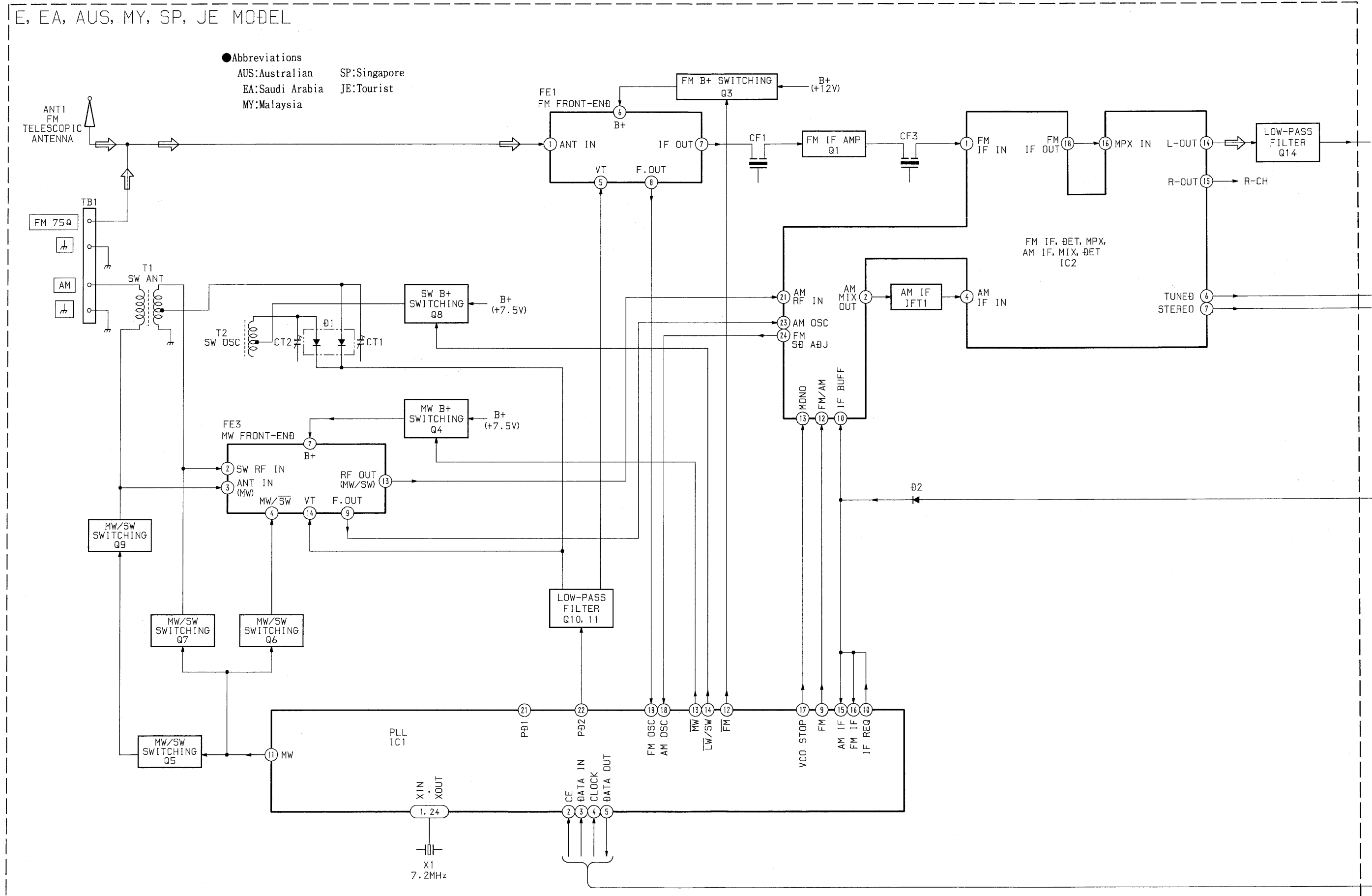
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM

- Abbreviations
- | | |
|---------------|-------------------|
| G: Germany | AUS: Australian |
| IT: Italian | EA: Saudi Arabia |
| MY: Malaysia | EE: East European |
| SP: Singapore | |
| JE: Tourist | |



• BLOCK DIAGRAM —TUNER BLOCK—



6-2. CIRCUIT BOARDS LOCATION

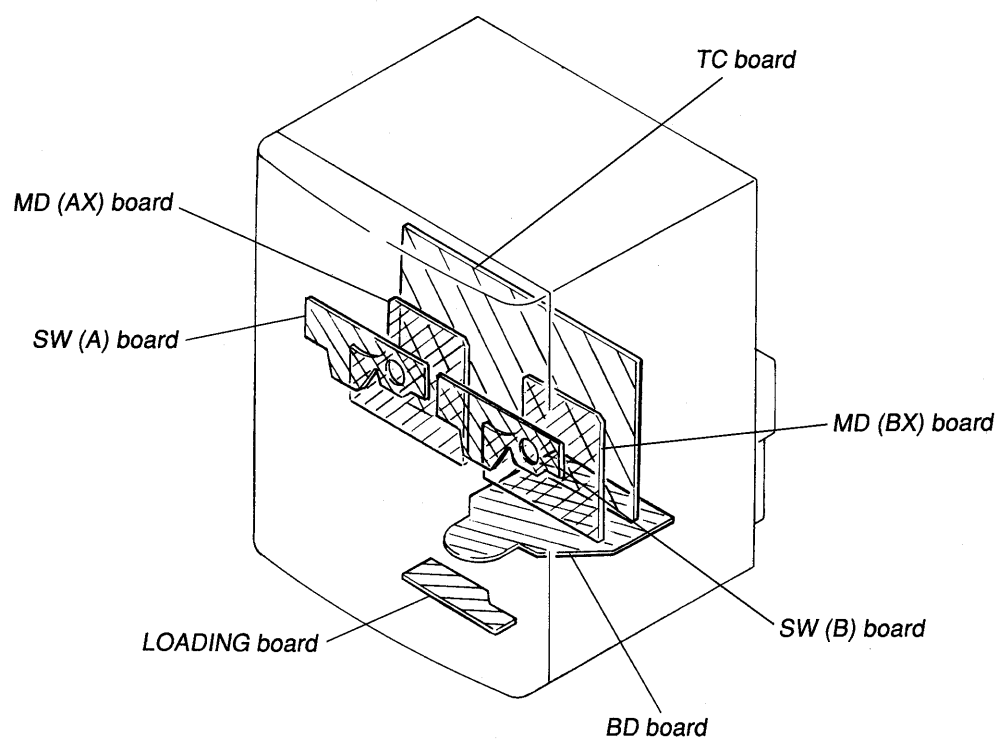
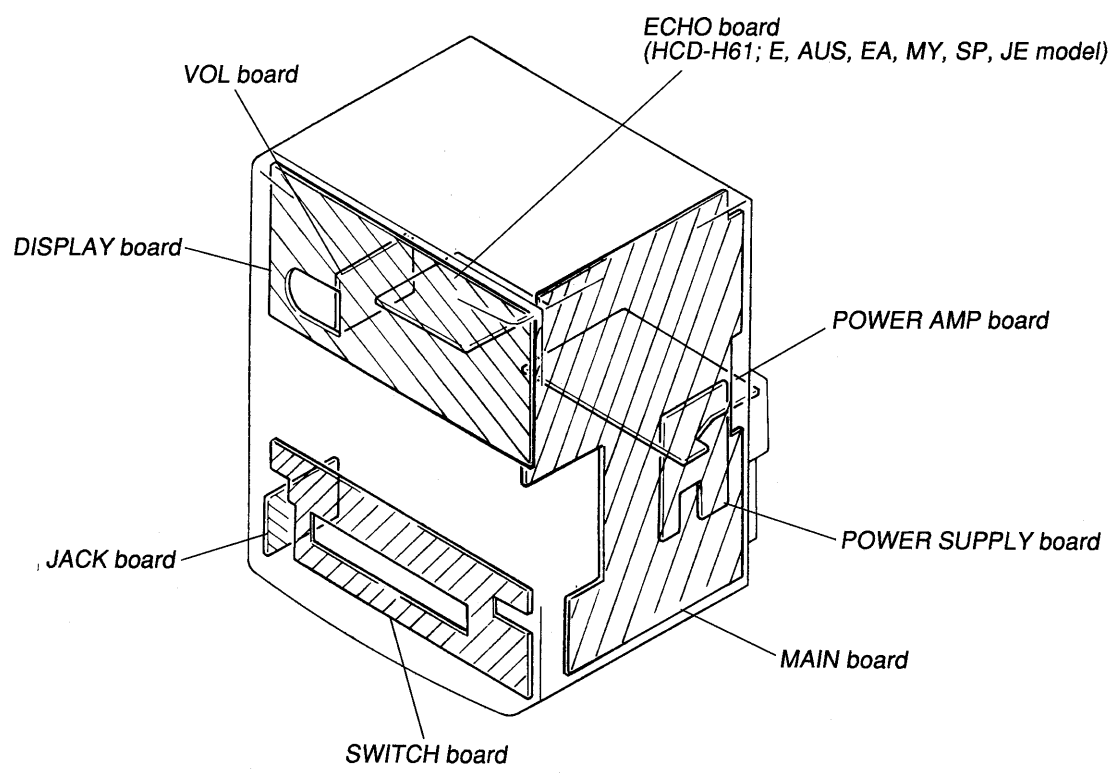
- Abbreviations
- AUS:Australian

EA:Saudi Arabia

MY:Malaysia

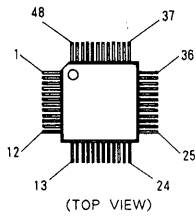
SP:Singapore

JE:Tourist

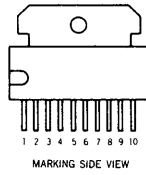


6-3. SEMICONDUCTOR LEAD LAYOUTS

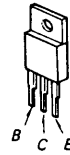
CXA1372AQ



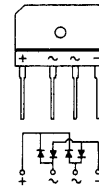
TA7272P



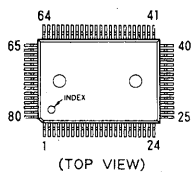
**2SA473
2SD2012-LC**



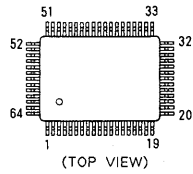
RBA-402



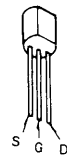
CXD2500BQ



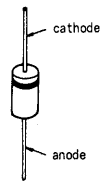
μ PD75116GF-F21-3BE



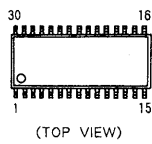
2SK246-GR3



**UZL-12L3
1N4148M**



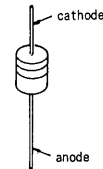
LA6525M



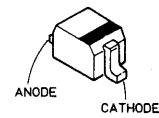
**DTA114ES
DTA124ES
DTA144ES
DTC114ES
DTC144ES
2SC2603-EF
2SC2724-CD**



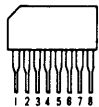
**HZS6A1L
HZS6C3L
HZS24-1L
11ES2**



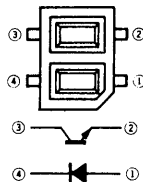
1SS352



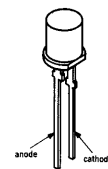
**M5230L-A
μ PC1237HA**



NJL5165K-B



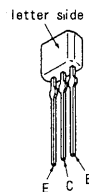
LED-SX-TP



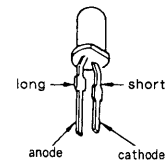
PST572E



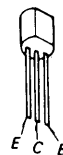
**2SA1175-HFE
2SC3623A-LK**



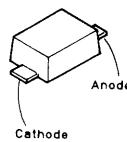
**SEL2210S-CD
SEL5220S
SEL5420S
SEL5920A**



