

TC-WE675

SERVICE MANUAL

Ver 1.4 2002.11

*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model*



Dolby noise reduction extension manufactured under license from Dolby Laboratories Licensing Corporation.
HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	TC-WE635
Transport Mechanism Type	TCM-230ASR41B

SPECIFICATIONS

System

Fast-winding time

Approx. 100 sec. (with Sony C-60 cassette)

Signal-to-noise ratio (at peak level and weighted with Dolby NR off)

55 dB, using Sony TYPE I cassette

57 dB, using Sony TYPE II cassette

58 dB, using Sony TYPE IV cassette

S/N ratio improvement

With Dolby B NR on:

Approx. 5 dB at 1 kHz, 10 dB at 5 kHz

With Dolby C NR on:

Approx. 15 dB at 500 Hz, 20 dB at 1 kHz

Harmonic distortion

0.4% (using Sony TYPE I cassette):

160 nWb/m 315 Hz, 3rd H.D.)

1.8% (using Sony TYPE IV cassette):

250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (DOLBY NR OFF)

30-16,000 Hz (± 3 dB, IEC), 20-17,000 Hz

(± 6 dB), using Sony TYPE I cassette

30-17,000 Hz (± 3 dB, IEC), 20-18,000 Hz

(± 6 dB), using Sony TYPE II cassette

30-19,000 Hz (± 3 dB, IEC), 20-20,000 Hz

(± 6 dB), 30-13,000 Hz (± 3 dB, -4dB recording),

using Sony TYPE IV cassette

Wow and flutter

$\pm 0.13\%$ W. Peak (IEC)

0.1% W. RMS (NAB)

$\pm 0.2\%$ W. Peak (DIN)

Variable pitch range

Approx. -30 to +30 %

Inputs

Line inputs (phono jacks)

sensitivity 0.16 V, input impedance 47 kilohms

Outputs

Line outputs (phono jacks)

rated output level 0.5 V at a load impedance of

47 kilohms, load impedance over 10 kilohms

Headphones (stereo phone jack)

output level 0.25 mW at a load impedance of

32 ohms

— Continued on next page —

STEREO CASSETTE DECK

9-873-894-15

2002K0200-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SONY®

General

Power requirements

U.S.A. and Canadian models:

120 V AC, 60Hz

European models:

230 V AC, 50/60Hz

Australian models:

240 V AC, 50/60Hz

Other models:

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

Adjustable with voltage selector

Power consumption

22 watts

Dimensions (w/h/d)

Approx. 430 × 120 × 300 mm

Mass

4.2 kg

Supplied accessories

Audio connecting cords (2)

Control A1II cable (1)*

*Supplied for Canadian models only

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

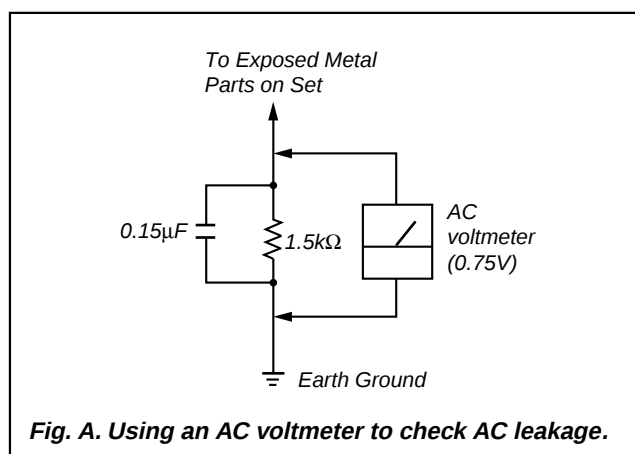


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

–Back panel–



PARTS No.	MODEL
4-232-414-0□	US model
4-232-414-1□	CND model
4-232-414-2□	AEP model
4-232-414-3□	UK model
4-232-414-4□	SP model
4-232-414-5□	AUS model

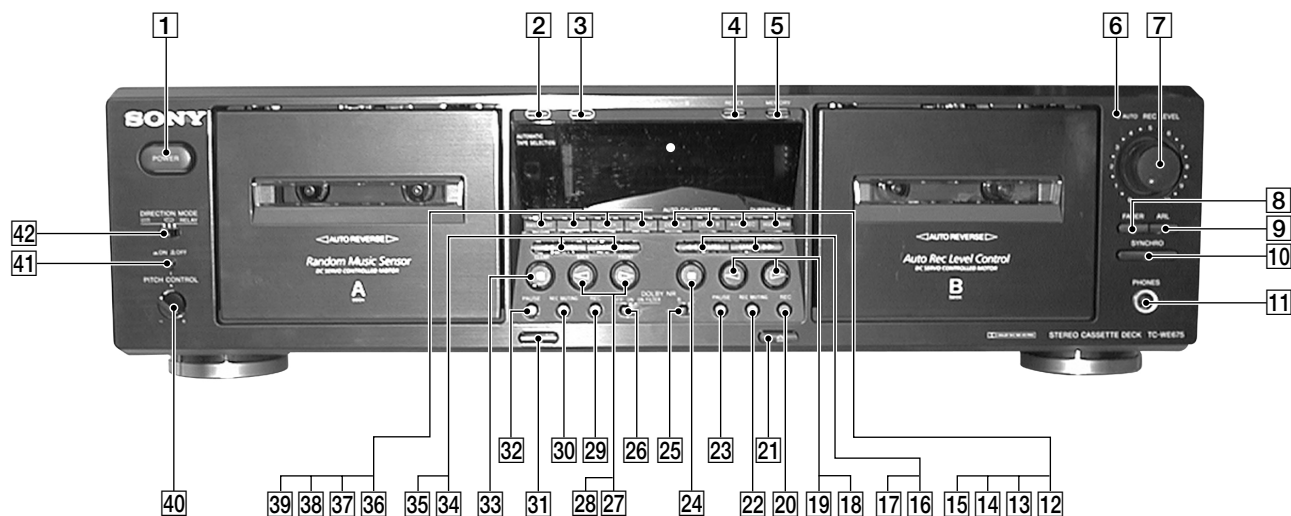
- Abbreviation
CND : Canadian model
SP : Singapore model
AUS : Australian model

TABLE OF CONTENTS

1. GENERAL	4
2. DISASSEMBLY	
2-1. Case	5
2-2. Front Panel Assy	5
2-3. Cassette Lid Assy (Deck A/B)	6
2-4. Mechanism Deck Assy (Deck A/B)	6
3. SERVICE MODE	7
4. MECHANICAL ADJUSTMENTS	8
5. ELECTRICAL ADJUSTMENTS	8
6. DIAGRAMS	
6-1. Circuit Boards Location	12
6-2. Printed Wiring Board – MAIN Section –	14
6-3. Schematic Diagram – MAIN (1/4) Section –	15
6-4. Schematic Diagram – MAIN (2/4) Section –	16
6-5. Schematic Diagram – MAIN (3/4) Section –	17
6-6. Schematic Diagram – MAIN (4/4) Section –	18
6-7. Printed Wiring Board – DECK Section –	19
6-8. Schematic Diagram – DECK Section –	19
6-9. Schematic Diagram – LEAF SW Section –	20
6-10. Printed Wiring Board – LEAF SW Section –	21
6-11. Schematic Diagram – PANEL Section –	22
6-12. Printed Wiring Board – PANEL Section –	23
6-13. Schematic Diagram – POWER Section –	24
6-14. Printed Wiring Board – POWER Section –	25
6-15. IC PIN FUNCTION	26
7. EXPLODED VIEWS	
7-1. Case Section	27
7-2. Chassis Section	28
7-3. Cassette Holder Section	29
7-4. Front Panel Section	30
7-5. Tape Mechanism Section	31
8. ELECTRICAL PARTS LIST	32

SECTION 1 GENERAL

Front Panel



Location of Parts and Controls

- | | |
|-------------------------------------|---|
| 1 POWER button | 22 REC MUTING ○ (Deck B) button |
| 2 RESET (Deck A) button | 23 PAUSE (Deck B) button |
| 3 MEMORY (Deck A) button | 24 ■ (Deck B) button |
| 4 RESET (Deck B) button | 25 DOLBY NR B/C switch |
| 5 MEMORY (Deck B) button | 26 DOLBY NR OFF/ON FILTER |
| 6 AUTO REC LEVEL indicator | 27 >/FRONT (Deck A) button |
| 7 REC LEVEL knob | 28 </BACK (Deck A) button |
| 8 FADER button | 29 REC ● (Deck A) button |
| 9 ARL button | 30 REC MUTING ○ (Deck A) button |
| 10 SYNCHRO button | 31 ≡ (Eject) (Deck A) button |
| 11 PHONES jack | 32 PAUSE (Deck A) button |
| 12 HIGH/NOMAL button | 33 ■/CLEAR (Deck A) button |
| 13 A+B REC button | 34 (AMS) >>> (Deck A) button RMS + |
| 14 DECK B button | 35 <<< (AMS) (Deck A) button RMS - |
| 15 DECK A button | 36 DISPLAY button |
| 16 (AMS) >>> (Deck B) button | 37 CHECK button |
| 17 <<< (AMS) (Deck B) button | 38 SET button |
| 18 > (Deck B) button | 39 RMS/START button |
| 19 < (Deck B) button | 40 PITCH CONTROL knob |
| 20 REC ● (Deck B) button | 41 PITCH CONTROL button |
| 21 ≡ (Eject) (Deck B) button | 42 DIRECTION switch |

- AMS is the abbreviation for Automatic Music Sensor.

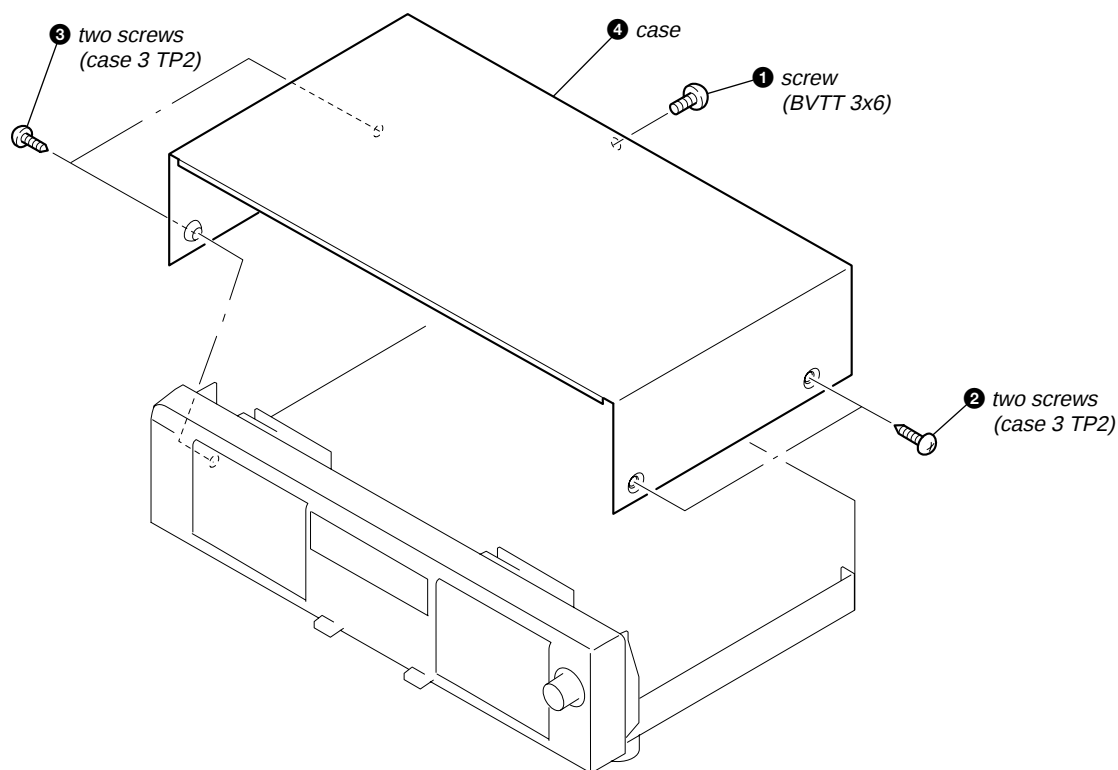
SECTION 2 DISASSEMBLY

- The equipment can be removed using the following procedure.

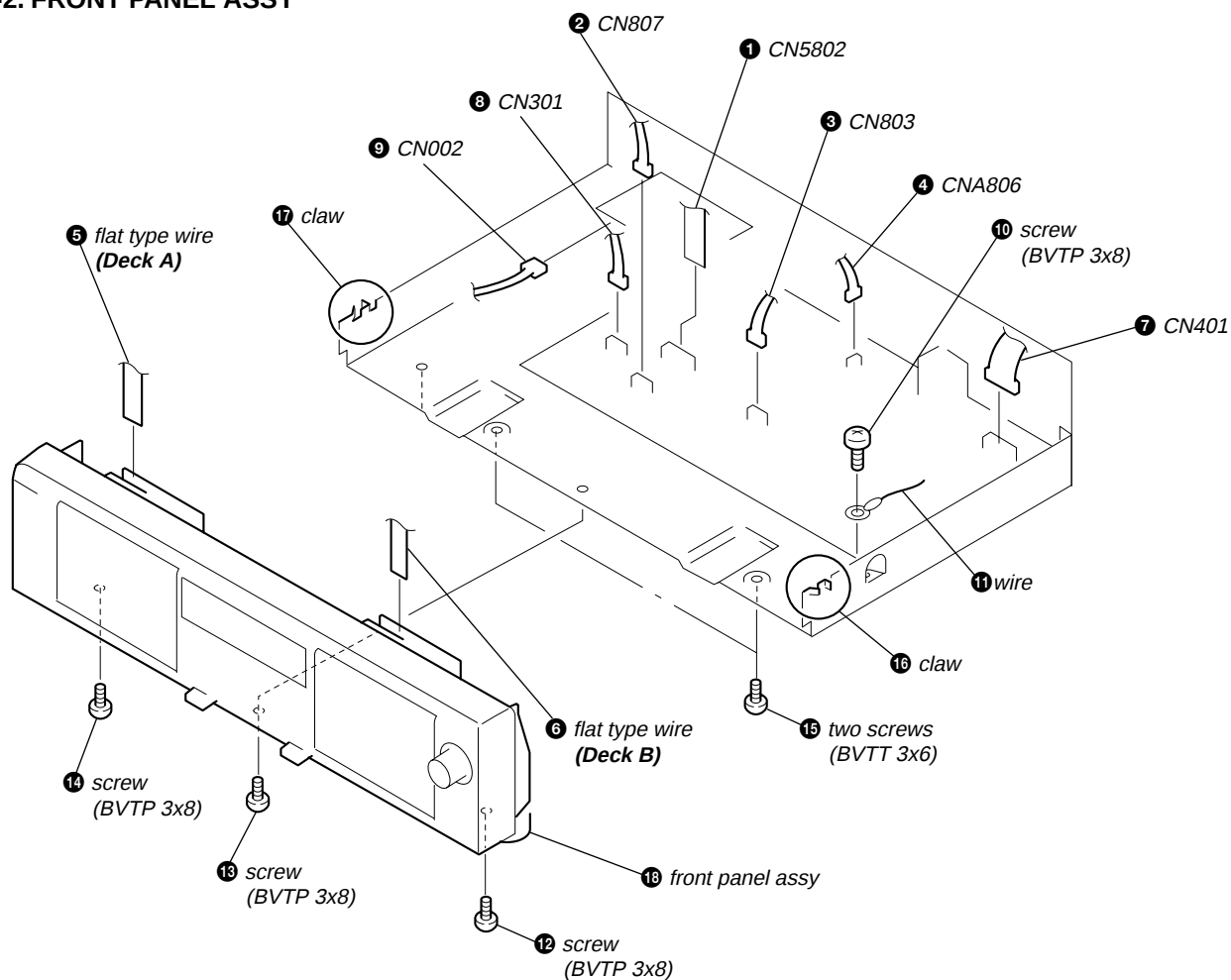
Set → Case → Front Panel Assy → Cassette Lid Assy (Deck A/B) → Mechanism Deck Assy (Deck A/B)