**2SB1013-4
2SC1841-PAFAEA
2SC3112-A**

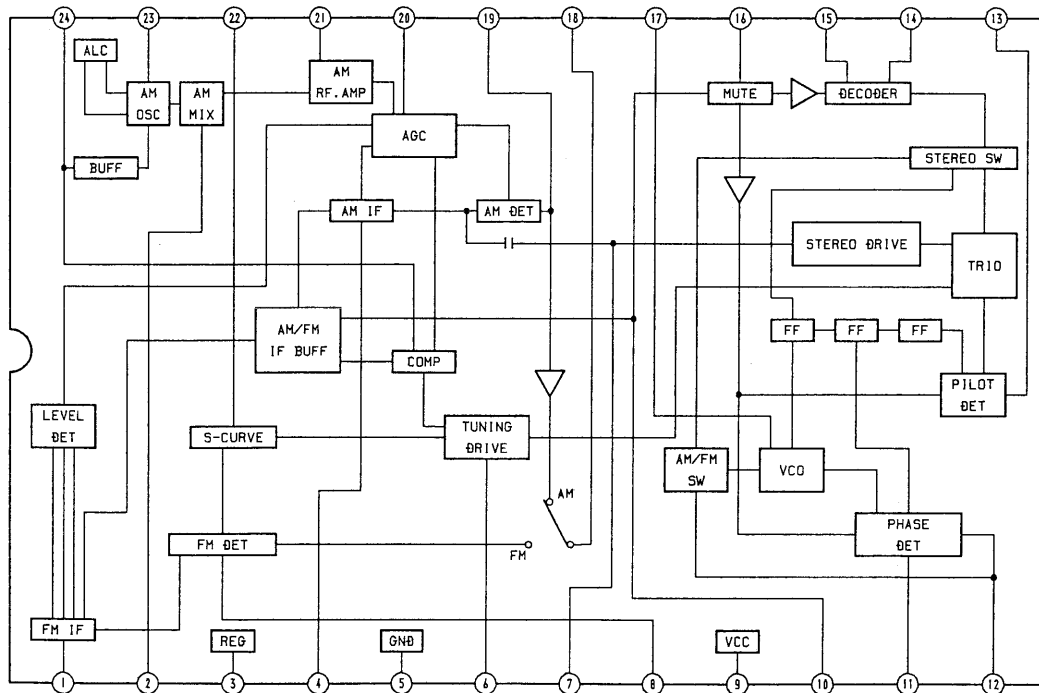


MA8039

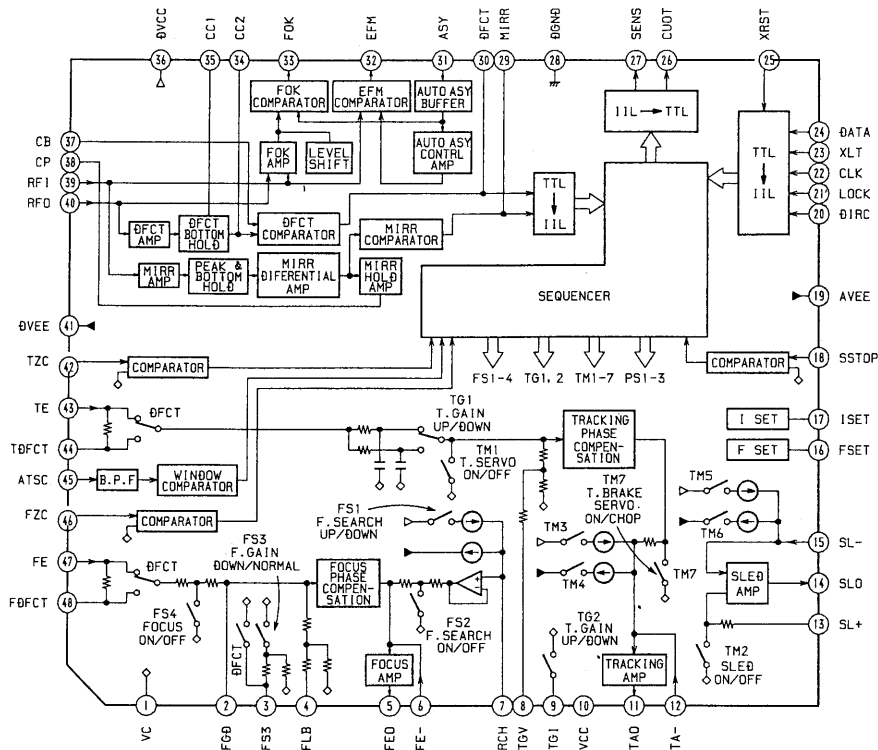


6-4. IC BLOCK DIAGRAMS

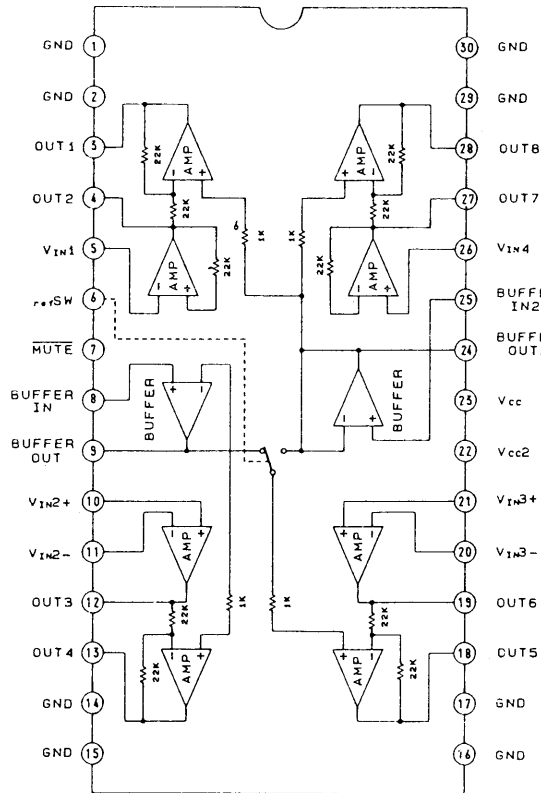
IC2 LA1831



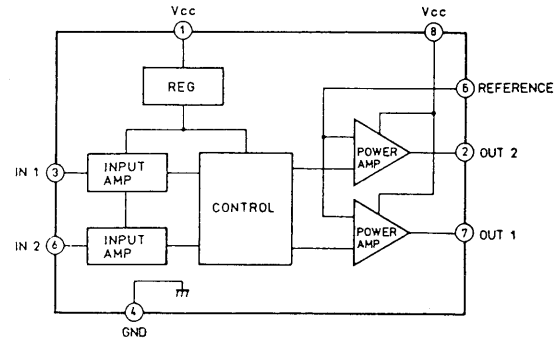
IC101 CXA1372AQ



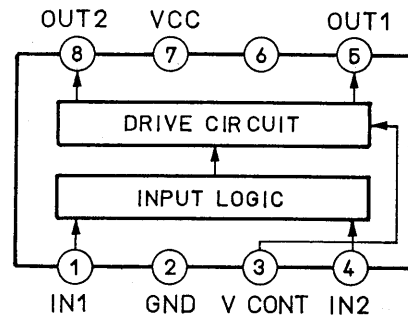
IC102 LA6525M



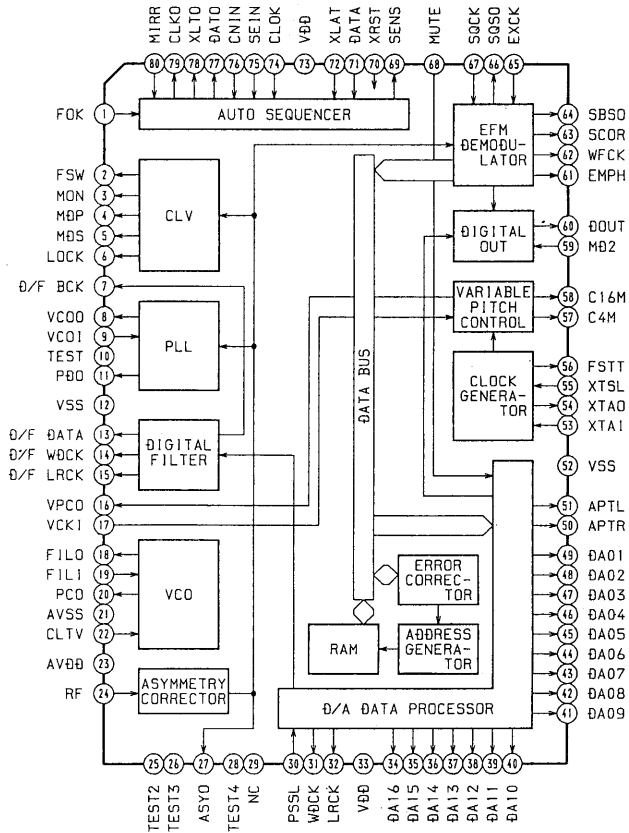
IC103 M54641FP



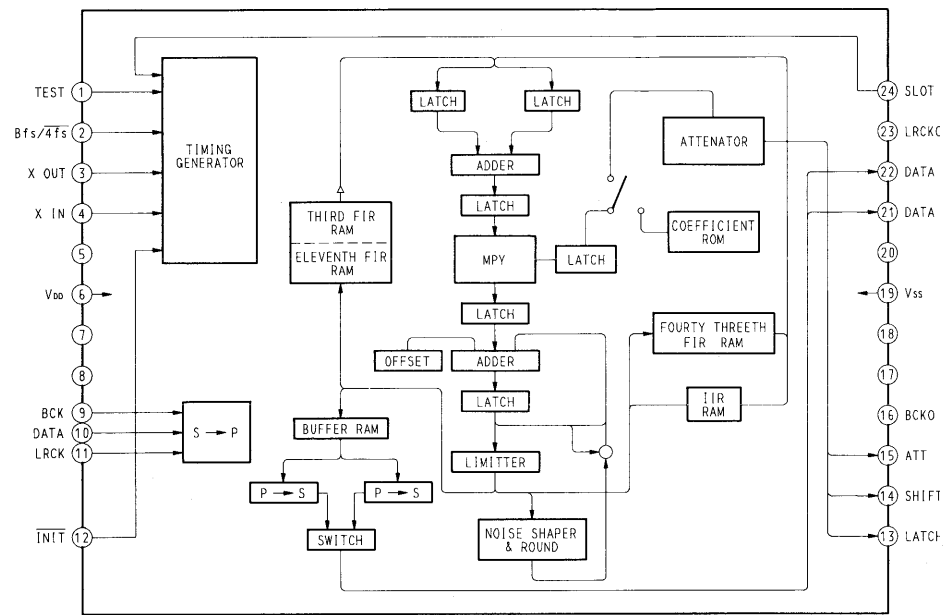
IC200 LB1639



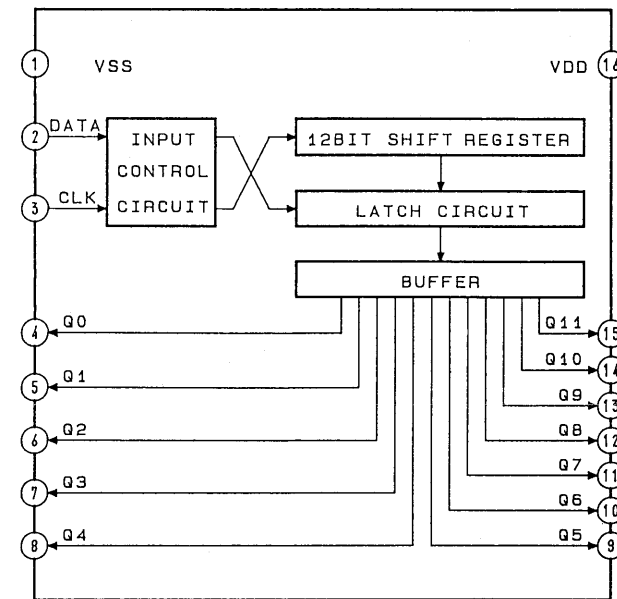
IC201 CXD2500BQ



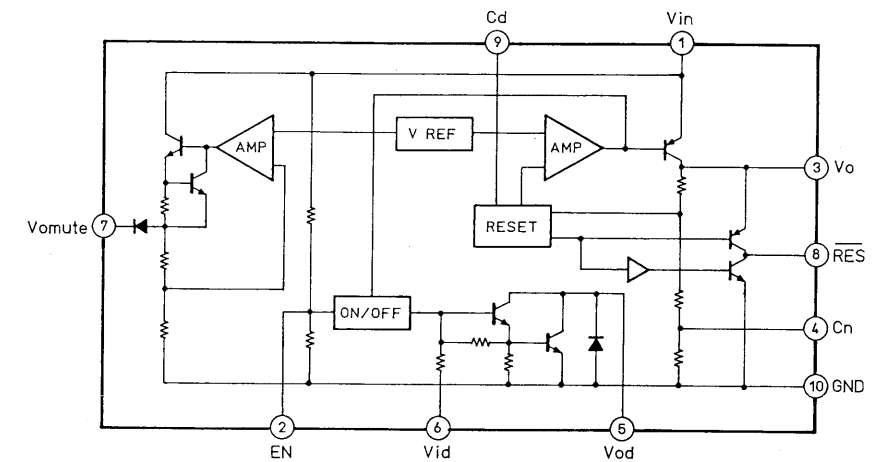
IC203 MSM6538-01GS-VKR1



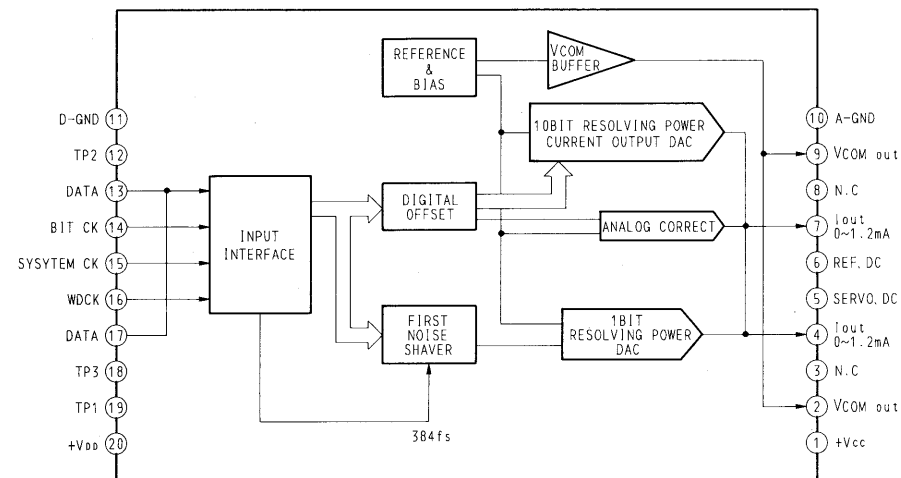
IC581 M50253PK



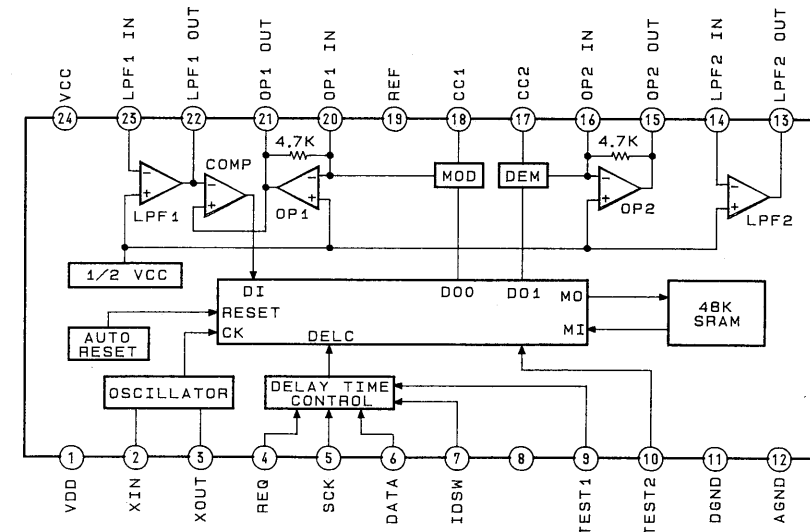
IC609 LA5601



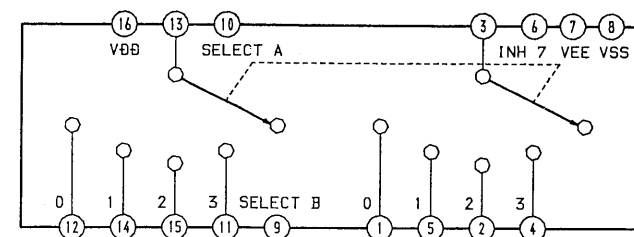
IC301 PCM67U-B



IC601 M65831P

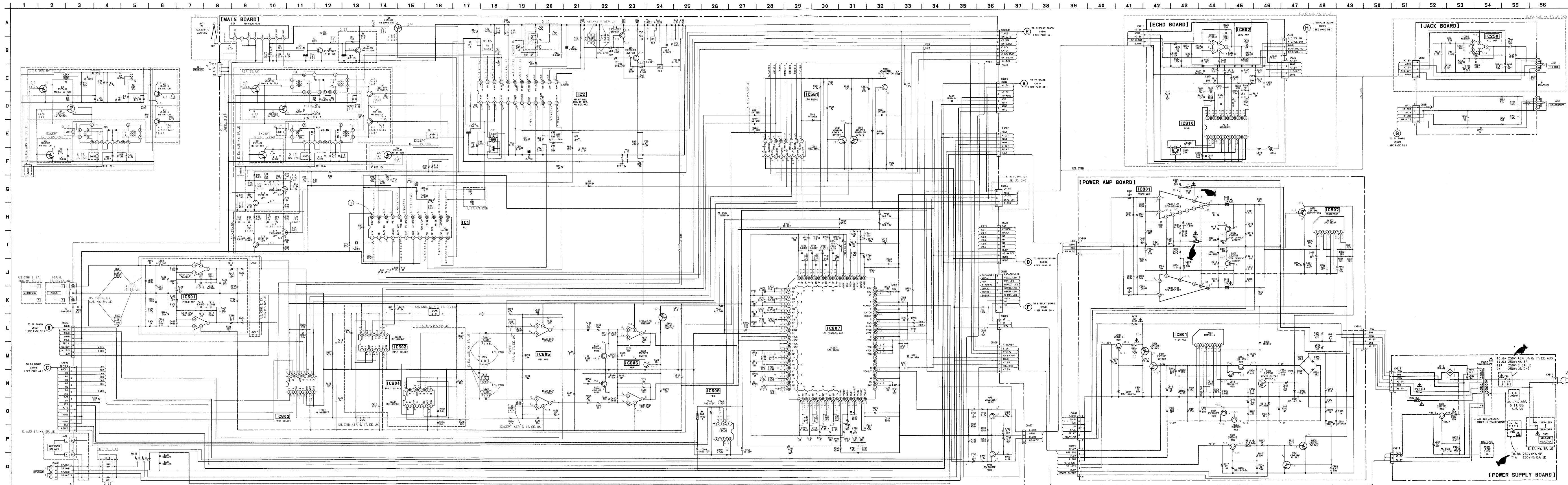


IC602 MC14052BCP

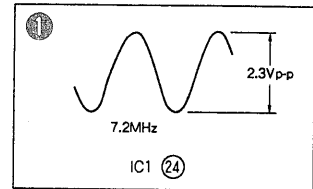


SEE ADDITIONAL
INFORMATION

REVISED



• Waveform



Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: nonflammable resistor.
- --- : fusible resistor.

Note:

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- --- : B+ Line
- --- : B- Line
- --- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- (): MW
- < >: SW/LW
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- --- : FM
- --- : REC (DECK B)
- --- : PB (DECK A)
- --- : CD

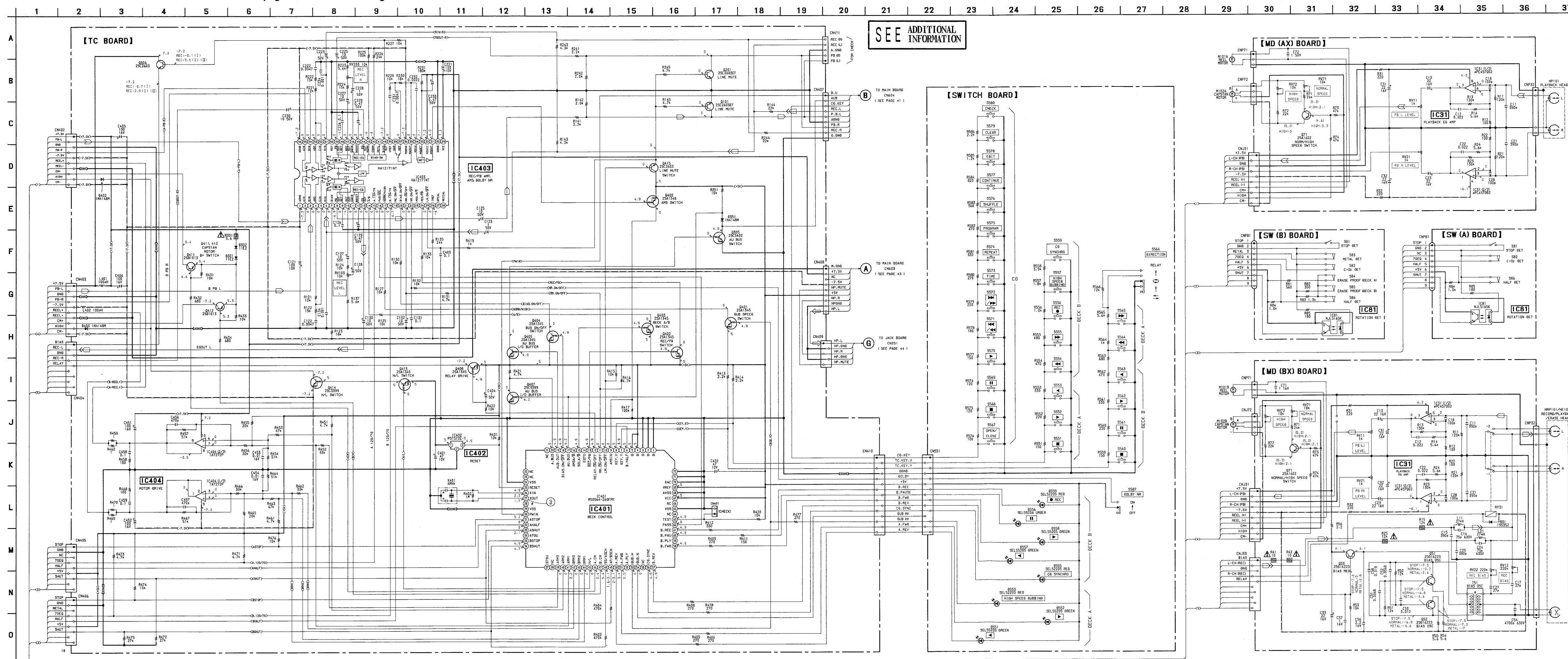
CND: Canadian EE: East European

G: Germany MY: Malaysia

IT: Italian SP: Singapore

AUS: Australian JE: Tourist

EA: Saudi Arabia



Timing diagram for IC401 (27) showing a 4MHz sine wave with a 5.5Vp-p amplitude.

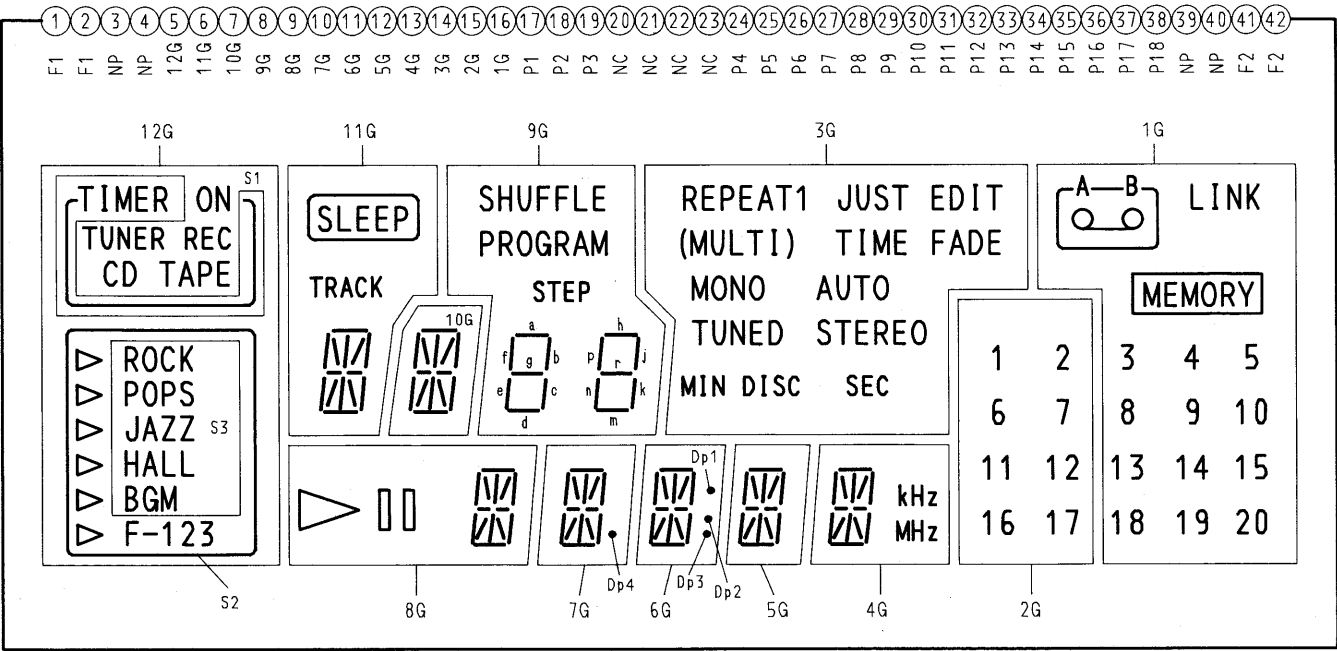
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\mu\text{F}$. 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
-  : nonflammable resistor.
-  : fusible resistor.

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

-  : B+ Line
-  : B- Line
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : PLAY
(): REC
- Voltages are taken with a VOM (Input Impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 -  : PB (DECK A)
 -  : PB (DECK B)
 -  : FM
 -  : REC (DECK B)

HCD-H61/H61M

FL501 LIQUID CRYSTAL DISPLAY PANEL (SEGMENT)

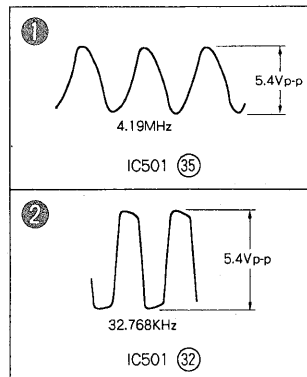


FL501 LIQUID CRYSTAL DISPLAY PANEL (ANODE CONNECTION)

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1			REPEAT	a	a	a	a	a	a	a	a	S1
P2	MEMORY		JUST	b	b	b	b	b	b	b	b	CD
P3	20		MONO	c	c	c	c	c	c	c	c	(POPS)
P4	14	12	STEREO	d	d	d	d	d	d	d	d	(F-123)
P5	4	2	TIME	e	e	e	e	e	e	e	e	(JAZZ)
P6	5		EDIT	f	f	f	f	f	f	f	f	TAPE
P7	10		DSC	g	g	g	g	g	g	g	g	S2
P8	B		(MULTI)	h	h	h	h	h	h	h	h	TUNER
P9	A		MIN	j	j	j	j	j	j	j	j	ON
P10	LINK		1	k	k	k	k	k	k	k	k	REC
P11	15		TUNED	m	m	m	m	m	m	m	m	(ROCK)
P12	9	7	AUTO	n	n	n	n	n	n	n	n	S3
P13	8	6	SEC	p	p	p	p	p	p	p	p	(BGM)
P14	3	1	FADE	r	r	r	r	r	r	r	r	(HALL)
P15	18	16		kHz		Dp1	Dp4		SHUFFLE		SLEEP	2
P16	19	17		MHz		Dp2			PROGRAM		TRACK	1
P17	13	11				Dp3			STEP			F-
P18												3

SEE ADDITIONAL INFORMATION

Waveforms



Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: nonflammable resistor.

Note:

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Note:

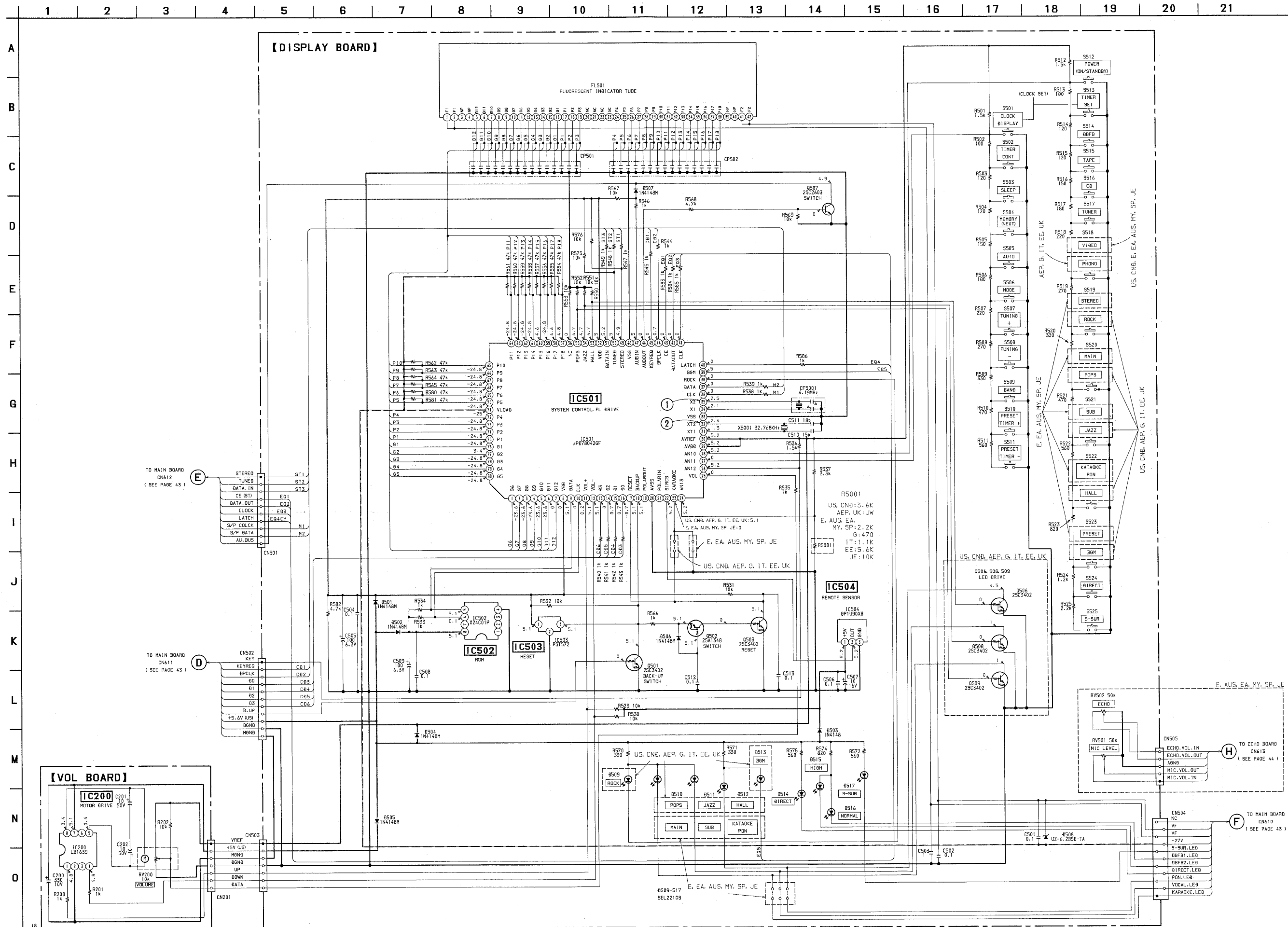
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- $\circ$: B+ Line
- $\square$: B- Line
- $\square$: adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance $10M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

CND: Canadian EE:East European
G: Germany MY: Malaysia
IT: Italian SP: Singapore
AUS: Australian JE:Tourist
EA: Saudi Arabia

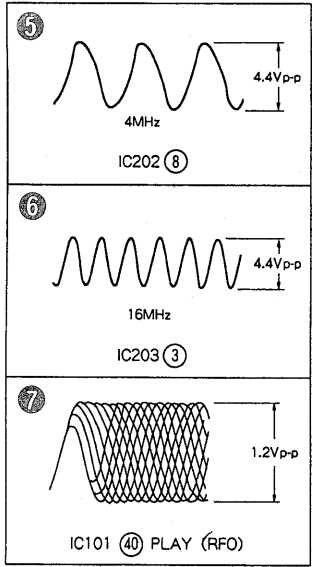
6-9. SCHEMATIC DIAGRAMS —DISPLAY Section—

• See page 33 for IC Block Diagrams.



6-11. SCHEMATIC DIAGRAMS —CD Section— • See page 33 for IC Block Diagrams.

• Waveforms

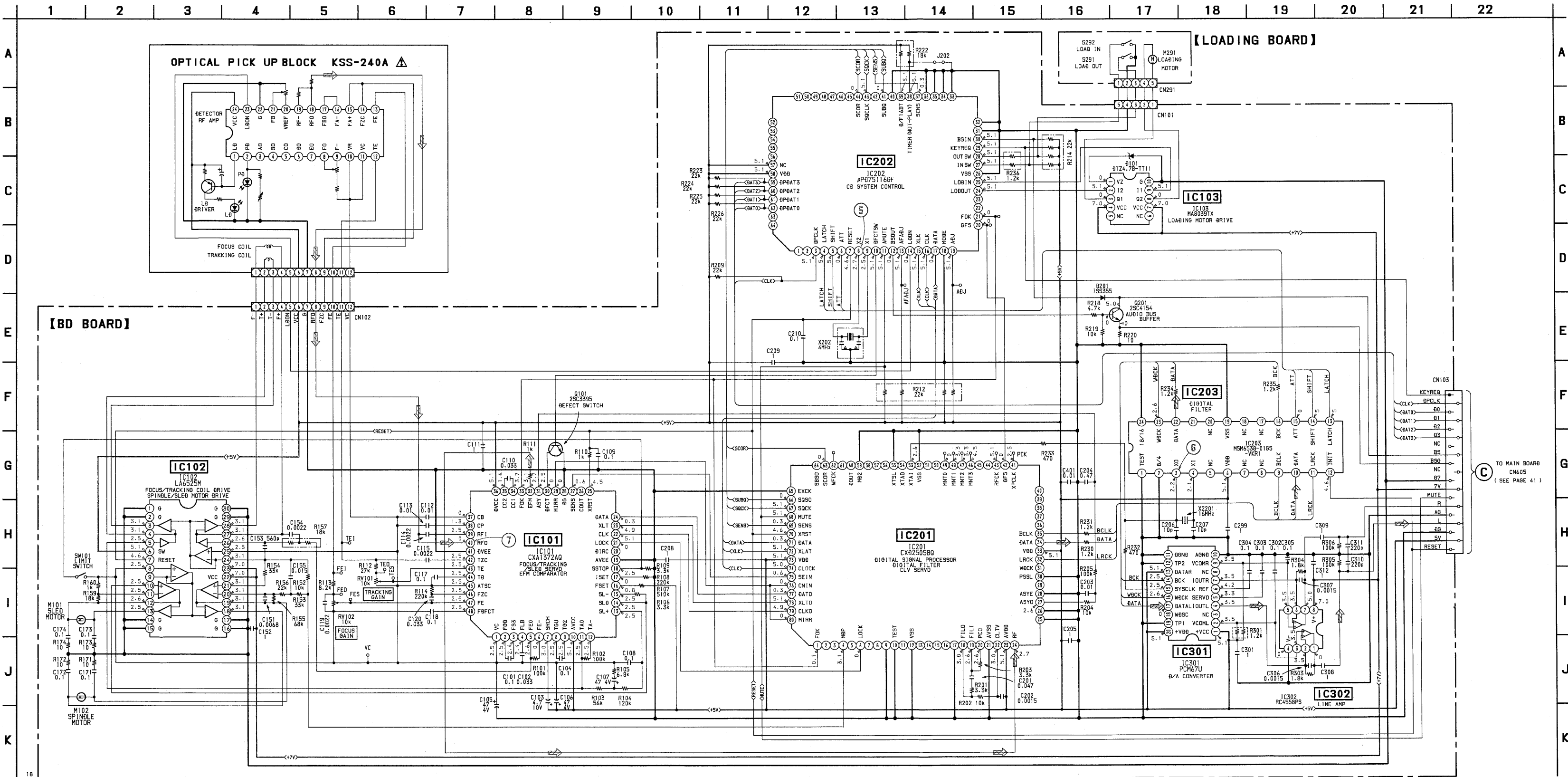


- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - $\triangle$: internal component.