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

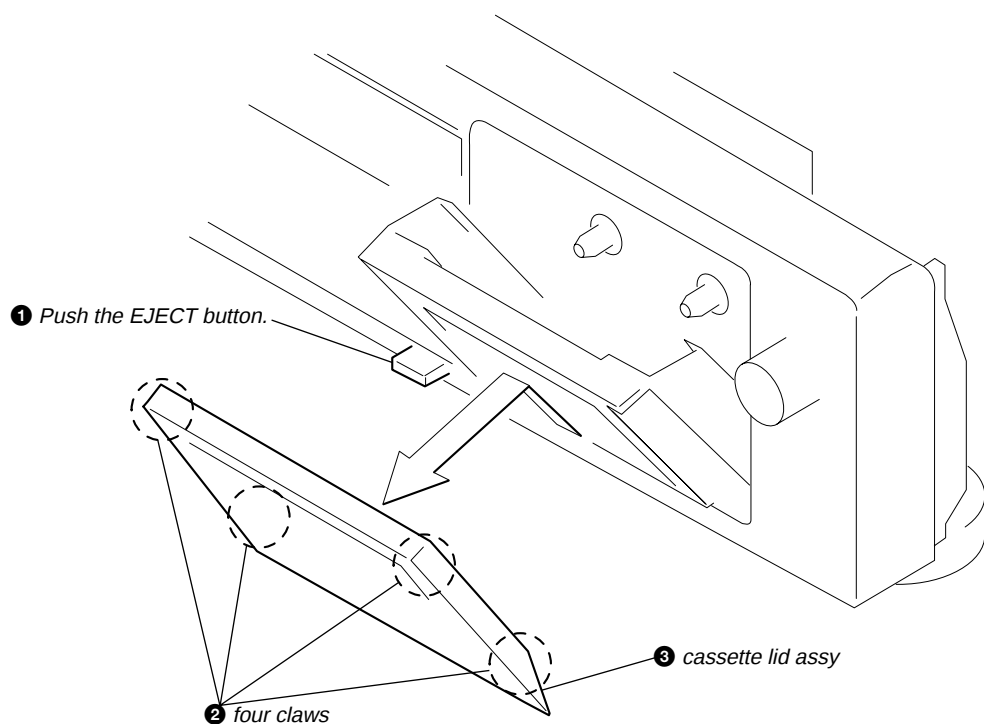
2-1. CASE



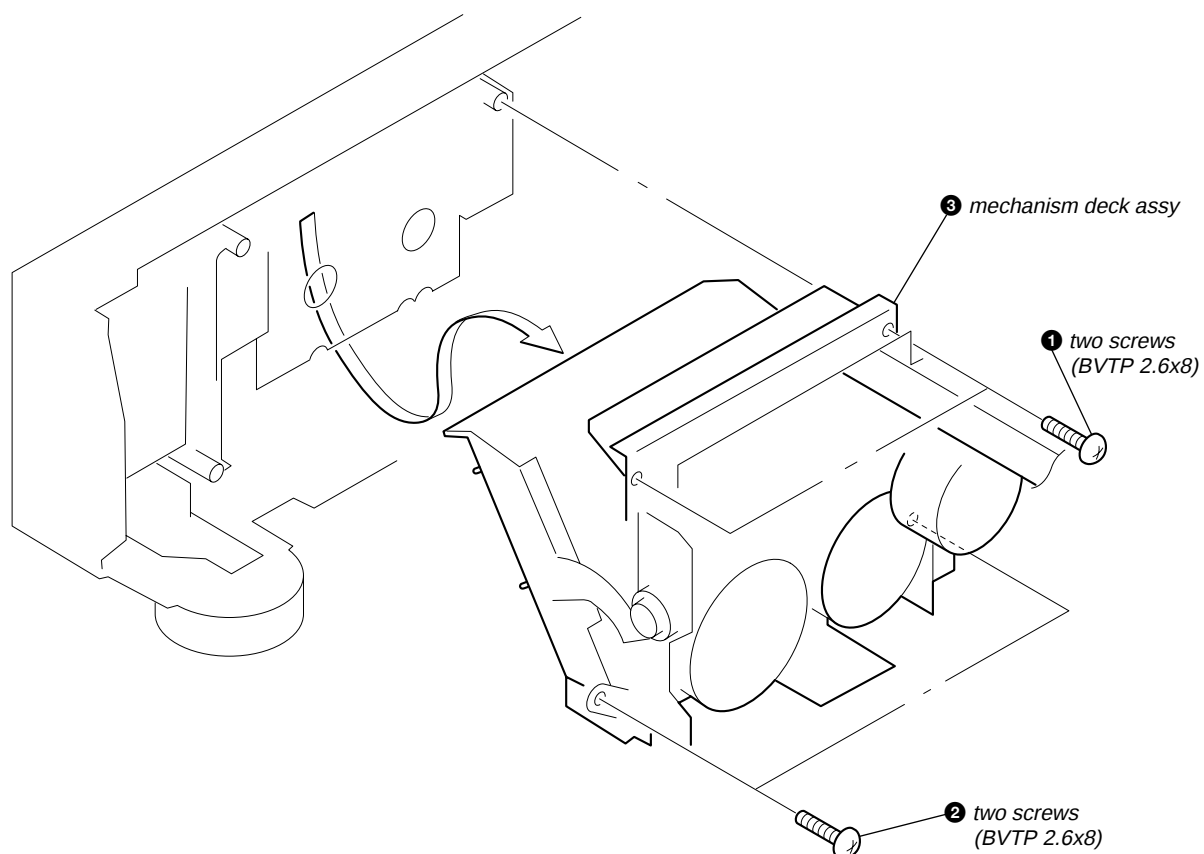
2-2. FRONT PANEL ASSY



2-3. CASSETTE LID ASSY (DECK A/B)



2-4. MECHANISM DECK ASSY (DECK A/B)



SECTION 3
SERVICE MODE

KEY CHECK & DISPLAY CHECK MODE

While pressing the /BACK (A deck) and (B deck) buttons with the power off, press the button to turn on the power.

The fluorescent display tube displays the number or special message corresponding to the button pressed.

The message displayed differs according to the position of the switch.

A deck side		B deck side	
Button	Display	Button	Display
RESET	0	RESET	0
MEMORY	1	MEMORY	1
RMS/START	2	DECK A	2
SET	3	DECK B	3
CHECK	4	A+B REC	4
DISPLAY	5	HIGH/NOMAL	5
(AMS)	6	(AMS)	6
(AMS)	7	(AMS)	7
	Grid check display (*1)		Segment check display (*2)
/BACK	8		8
/FRONT	9		9
PAUSE	A	PAUSE	A
REC MUTING	b	REC MUTING	b
REC	C	REC	C
DIRECTION MODE switch RELAY	 PLAY 	FADER	d
		ARL	E
		SYNCHRO	All lit
		DOLBY NR switch (*3) OFF B C	 PLAY

(*3) The DOLBY NR switch consists of a pair of switches.
B and C are valid only in the ON or ON FILTER state.

Grit check display (*1)



Segment check display (*2)



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

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

record/playback/erase head	pinch roller
rubber belts	capstan
idlers	
- 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 adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

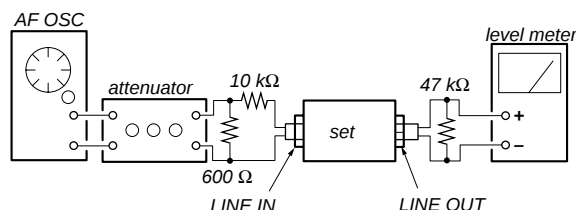
Mode	Torque meter	Meter reading
Forward	CQ-102C	30 to 65 g • cm (0.42 to 0.90 oz • inch)
Forward back tension	CQ-102C	DECK A : 1 to 6 g • cm (0.014 to 0.083 oz • inch) DECK B : 2 to 9 g • cm (0.028 to 0.125 oz • inch)
Reverse	CQ-102RC	30 to 65 g • cm (0.42 to 0.90 oz • inch)
Reverse back tension	CQ-102RC	1 to 6 g • cm (0.014 to 0.083 oz • inch)
FF/REW	CQ-201B	70 to 120 g • cm (0.97 to 1.67 oz • inch)

SECTION 5 ELECTRICAL ADJUSTMENTS

PRECAUTION

- The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
- The adjustments and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch : OFF
DIRECTION MODE switch : $\rightleftarrows$
 - Standard record position :
Deliver the standard input signal level to input jack and set the **REC LEVEL** knob to obtain the standard output signal level as follows.

– Record Mode –



Standard Input Level

Input terminal	LINE IN
source impedance	10 kΩ
input signal level	0.5 V (–3.8 dBs)

Standard Output Level

Input terminal	LINE IN
source impedance	10 kΩ
input signal level	0.5 V (–3.8 dBs)

Test Tape

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

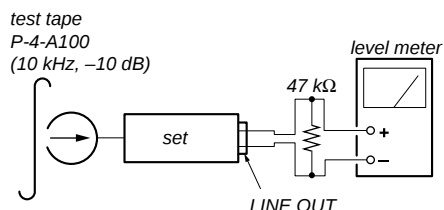
0 dBs = 0.775 V

Test Mode

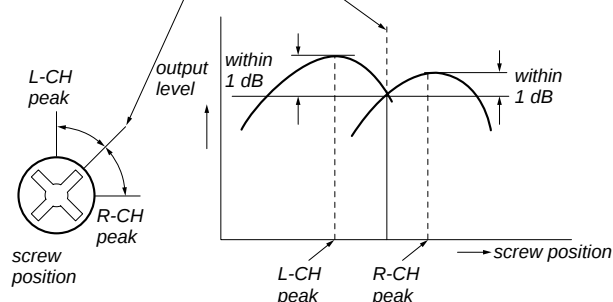
- While pressing the **▷/FRONT (DECK A)** and **REC MUTING ○** buttons with the power off, press the **⓪** button to turn on the power. The fluorescent display tube lights up for about one second, and the test mode is set. The test mode performs the following two special functions.
 - Playback speed switching function
Pressing the **HIGH/NORMAL** button switches the playback speed between standard/double speed.
 - Counter RESET & MEMORY function
Resets the counter when recording starts. When rewind with the **◀◀ (AMS)** button after recording, stops at the point where recording started.
- To release the test mode, turn OFF the power switch.

Record/Playback Head Azimuth Adjustment**DECK A** **DECK B****Procedure:**

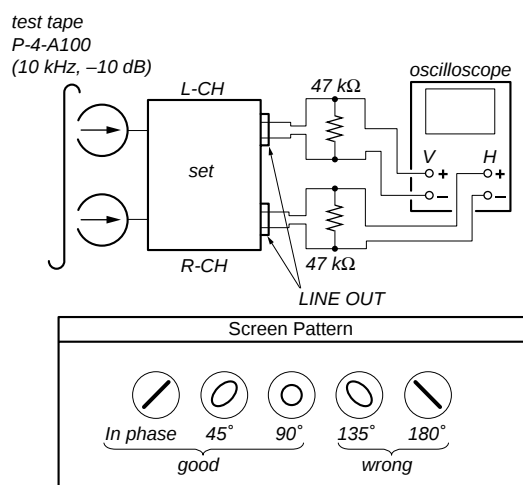
1. Forward Playback Mode



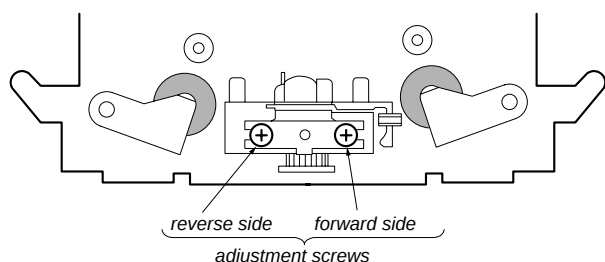
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



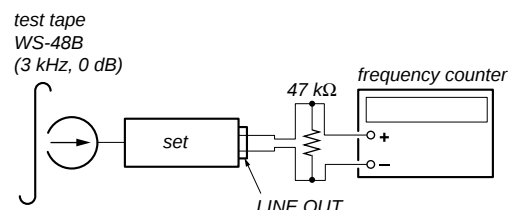
3. Playback Mode



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

Adjustment Location: – record/playback head –**Tape speed Adjustment****DECK A** **DECK B****Adjust DECK A first****Procedure:**

– Forward Playback Mode –



(High speed adjustment)

1. Press the **PITCH CONTROL** button to set to **OFF**.
2. Set to test mode. (Refer to page 11.)
3. Press the **▷** button to playback.
4. Press the **HIGH/NORMAL** button to playback at double speed.
5. Adjust RV316 (DECK A), RV416 (DECK B) so that the frequency counter reading becomes $5,980 \pm 80$ Hz.

(Normal speed adjustment)

6. Press the **▷** button to playback.
7. Press the **HIGH/NORMAL** button to playback at normal speed.
8. Adjust RV317 (DECK A), RV417 (DECK B) so that the frequency counter reading becomes $3,000 \pm 90$ Hz.

(Pitch control adjustment) (DECK A)

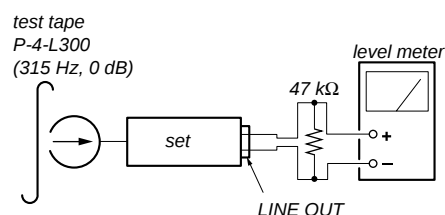
9. Press the **PITCH CONTROL** button to set to **ON**.
10. Set **PITCH CONTROL** knob to mechanical center.
11. Press the **▷** button to playback.
12. Adjust RV318 so that the frequency counter reading becomes $2,990 \pm 90$ Hz.

Adjustment Location: MAIN board (See page 14.)**Sample value of wow and flutter**

W.RMS (JIS) less than 0.3% .
(test tape : WS-48B)

Playback Level Adjustment**DECK A** **DECK B****Procedure:**

– Forward Playback Mode –



Adjust DECK A : RV111 (L-CH), RV211 (R-CH) and
DECK B : RV121 (L-CH), RV221 (R-CH) so the level meter reading becomes the adjustment limits below.

Adjustment Value:

LINE OUT level : $-7.7 \text{ dBs} \pm 0.5 \text{ dB}$ (0.301 to 0.338 V)

Level difference between channels : within 0.5 dB

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

Adjustment Location: MAIN board (See page 14.)

Bias Consumption Current Adjustment

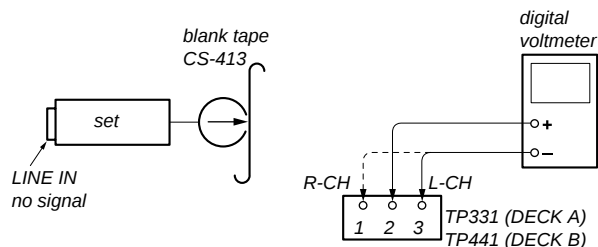
DECK A **DECK B**

This adjustment should be performed when replacing the head assy or the bias oscillator transformer (T131, T231),(T141, T241).

Setting:

REC LEVEL knob : standard recording position (See page 11.)

Procedure:



1. Connect the digital voltmeter to test point TP331 (DECK A) and TP441 (DECK B).
2. Set DECK A: RV131 (L-CH), RV231 (R-CH) and DECK B: RV141 (L-CH), RV241 (R-CH) to mechanical center.
3. Press the button to playback.
4. Adjust DECK A: T131 (L-CH), T231 (R-CH) and DECK B: T141 (L-CH), T241 (R-CH) so that the digital voltmeter reading becomes minimum.

Adjustment Value: Maximum 220 mV

Adjustment Location: MAIN board (See page 14.)

Record Bias Adjustment

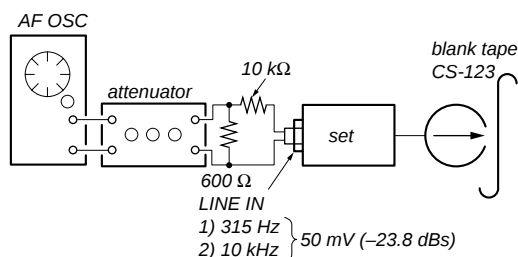
DECK A **DECK B**

Setting:

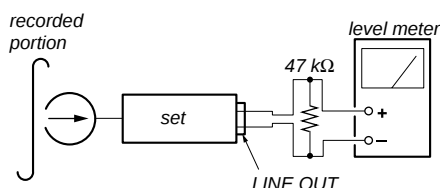
REC LEVEL knob : standard record position (See page 11.)

Procedure:

1. Set to test mode (See page 11.)
2. Insert a tape into deck B, press the button and then press the button to start recording.



3. Record Mode



4. Playback Mode
5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If the selevls do not adjustment level, adjust DECK A: RV131 (L-CH), RV231 (R-CH) and DECK B: RV141 (L-CH), RV241 (R-CH) to repeat steps 3 and 4.

Adjustment level:

The palyback output of 10 kHz level difference against 315 Hz reference should be ± 0.5 dB.

Adjustment Location: MAIN board (See page 14.)

Record Level Adjustment

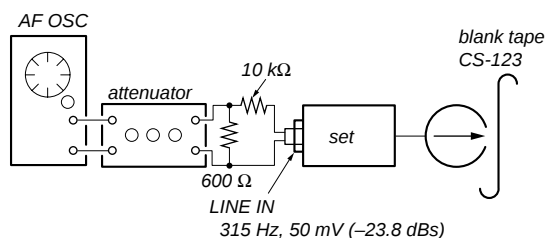
DECK A **DECK B**

Setting:

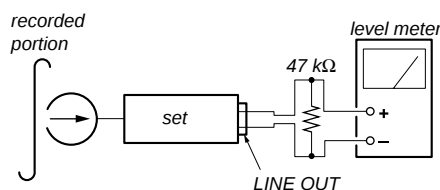
REC LEVEL knob : standard record position (See page 11.)

Procedure:

1. Set to test mode (See page 11.)
2. Insert a tspe into deck B, press the button and then press the button to start recording.
3. Record Mode



4. Playback Mode



5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If the selevls do not adjustment level, adjust the DECK A: RV102 (L-CH), RV202 (R-CH) and DECK B: RV101 (L-CH), RV201 (R-CH) to repeat steps 3 and 4.

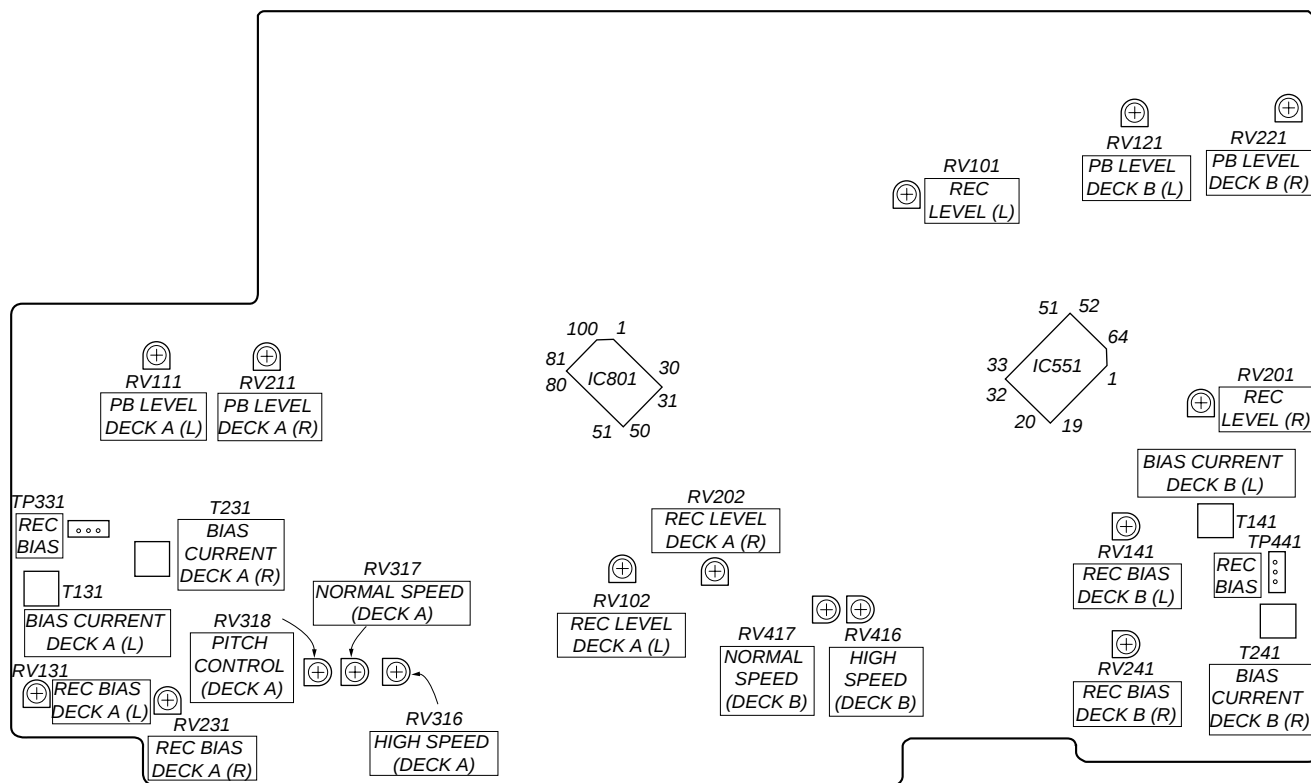
Adjustment Value:

LINE OUT level : -23.8 dBs ± 0.5 dB (47.2 to 53.0 mV)

Adjustment Location: MAIN board (See page 14.)

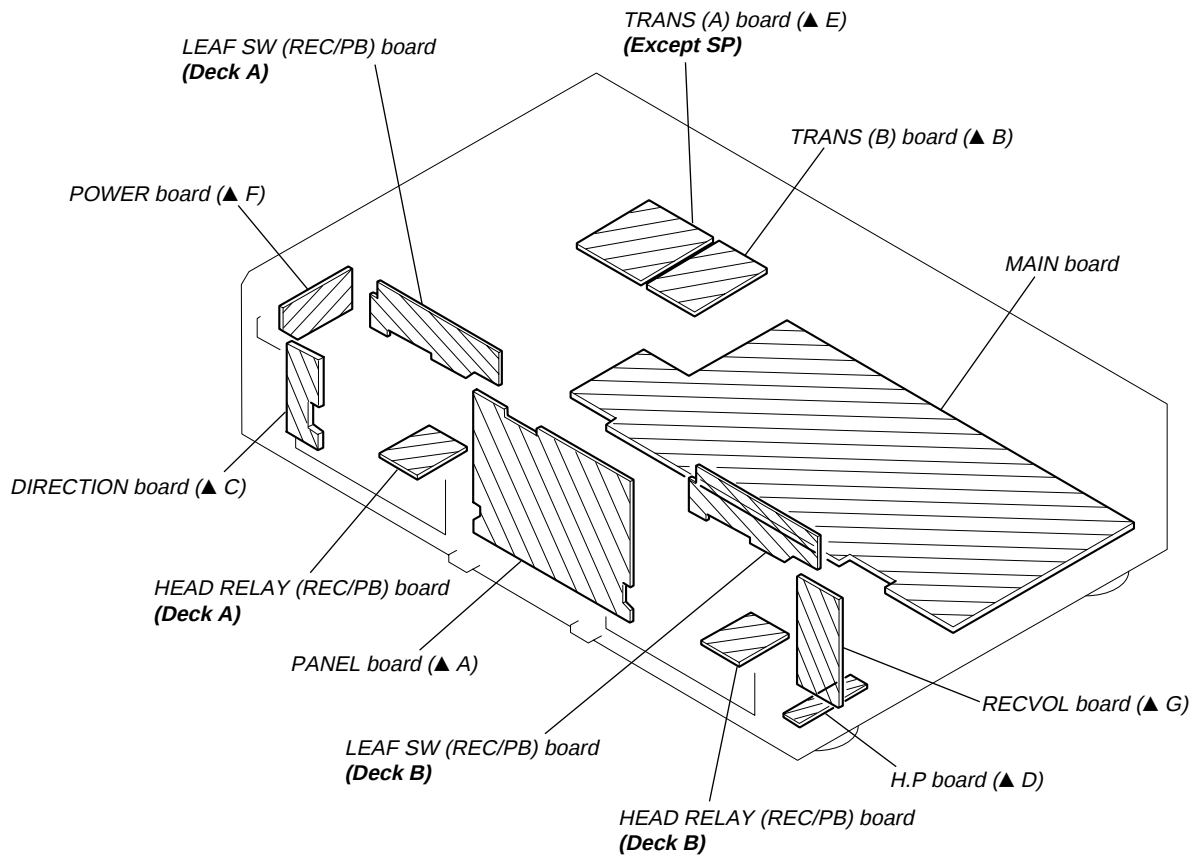
Adjustment Location: main board

[MAIN board] (Component side)



SECTION 6 DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION



- ▲A to ▲G are including into the mounted PANEL board.

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

- Note:**
- All capacitors are in μF unless otherwise noted. pF: μF 50 WV 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.
 - % : indicates tolerance.
 - Δ : internal component.
 -  : fusible resistor.
 -  : panel designation.

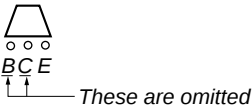
Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	--

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : STOP
() : REC
< > : PB
* : Can not be measured.
- Voltages are taken with a VOM (Input impedance 10 M Ω).
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.
- Signal path.
 : PB
 : REC
- Abbreviation
CND : Canadian model.
AUS : Australian model.
SP : Singapore model.

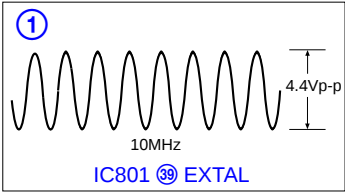
For printed wiring boards.

- Note:**
-  : parts extracted from the component side.
 -  : Pattern from the side which enables seeing.
 - Transistor of "B" and "C" indication is omitted.