Note:
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

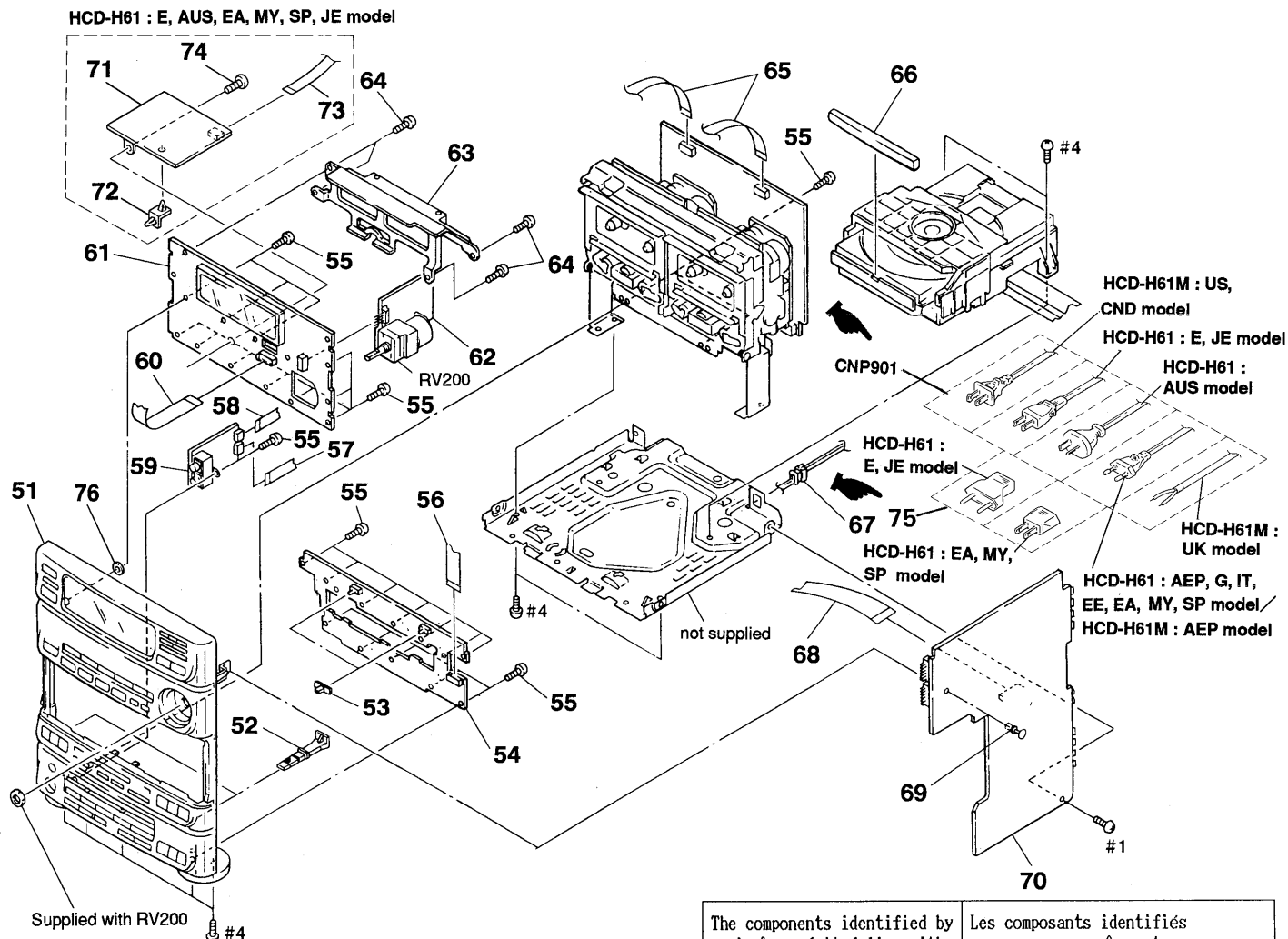
- --- : B+ Line
- --- : B- Line
- --- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark: PLAY
- Voltages are taken with a VOM (input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- --- : CD



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7-2. FRON PANEL SECTION



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

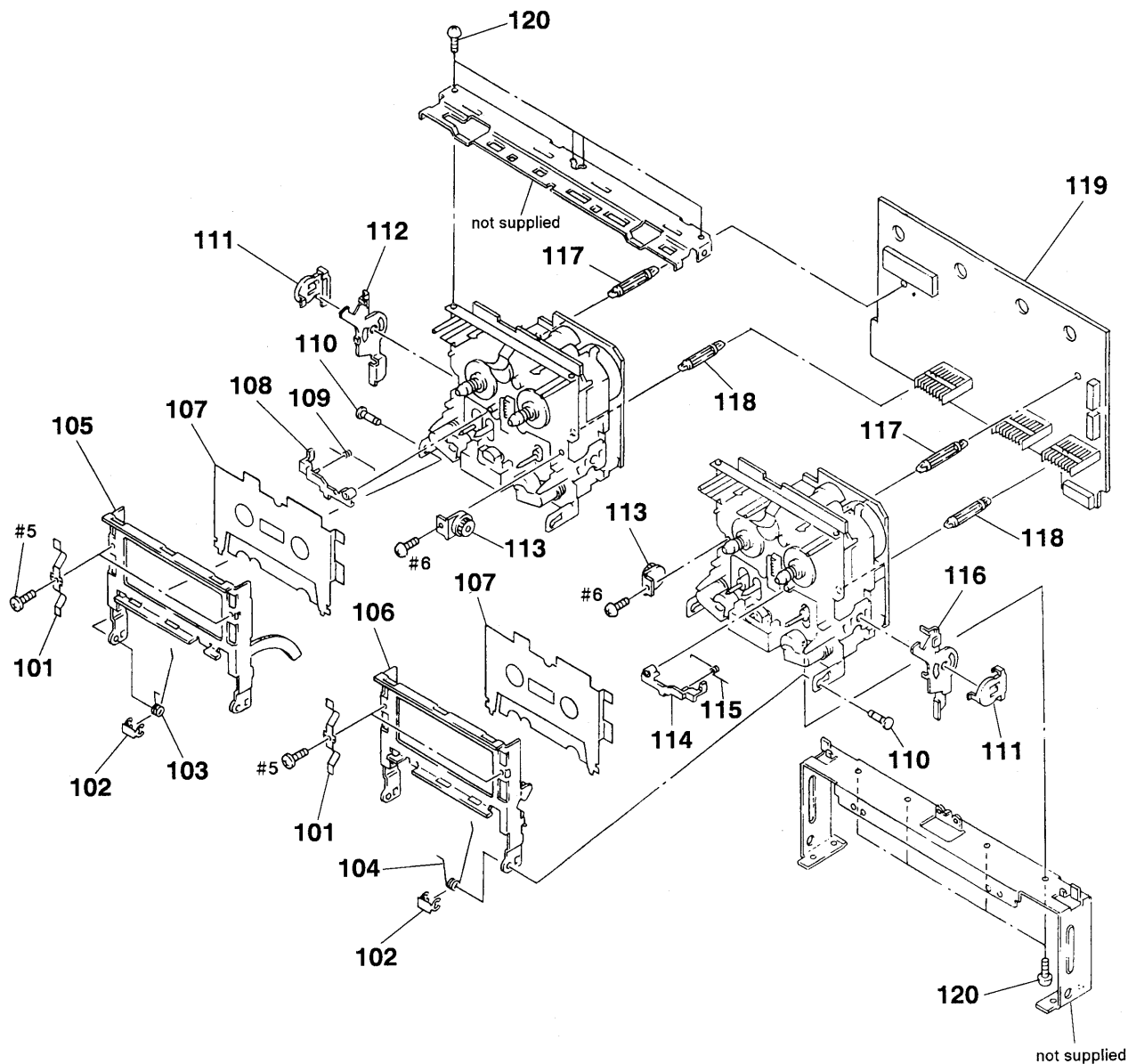
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
51	X-4943-257-1	PANEL ASSY, FRONT (E, AUS, EA, MY, SP, JE)	
51	X-4943-258-1	PANEL ASSY, FRONT (HCD-H61:AEP, G, IT, EE)	
51	X-4943-271-2	PANEL ASSY, FRONT (HCD-H61M:AEP, UK)	
52	4-956-477-01	BUTTON (TC), EJECT	(US, CND)
53	4-956-476-01	KNOB (DIRECTION/DOLBY)	
* 54	A-4356-584-A	SWITCH BOARD, COMPLETE (EXCEPT UK)	
* 54	A-4365-426-A	SWITCH BOARD, COMPLETE (UK)	
55	4-951-620-01	SCREW (2.6X8), +BVTP	
56	1-696-922-11	WIRE (FLAT TYPE) (15 CORE)	
57	1-696-923-11	WIRE (FLAT TYPE) (5 CORE)	
58	1-696-924-11	WIRE (FLAT TYPE) (5 CORE)	(US, CND)
* 59	1-646-897-11	JACK BOARD	
60	1-696-920-11	WIRE (FLAT TYPE) (11 CORE)	
* 61	A-4356-593-A	DISPLAY BOARD, COMPLETE	(UK)
* 61	A-4356-594-A	DISPLAY BOARD, COMPLETE	(US, CND)
* 61	A-4356-600-A	DISPLAY BOARD, COMPLETE	(AEP)
* 61	A-4356-601-A	DISPLAY BOARD, COMPLETE	(G)
* 61	A-4356-602-A	DISPLAY BOARD, COMPLETE	(IT)
* 61	A-4356-603-A	DISPLAY BOARD, COMPLETE	(E, AUS, EA, MY, SP)
* 61	A-4356-604-A	DISPLAY BOARD, COMPLETE	(EE)
* 61	A-4360-498-A	DISPLAY BOARD, COMPLETE	(JE)
* 62	1-646-894-11	VOL BOARD	
* 63	4-956-469-01	BRACKET (CASE)	
64	4-928-635-21	SCREW, +BV (2.6X10) TAPPING	
65	1-690-588-31	WIRE, FLAT TYPE (9 CORE)	
66	4-956-474-01	PANEL, LOADING	

Ref. No.	Part No.	Description	Remark
* 67	3-703-244-00	BUSHING (2104), CORD	(EXCEPT E, JE)
* 67	3-703-571-11	BUSHING (S) (4516), CORD	(E, JE)
68	1-696-921-11	WIRE (FLAT TYPE) (19 CORE)	
69	4-812-134-00	RIVET NYLON, 3.5	
* 70	A-4356-559-A	MAIN BOARD, COMPLETE	(HCD-H61M:AEP)
* 70	A-4356-561-A	MAIN BOARD, COMPLETE	(US, CND)
* 70	A-4356-569-A	MAIN BOARD, COMPLETE	(HCD-H61: AEP)
* 70	A-4356-570-A	MAIN BOARD, COMPLETE	(G, IT)
* 70	A-4356-571-A	MAIN BOARD, COMPLETE	(EE)
* 70	A-4356-572-A	MAIN BOARD, COMPLETE	(E, AUS, EA, MY, SP)
* 70	A-4360-479-A	MAIN BOARD, COMPLETE	(JE)
* 70	A-4365-422-A	MAIN BOARD, COMPLETE	(UK)
* 71	A-4356-599-A	ECHO BOARD, COMPLETE	
* 72	4-922-413-01	HOLDER, PC BOARD	(E, AUS, EA, MY, SP, JE)
73	1-696-919-11	WIRE (FLAT TYPE) (5 CORE)	(E, JE)
74	4-951-620-01	SCREW (2.6X8), +BVTP	(E, AUS, EA, MY, SP, JE)
Δ 75	1-569-007-11	ADAPTER, CONVERSION 2P	(E, JE)
Δ 75	1-569-008-11	ADAPTER, CONVERSION 2P	(EA, MY, SP)
76	4-949-302-41	WASHER	
Δ CNP901	1-574-902-11	CORD, POWER	(E, JE)
Δ CNP901	1-575-975-11	CORD, POWER	(US, CND)
Δ CNP901	1-590-083-11	CORD, POWER	(AUS)
Δ CNP901	1-696-169-11	CORD, POWER	(AEP, G, IT, EE, EA, MY, SP)
Δ CNP901	1-696-570-21	CORD, POWER	(UK)
RV200	1-223-301-11	RES, VAR, CARBON (WITH MOTOR) (VOLUME)	

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7-3. MECHANISM DECK CHASSIS SECTION

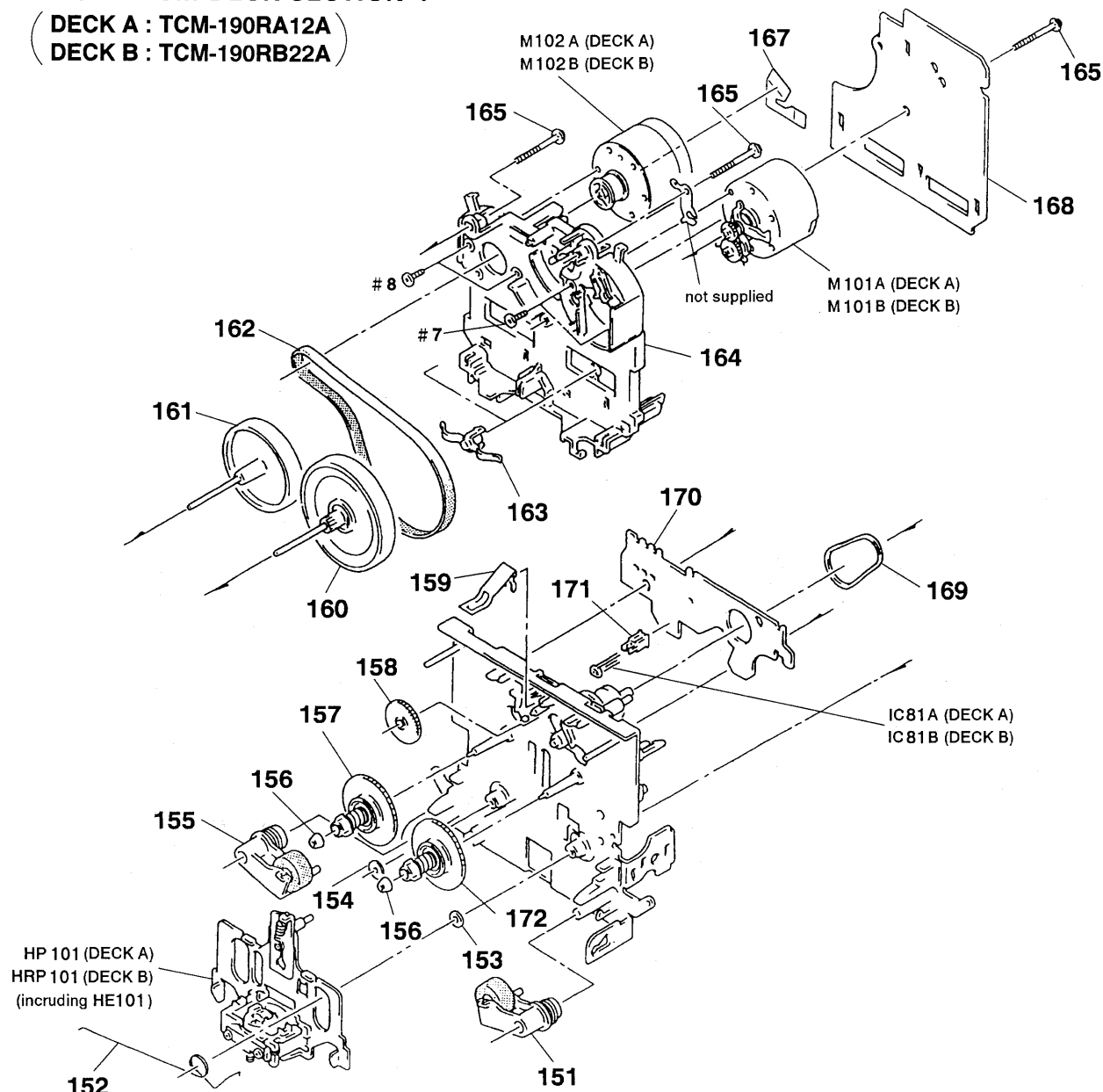


Ref. No.	Part No.	Description	Remark
101	3-340-137-01	SPRING, CASSETTE RETAINER	
102	3-367-720-01	RING (W), RETAINING	
103	3-354-959-01	SPRING (LOADING L), TORSION	
104	3-354-960-01	SPRING (LOADING R), TORSION	
105	X-3362-857-1	HOLDER (L) ASSY, CASSETTE	
106	X-3362-856-1	HOLDER (R) ASSY, CASSETTE	
107	3-367-711-01	RETAINER, CASSETTE	
108	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
109	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
110	3-367-721-01	SHAFT (FULCRUM SHAFT)	

Ref. No.	Part No.	Description	Remark
111	3-354-957-01	JOINT (LOCK LEVER)	
* 112	3-367-709-01	LEVER (LOCK LEVER L)	
113	3-354-963-01	DAMPER	
114	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
115	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
* 116	3-367-710-01	LEVER (LOCK LEVER R)	
* 117	3-682-419-31	HOLDER, P. C. B	
* 118	3-682-419-21	HOLDER, P. C. B	
* 119	A-4356-582-A	TC BOARD, COMPLETE (G, IT)	
* 119	A-4356-583-A	TC BOARD, COMPLETE (US, CAN, E, AUS, EA, MY, SP, JE)	
* 119	A-4356-586-A	TC BOARD, COMPLETE (AEP, EE)	
* 119	A-4365-425-A	TC BOARD, COMPLETE (UK)	
120	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	

7-4. MECHANISM DECK SECTION-1

(DECK A : TCM-190RA12A)
(DECK B : TCM-190RB22A)

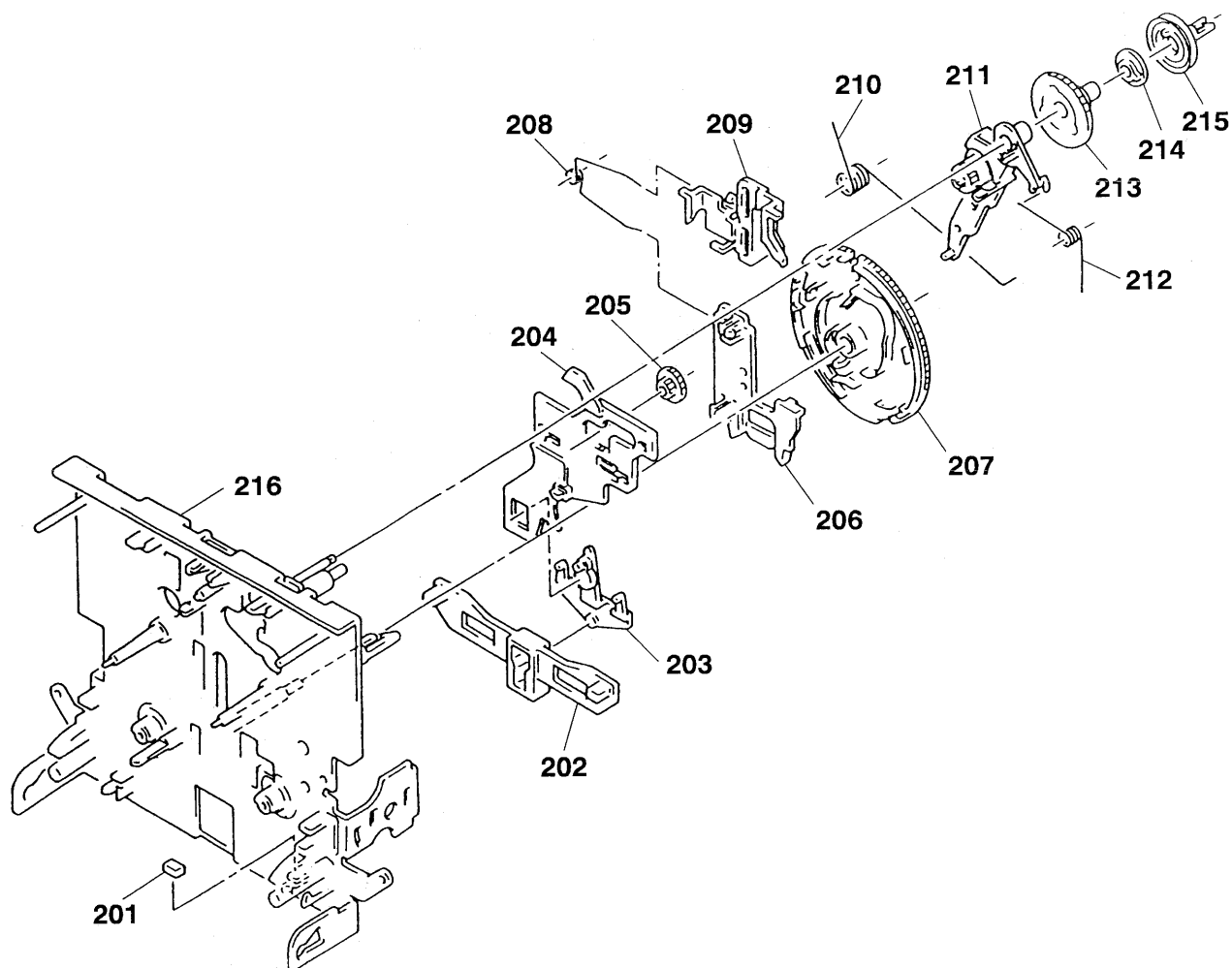


Ref. No.	Part No.	Description	Remark
151	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
152	3-359-455-01	SPRING, TORSION	
153	3-356-713-01	WASHER	
154	3-356-714-01	WASHER	
155	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
156	3-362-308-01	CAP (REEL)	
157	X-3362-078-1	TABLE ASSY (B), REEL	
158	3-359-424-01	GEAR (REV GEAR)	
159	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
160	X-3359-406-1	FLYWHEEL (FWD) ASSY	
161	X-3359-410-1	FLYWHEEL (REV) ASSY	
162	3-359-417-01	BELT (FLAT), CAPSTAN	
163	3-575-321-00	RETAINER, THRUST, CAPSTAN	
* 164	3-359-436-01	BASE (THRUST RETAINER), FITTING	
165	3-359-414-01	SCREW (+PTPWH 2X23)	
167	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	