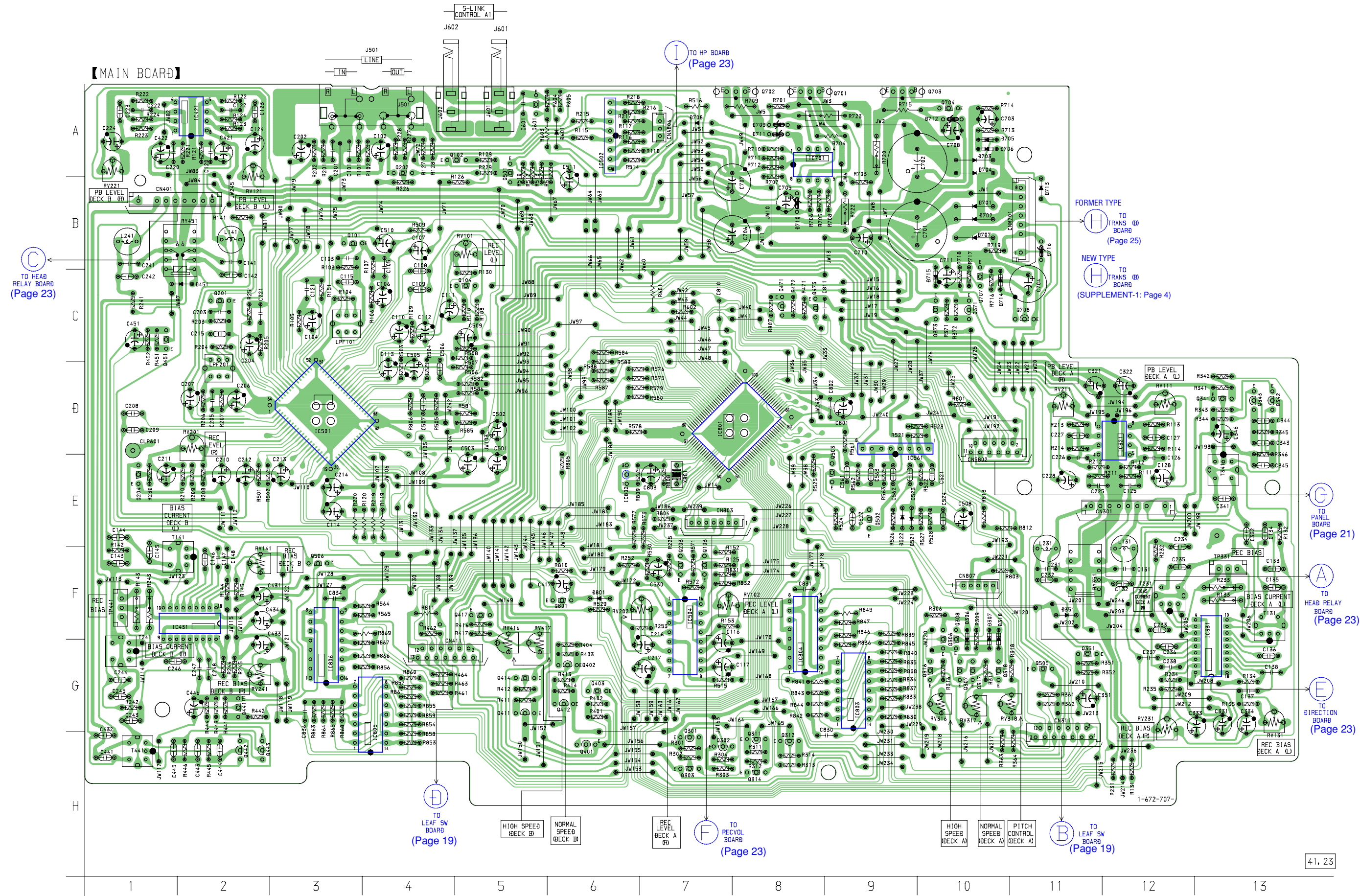
Indication of transistor



WAVEFORMS
– MAIN SECTION (3/4) –



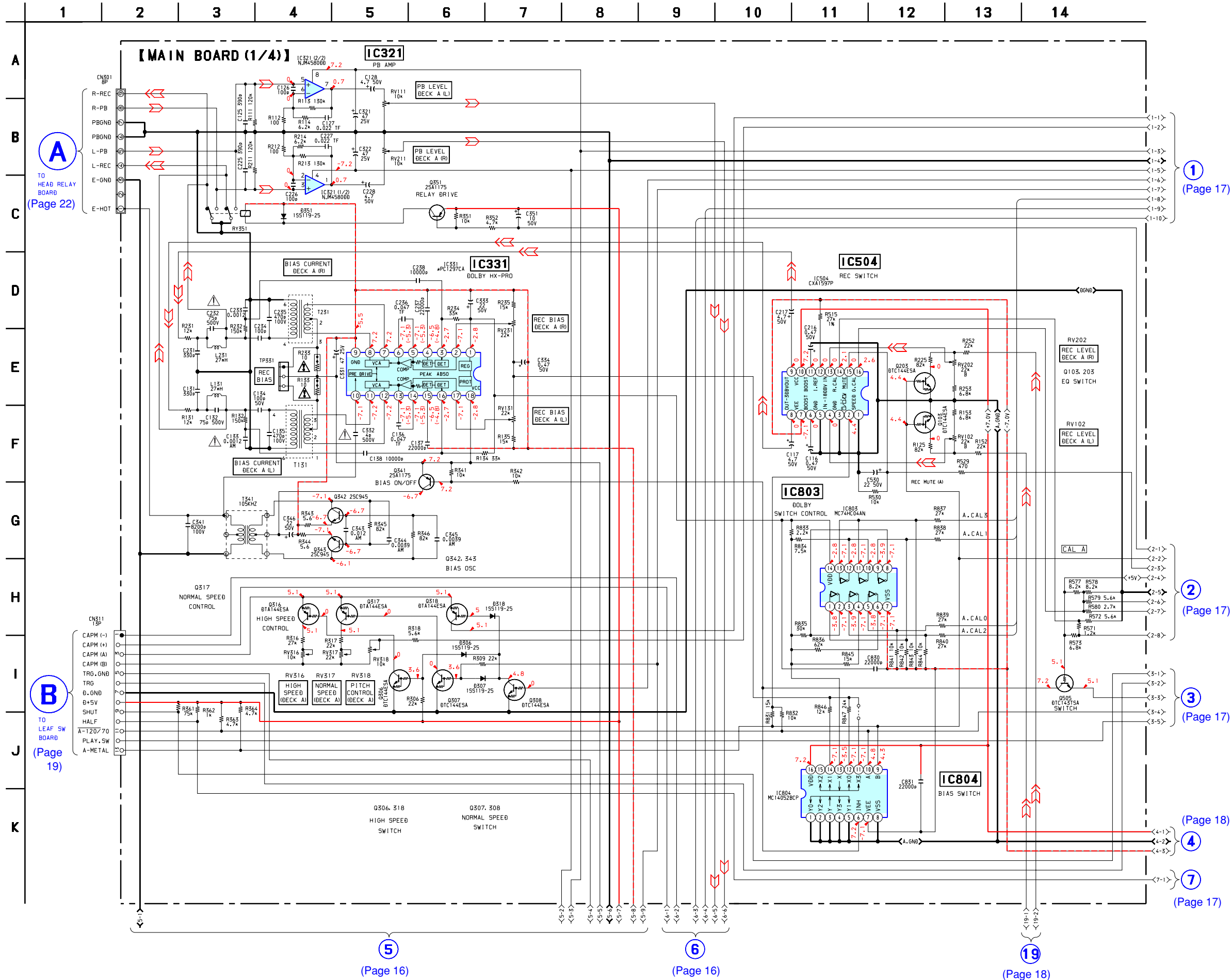
6-2. PRINTED WIRING BOARD – MAIN SECTION –
• See page 12 for Circuit Boards Location.



6-3. SCHEMATIC DIAGRAM – MAIN (1/4) SECTION –

• Semiconductor Location

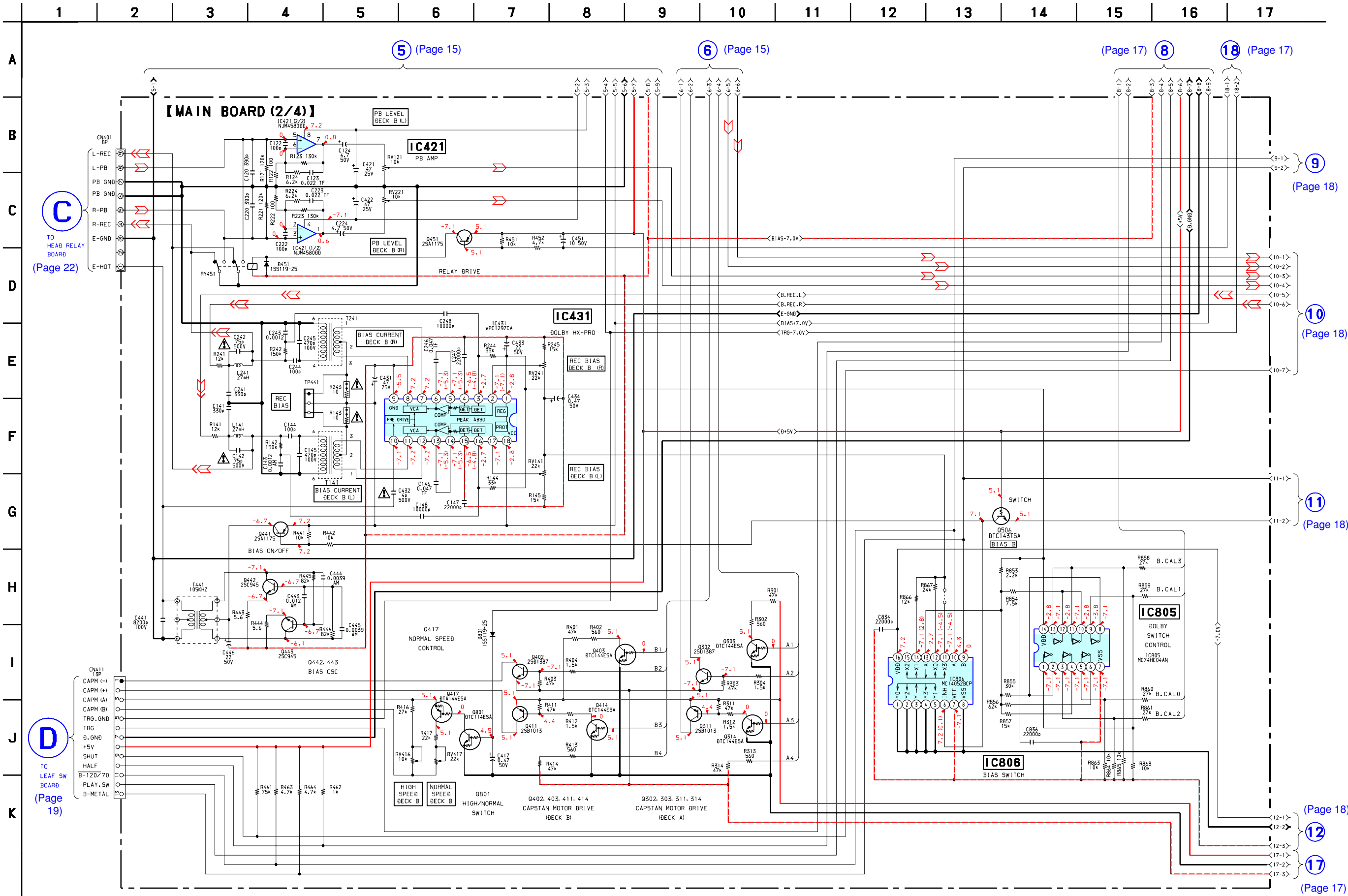
Ref. No.	Location	Ref. No.	Location
D306	F-10	Q104	C-5
D307	F-10	Q201	C-2
D318	F-10	Q202	A-4
D351	F-11	Q203	F-7
D451	C-1	Q204	E-1
D521	E-9	Q302	H-7
D522	E-9	Q303	H-7
D601	A-6	Q306	F-10
D701	B-10	Q307	G-10
D702	B-10	Q308	F-10
D703	A-10	Q311	H-8
D704	A-10	Q314	H-8
D705	A-10	Q316	G-10
D706	A-10	Q317	G-10
D707	B-10	Q318	G-10
D708	A-7	Q341	D-13
D709	A-8	Q342	D-13
D710	B-8	Q343	D-13
D711	A-8	Q351	G-11
D712	A-10	Q371	C-10
D713	B-11	Q373	C-10
D714	C-10	Q402	G-6
D715	C-10	Q403	G-6
D716	B-11	Q411	G-5
D801	F-6	Q414	G-5
		Q417	F-5
IC321	D-12	Q441	G-2
IC331	G-13	Q442	H-2
IC421	A-2	Q443	H-2
IC431	F-2	Q451	C-1
IC501	D-3	Q471	C-8
IC502	A-6	Q473	C-8
IC504	F-7	Q501	A-5
IC561	D-9	Q502	E-9
IC701	A-8	Q503	E-9
IC801	D-7	Q505	G-11
IC802	E-6	Q506	F-3
IC803	G-9	Q601	A-5
IC804	G-8	Q701	A-8
IC805	G-4	Q702	A-7
IC806	G-3	Q703	A-9
		Q704	A-10
Q101	B-3	Q707	C-10
Q102	A-5	Q708	C-11
Q103	F-7	Q801	F-6



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.

TC-WE675
Ver 1.3 2002.09
6-4. SCHEMATIC DIAGRAM – MAIN (2/4) SECTION –



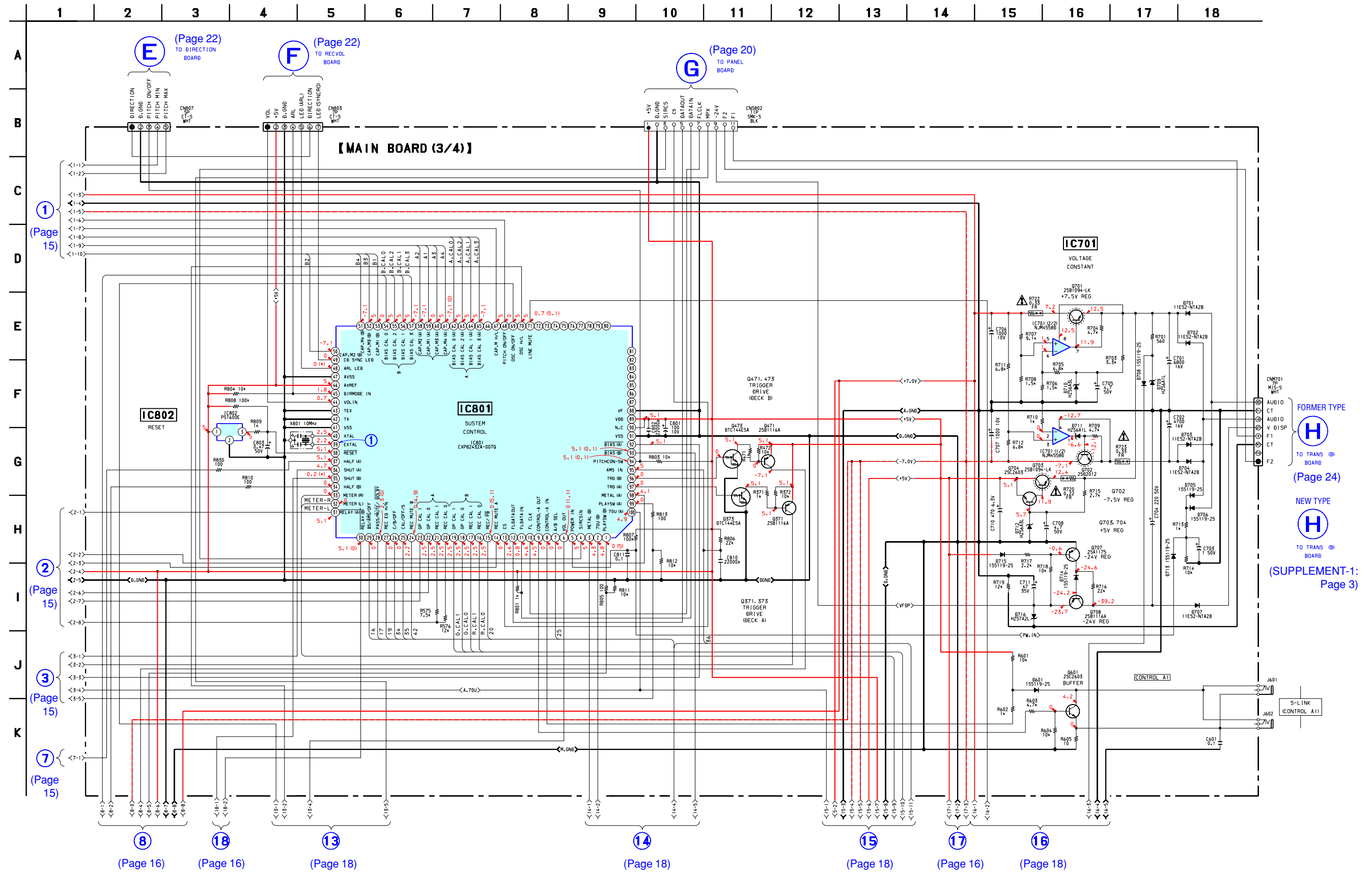
• Signal Path
△ : PB
△ : REC

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.