Ref. No.	Part No.	Description	Remark
* 168	A-2006-399-A	MD (AX) BOARD, COMPLETE (DECK A)	
* 168	A-2006-400-A	MD (BX) BOARD, COMPLETE (DECK B)	
169	3-359-466-01	BELT (FR), SQUARE	
* 170	1-634-841-14	SW (A) BOARD (DECK A)	
* 170	1-634-841-14	SW (B) BOARD (DECK B)	
171	3-343-419-01	HOLDER (S SENSOR A)	
172	X-3359-404-1	TABLE ASSY, REEL	
HP101	A-2003-837-F	BASE ASSY, HEAD (DECK A)	
HRP101	A-2003-838-A	DECK ASSY, HEAD (DECK B)	
		(incuding HE101)	
IC81A	8-719-710-03	DIODE NJL5165K-B (DECK A)	
IC81B	8-719-710-03	DIODE NJL5165K-B (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY (REEL) (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY (REEL) (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK B)	

7-5. MECHANISM DECK SECTION-2

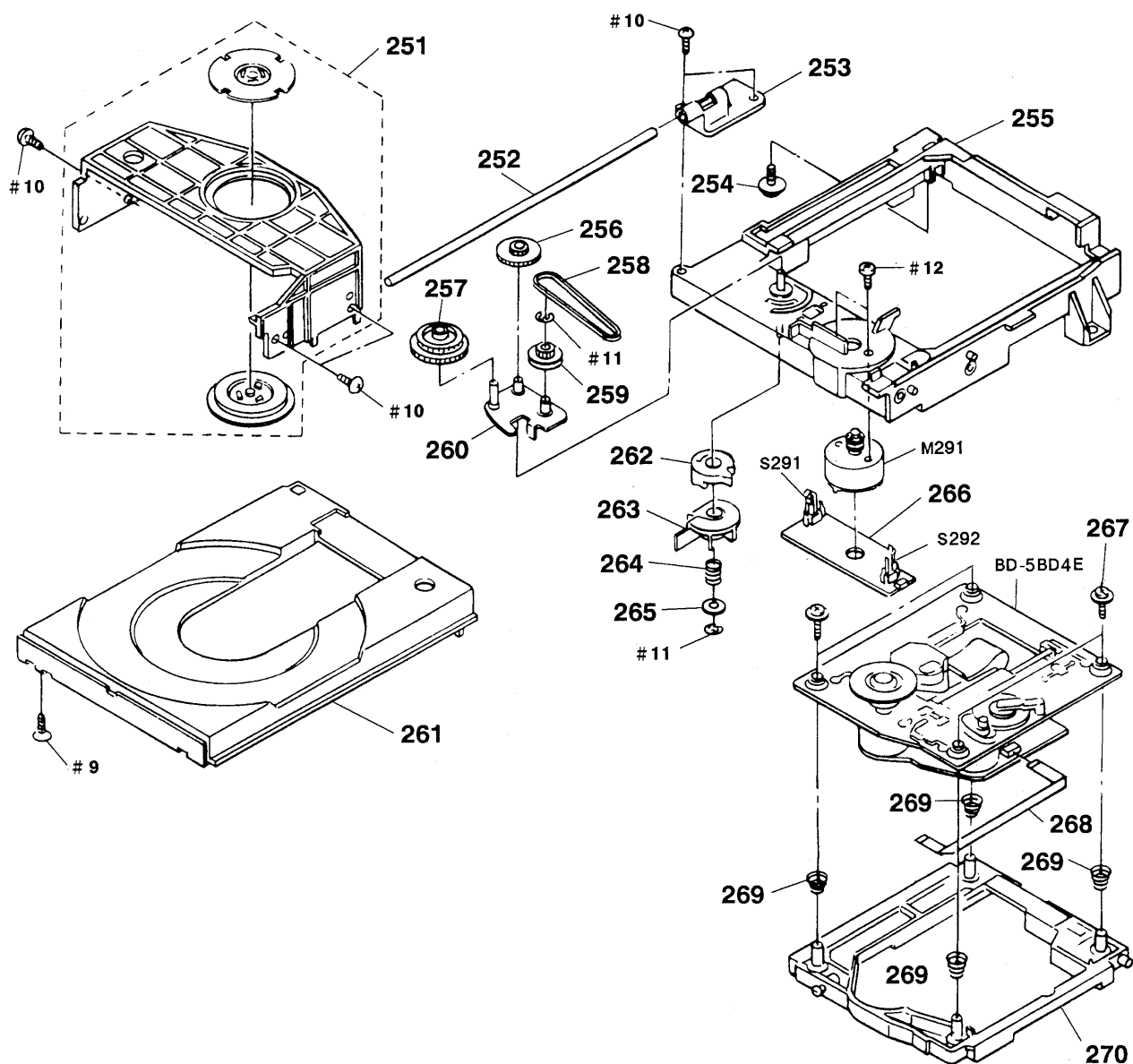
(DECK A : TCM-190RA12A)
(DECK B : TCM-190RB22A)



Ref. No.	Part No.	Description	Remark
201	3-359-469-01	SPACER	
* 202	3-359-425-01	SLIDER (REVERSE SLIDER)	
203	3-359-426-01	LEVER (REVERSE LEVER)	
* 204	3-359-415-01	SLIDER (TRIGGER SLIDER)	
205	3-359-448-01	GEAR (TRIGGER)	
* 206	3-359-427-01	SLIDER (LEVERSE SLIDER)	
207	3-359-420-01	GEAR (CAM GEAR)	
208	3-359-454-01	SPRING, TORSION	

Ref. No.	Part No.	Description	Remark
209	3-359-429-01	SLIDER (BRAKE PLATE)	
210	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
211	X-3359-405-1	LEVER (FR ARM) ASSY	
212	3-359-453-01	SPRING (FR ARM), TORSION	
213	3-359-419-01	GEAR (FR GEAR)	
214	3-359-421-01	CLUTCH (REEL DISK)	
215	3-359-418-01	PULLEY (FR PULLEY)	
216	X-3363-790-1	CHASSIS ASSY, MECHANICAL	

7-6. CD MECHANISM SECTION-1
(CDM13B-5BD4E)

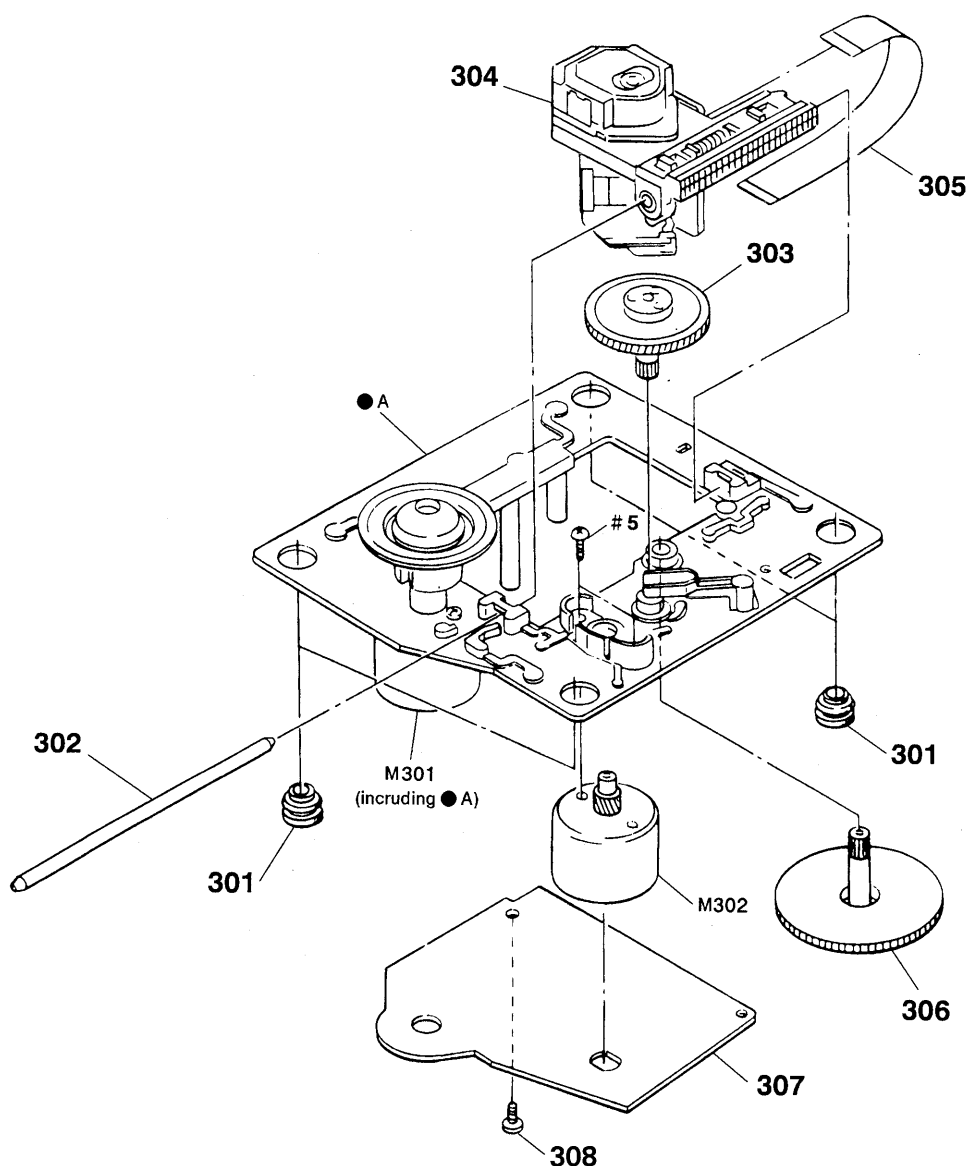


Ref. No.	Part No.	Description	Remark
251	A-4604-752-A	HOLDER (MG) ASSY	
252	4-929-764-01	SHAFT (TABLE GUIDE)	
253	4-944-006-01	BEARING	
* 254	4-917-583-21	BRACKET, YOKE	
255	X-4941-462-1	CHASSIS (MD) ASSY	
256	4-927-628-01	GEAR (C)	
257	4-927-620-01	GEAR (P)	
258	4-927-649-01	BELT	
259	4-929-724-01	PULLEY (B)	
260	X-4929-703-1	ARM ASSY, SWING	
261	4-944-012-01	TABLE, DISC	
262	4-929-727-01	CAM (A)	

Ref. No.	Part No.	Description	Remark
263	4-929-729-01	CAM (B)	
264	3-659-338-00	SPRING, COMPRESSION	
265	4-927-654-01	WASHER (LIMITER)	
* 266	1-638-308-11	LOADING BOARD	
267	4-933-134-01	SCREW (+PTPWH M2. 6X6)	
268	1-590-530-11	WIRE, FLAT TYPE	
269	4-917-541-01	SPRING (B)	
270	4-929-747-01	HOLDER (BU)	
M291	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
S291	1-571-924-11	SWITCH LEAF (LOAD OUT)	
S292	1-571-924-11	SWITCH LEAF (LOAD IN)	

SEE ADDITIONAL
INFORMATION

7-7. CD MECHANISM SECTION-2 (BU-5BD4E)



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark
301	4-933-126-01	INSULATOR (A)	
302	4-917-565-01	SHAFT, SLED	
303	4-917-567-01	GEAR (M)	
Δ 304	8-848-144-11	DEVICE, OPTICAL KSS-240A	
305	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	

Ref. No.	Part No.	Description	Remark
306	4-917-564-01	GEAR (P), FLATNESS	
* 307	A-4649-541-A	BD (A) BOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6X8), +BVTP	
M301	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M302	X-4917-504-1	MOTOR ASSY (SLED)	

SEE ADDITIONAL
INFORMATIONSECTION 8
ELECTRICAL PARTS LIST

BD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● SEMICONDUCTORS

In each case, u: μ , for example:uA...: μ A.. uPA...: μ PA..uPB...: μ PB.. uPC...: μ PC.. uPD...: μ PD..

● CAPACITORS

uF: μ F

● COILS

uH: μ H

● Abbreviations

CND: Canadian

G: Germany

IT: Italian

AUS: Australian

EA: Saudi Arabia

EE: East European

MY: Malaysia

SP: Singapore

JE: Tourist

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-4649-541-A	BD BOARD, COMPLETE *****	
		< CAPACITOR >	
C101	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C102	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V
C103	1-135-155-21	TANTALUM CHIP 4.7uF	10% 16V
C104	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C105	1-126-607-11	ELECT CHIP 47uF	20% 4V
C106	1-126-607-11	ELECT CHIP 47uF	20% 4V
C107	1-126-607-11	ELECT CHIP 47uF	20% 4V
C108	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V
C111	1-164-346-11	CERAMIC CHIP 1uF	16V
C112	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C113	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C114	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C115	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C117	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C118	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C119	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C120	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V
C151	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V
C152	1-164-346-11	CERAMIC CHIP 1uF	16V
C153	1-163-135-00	CERAMIC CHIP 560PF	5% 50V
C154	1-164-695-11	CERAMIC CHIP 0.0022uF	5% 50V
C155	1-163-023-00	CERAMIC CHIP 0.015uF	5% 50V
C171	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C173	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C174	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C201	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C202	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
C203	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C204	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C205	1-164-346-11	CERAMIC CHIP 1uF	16V
C206	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C207	1-163-093-00	CERAMIC CHIP 10PF	5% 50V

Ref. No.	Part No.	Description	Remark
C208	1-164-346-11	CERAMIC CHIP 1uF	16V
C209	1-164-346-11	CERAMIC CHIP 1uF	16V
C210	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C299	1-164-346-11	CERAMIC CHIP 1uF	16V
C301	1-164-346-11	CERAMIC CHIP 1uF	16V
C302	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C303	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C304	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C305	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C306	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
C307	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
C308	1-164-346-11	CERAMIC CHIP 1uF	16V
C309	1-164-346-11	CERAMIC CHIP 1uF	16V
C310	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C311	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C312	1-164-346-11	CERAMIC CHIP 1uF	16V
C401	1-164-232-11	CERAMIC CHIP 0.01uF	50V

< CONNECTOR >

CN101	1-580-858-11	SOCKET, CONNECTOR (SMT) 5P
CN102	1-580-866-11	SOCKET, CONNECTOR (SMT) 12P
CN103	1-580-872-41	SOCKET, CONNECTOR (SMT) 19P

< DIODE >

D101	8-719-422-12	DIODE MA8039
D201	8-719-016-74	DIODE 1SS352

< IC >

IC101	8-752-053-73	IC CXA1372AQ
IC102	8-759-823-48	IC LA6525M
IC103	8-759-636-20	IC M54641FP
IC201	8-752-352-93	IC CXD2500BQ
IC202	8-759-059-86	IC uPD75116GF-F21-3BE
IC203	8-759-098-27	IC MSM6538-01GS-VKR1
IC301	8-759-155-52	IC PCM-67U-B
IC302	8-759-996-43	IC RC4558PS

< JACK >

J201	1-216-296-00	METAL CHIP 0 5% 1/8W
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SEE ADDITIONAL
INFORMATION

BD

DISPLAY

Ref. No.	Part No.	Description	Remark		
J203	1-216-296-00	METAL CHIP	0	5%	1/8W
J205	1-216-295-00	METAL CHIP	0	5%	1/10W
J206	1-216-296-00	METAL CHIP	0	5%	1/8W
J207	1-216-296-00	METAL CHIP	0	5%	1/8W
J208	1-216-295-00	METAL CHIP	0	5%	1/10W
J209	1-216-296-00	METAL CHIP	0	5%	1/8W
J210	1-216-296-00	METAL CHIP	0	5%	1/8W
J211	1-216-296-00	METAL CHIP	0	5%	1/8W
J212	1-216-296-00	METAL CHIP	0	5%	1/8W
J215	1-216-295-00	METAL CHIP	0	5%	1/10W
< TRANSISTOR >					
Q101	8-729-805-45	TRANSISTOR	2SC3395		
Q201	8-729-602-21	TRANSISTOR	2SC4154		
< RESISTOR >					
R101	1-216-097-00	METAL CHIP	100K	5%	1/10W
R102	1-216-097-00	METAL CHIP	100K	5%	1/10W
R103	1-216-091-00	METAL CHIP	56K	5%	1/10W
R104	1-216-099-00	METAL CHIP	120K	5%	1/10W
R105	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R107	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R108	1-216-105-00	METAL CHIP	220K	5%	1/10W
R109	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R110	1-216-049-00	METAL CHIP	1K	5%	1/10W
R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
R113	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R114	1-216-105-00	METAL CHIP	220K	5%	1/10W
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R153	1-216-085-00	METAL CHIP	33K	5%	1/10W
R154	1-216-085-00	METAL CHIP	33K	5%	1/10W
R155	1-216-093-00	METAL CHIP	68K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-236-427-11	RESISTOR, NETWORK	18K		
R159	1-216-079-00	METAL CHIP	18K	5%	1/10W
R160	1-216-049-00	METAL CHIP	1K	5%	1/10W
R171	1-216-001-00	METAL CHIP	10	5%	1/10W
R172	1-216-001-00	METAL CHIP	10	5%	1/10W
R173	1-216-001-00	METAL CHIP	10	5%	1/10W
R174	1-216-001-00	METAL CHIP	10	5%	1/10W
R201	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R202	1-216-073-00	METAL CHIP	10K	5%	1/10W
R203	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R204	1-216-073-00	METAL CHIP	10K	5%	1/10W
R205	1-216-097-00	METAL CHIP	100K	5%	1/10W
R209	1-216-081-00	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R212	1-239-039-11	RESISTOR, NETWORK	12K		
R214	1-239-039-11	RESISTOR, NETWORK	22K		
R218	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R219	1-216-073-00	METAL CHIP	10K	5%	1/10W
R220	1-216-001-00	METAL CHIP	10	5%	1/10W
R222	1-236-427-11	RESISTOR, NETWORK	18K		
R223	1-216-081-00	METAL CHIP	22K	5%	1/10W
R224	1-216-081-00	METAL CHIP	22K	5%	1/10W
R225	1-216-081-00	METAL CHIP	22K	5%	1/10W
R226	1-216-081-00	METAL CHIP	22K	5%	1/10W
R230	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R231	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R232	1-216-041-00	METAL CHIP	470	5%	1/10W
R233	1-216-041-00	METAL CHIP	470	5%	1/10W
R234	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R235	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R236	1-236-413-11	RESISTOR, NETWORK	1.2K		
R301	1-236-413-11	RESISTOR, NETWORK	1.2K		
R303	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R304	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R305	1-216-097-00	METAL CHIP	100K	5%	1/10W
R306	1-216-097-00	METAL CHIP	100K	5%	1/10W
< VARIABLE RESISTOR >					
RV101	1-241-395-11	RES, ADJ, METAL GLAZE	10K		
RV102	1-241-395-11	RES, ADJ, METAL GLAZE	10K		
< SWITCH >					
SW101	1-572-085-11	SWITCH, LEAF (LIMIT)			
< VIBRATOR >					
X201	1-567-908-11	VIBRATOR, CRYSTAL (16MHz)			
X202	1-579-216-11	VIBRATOR, CERAMIC (4MHz)			

*	A-4356-594-A	DISPLAY BOARD, COMPLETE (H61M:US, CND)			
*	A-4356-600-A	DISPLAY BOARD, COMPLETE (H61:AEP/H61M:AEP)			
*	A-4356-601-A	DISPLAY BOARD, COMPLETE (H61:G)			
*	A-4356-602-A	DISPLAY BOARD, COMPLETE (H61:IT)			
*	A-4356-603-A	DISPLAY BOARD, COMPLETE (H61:E, AUS, EA, MY, SP)			
*	A-4356-593-A	DISPLAY BOARD, COMPLETE (H61M:UK)			
*	A-4356-604-A	DISPLAY BOARD, COMPLETE (H61:EE)			
*	A-4360-498-A	DISPLAY BOARD, COMPLETE (H61:JE)			

< CAPACITOR >					
C501	1-164-159-11	CERAMIC	0.1uF		50V
C502	1-164-159-11	CERAMIC	0.1uF		50V

SEE ADDITIONAL
INFORMATION

DISPLAY

Ref. No.	Part No.	Description	Remark
C503	1-136-177-00	FILM 1uF	5% 50V
C504	1-164-159-11	CERAMIC 0.1uF	50V
C505	1-126-177-11	ELECT 100uF	20% 10V
C506	1-164-159-11	CERAMIC 0.1uF	50V
C507	1-126-157-11	ELECT 10uF	20% 16V
C508	1-164-159-11	CERAMIC 0.1uF	50V
C509	1-124-584-00	ELECT 100uF	20% 10V
C510	1-162-205-31	CERAMIC 18PF	5% 50V
C511	1-162-205-31	CERAMIC 18PF	5% 50V
C512	1-164-159-11	CERAMIC 0.1uF	50V
C513	1-164-159-11	CERAMIC 0.1uF	50V

< VIBRATOR >

CF5001 1-577-101-11 VIBRATOR, CERAMIC (4.19MHz)

< CONNECTOR >

* CN501 1-569-156-11 SOCKET, CONNECTOR 10P
 * CN502 1-573-049-11 SOCKET, CONNECTOR 11P
 * CN503 1-566-969-11 HOUSING, CONNECTOR(PC BOARD) 7P
 * CN504 1-568-830-11 SOCKET, CONNECTOR 11P
 * CN505 1-565-042-11 HOUSING, CONNECTOR(PC BOARD) 5P
 (H61:E, EA, AUS, MY, SP, JE)

< DIODE >

D501 8-719-987-63 DIODE 1N4148M
 D502 8-719-987-63 DIODE 1N4148M
 D503 8-719-987-63 DIODE 1N4148M
 D504 8-719-987-63 DIODE 1N4148M
 D505 8-719-987-63 DIODE 1N4148M
 D506 8-719-987-63 DIODE 1N4148M
 D507 8-719-987-63 DIODE 1N4148M
 D508 8-719-010-46 DIODE UZ-6, 2BSB
 D509 8-719-301-37 LED EL2210S-CD (ROCK)
 (H61:AEP, G, IT, EE/H61M)
 D510 8-719-301-37 LED SEL2210S-CD (MAIN)
 (H61:E, EA, AUS, MY, SP, TE)
 D510 8-719-301-37 LED SEL2210S-CD (POPS)
 (H61:AEP, G, IT, EE/H61M)
 D511 8-719-301-37 LED SEL2210S-CD (SUB)
 (H61:E, EA, AUS, MY, SP, TE)
 D511 8-719-301-37 LED SEL2210S-CD (JAZZ)
 (H61:AEP, G, IT, EE/H61M)
 D512 8-719-301-37 LED SEL2210S-CD (KARAOKE PON)
 (H61:E, EA, AUS, MY, SP, TE)
 D512 8-719-301-37 LED SEL2210S-CD (HALL)
 (H61:AEP, G, IT, EE/H61M)
 D513 8-719-301-37 LED SEL2210S-CD (BGM)
 (H61:AEP, G, IT, EE/H61M)
 D514 8-719-301-37 LED SEL2210S-CD (DIRECT)
 D515 8-719-301-37 LED SEL2210S-CD (HIGH)
 D516 8-719-301-37 LED SEL2210S-CD (NORMAL)
 D517 8-719-301-37 LED SEL2210S-CD (S-SUR)

Ref. No.	Part No.	Description	Remark
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< FLUORESCENT INDICATOR TUBE >

FL501 1-517-122-11 INDICATOR TUBE, FLUORESCENT

< IC >

IC501 8-759-088-84 IC uPD78042GF-015-3B9
 IC502 8-759-500-31 IC X24C01P
 IC503 8-759-520-90 IC PST572E
 IC504 8-749-923-80 IC GP1U90XB

< TRANSISTOR >

Q501 8-729-900-80 TRANSISTOR DTC114ES
 Q502 8-729-900-61 TRANSISTOR DTA114ES
 Q503 8-729-900-80 TRANSISTOR DTC114ES
 Q506 8-729-900-80 TRANSISTOR DTC114ES
 (H61:AEP, G, IT, EE/H61M)
 Q507 8-729-620-05 TRANSISTOR 2SC2603-EF
 Q508 8-729-900-80 TRANSISTOR DTC114ES
 (H61:AEP, G, IT, EE/H61M)
 Q509 8-729-900-80 TRANSISTOR DTC114ES
 (H61:AEP, G, IT, EE/H61M)

< RESISTOR >

R501 1-249-419-11 CARBON 1.5K 5% 1/4W
 R502 1-249-405-11 CARBON 100 5% 1/4W
 R503 1-249-406-11 CARBON 120 5% 1/4W
 R504 1-249-406-11 CARBON 120 5% 1/4W
 R505 1-249-407-11 CARBON 150 5% 1/4W
 R506 1-249-408-11 CARBON 180 5% 1/4W
 R507 1-249-409-11 CARBON 220 5% 1/4W
 R508 1-249-410-11 CARBON 270 5% 1/4W
 R509 1-249-411-11 CARBON 330 5% 1/4W
 R510 1-249-413-11 CARBON 470 5% 1/4W
 R511 1-249-414-11 CARBON 560 5% 1/4W
 R512 1-249-419-11 CARBON 1.5K 5% 1/4W
 R513 1-249-405-11 CARBON 100 5% 1/4W
 R514 1-249-406-11 CARBON 120 5% 1/4W
 R515 1-249-406-11 CARBON 120 5% 1/4W
 R516 1-249-407-11 CARBON 150 5% 1/4W
 R517 1-249-408-11 CARBON 180 5% 1/4W
 R518 1-249-409-11 CARBON 220 5% 1/4W
 R519 1-249-410-11 CARBON 270 5% 1/4W
 R520 1-249-411-11 CARBON 330 5% 1/4W
 R521 1-249-413-11 CARBON 470 5% 1/4W
 R522 1-249-414-11 CARBON 560 5% 1/4W
 R523 1-249-416-11 CARBON 820 5% 1/4W
 R524 1-249-418-11 CARBON 1.2K 5% 1/4W
 R525 1-249-421-11 CARBON 2.2K 5% 1/4W
 R529 1-249-429-11 CARBON 10K 5% 1/4W
 R530 1-249-429-11 CARBON 10K 5% 1/4W

SEE ADDITIONAL
INFORMATION

DISPLAY

Ref. No.	Part No.	Description	Remark		
R531	1-249-429-11	CARBON	10K	5%	1/4W
R532	1-249-429-11	CARBON	10K	5%	1/4W
R533	1-249-417-11	CARBON	1K	5%	1/4W
R534	1-249-417-11	CARBON	1K	5%	1/4W
R535	1-249-417-11	CARBON	1K	5%	1/4W
R536	1-249-419-11	CARBON	1.5K	5%	1/4W
R537	1-249-423-11	CARBON	3.3K	5%	1/4W
R538	1-249-417-11	CARBON	1K	5%	1/4W
R539	1-249-417-11	CARBON	1K	5%	1/4W
R540	1-249-417-11	CARBON	1K	5%	1/4W
R541	1-249-417-11	CARBON	1K	5%	1/4W
R542	1-249-417-11	CARBON	1K	5%	1/4W
R543	1-249-417-11	CARBON	1K	5%	1/4W
R544	1-249-417-11	CARBON	1K	5%	1/4W
R545	1-249-417-11	CARBON	1K	5%	1/4W
R546	1-249-417-11	CARBON	1K	5%	1/4W
R547	1-249-417-11	CARBON	1K	5%	1/4W
R548	1-249-417-11	CARBON	1K	5%	1/4W
R549	1-249-417-11	CARBON	1K	5%	1/4W
R550	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-249-429-11	CARBON	10K	5%	1/4W
R552	1-249-429-11	CARBON	10K	5%	1/4W
R553	1-249-429-11	CARBON	10K	5%	1/4W
R554	1-249-437-11	CARBON	47K	5%	1/4W
R555	1-249-437-11	CARBON	47K	5%	1/4W
R556	1-249-437-11	CARBON	47K	5%	1/4W
R557	1-249-437-11	CARBON	47K	5%	1/4W
R558	1-249-437-11	CARBON	47K	5%	1/4W
R559	1-249-437-11	CARBON	47K	5%	1/4W
R560	1-249-437-11	CARBON	47K	5%	1/4W
R561	1-249-437-11	CARBON	47K	5%	1/4W
R562	1-249-437-11	CARBON	47K	5%	1/4W
R563	1-249-437-11	CARBON	47K	5%	1/4W
R564	1-249-437-11	CARBON	47K	5%	1/4W
R565	1-249-437-11	CARBON	47K	5%	1/4W
R566	1-249-417-11	CARBON	1K	5%	1/4W
R567	1-249-429-11	CARBON	10K	5%	1/4W
R568	1-249-425-11	CARBON	4.7K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-411-11	CARBON	330	5%	1/4W
R571	1-249-411-11	CARBON	330	5%	1/4W
R572	1-249-414-11	CARBON	560	5%	1/4W
R574	1-249-416-11	CARBON	820	5%	1/4W
R575	1-249-429-11	CARBON	10K	5%	1/4W
R576	1-249-429-11	CARBON	10K	5%	1/4W
R578	1-249-414-11	CARBON	560	5%	1/4W
R580	1-249-437-11	CARBON	47K	5%	1/4W
R581	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R582	1-249-425-11	CARBON	4.7K	5%	1/4W
R583	1-249-417-11	CARBON	1K	5%	1/4W
R584	1-249-417-11	CARBON	1K	5%	1/4W
R585	1-249-417-11	CARBON	1K	5%	1/4W
R586	1-249-417-11	CARBON	1K	5%	1/4W
R5001	1-247-844-11	CARBON	3.6K	5%	1/4W (H61M:US, CND)
R5001	1-249-413-11	CARBON	470	5%	1/4W (H61:G)
R5001	1-247-832-11	CARBON	1.1K	5%	1/4W (H61:IT)
R5001	1-249-426-11	CARBON	5.6K	5%	1/4W (H61:EE)
R5001	1-249-421-11	CARBON	2.2K	5%	1/4W (H61:E, AUS, EA, MY, SP)
R5001	1-249-429-11	CARBON	10K	5%	1/4W (H61:JE)
< VARIABLE RESISTOR >					
RV501	1-223-300-11	RES, VAR, SLIDE 50K (ECHO)			(H61:E, AUS, EA, MY, SP, JE)
RV502	1-223-300-11	RES, VAR, SLIDE 50K (MIC LEVEL)			(H61:E, AUS, EA, MY, SP, JE)
< SWITCH >					
S501	1-572-184-11	SWITCH, KEYBOARD (CLOCK DISPLAY (CLOCK SET))			
S502	1-572-184-11	SWITCH, KEYBOARD (TIMER CONT)			
S503	1-572-184-11	SWITCH, KEYBOARD (SLEEP)			
S504	1-572-184-11	SWITCH, KEYBOARD (MEMORY (NEXT))			
S505	1-572-184-11	SWITCH, KEYBOARD (AUTO)			
S506	1-572-184-11	SWITCH, KEYBOARD (MODE)			
S507	1-572-184-11	SWITCH, KEYBOARD (TUNING +)			
S508	1-572-184-11	SWITCH, KEYBOARD (TUNING -)			
S509	1-572-184-11	SWITCH, KEYBOARD (BAND)			
S510	1-572-184-11	SWITCH, KEYBOARD (PRESET/TIMER +)			
S511	1-572-184-11	SWITCH, KEYBOARD (PRESET/TIMER -)			
S512	1-572-184-11	SWITCH, KEYBOARD (POWER (ON/STANDBY))			
S513	1-572-184-11	SWITCH, KEYBOARD (TIMER SET (CLOCK SET))			
S514	1-572-184-11	SWITCH, KEYBOARD (DBFB)			
S515	1-572-184-11	SWITCH, KEYBOARD (TAPE)			
S516	1-572-184-11	SWITCH, KEYBOARD (CD)			
S517	1-572-184-11	SWITCH, KEYBOARD (TUNER)			
S518	1-572-184-11	SWITCH, KEYBOARD (PHONO) (H61:AEP, G, IT, EE/H61M:UK)			
S518	1-572-184-11	SWITCH, KEYBOARD (VIDEO) (H61:E, EA, AUS, MY, SP, JE/H61M:US, CND, AEP)			
S519	1-572-184-11	SWITCH, KEYBOARD (ROCK) (H61:AEP, G, IT, EE/H61M)			
S519	1-572-184-11	SWITCH, KEYBOARD (STEREO) (H61:E, EA, AUS, MY, SP, JE)			
S520	1-572-184-11	SWITCH, KEYBOARD (POPS) (H61:AEP, G, IT, EE/H61M)			
S520	1-572-184-11	SWITCH, KEYBOARD (MAIN) (H61:E, EA, AUS, MY, SP, JE)			

SEE ADDITIONAL INFORMATION

DISPLAY

ECHO

Ref. No.	Part No.	Description	Remark
S521	1-572-184-11	SWITCH, KEYBOARD (JAZZ) (H61:E, AEP, G, IT, EE/H61M)	
S521	1-572-184-11	SWITCH, KEYBOARD (SUB) (H61:E, EA, AUS, MY, SP, JE)	
S522	1-572-184-11	SWITCH, KEYBOARD (HALL) (H61:AEP, G, IT, EE/H61M)	
S522	1-572-184-11	SWITCH, KEYBOARD (KARAOKE PON) (H61:E, EA, AUS, MY, SP, JE)	
S523	1-572-184-11	SWITCH, KEYBOARD (BGM) (H61:AEP, G, IT, EE/H61M)	
S523	1-572-184-11	SWITCH, KEYBOARD (PRESET) (H61:E, EA, AUS, MY, SP, JE)	
S524	1-572-184-11	SWITCH, KEYBOARD (DIRECT)	
S525	1-572-184-11	SWITCH, KEYBOARD (S-SUR)	

< VIBRATOR >

X5001 1-567-098-00 OSCILLATOR, CRYSTAL (32.768kHz)

* A-4356-599-A ECHO BOARD, COMPLETE
(H61:E, AUS, EA, MY, SP, JE)

< CAPACITOR >

C610	1-126-101-11	ELECT	100uF 20% 16V (H61:E, AUS, EA, MY, SP, JE)
C611	1-164-159-11	CERAMIC	0.1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C612	1-162-291-31	CERAMIC	560PF 10% 50V (H61:E, AUS, EA, MY, SP, JE)
C613	1-124-903-11	ELECT	1uF 20% 50V (H61:E, AUS, EA, MY, SP, JE)
C614	1-130-480-00	CERAMIC	0.0056uF 5% 50V (H61:E, AUS, EA, MY, SP, JE)
C615	1-124-903-11	ELECT	1uF 20% 50V (H61:E, AUS, EA, MY, SP, JE)
C616	1-161-379-00	CERAMIC	0.01uF 20% 25V (H61:E, AUS, EA, MY, SP, JE)
C617	1-164-159-11	CERAMIC	0.1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C618	1-124-910-11	ELECT	47uF 20% 50V (H61:E, AUS, EA, MY, SP, JE)
C619	1-164-159-11	CERAMIC	0.1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C620	1-164-159-11	CERAMIC	0.1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C621	1-164-159-11	CERAMIC	0.1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C622	1-161-374-11	CERAMIC	0.0015uF 20% 50V (H61:E, AUS, EA, MY, SP, JE)
C623	1-124-903-11	ELECT	1uF 20% 50V (H61:E, AUS, EA, MY, SP, JE)
C624	1-164-159-11	CERAMIC	0.1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C625	1-164-159-11	CERAMIC	0.1uF 50V (H61:E, AUS, EA, MY, SP, JE)

Ref. No.	Part No.	Description	Remark
C629	1-124-907-11	ELECT	10uF 20% 50V (H61:E, AUS, EA, MY, SP, JE)
C630	1-162-282-31	CERAMIC	100PF 10% 50V (H61:E, AUS, EA, MY, SP, JE)
C631	1-162-286-31	CERAMIC	220PF 10% 50V (H61:E, AUS, EA, MY, SP, JE)
C632	1-161-379-00	CERAMIC	0.01uF 20% 25V (H61:E, AUS, EA, MY, SP, JE)
C633	1-161-379-00	CERAMIC	0.01uF 20% 25V (H61:E, AUS, EA, MY, SP, JE)
C634	1-124-907-11	ELECT	10uF 20% 50V (H61:E, AUS, EA, MY, SP, JE)
C635	1-162-300-11	CERAMIC	0.01uF (H61:E, AUS, EA, MY, SP, JE)

< CONNECTOR >

* CN611 1-568-848-11 SOCKET, CONNECTOR 5P
(H61:E, AUS, EA, MY, SP, JE)
* CN612 1-568-824-11 SOCKET, CONNECTOR 5P
(H61:E, AUS, EA, MY, SP, JE)
* CN613 1-565-041-11 PIN, CONNECTOR (PC BOARD) 5P
(H61:E, AUS, EA, MY, SP, JE)

< DIODE >

D610 8-719-028-15 LED LED-SX-TP (H61:E, AUS, EA, MY, SP, JE)

< IC >

IC602 8-759-634-51 IC M5218A (H61:E, AUS, EA, MY, SP, JE)
IC610 8-759-166-05 IC M65831PK (H61:E, AUS, EA, MY, SP, JE)

< COIL >

L610 1-408-104-00 INDUCTOR 1mH (H61:E, AUS, EA, MY, SP, JE)

< RESISTOR >

R610 1-247-903-00 CARBON 1M 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R611 1-249-429-11 CARBON 10K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R612 1-249-429-11 CARBON 10K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R613 1-249-431-11 CARBON 15K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R614 1-249-431-11 CARBON 15K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R615 1-249-431-11 CARBON 15K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R616 1-249-431-11 CARBON 15K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R617 1-249-429-11 CARBON 10K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)
R618 1-249-436-11 CARBON 39K 5% 1/4W
(H61:E, AUS, EA, MY, SP, JE)

REVISED

SEE ADDITIONAL
INFORMATION

ECHO

JACK

LOADING

MAIN

Ref. No.	Part No.	Description	Remark
R619	1-249-431-11	CARBON	15K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R623	1-247-887-00	CARBON	220K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R624	1-247-887-00	CARBON	220K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R625	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R626	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R627	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R628	1-249-431-11	CARBON	15K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R629	1-247-887-00	CARBON	220K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R630	1-247-887-00	CARBON	220K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R631	1-249-417-11	CARBON	1K 5% 1/4W F (H61:E, AUS, EA, MY, SP, JE)

< VIBRATOR >

X610 1-577-358-21 VIBRATOR, CERAMIC (2MHz)
(H61:E, AUS, EA, MY, SP, JE)

* 1-646-897-11 JACK BOARD

< CAPACITOR >

C250	1-162-282-31	CERAMIC	100PF	10%	50V
C251	1-162-282-31	CERAMIC	100PF	10%	50V
C252	1-126-157-11	ELECT	10uF	20%	16V
C260	1-162-294-31	CERAMIC	0.001uF	10%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C261	1-162-294-31	CERAMIC	0.001uF	10%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C262	1-162-282-31	CERAMIC	100PF	10%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C263	1-162-290-31	CERAMIC	470PF	10%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C264	1-124-463-00	ELECT	0.1uF	20%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C265	1-124-463-00	ELECT	0.1uF	20%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C266	1-124-463-00	ELECT	0.1uF	20%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C267	1-161-379-00	CERAMIC	0.01uF	20%	25V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
C268	1-124-465-00	ELECT	0.47uF	20%	50V (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)

< CONNECTOR >

* CN251 1-568-848-11 SOCKET, CONNECTOR 5P

Ref. No.	Part No.	Description	Remark
* CN261	1-568-848-11	SOCKET, CONNECTOR 5P (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)	
		< IC >	
IC250	8-759-634-51	IC M5218AP (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)	
		< JACK >	
J251	1-750-032-11	JACK (DIA. 3.5) (HEADPHONES)	
J261	1-750-032-11	JACK (DIA. 3.5) (MIX MIC) (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)	

< RESISTOR >

R250	1-249-414-11	CARBON	560	5%	1/4W
R251	1-249-414-11	CARBON	560	5%	1/4W
R252	1-249-417-11	CARBON	1K	5%	1/4W
R260	1-249-429-11	CARBON	10K	5%	1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
R261	1-249-411-11	CARBON	330	5%	1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
R262	1-249-416-11	CARBON	820	5%	1/4W F (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
R263	1-247-887-00	CARBON	220K	5%	1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
R264	1-249-441-11	CARBON	100K	5%	1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)

* 1-638-308-11 LOADING BOARD

< CONNECTOR >

CN201 1-580-918-11 HOUSING, CONNECTOR 5P

< SWITCH >

S291 1-571-924-11 SWITCH, LEAF (LOAD IN)
S292 1-571-924-11 SWITCH, LEAF (LOAD OUT)

* A-4356-569-A MAIN BOARD, COMPLETE (H61:AEP)
* A-4356-570-A MAIN BOARD, COMPLETE (H61:G, IT)
* A-4356-571-A MAIN BOARD, COMPLETE (H61:EE)
* A-4356-572-A MAIN BOARD, COMPLETE
(H61:E, AUS, EA, MY, SP)
* A-4360-497-A MAIN BOARD, COMPLETE (H61:JE)
* A-4356-561-A MAIN BOARD, COMPLETE (H61M:US, CND)
* A-4356-559-A MAIN BOARD, COMPLETE (HCD-H61M:AEP)
* A-4365-422-A MAIN BOARD, COMPLETE (HCD-H61M:UK)

*

* 4-925-530-01 PLATE, GROUND (HCD-H61)

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description	Remark		
< ANTENNA >					
ANT1	1-501-321-51	ANTENNA, TELESCOPIC (H61)			
< CAPACITOR >					
C1	1-162-195-31	CERAMIC	4.7PF	10%	50V (H61)
C2	1-124-907-11	ELECT	10uF	20%	50V
C3	1-161-379-00	CERAMIC	0.01uF	20%	25V
C4	1-162-294-31	CERAMIC	0.001uF	10%	50V
C5	1-161-494-00	CERAMIC	0.022uF		25V (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)
C6	1-162-195-31	CERAMIC	4.7PF	10%	50V (H61:E, AUS, EA, MY, SP, JE)
C7	1-136-162-00	FILM	0.056uF	5%	50V (H61:E, AUS, EA, MY, SP, JE)
C8	1-164-159-11	CERAMIC	0.1uF		50V (H61:E, AUS, EA, MY, SP, JE)
C9	1-102-120-00	CERAMIC	0.0018uF	10%	50V (H61:AEP, EE/H61M:AEP, UK)
C10	1-161-374-11	CERAMIC	0.0015uF	20%	50V (H61:AEP, EE/H61M:AEP, UK)
C11	1-161-494-00	CERAMIC	0.022uF		25V (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)
C12	1-161-494-00	CERAMIC	0.022uF		25V
C13	1-162-198-31	CERAMIC	8.2PF	10%	50V
C14	1-124-463-00	ELECT	0.1uF	20%	50V
C15	1-136-153-00	FILM	0.01uF	5%	50V
C16	1-124-925-11	ELECT	2.2uF	20%	100V
C17	1-136-157-00	FILM	0.022uF	5%	50V (H61:AEP, EE/H61M:AEP, UK)
C18	1-136-157-00	FILM	0.022uF	5%	50V (H61:AEP, EE/H61M:AEP, UK)
C19	1-124-902-00	ELECT	0.47uF	20%	50V (H61:AEP, EE/H61M:AEP, UK)
C20	1-124-477-11	ELECT	47uF	20%	25V
C21	1-161-379-00	CERAMIC	0.01uF	20%	25V
C22	1-124-907-11	ELECT	10uF	20%	50V
C23	1-161-379-00	CERAMIC	0.01uF	20%	25V
C24	1-161-379-00	CERAMIC	0.01uF	20%	25V
C25	1-164-056-11	CERAMIC	27PF	5%	50V
C26	1-164-056-11	CERAMIC	27PF	5%	50V
C27	1-161-379-00	CERAMIC	0.01uF	20%	25V
C28	1-161-379-00	CERAMIC	0.01uF	20%	25V
C29	1-161-379-00	CERAMIC	0.01uF	20%	25V
C31	1-161-379-00	CERAMIC	0.01uF	20%	25V
C32	1-124-907-11	ELECT	10uF	20%	50V
C33	1-161-379-00	CERAMIC	0.01uF	20%	25V
C34	1-161-379-00	CERAMIC	0.01uF	20%	25V
C35	1-161-379-00	CERAMIC	0.01uF	20%	25V
C36	1-161-379-00	CERAMIC	0.01uF	20%	25V
C37	1-124-925-11	ELECT	2.2uF	20%	100V
C38	1-124-903-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description	Remark		
C39	1-124-903-11	ELECT 1uF	20%	50V	
C40	1-161-379-00	CERAMIC 0.01uF	20%	25V	
C41	1-123-382-00	ELECT 3.3uF	20%	100V	
C42	1-124-907-11	ELECT 10uF	20%	50V	
C43	1-161-379-00	CERAMIC 0.01uF	20%	25V	
C44	1-161-377-00	CERAMIC 0.0047uF	30%	16V	
C45	1-162-294-31	CERAMIC 0.001uF	10%	50V	(H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M)
C45	1-162-291-31	CERAMIC 560PF	10	50V	(H61:G, IT)
C46	1-162-282-31	CERAMIC 100PF	10%	50V	(H61:G, IT)
C47	1-124-903-11	ELECT 1uF	20%	50V	
C48	1-161-494-00	CERAMIC 0.022uF		25V	(H61/H61M:AEP, UK)
C48	1-136-159-00	FILM 0.033uF	5%	50V	(H61M:US, CND)
C49	1-161-494-00	CERAMIC 0.022uF		25V	(H61/H61M:AEP, UK)
C49	1-136-159-00	FILM 0.033uF	5%	50V	(H61M:US, CND)
C50	1-124-903-11	ELECT 1uF	20%	50V	
C51	1-124-903-11	ELECT 1uF	20%	50V	
C52	1-124-903-11	ELECT 1uF	20%	50V	
C53	1-124-903-11	ELECT 1uF	20%	50V	
C54	1-161-375-00	CERAMIC 0.0022uF	20%	50V	
C55	1-161-375-00	CERAMIC 0.0022uF	20%	50V	
C56	1-124-477-11	ELECT 47uF	20%	25V	
C57	1-126-176-11	ELECT 220uF	20%	10V	
C58	1-161-379-00	CERAMIC 0.01uF	20%	25V	
C59	1-162-294-31	CERAMIC 0.001uF	10%	50V	
C60	1-162-294-31	CERAMIC 0.001uF	10%	50V	
C61	1-130-478-00	MYLAR 0.0039uF	5%	50V	
C62	1-130-478-00	MYLAR 0.0039uF	5%	50V	
C64	1-162-294-31	CERAMIC 0.001uF	10%	50V	
C65	1-164-064-11	CERAMIC 56PF	5%	50V	
C581	1-124-927-11	ELECT 4.7uF	20%	100V	
C582	1-124-907-11	ELECT 10uF	20%	50V	
C583	1-136-177-00	FILM 1uF	5%	50V	
C601	1-162-286-31	CERAMIC 220PF	10%	50V	
C602	1-162-286-31	CERAMIC 220PF	10%	50V	
C603	1-162-282-31	CERAMIC 100PF	10%	50V	(H61:AEP, G, IT, EE/H61M:AEP, UK)
C604	1-162-282-31	CERAMIC 100PF	10%	50V	(H61:AEP, G, IT, EE/H61M:AEP, UK)
C605	1-124-902-00	ELECT 0.47uF	20%	50V	(H61:AEP, G, IT, EE/H61M:AEP, UK)
C606	1-124-902-00	ELECT 0.47uF	20%	50V	(H61:AEP, G, IT, EE/H61M:AEP, UK)
C607	1-162-282-31	CERAMIC 100PF	10%	50V	(H61:AEP, G, IT, EE/H61M:AEP, UK)
C608	1-162-282-31	CERAMIC 100PF	10%	50V	(H61:AEP, G, IT, EE/H61M:AEP, UK)