6-5. SCHEMATIC DIAGRAM – MAIN (3/4) SECTION –

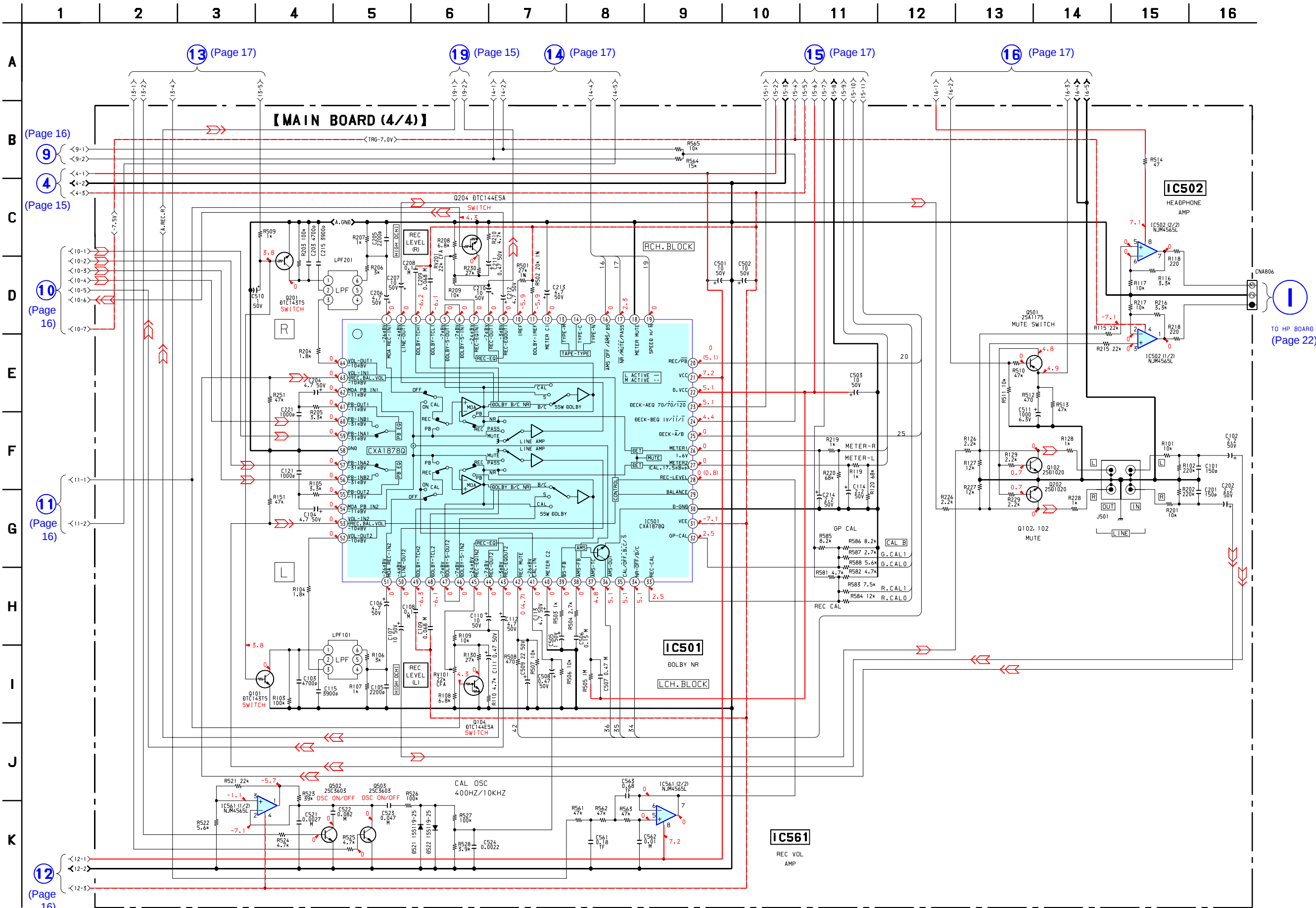
- See page 13 for Waveforms.
- See page 14 for Printed Wiring Board.
- See page 26 for IC Pin Functions.



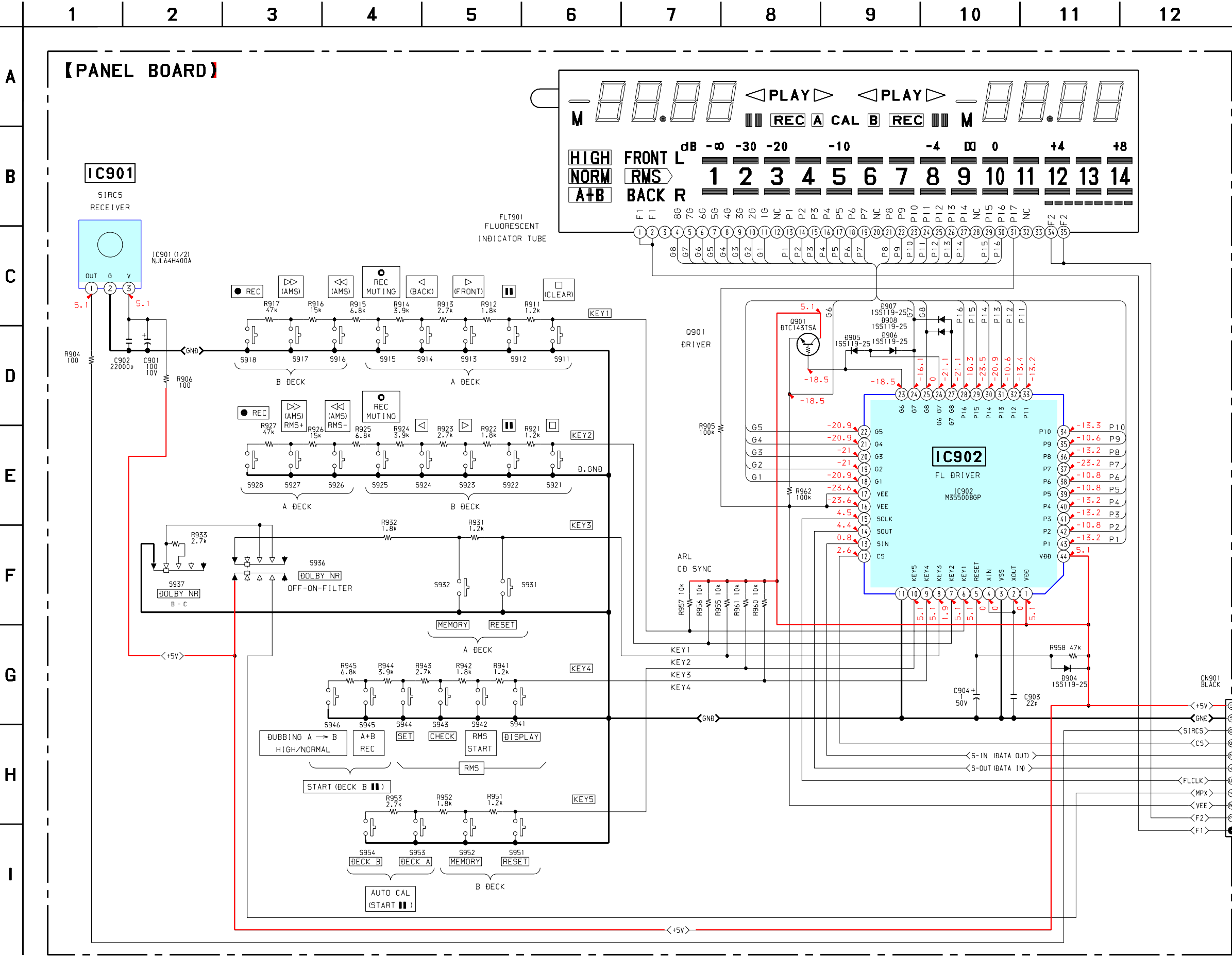
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

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

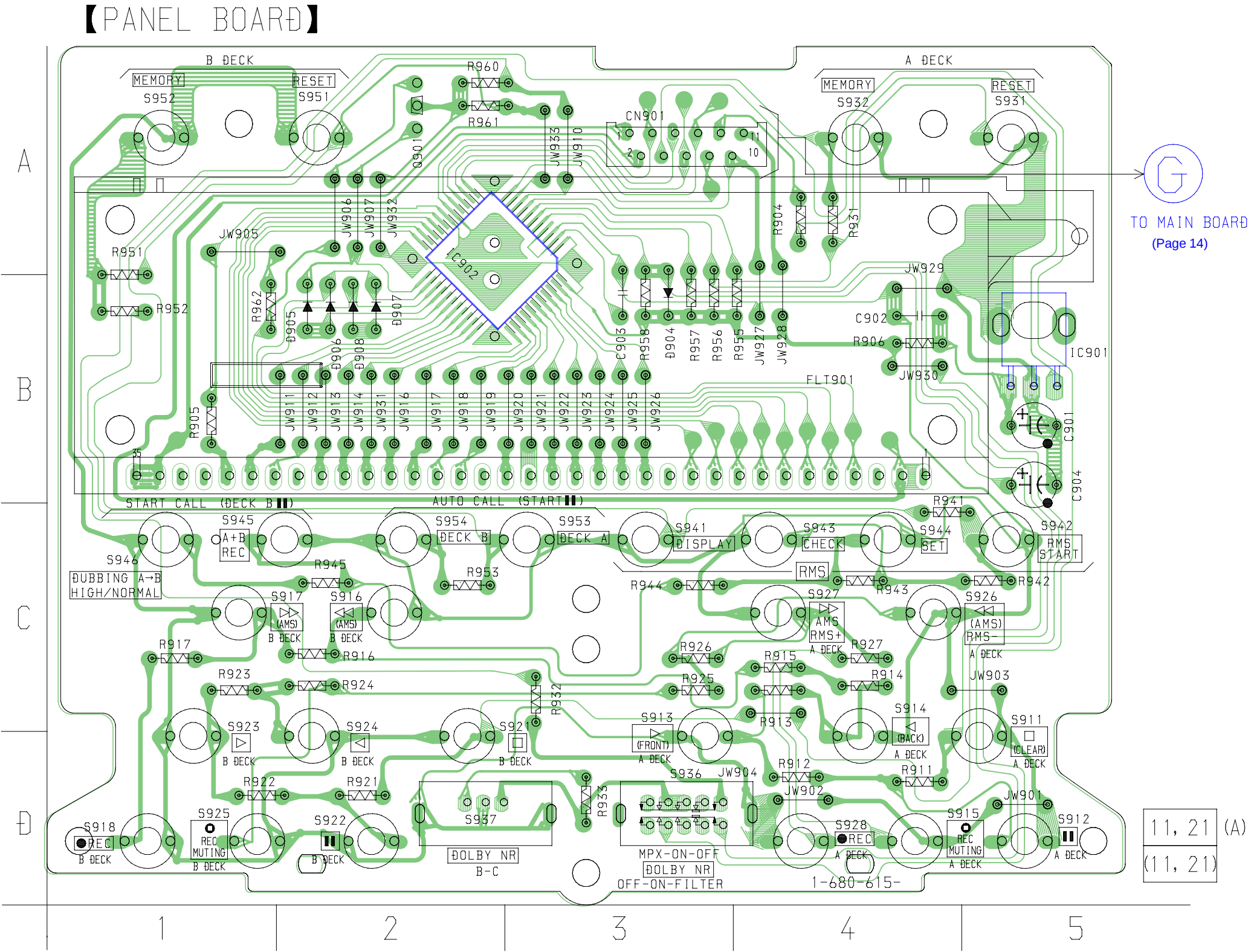
6-6. SCHEMATIC DIAGRAM – MAIN (4/4) SECTION –



6-9. SCHEMATIC DIAGRAM – DISPLAY SECTION –



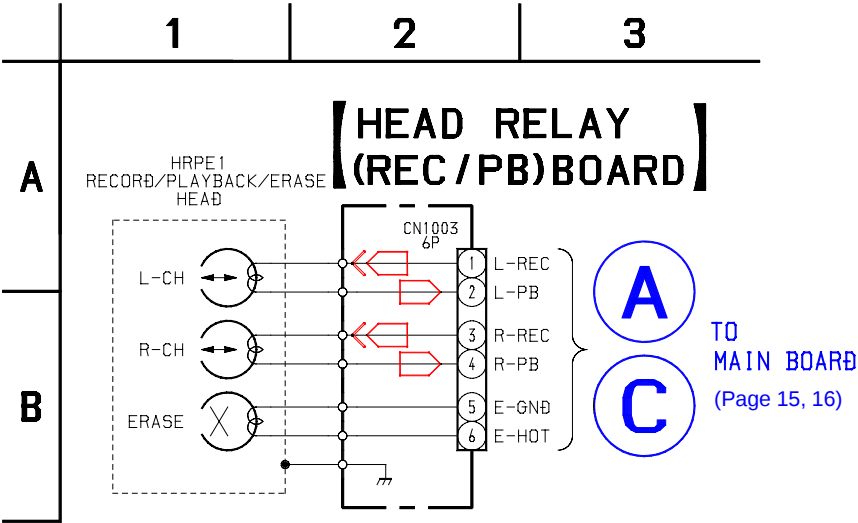
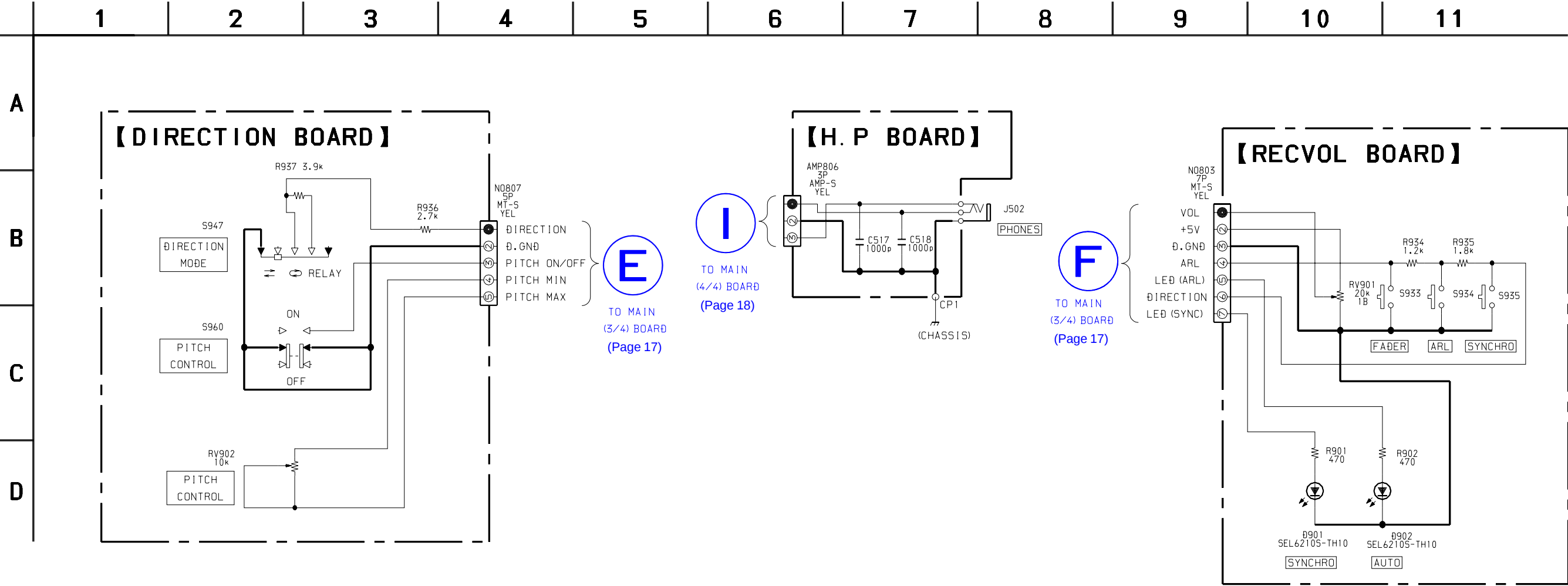
6-10. PRINTED WIRING BOARD – DISPLAY SECTION –
• See page 12 for Circuit Boards Location.