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Ref. No.	Part No.	Description	Remark
C609	1-124-927-11	ELECT	4. 7uF 20% 100V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C610	1-124-927-11	ELECT	4. 7uF 20% 100V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C611	1-161-374-11	CERAMIC	0. 0015uF 20% 50V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C612	1-161-374-11	CERAMIC	0. 0015uF 20% 50V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C613	1-130-480-00	MYLAR	0. 0056uF 5% 50V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C614	1-130-480-00	MYLAR	0. 0056uF 5% 50V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C615	1-124-925-11	ELECT	2. 2uF 20% 100V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C616	1-124-925-11	ELECT	2. 2uF 20% 100V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C617	1-124-477-11	ELECT	47uF 20% 25V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C618	1-124-477-11	ELECT	47uF 20% 25V (H61:AEP, G, IT, EE/H61M:AEP, UK)
C619	1-164-159-11	CERAMIC	0. 1uF 50V
C620	1-164-159-11	CERAMIC	0. 1uF 50V
C621	1-164-159-11	CERAMIC	0. 1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C622	1-164-159-11	CERAMIC	0. 1uF 50V (H61:E, AUS, EA, MY, SP, JE)
C625	1-162-290-31	CERAMIC	470PF 10% 50V (H61M:US, CND)
C625	1-162-294-31	CERAMIC	0. 001uF 10% 50V (H61:E, AUS, EA, MY, SP, JE)
C626	1-162-290-31	CERAMIC	470PF 10% 50V (H61M:US, CND)
C626	1-162-294-31	CERAMIC	0. 001uF 10% 50V (H61:E, AUS, EA, MY, SP, JE)
C627	1-164-159-11	CERAMIC	0. 1uF 50V (H61M:US, CND)
C627	1-161-494-00	CERAMIC	0. 022uF 25V (H61:E, AUS, EA, MY, SP, JE)
C628	1-164-159-11	CERAMIC	0. 1uF 50V (H61M:US, CND)
C628	1-161-494-00	CERAMIC	0. 022uF 25V (H61:E, AUS, EA, MY, SP, JE)
C629	1-162-282-31	CERAMIC	100PF 10% 50V
C630	1-162-282-31	CERAMIC	100PF 10% 50V
C631	1-162-207-31	CERAMIC	22PF 5% 50V
C632	1-162-207-31	CERAMIC	22PF 5% 50V
C633	1-164-159-11	CERAMIC	0. 1uF 50V
C634	1-164-159-11	CERAMIC	0. 1uF 50V
C635	1-161-379-00	CERAMIC	0. 01uF 20% 25V (H61:E, AUS, EA, MY, SP, JE)
C636	1-161-379-00	CERAMIC	0. 01uF 20% 25V (H61:E, AUS, EA, MY, SP, JE)
C637	1-124-477-11	ELECT	47uF 20% 25V
C638	1-124-477-11	ELECT	47uF 20% 25V
C639	1-162-282-31	CERAMIC	100PF 10% 50V
C640	1-162-282-31	CERAMIC	100PF 10% 50V
C641	1-164-159-11	CERAMIC	0. 1uF 50V

Ref. No.	Part No.	Description	Remark
C642	1-164-159-11	CERAMIC	0. 1uF 50V
C701	1-124-907-11	ELECT	10uF 20% 50V
C702	1-126-157-11	ELECT	10uF 20% 16V
C703	1-124-907-11	ELECT	10uF 20% 50V
C704	1-126-157-11	ELECT	10uF 20% 16V
C705	1-136-164-00	FILM	0. 082uF 5% 50V
C706	1-136-164-00	FILM	0. 082uF 5% 50V
C707	1-136-167-00	FILM	0. 15uF 5% 50V
C708	1-136-167-00	FILM	0. 15uF 5% 50V
C709	1-162-292-31	CERAMIC	680PF 10% 50V
C710	1-162-292-31	CERAMIC	680PF 10% 50V
C711	1-130-472-00	MYLAR	0. 0012uF 5% 50V
C712	1-130-472-00	MYLAR	0. 0012uF 5% 50V
C713	1-161-374-11	CERAMIC	0. 0015uF 20% 50V
C714	1-161-374-11	CERAMIC	0. 0015uF 20% 50V
C715	1-130-476-00	MYLAR	0. 0027uF 5% 50V
C716	1-130-476-00	MYLAR	0. 0027uF 5% 50V
C717	1-130-478-00	MYLAR	0. 0039uF 5% 50V
C718	1-130-478-00	MYLAR	0. 0039uF 5% 50V
C719	1-161-329-00	CERAMIC	0. 0068uF 30% 16V
C720	1-161-329-00	CERAMIC	0. 0068uF 30% 16V
C721	1-161-379-00	CERAMIC	0. 01uF 20% 25V
C722	1-161-379-00	CERAMIC	0. 01uF 20% 25V
C723	1-130-486-00	MYLAR	0. 018uF 10% 50V
C724	1-130-486-00	MYLAR	0. 018uF 10% 50V
C725	1-161-494-00	CERAMIC	0. 022uF 25V
C726	1-161-494-00	CERAMIC	0. 022uF 25V
C727	1-130-491-00	MYLAR	0. 047uF 5% 50V
C728	1-130-491-00	MYLAR	0. 047uF 5% 50V
C729	1-136-162-00	FILM	0. 056uF 5% 50V
C730	1-136-162-00	FILM	0. 056uF 5% 50V
C731	1-164-159-11	CERAMIC	0. 1uF 50V
C732	1-164-159-11	CERAMIC	0. 1uF 50V
C733	1-136-167-00	FILM	0. 15uF 5% 50V
C734	1-136-167-00	FILM	0. 15uF 5% 50V
C735	1-136-169-00	FILM	0. 22uF 5% 50V
C736	1-136-169-00	FILM	0. 22uF 5% 50V
C737	1-162-282-31	CERAMIC	100PF 10% 50V
C738	1-162-282-31	CERAMIC	100PF 10% 50V
C739	1-124-907-11	ELECT	10uF 20% 50V
C740	1-126-157-11	ELECT	10uF 20% 16V
C741	1-162-282-31	CERAMIC	100PF 10% 50V
C742	1-162-282-31	CERAMIC	100PF 10% 50V
C743	1-162-282-31	CERAMIC	100PF 10% 50V
C744	1-162-282-31	CERAMIC	100PF 10% 50V
C745	1-124-907-11	ELECT	10uF 20% 50V
C746	1-126-157-11	ELECT	10uF 20% 16V
C747	1-162-282-31	CERAMIC	100PF 10% 50V
C748	1-162-282-31	CERAMIC	100PF 10% 50V

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Ref. No.	Part No.	Description	Remark
C749	1-124-903-11	ELECT 1uF	20% 50V
C750	1-126-301-11	ELECT 1uF	20% 50V
C751	1-164-159-11	CERAMIC 0.1uF	50V
C752	1-164-159-11	CERAMIC 0.1uF	50V
C753	1-164-159-11	CERAMIC 0.1uF	50V
C755	1-124-443-00	ELECT 100uF	20% 10V
C758	1-124-443-00	ELECT 100uF	20% 10V
C759	1-124-443-00	ELECT 100uF	20% 10V
C760	1-124-443-00	ELECT 100uF	20% 10V
C761	1-124-903-11	ELECT 1uF	20% 50V
C762	1-124-903-11	ELECT 1uF	20% 50V
C763	1-124-927-11	ELECT 4.7uF	20% 100V
C764	1-124-927-11	ELECT 4.7uF	20% 100V
C766	1-124-907-11	ELECT 10uF	20% 50V
(H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M)			
C767	1-124-903-11	ELECT 1uF	20% 50V
C768	1-124-473-11	ELECT 1000uF	20% 10V
C769	1-124-903-11	ELECT 1uF	20% 50V
C771	1-162-207-31	CERAMIC 22PF	5% 50V
C772	1-162-207-31	CERAMIC 22PF	5% 50V
C775	1-161-379-00	CERAMIC 0.01uF	20% 25V
C776	1-161-379-00	CERAMIC 0.01uF	20% 25V
(H61)			
C777	1-164-159-11	CERAMIC 0.1uF	50V
(H61)			
< FILTER >			
CF1	1-527-968-11	FILTER, CERAMIC	
CF2	1-527-968-11	FILTER, CERAMIC (H61:G, IT)	
CF3	1-527-968-11	FILTER, CERAMIC	
< TRIMMER >			
CT1	1-141-227-00	CAP, TRIMMER 20PF	(H61:E, AUS, EA, MY, SP, JE)
CT2	1-141-227-00	CAP, TRIMMER 20PF	(H61:E, AUS, EA, MY, SP, JE)
< CONNECTOR >			
CN601	1-537-238-11	TERMINAL BOARD	
* CN602	1-564-510-11	PLUG, CONNECTOR 7P	
* CN603	1-568-454-11	PIN, CONNECTOR (PC BOARD) 9P	
* CN604	1-568-454-11	PIN, CONNECTOR (PC BOARD) 9P	
* CN605	1-573-085-11	CONNECTOR, FPC (NON ZIF) 19P	
* CN606	1-568-824-11	SOCKET, CONNECTOR 5P (H61M:US, CND)	
CN606	1-695-328-11	PIN, CONNECTOR (PC BOARD) 5P	(H61:E, AUS, EA, MY, SP, JE)
* CN607	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
* CN608	1-564-511-11	PLUG, CONNECTOR 8P	
* CN609	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
CN610	1-695-334-11	PIN, CONNECTOR (PC BOARD) 11P	

Ref. No.	Part No.	Description	Remark
* CN611	1-573-048-11	PLUG, CONNECTOR 11P	
* CN612	1-569-155-11	PLUG, CONNECTOR 10P	
< DIODE >			
D1	8-719-976-30	DIODE KV1560N (H61:E, AUS, EA, MY, SP, JE)	
D2	8-719-987-63	DIODE 1N4148M	
D581	8-719-987-63	DIODE 1N4148M (H61:E, AUS, EA, MY, SP, JE)	
D582	8-719-987-63	DIODE 1N4148M (H61:E, AUS, EA, MY, SP, JE)	
D583	8-719-987-63	DIODE 1N4148M (H61:E, AUS, EA, MY, SP, JE)	
D584	8-719-987-63	DIODE 1N4148M	
D586	8-719-987-63	DIODE 1N4148M	
D587	8-719-987-63	DIODE 1N4148M	
D588	8-719-987-63	DIODE 1N4148M	
D601	8-719-987-63	DIODE 1N4148M	
D603	8-719-987-63	DIODE 1N4148M	
D604	8-719-987-63	DIODE 1N4148M	
D605	8-719-987-63	DIODE 1N4148M	
< FRONTEND >			
FE1	1-465-007-11	FRONT END (FM) (4 GANG) (H61:G, IT)	
FE1	1-465-396-11	FRONT END (3 GANG) (H61:EE)	
FE1	1-465-673-11	FRONT END (2BAND)	
(H61:AEP, E, AUS, EA, MY, SP/H61M)			
FE1	1-693-216-11	FRONT END (H61:JE)	
FE2	1-236-463-11	ENCAPSULATED COMPONENT	
(H61:AEP, EE/H61M:AEP, UK)			
FE3	1-239-261-12	ENCAPSULATED COMPONENT	
(H61:AEP, EE/H61M:AEP, UK)			
FE3	1-239-262-11	ENCAPSULATED COMPONENT	
(H61:E, AUS, EA, MY, SP, JE)			
FE3	1-239-260-11	ENCAPSULATED COMPONENT	
(H61:G, IT/H61M:US, CND)			
< FILTER >			
FL1	1-236-465-11	ENCAPSULATED COMPONENT (H61:G, IT)	
FL2	1-239-597-11	FILTER, LOW PASS	
FL3	1-239-597-11	FILTER, LOW PASS	
< IC >			
IC1	8-759-820-91	IC LC7218	
IC2	8-759-090-40	IC LA1831	
IC581	8-759-166-03	IC M50253PK	
IC601	8-759-634-51	IC M5218AP	
(H61:AEP, G, IT, EE/H61M:AEP, UK)			
IC602	8-759-000-48	IC MC14052BCP	
IC603	8-759-000-48	IC MC14052BCP (H61:E, AUS, EA, MY, SP, JE)	
IC604	8-759-000-48	IC MC14052BCP (H61:E, AUS, EA, MY, SP, JE)	
IC605	8-759-634-51	IC M5218AP	
IC606	8-759-634-51	IC M5218AP	
IC607	8-759-155-51	IC CXA1492BQ	
IC609	8-759-821-93	IC LA5601	

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Ref. No.	Part No.	Description	Remark
< IFT >			
IFT1	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)	
< JACK >			
J601	1-569-181-11	JACK, PIN 2P (PHONO) (H61:AEP, G, IT, EE/H61M:AEP, UK)	
J601	1-569-181-11	JACK, PIN 2P (VIDEO/AUX) (H61, E, EA, AUS, MY, SP, JE/H61M:US, CND)	
J602	1-569-181-11	JACK, PIN 2P (SURROUND SPEAKER) (H61:E, AUS, EA, MY, SP, JE)	
< COIL >			
L1	1-408-425-00	INDUCTOR 220uH (H61:AEP, EE/H61M:AEP, UK)	
L3	1-408-399-00	INDUCTOR 1.5uH	
* L600	1-410-858-11	INDUCTOR 0uH (H61:G, IT)	
* L601	1-410-858-11	INDUCTOR 0uH (H61:G, IT)	
< TRANSISTOR >			
Q1	8-729-620-19	TRANSISTOR 2SC2724-CD	
Q2	8-729-620-19	TRANSISTOR 2SC2724-CD (H61:G, IT)	
Q3	8-729-900-61	TRANSISTOR DTA114ES	
Q4	8-729-119-76	TRANSISTOR 2SA1175-HFE (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
Q5	8-729-900-80	TRANSISTOR DTC114ES (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
Q6	8-729-900-80	TRANSISTOR DTC114ES (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
Q7	8-729-900-80	TRANSISTOR DTC114ES (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
Q8	8-729-119-76	TRANSISTOR 2SA1175-HFE (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
Q9	8-729-900-80	TRANSISTOR DTC114ES (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
Q10	8-729-201-83	TRANSISTOR 2SC3112-A	
Q11	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q12	8-729-201-83	TRANSISTOR 2SC3112-A (H61:AEP, EE/H61M:AEP, UK)	
Q13	8-729-202-67	TRANSISTOR 2SK246-GR3 (H61:AEP, EE/H61M:AEP, UK)	
Q14	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q15	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q581	8-729-900-89	TRANSISTOR DTC114ES	
Q582	8-729-900-80	TRANSISTOR DTC114ES	
Q583	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q601	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q603	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q604	8-729-900-63	TRANSISTOR DTA124ES	
Q751	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q752	8-729-620-05	TRANSISTOR 2SC2603-EF	

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R1	1-249-411-11	CARBON 330 5% 1/4W	
R2	1-249-411-11	CARBON 330 5% 1/4W	
R3	1-247-891-00	CARBON 330K 5% 1/4W	
R4	1-249-411-11	CARBON 330 5% 1/4W	
R5	1-247-891-00	CARBON 330K 5% 1/4W (H61:G, IT)	
R6	1-249-411-11	CARBON 330 5% 1/4W (H61:G, IT)	
R7	1-249-405-11	CARBON 100 5% 1/4W	
R8	1-249-433-11	CARBON 22K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R9	1-247-903-00	CARBON 1M 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R10	1-247-903-00	CARBON 1M 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R11	1-249-425-11	CARBON 4.7K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R12	1-249-441-11	CARBON 100K 5% 1/4W	
R13	1-249-437-11	CARBON 47K 5% 1/4W	
R16	1-249-425-11	CARBON 4.7K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R17	1-249-425-11	CARBON 4.7K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R18	1-249-429-11	CARBON 10K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R19	1-249-429-11	CARBON 10K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R20	1-249-429-11	CARBON 10K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)	
R21	1-249-405-11	CARBON 100 5% 1/4W	
R22	1-249-425-11	CARBON 4.7K 5% 1/4W	
R23	1-249-425-11	CARBON 4.7K 5% 1/4W	
R24	1-249-421-11	CARBON 2.2K 5% 1/4W	
R25	1-249-425-11	CARBON 4.7K 5% 1/4W	
R26	1-249-414-11	CARBON 560 5% 1/4W	
R27	1-249-417-11	CARBON 1K 5% 1/4W	
R28	1-249-410-11	CARBON 270 5% 1/4W	
R29	1-249-423-11	CARBON 3.3K 5% 1/4W	
R30	1-249-425-11	CARBON 4.7K 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R31	1-249-425-11	CARBON 4.7K 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R32	1-249-421-11	CARBON 2.2K 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R33	1-249-433-11	CARBON 22K 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R34	1-249-414-11	CARBON 560 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R35	1-249-417-11	CARBON 1K 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R36	1-249-410-11	CARBON 270 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R37	1-249-423-11	CARBON 3.3K 5% 1/4W (H61:AEP, EE/H61M:AEP, UK)	
R38	1-249-401-11	CARBON 47 5% 1/4W	

SEE ADDITIONAL
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MAIN

Ref. No.	Part No.	Description	Remark
R39	1-249-405-11	CARBON	100 5% 1/4W
R40	1-249-429-11	CARBON	10K 5% 1/4W
R41	1-249-417-11	CARBON	1K 5% 1/4W
R42	1-249-417-11	CARBON	1K 5% 1/4W
R43	1-249-417-11	CARBON	1K 5% 1/4W
R44	1-249-417-11	CARBON	1K 5% 1/4W
R45	1-249-417-11	CARBON	1K 5% 1/4W
R46	1-249-425-11	CARBON	4. 7K 5% 1/4W
R47	1-249-417-11	CARBON	1K 5% 1/4W
R48	1-249-399-11	CARBON	33 5% 1/4W
R49	1-249-395-11	CARBON	15 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R50	1-249-425-11	CARBON	4. 7K 5% 1/4W
R51	1-249-412-11	CARBON	390 5% 1/4W
R52	1-249-429-11	CARBON	10K 5% 1/4W
R53	1-247-842-11	CARBON	3K 5% 1/4W
R54	1-249-429-11	CARBON	10K 5% 1/4W
R55	1-249-429-11	CARBON	10K 5% 1/4W
R57	1-249-430-11	CARBON	12K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M)
R58	1-249-430-11	CARBON	12K 5% 1/4W (H61:G, IT)
R59	1-249-425-11	CARBON	4. 7K 5% 1/4W
R60	1-249-425-11	CARBON	4. 7K 5% 1/4W
R61	1-247-891-00	CARBON	330K 5% 1/4W
R62	1-247-891-00	CARBON	330K 5% 1/4W
R63	1-249-412-11	CARBON	390 5% 1/4W
R64	1-249-412-11	CARBON	390 5% 1/4W
R65	1-249-421-11	CARBON	2. 2K 5% 1/4W
R66	1-249-421-11	CARBON	2. 2K 5% 1/4W
R67	1-249-409-11	CARBON	220 5% 1/4W
R68	1-249-405-11	CARBON	100 5% 1/4W
R69	1-249-425-11	CARBON	4. 7K 5% 1/4W
R70	1-249-425-11	CARBON	4. 7K 5% 1/4W
R74	1-249-429-11	CARBON	10K 5% 1/4W
R80	1-249-429-11	CARBON	10K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)
R81	1-249-429-11	CARBON	10K 5% 1/4W (H61:AEP, EE, E, AUS, EA, MY, SP, JE/H61M:AEP, UK)
R90	1-247-839-00	CARBON	2. 2K (H61:AEP, EE, E, AUS, EA, JE)
R581	1-249-425-11	CARBON	4. 7K 5% 1/4W
R582	1-249-425-11	CARBON	4. 7K 5% 1/4W
R583	1-249-429-11	CARBON	10K 5% 1/4W
R584	1-249-429-11	CARBON	10K 5% 1/4W
R585	1-249-429-11	CARBON	10K 5% 1/4W
R601	1-249-417-11	CARBON	1K 5% 1/4W
R602	1-249-417-11	CARBON	1K 5% 1/4W
R603	1-249-417-11	CARBON	1K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R603	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)

Ref. No.	Part No.	Description	Remark
R604	1-249-417-11	CARBON	1K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R604	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
R605	1-249-438-11	CARBON	56K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R606	1-249-438-11	CARBON	56K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R607	1-249-417-11	CARBON	1K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R608	1-249-417-11	CARBON	1K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R609	1-249-437-11	CARBON	47K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R610	1-249-437-11	CARBON	47K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R611	1-247-897-11	CARBON	560K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R612	1-247-897-11	CARBON	560K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R613	1-249-417-11	CARBON	1K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R614	1-249-417-11	CARBON	1K 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R615	1-249-405-11	CARBON	100 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R616	1-249-405-11	CARBON	100 5% 1/4W (H61:AEP, G, IT, EE/H61M:AEP, UK)
R617	1-249-437-11	CARBON	47K 5% 1/4W
R618	1-249-437-11	CARBON	47K 5% 1/4W
R619	1-249-429-11	CARBON	10K 5% 1/4W
R620	1-249-429-11	CARBON	10K 5% 1/4W
R621	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R622	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R627	1-249-437-11	CARBON	47K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R628	1-249-437-11	CARBON	47K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R629	1-249-437-11	CARBON	47K 5% 1/4W
R630	1-249-437-11	CARBON	47K 5% 1/4W
R631	1-249-437-11	CARBON	47K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
R632	1-249-437-11	CARBON	47K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)
R633	1-247-864-11	CARBON	24K 5% 1/4W
R634	1-247-864-11	CARBON	24K 5% 1/4W
R635	1-249-437-11	CARBON	47K 5% 1/4W
R636	1-249-437-11	CARBON	47K 5% 1/4W
R637	1-249-429-11	CARBON	10K 5% 1/4W (H61:E, AUS, EA, MY, SP, JE)
R639	1-249-438-11	CARBON	56K 5% 1/4W
R640	1-249-438-11	CARBON	56K 5% 1/4W
R641	1-249-435-11	CARBON	33K 5% 1/4W
R642	1-249-435-11	CARBON	33K 5% 1/4W
R643	1-249-441-11	CARBON	100K 5% 1/4W

SEE ADDITIONAL
INFORMATION

MAIN

MD(AX)

Ref. No.	Part No.	Description	Remark		
R644	1-249-441-11	CARBON	100K	5%	1/4W
R645	1-249-435-11	CARBON	33K	5%	1/4W
R646	1-249-435-11	CARBON	33K	5%	1/4W
R647	1-249-438-11	CARBON	56K	5%	1/4W
R648	1-249-438-11	CARBON	56K	5%	1/4W
R649	1-249-429-11	CARBON	10K	5%	1/4W
R650	1-249-429-11	CARBON	10K	5%	1/4W
R652	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-441-11	CARBON	100K	5%	1/4W
R701	1-249-435-11	CARBON	33K	5%	1/4W
R702	1-249-435-11	CARBON	33K	5%	1/4W
R703	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-247-903-00	CARBON	1M	5%	1/4W
R706	1-247-903-00	CARBON	1M	5%	1/4W
R707	1-247-903-00	CARBON	1M	5%	1/4W
R708	1-247-903-00	CARBON	1M	5%	1/4W
R709	1-247-903-00	CARBON	1M	5%	1/4W
R710	1-247-903-00	CARBON	1M	5%	1/4W
R711	1-247-903-00	CARBON	1M	5%	1/4W
R712	1-247-903-00	CARBON	1M	5%	1/4W
R713	1-247-903-00	CARBON	1M	5%	1/4W
R714	1-247-903-00	CARBON	1M	5%	1/4W
R715	1-247-903-00	CARBON	1M	5%	1/4W
R716	1-247-903-00	CARBON	1M	5%	1/4W
R717	1-247-903-00	CARBON	1M	5%	1/4W
R718	1-247-903-00	CARBON	1M	5%	1/4W
R719	1-247-903-00	CARBON	1M	5%	1/4W
R720	1-247-903-00	CARBON	1M	5%	1/4W
R721	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-429-11	CARBON	10K	5%	1/4W
R723	1-249-435-11	CARBON	33K	5%	1/4W
R724	1-249-435-11	CARBON	33K	5%	1/4W
R725	1-249-437-11	CARBON	47K	5%	1/4W
R726	1-249-437-11	CARBON	47K	5%	1/4W
R727	1-249-429-11	CARBON	10K	5%	1/4W
R728	1-249-429-11	CARBON	10K	5%	1/4W
R729	1-249-429-11	CARBON	10K	5%	1/4W
R730	1-249-417-11	CARBON	1K	5%	1/4W
R751	1-249-427-11	CARBON	6.8K	5%	1/4W
R752	1-249-427-11	CARBON	6.8K	5%	1/4W
R753	1-249-441-11	CARBON	100K	5%	1/4W
R754	1-249-441-11	CARBON	100K	5%	1/4W
R780	1-249-417-11	CARBON	1K	5%	1/4W
R781	1-249-417-11	CARBON	1K	5%	1/4W
△R782	1-217-637-00	FUSIBLE	1	5%	1/4W F
R783	1-249-393-11	CARBON	10	5%	1/4W
R785	1-247-895-00	CARBON	470K	5%	1/4W
R786	1-247-895-00	CARBON	470K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R787	1-249-425-11	CARBON	4.7K	5%	1/4W
R788	1-249-425-11	CARBON	4.7K	5%	1/4W
R789	1-247-895-00	CARBON	470K	5%	1/4W
R790	1-247-895-00	CARBON	470K	5%	1/4W
R793	1-249-441-11	CARBON	100K	5%	1/4W
		(H61:AEP, G, IT, EE/H61M:AEP, UK)			
R794	1-249-441-11	CARBON	100K	5%	1/4W
		(H61:AEP, G, IT, EE/H61M:AEP, UK)			
< VARIABLE RESISTOR >					
RV1	1-238-601-11	RES, ADJ, CARBON 22K			
< RELAY >					
RY601	1-515-920-11	RELAY (24V)			
< TRANSFORMER >					
T1	1-402-424-11	COIL (ANT, SW3) (H61:E, AUS, EA, MY, SP, JE)			
T2	1-402-960-11	COIL (OSC SW3) (H61:E, AUS, EA, MY, SP, JE)			
< TERMINAL >					
TB1	1-537-238-21	TERMINAL BOARD			
		(H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)			
TB1	1-537-488-11	TERMINAL BOARD (ANT)			
		(H61:AEP, G, IT, EE/H61M:AEP, UK)			
< VIBRATOR >					
X1	1-577-126-21	VIBRATOR, CRYSTAL (7.2MHz)			
X2	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)			
X3	1-579-777-11	DISCRIMINATOR, CERAMIC (10.7MHz)			

*	A-2006-399-A	MD(AX) BOARD, COMPLETE			

< CAPACITOR >					
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C72	1-124-499-11	ELECT, NONPOLAR 1uF		20%	50V

The components identified by
mark △ or dotted line with
mark △ are critical for
safety. Replace only with
part number specified.

Les composants identifiés
par une marque △ sont
critiques pour la sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

SEE ADDITIONAL
INFORMATION

MD(AX)

MD(BX)

Ref.No.	Part No.	Description	Remark
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< CONNECTOR >

* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD	
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P	
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	

< IC >

IC31	8-759-106-02	IC	uPC4570G2
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< JUMPER RESISTOR >

JW1	1-216-295-00	METAL CHIP	0	5%	1/10W
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W

< TRANSISTOR >

Q71	8-729-602-36	TRANSISTOR	2SA1602
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< RESISTOR >

R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W

< VARIABLE RESISTOR >

RV11	1-241-627-11	RES, ADJ, CARBON 1K
RV21	1-241-627-11	RES, ADJ, CARBON 1K
RV71	1-241-630-11	RES, ADJ, CARBON 10K
RV72	1-241-630-11	RES, ADJ, CARBON 10K

* A-2006-400-A MD(BX) BOARD, COMPLETE

< CAPACITOR >

C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V

Ref.No.	Part No.	Description	Remark
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C14	1-136-273-00	FILM	75PF 5% 630V
C15	1-164-080-11	CERAMIC	390PF 10% 50V

C17	1-163-103-00	CERAMIC CHIP	27PF 5% 50V
C18	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C21	1-163-131-00	CERAMIC CHIP	390PF 5% 50V
C22	1-136-157-00	FILM	0.022uF 5% 50V
C23	1-124-234-00	ELECT	22uF 20% 16V

C24	1-136-273-00	FILM	75PF 5% 630V
C25	1-164-080-11	CERAMIC	390PF 10% 50V
C27	1-163-103-00	CERAMIC CHIP	27PF 5% 50V
C28	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
C31	1-124-234-00	ELECT	22uF 20% 16V

C32	1-124-234-00	ELECT	22uF 20% 16V
C33	1-124-234-00	ELECT	22uF 20% 16V
C51	1-163-019-00	CERAMIC CHIP	0.0068uF 10% 50V
C52	1-163-019-00	CERAMIC CHIP	0.0068uF 10% 50V
C53	1-163-022-00	CERAMIC CHIP	0.012uF 10% 50V

C54	1-136-559-11	FILM	0.0047uF 5% 630V
C56	1-164-505-11	CERAMIC CHIP	2.2uF 16V
C57	1-164-346-11	CERAMIC CHIP	1uF 16V
C58	1-163-024-00	CERAMIC CHIP	0.018uF 10% 50V
C72	1-124-499-11	ELECT, NONPOLAR	1uF 20% 50V

< CONNECTOR >

* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD
* CNJ33	1-580-782-11	CONNECTOR, BOARD TO BOARD
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P

< DIODE >

D31	8-719-016-74	DIODE	1SS352
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< IC >

IC31	8-759-106-02	IC	uPC4570G2
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< JUMPER RESISTOR >

JW1	1-216-296-00	METAL CHIP	0	5%	1/8W
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W
JW3	1-216-295-00	METAL CHIP	0	5%	1/10W
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W
JW6	1-216-295-00	METAL CHIP	0	5%	1/10W

JW7	1-216-295-00	METAL CHIP	0	5%	1/10W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
JW55	1-216-296-00	METAL CHIP	0	5%	1/8W

JW56	1-216-296-00	METAL CHIP	0	5%	1/8W
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SEE ADDITIONAL
INFORMATION

MD(BX)

POWER AMP

Ref. No.	Part No.	Description	Remark		
JW57	1-216-296-00	METAL CHIP	0	5%	1/8W
JW58	1-216-296-00	METAL CHIP	0	5%	1/8W
JW59	1-216-296-00	METAL CHIP	0	5%	1/8W
JW60	1-216-296-00	METAL CHIP	0	5%	1/8W
JW61	1-216-296-00	METAL CHIP	0	5%	1/8W
< COIL >					
L11	1-410-780-11	INDUCTOR	27mH		
L21	1-410-780-11	INDUCTOR	27mH		
< TRANSISTOR >					
Q51	8-729-808-01	TRANSISTOR	2SD1622-S		
Q52	8-729-808-01	TRANSISTOR	2SD1622-S		
Q53	8-729-808-01	TRANSISTOR	2SD1622-S		
Q71	8-729-602-36	TRANSISTOR	2SA1602		
< RESISTOR >					
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
△R15	1-249-430-11	CARBON	12K	5%	1/4W F
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
△R25	1-249-430-11	CARBON	12K	5%	1/4W F
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
△R41	1-249-393-11	CARBON	10	5%	1/4W F
△R42	1-249-393-11	CARBON	10	5%	1/4W F
R51	1-216-075-00	METAL CHIP	12K	5%	1/10W
R52	1-216-075-00	METAL CHIP	12K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R56	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
< VARIABLE RESISTOR >					
RV11	1-241-627-11	RES, ADJ, CARBON 1K			
RV12	1-238-551-11	RES, ADJ, CARBON 220K			
RV21	1-241-627-11	RES, ADJ, CARBON 1K			
RV22	1-238-551-11	RES, ADJ, CARBON 220K			
RV71	1-241-630-11	RES, ADJ, CARBON 10K			

Ref. No.	Part No.	Description	Remark		
RV72	1-241-630-11	RES, ADJ, CARBON 10K			
< RELAY >					
RY31	1-515-913-11	RELAY			
< TRANSFORMER >					
T51	1-406-419-11	COIL, BIAS OSCILLATION			

*	A-4356-574-A	POWER AMP BOARD, COMPLETE (G, IT)			
*	A-4356-577-A	POWER AMP BOARD, COMPLETE (E)			
*	A-4365-376-A	POWER AMP BOARD, COMPLETE (UK)			
*	A-4365-377-A	POWER AMP BOARD, COMPLETE (US, CND)			
*	A-4365-378-A	POWER AMP BOARD, COMPLETE (AEP, EE, MY, SP)			
*	A-4365-379-A	POWER AMP BOARD, COMPLETE (AUS, EA, JE)			

< CAPACITOR >					
C800	1-124-903-11	ELECT	1uF	20%	50V
C801	1-124-903-11	ELECT	1uF	20%	50V
C802	1-162-290-31	CERAMIC	470PF	10%	50V
C803	1-162-290-31	CERAMIC	470PF	10%	50V
C804	1-162-282-31	CERAMIC	100PF	10%	50V
C805	1-162-282-31	CERAMIC	100PF	10%	50V
C806	1-124-910-11	ELECT	47uF	20%	50V
C807	1-124-910-11	ELECT	47uF	20%	50V
C808	1-124-910-11	ELECT	47uF	20%	50V
C809	1-124-910-11	ELECT	47uF	20%	50V
C810	1-164-159-11	CERAMIC	0.1uF		50V
C811	1-164-159-11	CERAMIC	0.1uF		50V
C812	1-164-159-11	CERAMIC	0.1uF		50V
C813	1-164-159-11	CERAMIC	0.1uF		50V
C821	1-136-161-00	FILM	0.047uF	5%	50V
C822	1-124-917-11	ELECT	33uF	20%	63V
C823	1-124-917-11	ELECT	33uF	20%	63V
C851	1-124-907-11	ELECT	10uF	20%	50V
C852	1-124-925-11	ELECT	2.2uF	20%	100V
C853	1-124-907-11	ELECT	10uF	20%	50V
C854	1-126-176-11	ELECT	220uF	20%	10V
C901	1-126-224-11	ELECT	4700uF	20%	42V
C902	1-126-224-11	ELECT	4700uF	20%	42V
C903	1-164-159-11	CERAMIC	0.1uF		50V
C904	1-164-159-11	CERAMIC	0.1uF		50V
C905	1-124-902-00	ELECT	0.47uF	20%	50V
C906	1-128-547-51	ELECT	6800uF	20%	16V
C907	1-124-898-11	ELECT	4700uF	20%	16V
C908	1-124-925-11	ELECT	2.2uF	20%	100V
C909	1-124-925-11	ELECT	2.2uF	20%	100V
C910	1-124-927-11	ELECT	4.7uF	20%	100V
C911	1-124-925-11	ELECT	2.2uF	20%	100V
C912	1-124-472-11	ELECT	470uF	20%	10V

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SEE ADDITIONAL
INFORMATION

REVISED

POWER AMP

Ref. No.	Part No.	Description	Remark
C913	1-124-472-11	ELECT 470uF	20% 10V
C914	1-124-907-11	ELECT 10uF	20% 50V
C915	1-124-477-11	ELECT 47uF	20% 25V
C916	1-124-907-11	ELECT 10uF	20% 50V
C917	1-124-477-11	ELECT 47uF	20% 25V
C918	1-161-379-00	CERAMIC 0.01uF	20% 25V
C919	1-164-097-11	CERAMIC 0.022uF	50V
C920	1-162-294-31	CERAMIC 0.001uF	10% 50V
C921	1-124-925-11	ELECT 2.2uF	20% 100V

< CONNECTOR >

* CN801	1-750-532-11	CONNECTOR (B TO B) 6P
* CN802	1-564-510-11	PLUG, CONNECTOR 7P
* CN803	1-564-511-11	PLUG, CONNECTOR 8P
* CN804	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P

< DIODE >

D801	8-719-987-63	DIODE 1N4148M
D851	8-719-987-63	DIODE 1N4148M
D901	8-719-987-63	DIODE 1N4148M
D902	8-719-987-63	DIODE 1N4148M
D903	8-719-200-82	DIODE 11ES2
D904	8-719-200-82	DIODE 11ES2
D905	8-719-200-82	DIODE 11ES2
D906	8-719-200-82	DIODE 11ES2
D907	8-719-001-67	DIODE UZL-12L3
D908	8-719-933-41	DIODE HZS6C3L
D909	8-719-987-63	DIODE 1N4148M
D910	8-719-987-63	DIODE 1N4148M
D911	8-719-933-33	DIODE HZS6A1L

< IC >

IC801	8-749-920-09	IC STK4152MK2K
IC802	8-759-111-68	IC uPC1237HA
IC901	8-759-602-66	IC M5230L-A

< TRANSISTOR >

Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA
Q802	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA
Q850	8-729-900-63	TRANSISTOR DTA124ES
Q901	8-729-900-80	TRANSISTOR DTC114ES
Q902	8-729-900-89	TRANSISTOR DTC144ES
Q903	8-729-209-15	TRANSISTOR 2SD2012
Q904	8-729-141-83	TRANSISTOR 2SA473
Q905	8-729-900-89	TRANSISTOR DTC144ES
Q906	8-729-900-65	TRANSISTOR DTA144ES
Q907	8-729-018-60	TRANSISTOR 2SD2012-LC
Q908	8-729-018-60	TRANSISTOR 2SD2012-LC

Ref. No.	Part No.	Description	Remark
Q909	8-729-900-80	TRANSISTOR DTC114ES	
Q910	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q911	8-729-119-76	TRANSISTOR 2SA1175-HFE	

< RESISTOR >

△R677	1-212-996-00	FUSIBLE 390 5%	1/2W F
R800	1-249-438-11	CARBON 56K 5%	1/4W
R801	1-249-438-11	CARBON 56K 5%	1/4W
R802	1-249-414-11	CARBON 560 5%	1/4W
R803	1-249-414-11	CARBON 560 5%	1/4W
R804	1-249-438-11	CARBON 56K 5%	1/4W
R805	1-249-438-11	CARBON 56K 5%	1/4W
R806	1-249-421-11	CARBON 2.2K 5%	1/4W
R807	1-249-421-11	CARBON 2.2K 5%	1/4W
R808	1-247-717-11	CARBON 2.2K 5%	1/4W
R809	1-247-717-11	CARBON 2.2K 5%	1/4W
R810	1-249-417-11	CARBON 1K 5%	1/4W
R811	1-249-417-11	CARBON 1K 5%	1/4W
R812	1-249-431-11	CARBON 15K 5%	1/4W
R813	1-249-431-11	CARBON 15K 5%	1/4W
R814	1-249-441-11	CARBON 100K 5%	1/4W
R815	1-249-441-11	CARBON 100K 5%	1/4W
△R816	1-217-151-00	RES, METAL PLATE 0.22	
△R817	1-217-151-00	RES, METAL PLATE 0.22	
R818	1-247-688-11	CARBON 10 5%	1/4W
R819	1-247-688-11	CARBON 10 5%	1/4W
R820	1-249-438-11	CARBON 56K 5%	1/4W
R821	1-249-437-11	CARBON 47K 5%	1/4W
△R831	1-212-881-11	FUSIBLE 100 5%	1/4W F
△R832	1-212-881-11	FUSIBLE 100 5%	1/4W F
R851	1-249-430-11	CARBON 12K 5%	1/4W
R852	1-249-439-11	CARBON 68K 5%	1/4W
R853	1-249-433-11	CARBON 22K 5%	1/4W
R854	1-249-429-11	CARBON 10K 5%	1/4W
R855	1-249-433-11	CARBON 22K 5%	1/4W
R856	1-249-441-11	CARBON 100K 5%	1/4W
R903	1-249-417-11	CARBON 1K 5%	1/4W
R904	1-249-429-11	CARBON 10K 5%	1/4W
R905	1-247-903-00	CARBON 1M 5%	1/4W
R906	1-249-409-11	CARBON 220 5%	1/4W
R907	1-249-409-11	CARBON 220 5%	1/4W
R908	1-249-414-11	CARBON 560 5%	1/4W
R909	1-249-414-11	CARBON 560 5%	1/4W
R910	1-249-431-11	CARBON 15K 5%	1/4W
R911	1-249-431-11	CARBON 15K 5%	1/4W
R912	1-249-429-11	CARBON 10K 5%	1/4W
R913	1-249-423-11	CARBON 3.3K 5%	1/4W
△R914	1-219-193-11	FUSIBLE 220 5%	1/2W F
R915	1-249-420-11	CARBON 1.8K 5%	1/4W

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INFORMATION

POWER AMP

POWER SUPPLY

SW(A)

SW(B)

Ref. No.	Part No.	Description	Remark			
△R916	1-217-642-91	FUSIBLE	6.8	5%	1/4W	F
R917	1-249-413-11	CARBON	470	5%	1/4W	
R918	1-249-417-11	CARBON	1K	5%	1/4W	
R919	1-249-417-11	CARBON	1K	5%	1/4W	
R920	1-249-425-11	CARBON	4.7K	5%	1/4W	
R921	1-249-417-11	CARBON	1K	5%	1/4W	

*	1-646-898-11	POWER SUPPLY BOARD				

		< CAPACITOR >				
C921	1-164-159-11	CERAMIC	0.1uF			50V
C922	1-164-159-11	CERAMIC	0.1uF			50V
C923	1-124-910-11	ELECT	47uF		20%	50V
C924	1-124-910-11	ELECT	47uF		20%	50V
		< CONNECTOR >				
* CN911	1-564-321-00	PIN, CONNECTOR 2P				
* CN912	1-750-533-11	CONNECTOR (B TO B) 6P				
* CN913	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
		< DIODE >				
D911	8-719-312-09	DIODE RBA-402				
D912	8-719-934-13	DIODE HZS24-1L				
		< FUSE >				
△F901	1-532-203-00	FUSE (T2A/250V)	(E, EA, JE)			
△F901	1-532-215-00	FUSE (T0.8A/250V)	(AEP, UK, G, IT, EE, AUS)			
△F901	1-532-259-00	FUSE (T1.6A/250V)	(MY, SP)			
△F901	1-576-104-11	FUSE (2A/250V)	(US, CND)			
△F902	1-532-078-00	FUSE (T1A/250V)	(E, EA, JE)			
△F902	1-532-215-00	FUSE (T0.8A/250V)	(MY, SP)			
		< FUSE HOLDER >				
* FH911	1-533-213-31	HOLDER, FUSE (H61:E, EA, MY, SP, JE)				
* FH911	1-533-293-11	HOLDER, FUSE (H61:AEP, G, IT, EE, AUS/H61M)				
* FH912	1-533-213-31	HOLDER, FUSE (H61:E, EA, MY, SP, JE)				
* FH912	1-533-293-11	HOLDER, FUSE (H61:AEP, G, IT, EE, AUS/H61M)				
* FH913	1-533-213-31	HOLDER, FUSE (H61:E, EA, MY, SP, JE)				
* FH914	1-533-213-31	HOLDER, FUSE (H61:E, EA, MY, SP, JE)				
		< TRANSISTOR >				
Q911	8-729-018-59	TRANSISTOR 2SB1375-LC				
		< RESISTOR >				
△R921	1-219-119-81	FUSIBLE	0.1	5%	1/4W	F
△R922	1-219-119-81	FUSIBLE	0.1	5%	1/4W	F
R923	1-249-421-11	CARBON	2.2K	5%	1/4W	
△F926	1-212-881-11	FUSIBLE	100	5%	1/4W	F

Ref. No.	Part No.	Description	Remark		
R9001	1-202-725-00	SOLID	3.3M	10%	1/2W (H61M:US, CND)
< SWITCH >					
S901	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (H61:E, EA, MY, SP, JE)			
< TRANSFORMER >					
△T901	1-423-447-11	TRANSFORMER, POWER (H61M:US, CND)			
△T901	1-423-448-11	TRANSFORMER, POWER (H61:AUS/H61M:UK)			
△T901	1-423-450-11	TRANSFORMER, POWER (H61:AEP, G, IT, EE/H61M:AEP)			
△T901	1-423-451-11	TRANSFORMER, POWER (H61:E, EA, MY, SP, JE)			

*	1-634-841-14	SW(A) BOARD *****			
3-343-419-01 HOLDER (S SENSER A)					
< CONNECTOR >					
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P			
< IC >					
IC81	8-719-710-03	DI ODE	NJL5165K-B		
< RESISTOR >					
R84	1-249-417-11	CARBON	1K	5%	1/4W
R85	1-249-408-11	CARBON	180	5%	1/4W
< SWITCH >					
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (SPOP)			
S82	1-571-281-21	SWITCH, LEAF (CrO2)			
S86	1-571-281-21	SWITCH, LEAF (HALF)			

*	1-634-841-14	SW(B) BOARD *****			
3-343-419-01 HOLDER (S SENSER A)					
< CONNECTOR >					
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P			
< IC >					
IC81	8-719-710-03	DI ODE	NJL5165K-B		
< RESISTOR >					
R81	1-249-414-11	CARBON	560	5%	1/4W F

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INFORMATION

SW(B)

SWITCH

Ref. No.	Part No.	Description	Remark
R82	1-247-818-11	CARBON 300 5% 1/4W	
R83	1-247-834-11	CARBON 1.3K 5% 1/4W	
R84	1-249-417-11	CARBON 1K 5% 1/4W F	
R85	1-249-408-11	CARBON 180 5% 1/4W F	