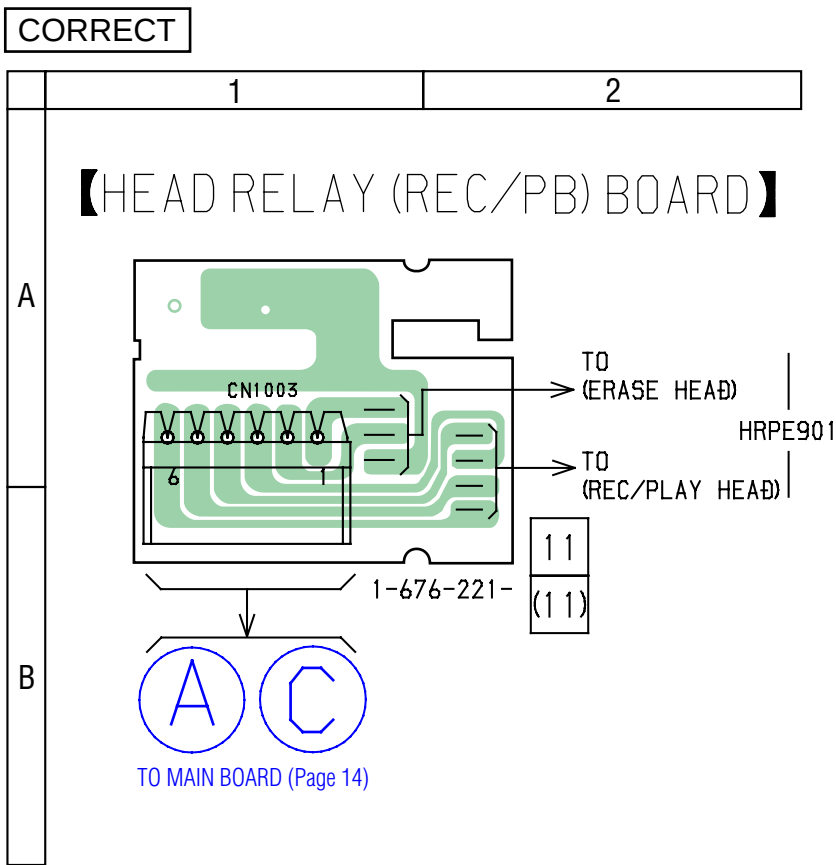
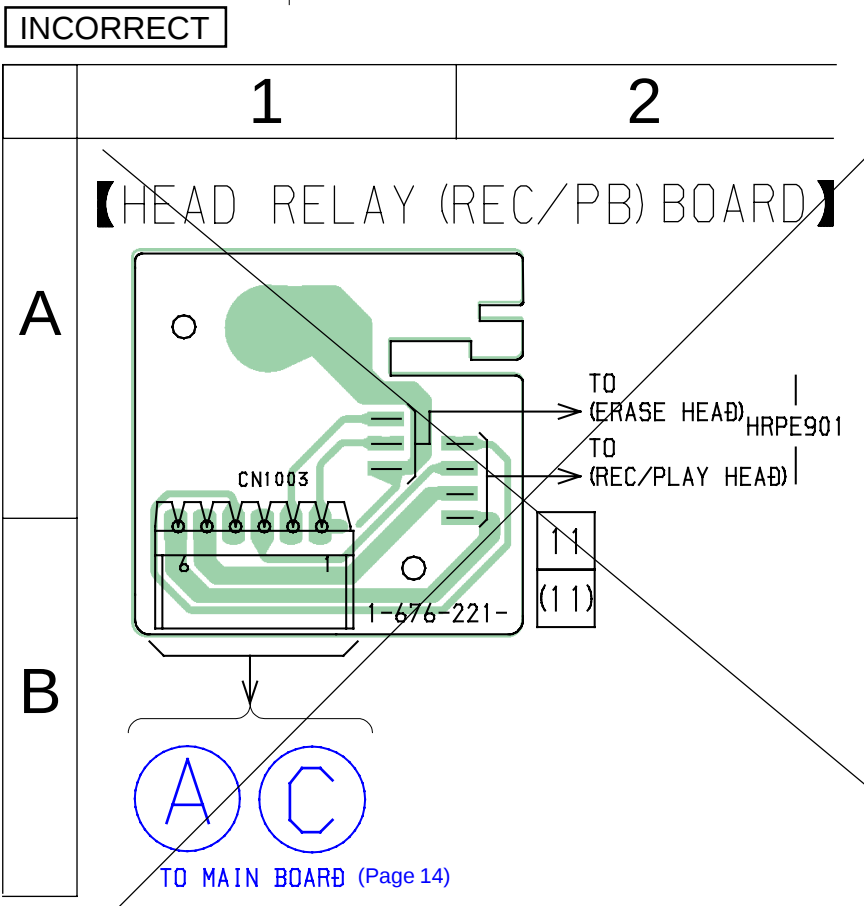
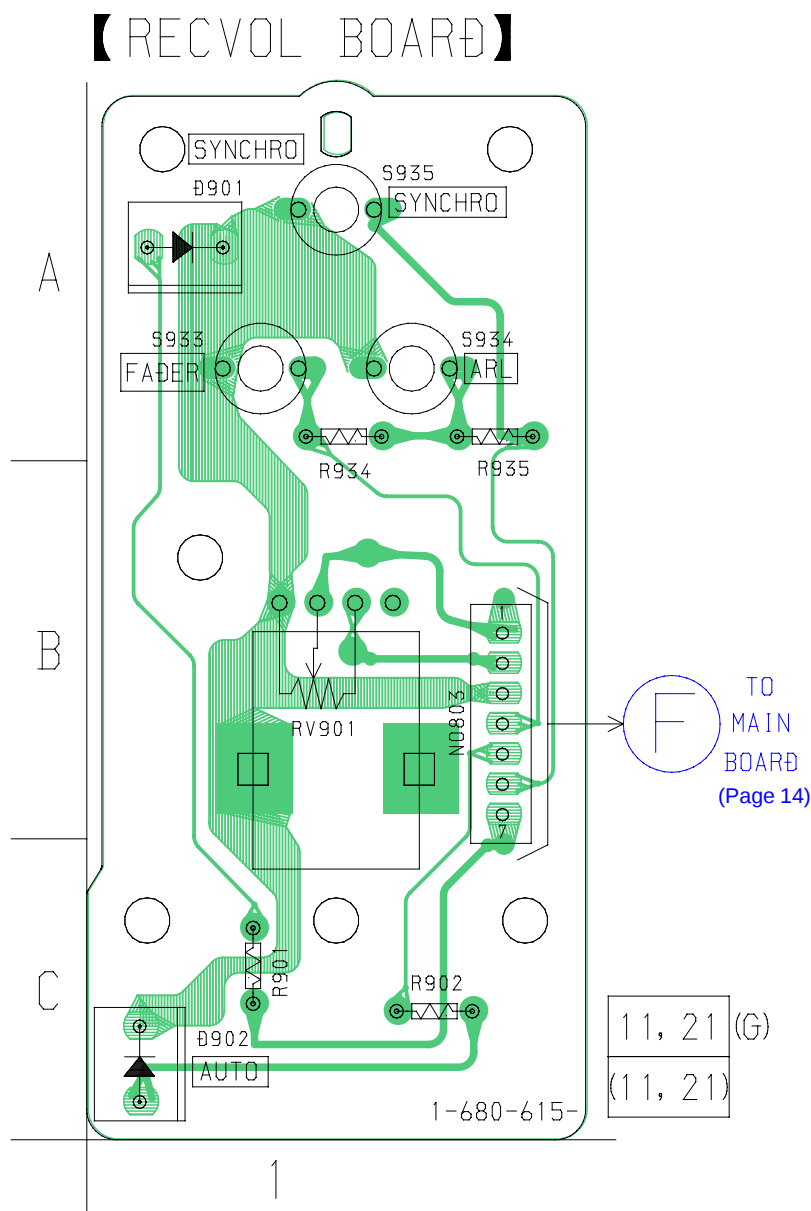
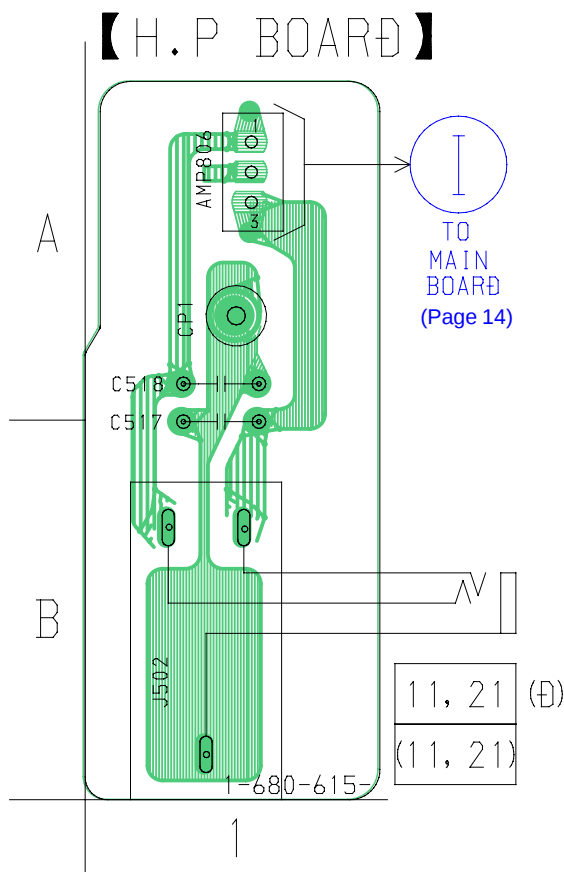
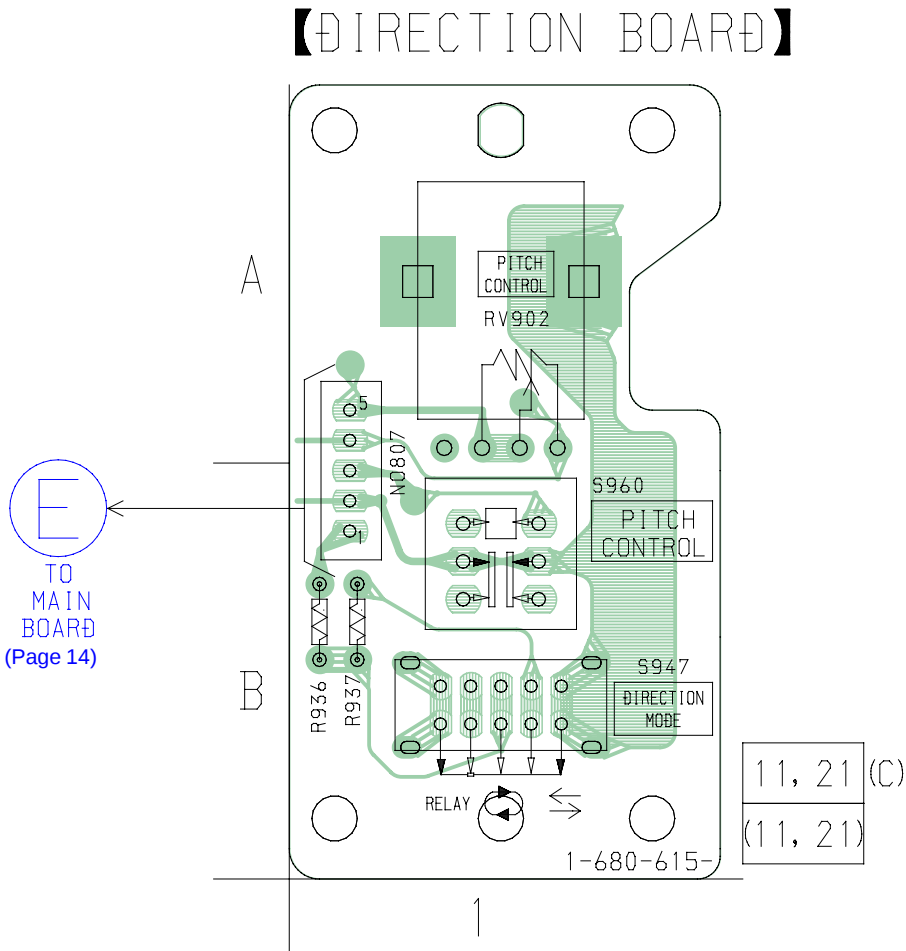
• Semiconductor Location

Ref. No.	Location
D904	B-3
D905	B-2
D906	B-2
D907	B-2
D908	B-2
IC901	B-5
IC902	A-2
Q901	A-2