< SWITCH >

S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
S82	1-571-281-21	SWITCH, LEAF (CrO2)	
S83	1-571-281-21	SWITCH, LEAF (METAL)	
S84	1-571-281-21	SWITCH, LEAF (ERASE PROOF (DECK A))	
S85	1-571-281-21	SWITCH, LEAF (ERASE PROOF (DECK B))	
S86	1-571-281-21	SWITCH, LEAF (HALF)	

- * A-4356-584-A SWITCH BOARD, COMPLETE (EXCEPT UK)
 * A-4365-426-A SWITCH BOARD, COMPLETE (UK)

< CONNECTOR >

- * CN551 1-568-858-11 SOCKET, CONNECTOR 15P

< DIODE >

D551	8-719-032-90	LED SEL5420S (< DECK A)	
D552	8-719-032-90	LED SEL5420S (> DECK A)	
D553	8-719-032-82	LED SEL5220S (HIGH SPEED DUBBING)	
D555	8-719-032-82	LED SEL5220S (CD SYNCHRO)	
D556	8-719-033-06	LED SEL5920A (II)	
D557	8-719-032-90	LED SEL5420S (< DECK B)	
D558	8-719-032-90	LED SEL5420S (> DECK B)	
D559	8-719-032-82	LED SEL5220S (● REC)	

< RESISTOR >

R551	1-249-407-11	CARBON 150 5% 1/4W	
R552	1-249-409-11	CARBON 220 5% 1/4W	
R553	1-249-411-11	CARBON 330 5% 1/4W	
R554	1-249-413-11	CARBON 470 5% 1/4W	
R555	1-249-415-11	CARBON 680 5% 1/4W	
R556	1-249-417-11	CARBON 1K 5% 1/4W	
R557	1-249-420-11	CARBON 1.8K 5% 1/4W	
R558	1-249-424-11	CARBON 3.9K 5% 1/4W	
R559	1-249-407-11	CARBON 150 5% 1/4W	
R560	1-249-409-11	CARBON 220 5% 1/4W	
R561	1-249-411-11	CARBON 330 5% 1/4W	
R562	1-249-413-11	CARBON 470 5% 1/4W	
R563	1-249-415-11	CARBON 680 5% 1/4W	
R564	1-249-417-11	CARBON 1K 5% 1/4W	
R565	1-249-426-11	CARBON 5.6K 5% 1/4W	
R566	1-249-430-11	CARBON 12K 5% 1/4W	
R574	1-249-405-11	CARBON 100 5% 1/4W	
R575	1-249-406-11	CARBON 120 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R576	1-249-406-11	CARBON 120 5% 1/4W	
R577	1-249-407-11	CARBON 150 5% 1/4W	
R578	1-249-408-11	CARBON 180 5% 1/4W	
R579	1-249-409-11	CARBON 220 5% 1/4W	
R580	1-249-410-11	CARBON 270 5% 1/4W	
R581	1-249-411-11	CARBON 330 5% 1/4W	
R582	1-249-413-11	CARBON 470 5% 1/4W	
R583	1-249-414-11	CARBON 560 5% 1/4W	
R584	1-249-416-11	CARBON 820 5% 1/4W	
R585	1-249-418-11	CARBON 1.2K 5% 1/4W	
R586	1-249-421-11	CARBON 2.2K 5% 1/4W	

< SWITCH >

S551	1-572-184-11	SWITCH, KEYBOARD (■ DECK A)	
S552	1-572-184-11	SWITCH, KEYBOARD (> DECK A)	
S553	1-572-184-11	SWITCH, KEYBOARD (< DECK A)	
S554	1-572-184-11	SWITCH, KEYBOARD (◀ DECK B)	
S555	1-572-184-11	SWITCH, KEYBOARD (▶ DECK B)	
S556	1-572-184-11	SWITCH, KEYBOARD (● DECK B)	
S557	1-572-184-11	SWITCH, KEYBOARD (HIGH SPEED DUBBING)	
S559	1-572-184-11	SWITCH, KEYBOARD (CD SYNCHRO)	
S560	1-572-184-11	SWITCH, KEYBOARD (■ DECK B)	
S561	1-572-184-11	SWITCH, KEYBOARD (II DECK B)	
S562	1-572-184-11	SWITCH, KEYBOARD (> DECK B)	
S563	1-572-184-11	SWITCH, KEYBOARD (< DECK B)	
S564	1-572-184-11	SWITCH, KEYBOARD (◀ DECK A)	
S565	1-572-184-11	SWITCH, KEYBOARD (▶ DECK A)	
S566	1-572-378-11	SWITCH, SLIDE (DIRECTION)	
S567	1-572-184-11	SWITCH, KEYBOARD (⊆ OPEN/CLOSE)	
S568	1-572-184-11	SWITCH, KEYBOARD (■ CD)	
S569	1-572-184-11	SWITCH, KEYBOARD (II CD)	
S570	1-572-184-11	SWITCH, KEYBOARD (> CD)	
S571	1-572-184-11	SWITCH, KEYBOARD (◀/▶ CD)	
S572	1-572-184-11	SWITCH, KEYBOARD (▶/▶ CD)	
S573	1-572-184-11	SWITCH, KEYBOARD (TIME)	
S574	1-572-184-11	SWITCH, KEYBOARD (REPEAT)	
S575	1-572-184-11	SWITCH, KEYBOARD (PROGRAM)	
S576	1-572-184-11	SWITCH, KEYBOARD (SHUFFLE)	
S577	1-572-184-11	SWITCH, KEYBOARD (CONTINUE)	
S578	1-572-184-11	SWITCH, KEYBOARD (EDIT)	
S579	1-572-184-11	SWITCH, KEYBOARD (CLEAR)	
S580	1-572-184-11	SWITCH, KEYBOARD (CHECK)	
S587	1-572-935-11	SWITCH, SLIDE (DOLBY NR)	

REVISED

SEE ADDITIONAL
INFORMATION

TC

Ref. No.	Part No.	Description	Remark
*	A-4356-582-A	TC BOARD, COMPLETE (G, IT)	
*	A-4356-583-A	TC BOARD, COMPLETE (US, CND, E, AUS, EA, MY,	
*	A-4356-586-A	TC BOARD, COMPLETE (AEP, EE)	SP, JE)
*	A-4365-425-A	TC BOARD, COMPLETE (UK)	

< CAPACITOR >

C121	1-124-443-00	ELECT	100uF	20%	10V
C122	1-161-377-00	CERAMIC	0.0047uF	30%	16V
C123	1-124-903-11	ELECT	1uF	20%	50V
C125	1-124-907-11	ELECT	10uF	20%	50V
C126	1-136-165-00	FILM	0.1uF	5%	50V
C127	1-124-907-11	ELECT	10uF	20%	50V
C128	1-124-903-11	ELECT	1uF	20%	50V
C129	1-124-902-00	ELECT	0.47uF	20%	50V
C130	1-124-907-11	ELECT	10uF	20%	50V
C131	1-164-159-11	CERAMIC	0.1uF		50V
C132	1-124-907-11	ELECT	10uF	20%	50V
C134	1-162-294-31	CERAMIC	0.001uF	10%	50V
C221	1-124-443-00	ELECT	100uF	20%	10V
C222	1-161-377-00	CERAMIC	0.0047uF	30%	16V
C223	1-124-903-11	ELECT	1uF	20%	50V
C225	1-124-907-11	ELECT	10uF	20%	50V
C226	1-136-165-00	FILM	0.1uF	5%	50V
C227	1-124-907-11	ELECT	10uF	20%	50V
C228	1-124-903-11	ELECT	1uF	20%	50V
C229	1-124-902-00	ELECT	0.47uF	20%	50V
C230	1-124-907-11	ELECT	10uF	20%	50V
C231	1-161-377-00	CERAMIC	0.0047uF	30%	16V
C232	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C233	1-124-902-00	ELECT	0.47uF	20%	50V
C234	1-162-294-31	CERAMIC	0.001uF	10%	50V
C401	1-124-126-00	ELECT	47uF	20%	10V
C402	1-124-126-00	ELECT	47uF	20%	10V
C403	1-164-159-11	CERAMIC	0.1uF		50V
C404	1-124-903-11	ELECT	1uF	20%	50V
C405	1-126-101-11	ELECT	100uF	20%	16V
C406	1-126-101-11	ELECT	100uF	20%	16V
C451	1-126-101-11	ELECT	100uF	20%	16V
C452	1-126-101-11	ELECT	100uF	20%	16V
C453	1-161-379-00	CERAMIC	0.01uF	20%	25V
C454	1-161-379-00	CERAMIC	0.01uF	20%	25V
C456	1-162-290-31	CERAMIC	470PF	10%	50V
C457	1-162-290-31	CERAMIC	470PF	10%	50V
C458	1-164-159-11	CERAMIC	0.1uF		50V
C459	1-164-159-11	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
* CN401	1-564-517-11	PLUG, CONNECTOR 2P	
CN402	1-580-783-11	CONNECTOR, BOARD TO BOARD (H61:AEP, G, IT, EE/H61M:AEP, UK)	
* CN402	1-580-783-21	CONNECTOR, BOARD TO BOARD (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)	
CN403	1-580-783-11	CONNECTOR, BOARD TO BOARD (H61:AEP, G, IT, EE/H61M:AEP, UK)	
* CN403	1-580-783-21	CONNECTOR, BOARD TO BOARD (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)	
CN404	1-580-783-11	CONNECTOR, BOARD TO BOARD (H61:AEP, G, IT, EE/H61M:AEP, UK)	
* CN404	1-580-783-21	CONNECTOR, BOARD TO BOARD (H61:E, AUS, EA, MY, SP, JE/H61M:US, CND)	
CN405	1-573-101-11	SOCKET, CONNECTOR 9P	
CN406	1-573-101-11	SOCKET, CONNECTOR 9P	
* CN407	1-565-980-11	HOUSING, CONNECTOR(PC BOARD) 9P	
* CN408	1-565-980-11	HOUSING, CONNECTOR(PC BOARD) 9P	
* CN409	1-568-848-11	SOCKET, CONNECTOR 5P	
* CN410	1-568-858-11	SOCKET, CONNECTOR 15P	
* CN411	1-564-520-11	PLUG, CONNECTOR 5P	

< DIODE >

D301	8-719-200-82	DIODE	11ES2
D302	8-719-200-82	DIODE	11ES2
D351	8-719-987-63	DIODE	1N4148M
D402	8-719-987-63	DIODE	1N4148M
D403	8-719-987-63	DIODE	1N4148M

< IC >

IC401	8-759-166-04	IC	M50964-260FPK
IC402	8-759-520-90	IC	PST572E
IC403	8-759-098-75	IC	HA12171NT
IC404	8-759-207-05	IC	TA7272P

< COIL >

L401	1-410-482-31	INDUCTOR	100uH
L402	1-410-482-31	INDUCTOR	100uH

< TRANSISTOR >

Q101	8-729-620-05	TRANSISTOR	2SC2603-EF
Q201	8-729-620-05	TRANSISTOR	2SC2603-EF
Q305	8-729-900-80	TRANSISTOR	DTC114ES
Q306	8-729-620-05	TRANSISTOR	2SC2603-EF
Q400	8-729-900-61	TRANSISTOR	DTA114ES
Q401	8-729-900-65	TRANSISTOR	DTA144ES
Q402	8-729-900-65	TRANSISTOR	DTA144ES
Q403	8-729-900-65	TRANSISTOR	DTA144ES
Q404	8-729-900-65	TRANSISTOR	DTA144ES
Q405	8-729-900-65	TRANSISTOR	DTA144ES

SEE ADDITIONAL
INFORMATION

TC

Ref. No.	Part No.	Description	Remark
Q407	8-729-900-89	TRANSISTOR DTC144ES	
Q408	8-729-900-65	TRANSISTOR DTA144ES	
Q411	8-729-801-84	TRANSISTOR 2SB1013-4	
Q412	8-729-801-84	TRANSISTOR 2SB1013-4	
Q413	8-729-900-65	TRANSISTOR DTA144ES	
Q414	8-729-900-89	TRANSISTOR DTC144ES	
Q415	8-729-620-05	TRANSISTOR 2SC2603-EF	
< RESISTOR >			
R121	1-249-430-11	CARBON 12K 5% 1/4W	
R122	1-249-431-11	CARBON 15K 5% 1/4W	
R123	1-215-451-00	METAL 18K 1% 1/6W	
R124	1-249-429-11	CARBON 10K 5% 1/4W	
R125	1-249-429-11	CARBON 10K 5% 1/4W	
R127	1-249-429-11	CARBON 10K 5% 1/4W	
R130	1-249-429-11	CARBON 10K 5% 1/4W	
R131	1-249-425-11	CARBON 4.7K 5% 1/4W	
R132	1-249-429-11	CARBON 10K 5% 1/4W	
R133	1-249-429-11	CARBON 10K 5% 1/4W	
R135	1-247-864-11	CARBON 24K 5% 1/4W	
R137	1-249-426-11	CARBON 5.6K 5% 1/4W	
R141	1-249-421-11	CARBON 2.2K 5% 1/4W	
R142	1-247-838-00	CARBON 2K 5% 1/4W	
R143	1-247-846-11	CARBON 4.3K 5% 1/4W	
R144	1-249-433-11	CARBON 22K 5% 1/4W	
R145	1-249-425-11	CARBON 4.7K 5% 1/4W	
R221	1-249-430-11	CARBON 12K 5% 1/4W	
R222	1-249-431-11	CARBON 15K 5% 1/4W	
R223	1-249-426-11	CARBON 5.6K 5% 1/4W	
R224	1-249-429-11	CARBON 10K 5% 1/4W	
R225	1-249-441-11	CARBON 100K 5% 1/4W	
R226	1-247-864-11	CARBON 24K 5% 1/4W	
R227	1-249-429-11	CARBON 10K 5% 1/4W	
R229	1-249-429-11	CARBON 10K 5% 1/4W	
R230	1-249-432-11	CARBON 18K 5% 1/4W	
R231	1-247-885-00	CARBON 180K 5% 1/4W	
R241	1-249-421-11	CARBON 2.2K 5% 1/4W	
R242	1-247-838-00	CARBON 2K 5% 1/4W	
R243	1-247-846-11	CARBON 4.3K 5% 1/4W	
R244	1-249-433-11	CARBON 22K 5% 1/4W	
R245	1-249-425-11	CARBON 4.7K 5% 1/4W	
△R301	1-249-456-11	CARBON 5.6 5% 1/4W F	
R351	1-249-429-11	CARBON 10K 5% 1/4W	
R401	1-249-429-11	CARBON 10K 5% 1/4W	
R402	1-247-903-00	CARBON 1M 5% 1/4W	
R403	1-247-895-00	CARBON 470K 5% 1/4W	
R404	1-247-895-00	CARBON 470K 5% 1/4W	
R405	1-249-410-11	CARBON 270 5% 1/4W	
R406	1-249-410-11	CARBON 270 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R408	1-249-410-11	CARBON 270 5% 1/4W	
R409	1-249-410-11	CARBON 270 5% 1/4W	
R411	1-249-407-11	CARBON 150 5% 1/4W	
R412	1-249-411-11	CARBON 330 5% 1/4W	
R413	1-249-421-11	CARBON 2.2K 5% 1/4W	
R414	1-249-421-11	CARBON 2.2K 5% 1/4W	
R415	1-249-429-11	CARBON 10K 5% 1/4W	
R416	1-249-425-11	CARBON 4.7K 5% 1/4W	
R417	1-249-441-11	CARBON 100K 5% 1/4W	
R419	1-249-417-11	CARBON 1K 5% 1/4W	
R420	1-249-429-11	CARBON 10K 5% 1/4W	
R421	1-249-425-11	CARBON 4.7K 5% 1/4W	
R422	1-249-429-11	CARBON 10K 5% 1/4W	
R431	1-249-429-11	CARBON 10K 5% 1/4W	
R432	1-249-415-11	CARBON 680 5% 1/4W	
R433	1-249-429-11	CARBON 10K 5% 1/4W	
R434	1-249-415-11	CARBON 680 5% 1/4W	
R451	1-249-425-11	CARBON 4.7K 5% 1/4W	
R452	1-249-435-11	CARBON 33K 5% 1/4W	
R453	1-249-437-11	CARBON 47K 5% 1/4W	
R454	1-247-872-11	CARBON 51K 5% 1/4W	
R455	1-247-862-11	CARBON 20K 5% 1/4W	
R456	1-247-866-11	CARBON 30K 5% 1/4W	
R457	1-247-872-11	CARBON 51K 5% 1/4W	
R458	1-249-405-11	CARBON 100 5% 1/4W	
R459	1-249-381-11	CARBON 1 5% 1/4W	
R460	1-249-381-11	CARBON 1 5% 1/4W	
R461	1-249-425-11	CARBON 4.7K 5% 1/4W	
R462	1-249-435-11	CARBON 33K 5% 1/4W	
R463	1-249-437-11	CARBON 47K 5% 1/4W	
R464	1-247-872-11	CARBON 51K 5% 1/4W	
R465	1-247-862-11	CARBON 20K 5% 1/4W	
R466	1-247-866-11	CARBON 30K 5% 1/4W	
R467	1-247-872-11	CARBON 51K 5% 1/4W	
R468	1-249-405-11	CARBON 100 5% 1/4W	
R469	1-249-381-11	CARBON 1 5% 1/4W	
R470	1-249-381-11	CARBON 1 5% 1/4W	
R471	1-249-425-11	CARBON 4.7K 5% 1/4W	
R472	1-249-434-11	CARBON 27K 5% 1/4W	
R473	1-249-425-11	CARBON 4.7K 5% 1/4W	
R474	1-249-429-11	CARBON 10K 5% 1/4W	
R475	1-249-434-11	CARBON 27K 5% 1/4W	
R476	1-249-429-11	CARBON 10K 5% 1/4W	
R477	1-249-410-11	CARBON 270 5% 1/4W	
R478	1-249-410-11	CARBON 270 5% 1/4W	

< VARIABLE RESISTOR >

RV103 1-241-136-11 RES, ADJ, CARBON 10K
 RV203 1-241-136-11 RES, ADJ, CARBON 10K

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SEE ADDITIONAL
INFORMATION

TC

VOL

Ref. No.	Part No.	Description	Remark			
< VIBRATOR >						
X401	1-577-082-11	VIBRATOR, CERAMIC (4MHz)				

*	1-646-894-11	VOL BOARD				

< CAPACITOR >						
C200	1-126-924-11	ELECT	330uF	20%	10V	
C201	1-124-907-11	ELECT	10uF	20%	50V	
C202	1-124-907-11	ELECT	10uF	20%	50V	
< CONNECTOR >						
* CN201	1-566-972-11	PIN, CONNECTOR (PC BOARD) 7P				
< IC >						
IC200	8-759-820-62	IC LB1639				
< RESISTOR >						
R200	1-249-417-11	CARBON	1K	5%	1/4W	
R201	1-249-417-11	CARBON	1K	5%	1/4W	
R202	1-249-429-11	CARBON	10K	5%	1/4W	
< VARIABLE RESISTOR >						
RV200	1-223-301-11	RES, VAR, CARBON(WITH MOTOR) 10K (VOLUME)				

MISCELLANEOUS						

9	1-501-594-21	ANTENNA (FM) (G, IT)				
56	1-696-922-11	WIRE (FLAT TYPE) (15 CORE)				
57	1-696-923-11	WIRE (FLAT TYPE) (5 OCRE)				
58	1-696-924-11	WIRE (FLAT TYPE) (5 CORE) (US, CND)				
60	1-696-920-11	WIRE (FLAT TYPE) (11 CORE)				
65	1-690-588-31	WIRE, FLAT TYPE (9 CORE)				
68	1-696-921-11	WIRE (FLAT TYPE) (19 CORE)				
73	1-696-919-11	WIRE (FLAT TYPE) (5 CORE)				
(E, AUS, EA, MY, SP, JE)						
167	1-638-983-11	PC BOARD, MOTOR FLEXIBLE				
268	1-590-530-11	WIRE, FLAT TYPE				
△304	8-848-144-11	DEVICE, OPTICAL KSS-240A				
305	1-575-001-11	WIRE, FLAT TYPE (12 CORE)				
ANT1	1-501-321-51	ANTENNA, TELESCOPIC (H61)				
△F901	1-532-203-00	FUSE (T2A/250V) (E, EA, JE)				
△F901	1-532-215-00	FUSE (T0. 8A/250V) (AEP, UK, G, IT, EE, AUS)				
△F901	1-532-259-00	FUSE (T1. 6A/250V) (MY, SP)				
△F901	1-576-104-11	FUSE (2A/250V) (US, CND)				
△F902	1-532-078-00	FUSE (T1A/250V) (E, EA, JE)				
△F902	1-532-215-00	FUSE (T0. 8A/250V) (MY, SP)				
HP101	A-2003-837-F	BASE ASSY, HEAD (DECK A)				
HRP101	A-2003-838-A	BASE ASSY, HEAD (DECK B)				
△75	1-569-007-11	ADAPTER, CONVERSION 2P (E, JE)				
△75	1-569-008-11	ADAPTER, CONVERSION 2P (EA, MY, SP)				
△CNP901	1-574-902-11	CORD, POWER (E, JE)				
△CNP901	1-575-975-11	CORD, POWER (US, CND)				
△CNP901	1-590-083-11	CORD, POWER (AUS)				
△CNP901	1-696-169-11	CORD, POWER (AEP, G, IT, EE, EA, MY, SP)				
△CNP901	1-696-570-21	CORD, POWER (UK)				

Ref. No.	Part No.	Description	Remark
IC81A	8-719-710-03	DIODE NJL5165K-B (DECK A)	
IC81B	8-719-710-03	DIODE NJL5165K-B (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY (REEL) (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY (REEL) (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK B)	
M291	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
M301	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M302	X-4917-504-1	MOTOR ASSY (SLED)	
△T901	1-423-447-11	TRANSFORMER, POWER (US, CND)	
△T901	1-423-448-11	TRANSFORMER, POWER (AUS, UK)	
△T901	1-423-450-11	TRANSFORMER, POWER (AEP, G, IT, EE)	
△T901	1-423-451-11	TRANSFORMER, POWER (E, EA, MY, SP, JE)	

ACCESSORIES & PACKING MATERIALS

1-466-944-11	REMOTE COMMANDER (RM-S61)	
1-501-374-11	ANTENNA, LOOP	(UK)
1-501-594-11	ANTENNA, (FM)	(UK)
3-756-249-21	MANUAL, INSTRUCTION(ENGLISH) (UK)	
4-941-762-11	COVER (MLY), BATTERY (FOR RM-S61)	
* 4-956-936-01	CUSHION (LOWER)	
* 4-956-937-01	CUSHION (UPPER)	

HARDWARE LIST

#1	7-685-871-01	SCREW +BVTT 3X6 (S)
#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#4	7-682-548-04	SCREW +BVTT 3X8 (S)
#5	7-621-255-15	SCREW +PTT 2X3 (S)
#6	7-621-770-67	SCREW +PTT 2. 6X6 (S)
#7	7-627-556-08	SCREW +P 2. 6X2. 8
#8	7-621-775-00	SCREW +B 2. 6X3
#9	7-685-234-19	SCREW +KTP 2. 6X8 TYPE2NON-SLIT
#10	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#11	7-624-105-04	STOP RING 2. 3, TYPE -E
#12	7-621-775-10	SCREW +B 2. 6X4
#13	7-682-550-09	SCREW +B 3X12 (H61)
#14	7-685-649-79	SCREW +BVTP 3X14 TYPE2 N-S (H61)
#15	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3

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