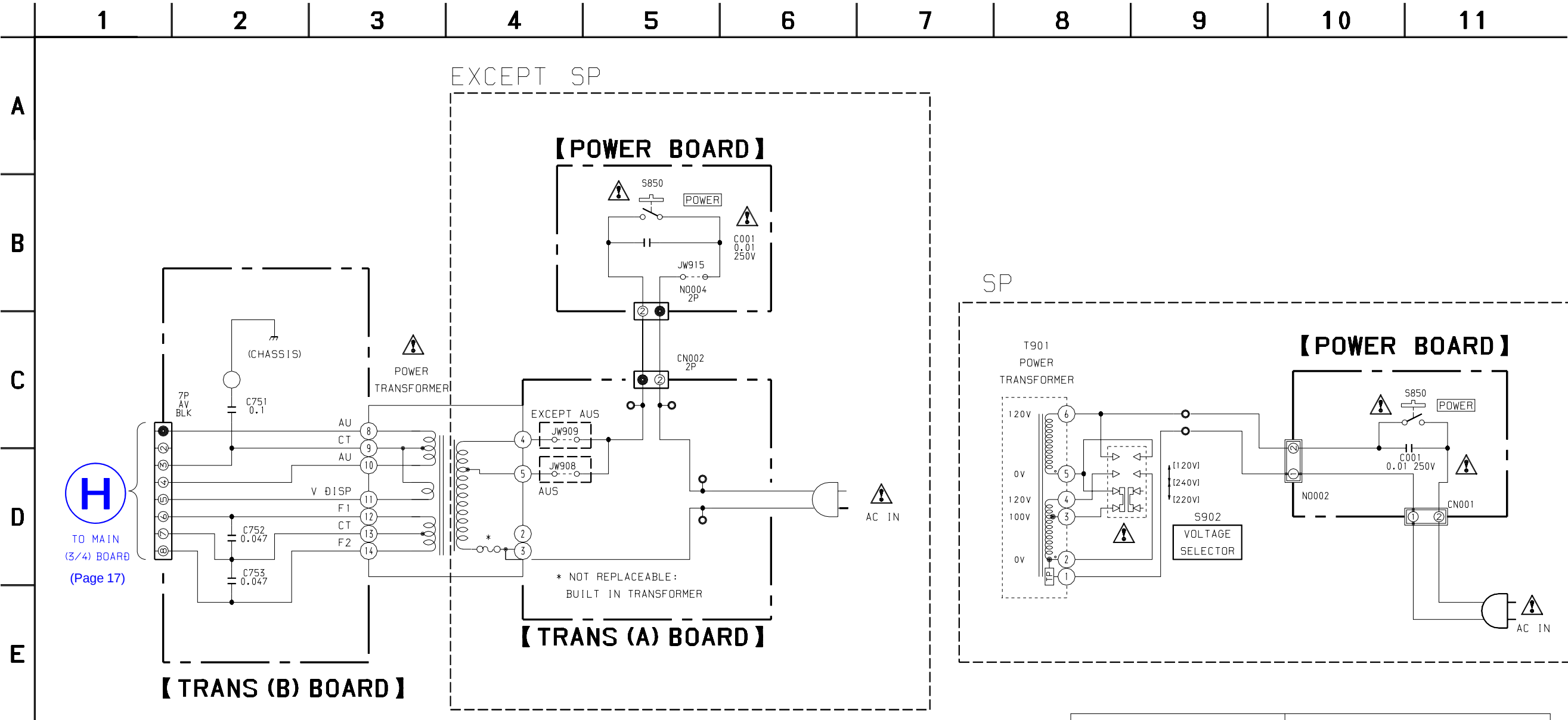
6-11. SCHEMATIC DIAGRAM – PANEL SECTION –



6-12. PRINTED WIRING BOARD – PANEL SECTION –
• See page 12 for Circuit Boards Location.

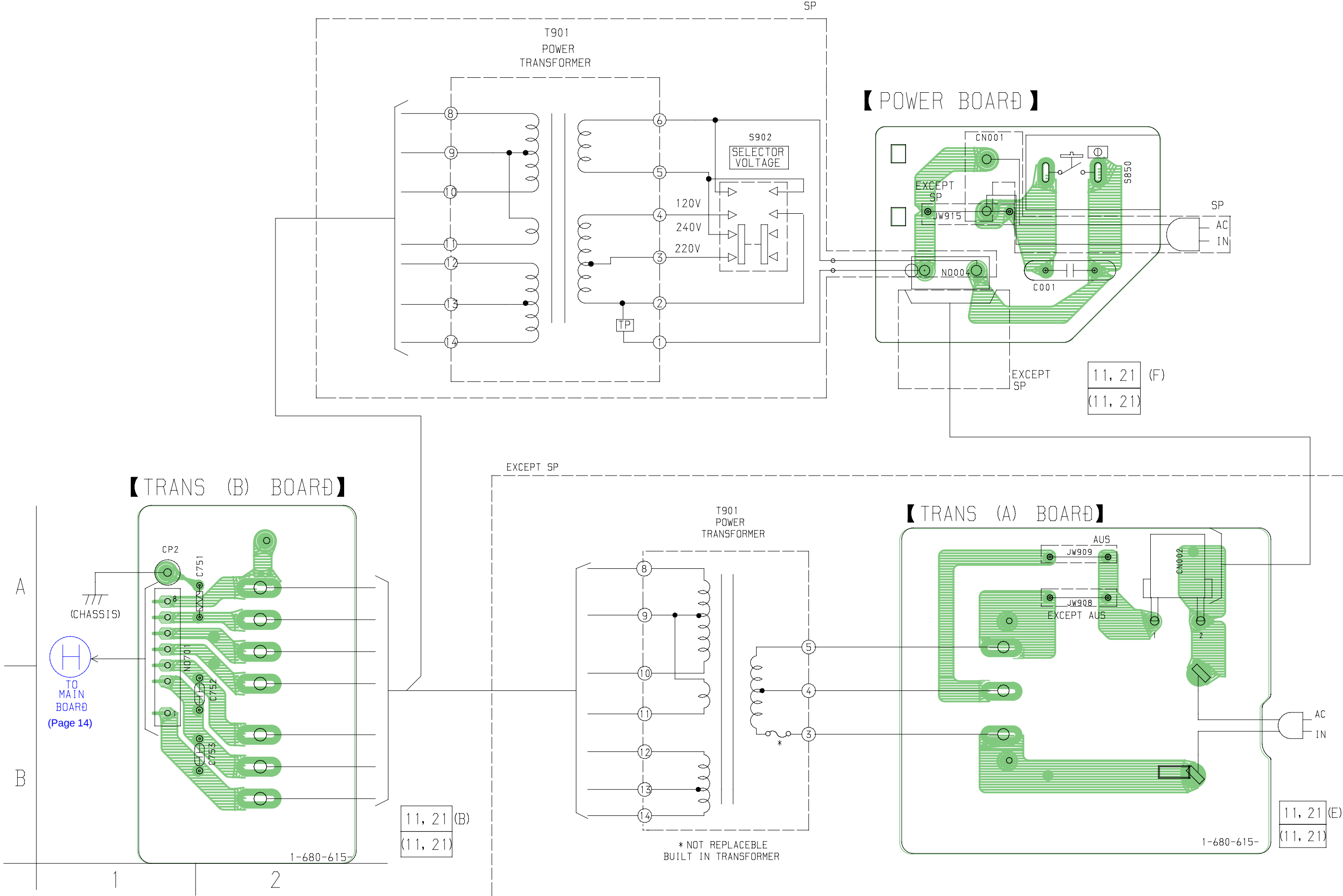


6-13. SCHEMATIC DIAGRAM – POWER SECTION –



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Note: Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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6-14. PRINTED WIRING BOARD – POWER SECTION –
• See page 12 for Circuit Boards Location.



6-15. IC PIN FUNCTION

• IC801 SYSTEM CONTROL (CXP82432A-007Q) (MAIN board)

Pin No.	Pin Name	I/O	Function
1	PLAYSW (B)	I	Play switch input (DECK B)
2	70U (B)	O	70μ output (DECK B)
3	METAL (B)	I	METAL input (DECK B)
4	SIRCS IN	I	Sircs signal input
5	POWER IN	I	Power hold input
6	VOL OUT	O	Volume output
7	A/B SEL	I	Playback A/B selector input “L” : A, “H” : B
8	CONTROL-A IN	I	Control A signal input
9	CONTROL-A OUT	O	Control A signal output
10	FL CLK	I	FL CLK control input
11	FL DATA IN	I	Display control input
12	FL DATA OUT	O	Display control output
13	CS	I	Sircs signal input
14	REC MUTE A	O	Recording mute output “L” : Mute ON
15	REC / $\overline{\text{PB}}$	O	Record /playback dolby NR mode selector output “L” : Playback
16	REC CAL 0 (B)	O	Recoding CAL control 0 (DECK B)
17	REC CAL 1 (B)	O	Recoding CAL control 1 (DECK B)
18	GP CAL 0 (B)	O	GP CAL control 0 (DECK B)
19	GP CAL 1 (B)	O	GP CAL control 1 (DECK B)
20	REC CAL 0 (A)	O	Recoding CAL control 0 (DECK A)
21	REC CAL 1 (A)	O	Recoding CAL control 1 (DECK A)
22	GP CAL 0 (A)	O	GP CAL control 0 (DECK A)
23	GP CAL 1 (A)	O	GP CAL control 1 (DECK A)
23	NC	–	Not used
24	REC MUTE B	O	Recording mute output (DECK B)
25	CAL/OFF/S	O	CAL select switch
26	C/B/OFF	O	Dolby selector “H” : C, “Open” : B, “L” : Dolby off
27	REC EQ H/N	O	REC EQ high/normal selector output “L” : Dolby
28	PASS/MUTE/ $\overline{\text{DOLBY}}$	O	Audio selector “H” : Pass , “Open” : Mute, “L” : Recording
29	BS/AMS/OFF	O	AMS amp selector “H” : BS, “Open” : AMS, “L” : OFF
30	$\overline{\text{RELAY}}$ (B)	I	Relay swich input (DECK B)
31	$\overline{\text{RELAY}}$ (A)	I	Relay swich input (DECK A)
32	METER (L)	I	Meter L-CH input
33	METER (R)	I	Meter R-CH input
34	HALF (B)	I	Half swich input (DECK B)
35	SHUT (B)	I	Capstan motor rotation detection input (DECK B)
36	SHUT (A)	I	Capstan motor rotation detection input (DECK A)
37	HALF (A)	I	Half swich input (DECK A)
38	$\overline{\text{RESET}}$	I	System reset input
39	EXTAL	O	System clock oscillator output (10 MHz)
40	XTAL	I	System clock oscillator input (10 MHz)
41	VSS	–	Ground
42	TX	–	
43	TEX	–	
44	VOL IN	I	Auto rec level control input
45	DIR MODE IN	I	Key input
46	AVREF	–	Connected to power supply
47	AV SS	–	Ground
48	AR LED	O	AUTO LED driver “H” : ON

Pin No.	Pin Name	I/O	Function
49	CD SYNC LED	O	SYNCHRO LED driver “L” : ON
50	CAP, M2 (B)	O	Capstan motor driver (DECK B)
51	CAP, M4 (B)	O	
52	CAP, M3 (B)	O	
53	CAP, M1 (B)	O	
54	BIAS CAL 0 (B)	O	BIAS CAL control 0 (DECK B)
55	BIAS CAL 1 (B)	O	BIAS CAL control 1 (DECK B)
56	BIAS CAL 2 (B)	O	BIAS CAL control 2 (DECK B)
57	BIAS CAL 3 (B)	O	BIAS CAL control 3 (DECK B)
58	CAP, M2 (A)	O	Capstan motor driver (DECK A)
59	CAP, M1 (A)	O	
60	CAP, M3 (A)	O	
61	CAP, M4 (A)	O	
62	BIAS CAL 0 (A)	O	BIAS CAL control 0 (DECK A)
63	BIAS CAL 1 (A)	O	BIAS CAL control 1 (DECK A)
64	BIAS CAL 2 (A)	O	BIAS CAL control 2 (DECK A)
65	BIAS CAL 3 (A)	O	BIAS CAL control 3 (DECK A)
66	NC	–	Not used
67	CAP, M H/L	O	Capstan motor high/normal selector output “L” : ON
68	PITCH ON/OFF	O	Pitch control ON/OFF output
69	OSC ON/OFF	O	CAL detection ON/OFF select output
70	OSC H/L	O	CAL oscillator ON/OFF select output
71	LINE MUTE	O	Line mute ON/OFF control output
72 to 87	NC	–	Not used
88	VF	–	Ground
89	VDD	–	Power supply (+5V)
90	N.C	–	Not used
91	VSS	–	Ground
92	$\overline{\text{BIAS}}$ (A)	O	Bias ON/OFF output (DECK A)
93	$\overline{\text{BIAS}}$ (B)	O	Bias ON/OFF output (DECK B)
94	PITCH CON-SW	O	Pitch control ON/OFF control output “L” : ON
95	AMS IN	I	AMS amp selector
96	TRG (B)	O	Trigger control output (DECK B)
97	TRG (A)	O	Trigger control output (DECK A)
98	NC	–	Not used
99	PLAYSW (A)	I	Play swich input (DECK A)
100	70U (A)	I	70μ output (DECK A)

SECTION 7

EXPLODED VIEWS

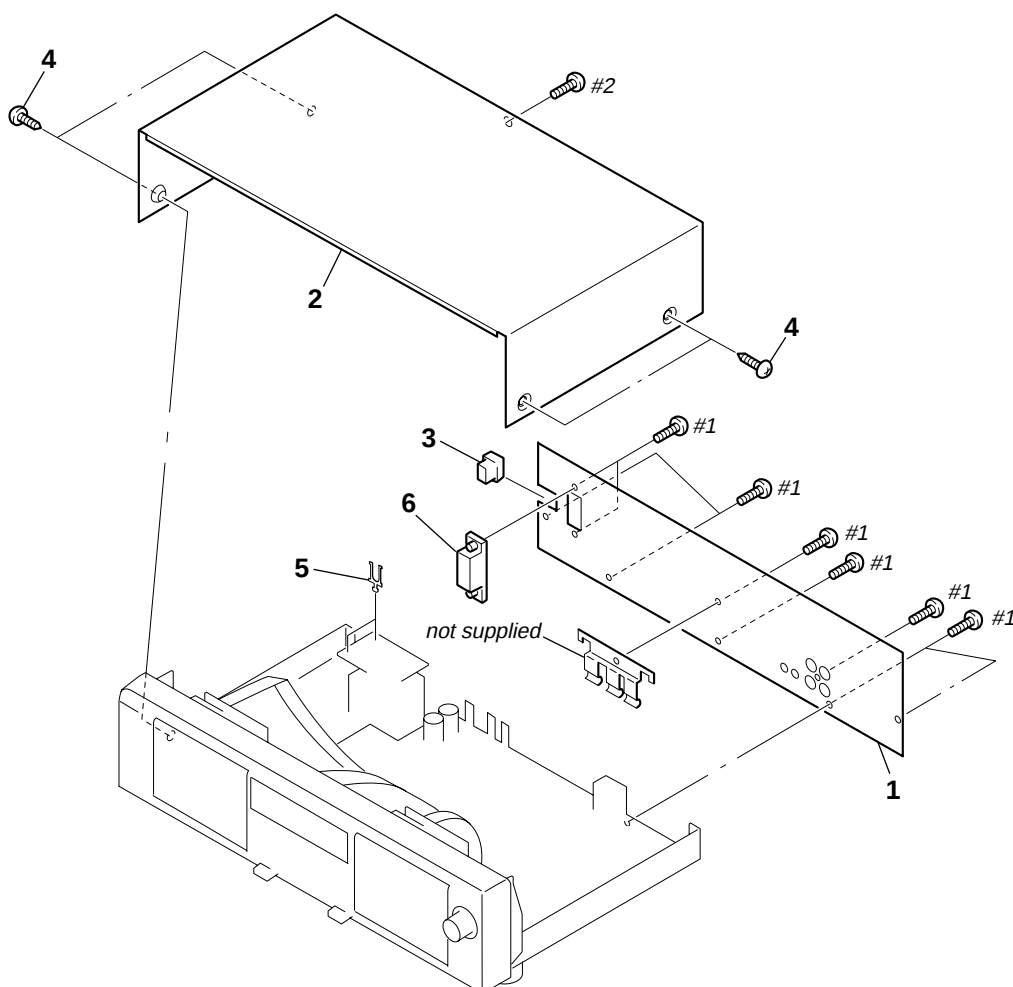
NOTE:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑ ↑
 Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
CND : Canadian model
SP : Singapore model
AUS : Australian model

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

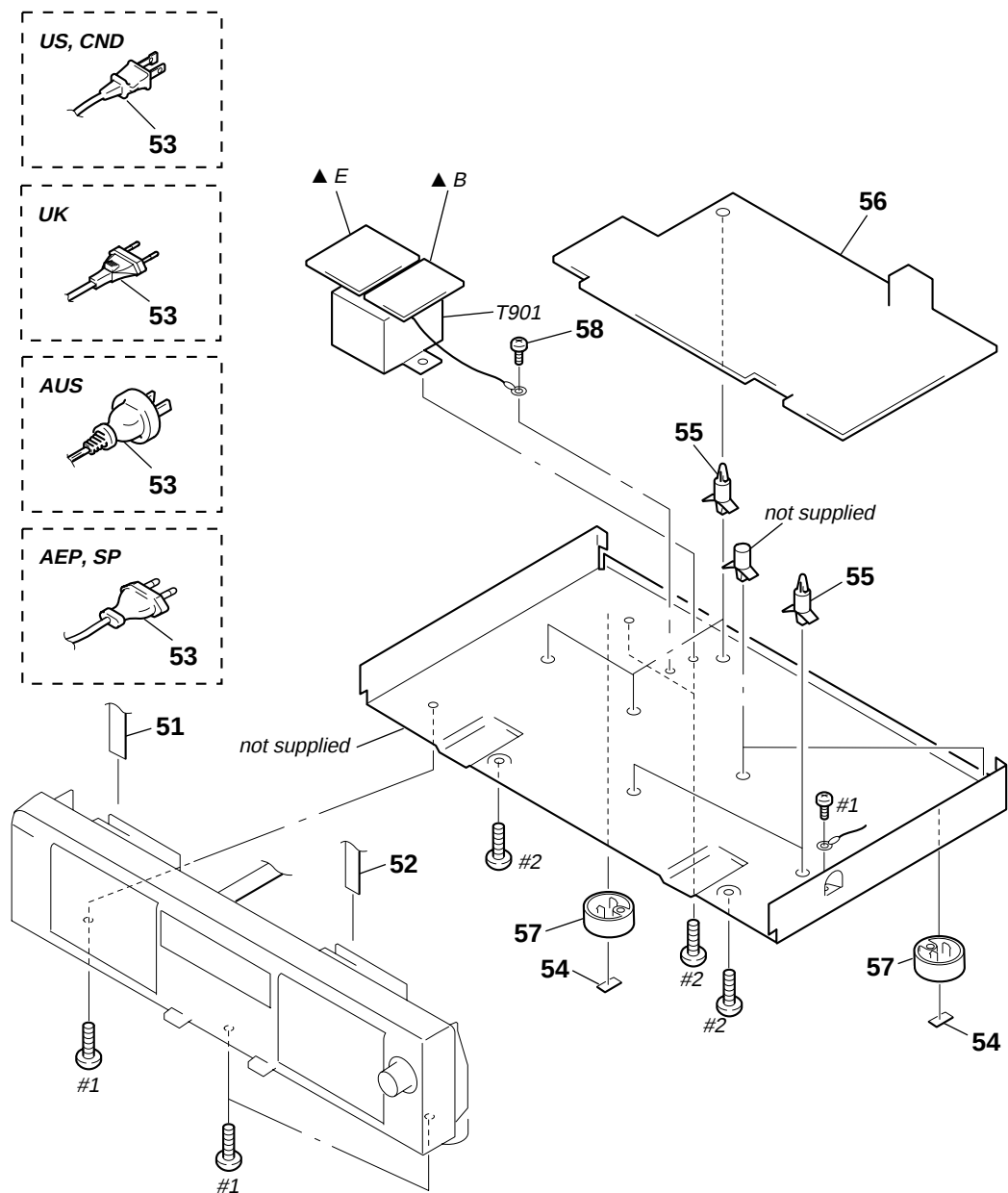
Les composants identifiés par une
marque  sont critiques pour la
sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-232-414-01	PANEL, BACK (US)		2	4-232-149-71	CASE(410726)	
1	4-232-414-11	PANEL, BACK (CND)		3	3-703-244-00	BUSHING (2104), CORD	
1	4-232-414-21	PANEL, BACK (AEP)		4	3-363-099-01	SCREW(CASE 3 TP2)	
1	4-232-414-31	PANEL, BACK (UK)		5	1-535-688-11	TERMINAL	
1	4-232-414-41	PANEL, BACK (SP)					
				6	1-692-155-11	SELECTOR, POWER VOLTAGE (SP)	
1	4-232-414-51	PANEL, BACK (AUS)					

7-2. CHASSIS SECTION

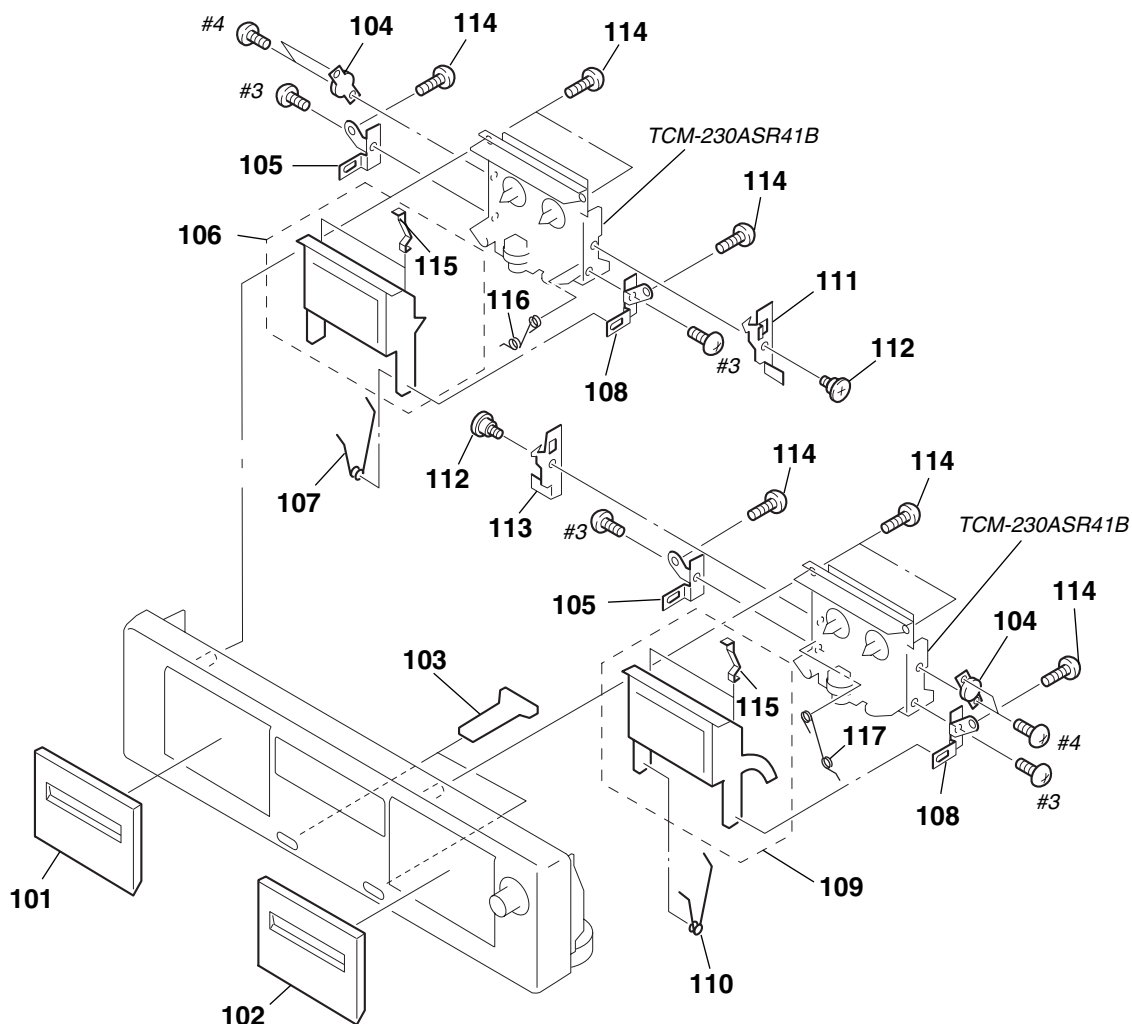


▲B and ▲E are including into the mounted PANEL board (Ref No. 160).
▲B TRANS (B) board
▲E TRANS (A) board (EXCEPT SP)

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.
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	1-696-656-11	WIRE(FLAT TYPE) (13 CORE)		56	A-2007-866-A	MAINBOARD, COMPLETE (US,CND,SP,AUS)	
52	1-769-976-11	WIRE(FLAT TYPE) (13 CORE)		56	A-2007-869-A	MAINBOARD, COMPLETE (AEP,UK)	
▲ 53	1-575-651-21	CORD, POWER (SP)		57	4-232-237-01	FOOT(DIA. 30)	
▲ 53	1-751-535-11	CORD, POWER (UK)		58	3-970-608-01	SUMITITE (B3), +BV	
▲ 53	1-777-107-11	CORD, POWER (AEP)		▲ T901	1-431-786-12	TRANSFORMER, POWER (AEP,UK,AUS)	
▲ 53	1-777-218-11	CORD, POWER (AUS)		▲ T901	1-431-788-12	TRANSFORMER, POWER (US,CND)	
▲ 53	1-783-531-51	CORD, POWER (US,CND)		▲ T901	1-431-789-12	TRANSFORMER, POWER (SP)	
* 54	4-978-398-21	CUSHION					
* 55	3-346-265-31	HOLDER, PC BOARD					

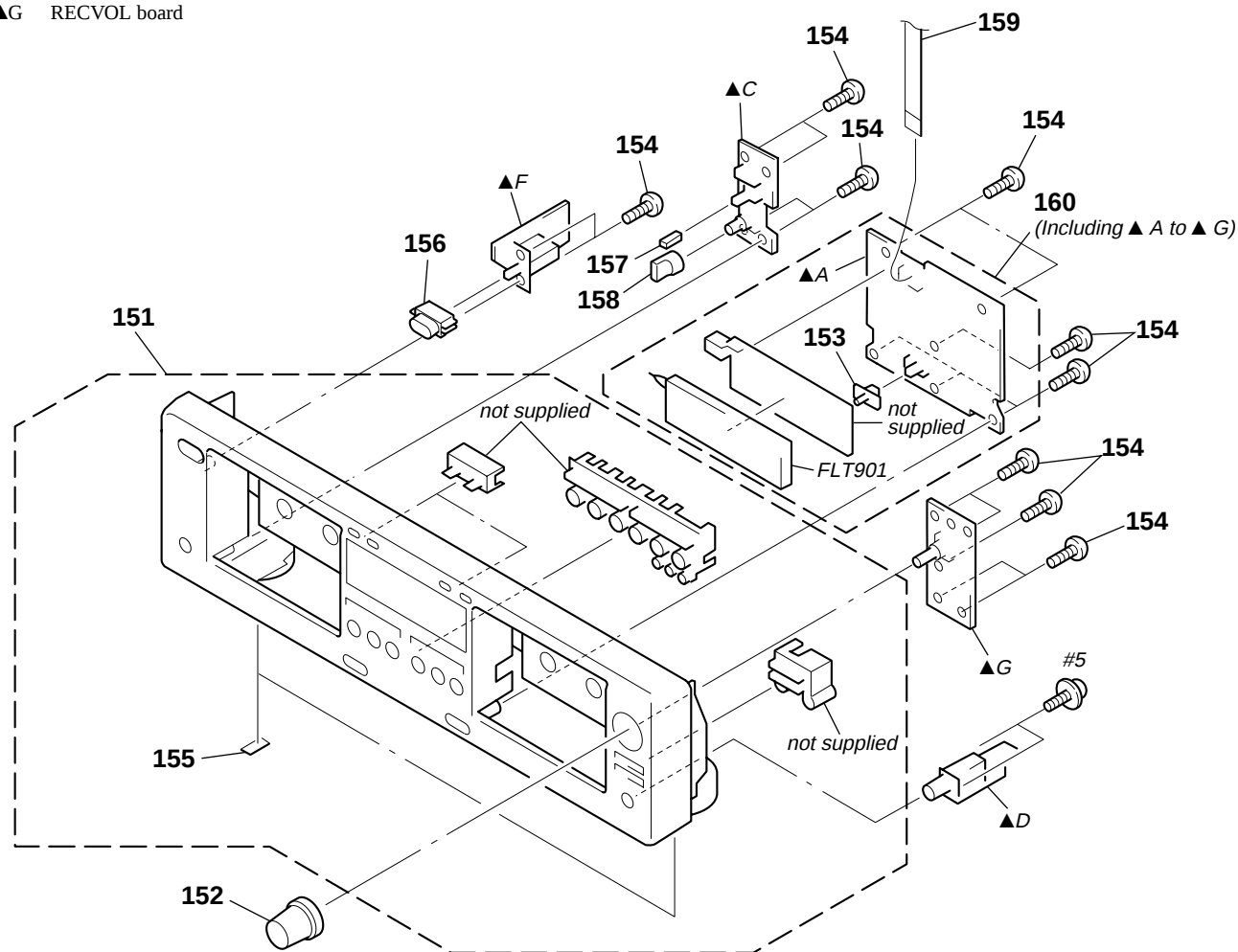
7-3. CASSETTE HOLDER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4953-496-1	LID(A) ASSY, CASSETTE		111	3-019-453-01	LEVER (LOCK R)	
102	X-4953-497-1	LID(B) ASSY, CASSETTE		112	3-019-456-01	SCREW, STEP	
103	4-232-407-01	BUTTON (EJECT)		113	3-019-452-01	LEVER (LOCK L)	
104	3-022-410-01	DAMPER		114	4-951-620-01	SCREW (2.6X8), +BVTP	
105	3-019-450-01	PLATE (L), FULCRUM		115	4-959-229-11	DETENT, CASSETTE	
106	X-4953-543-1	HOLDER (L) ASSY, CASSETTE		116	3-032-810-03	SPRING (R), TORSION	
107	3-019-455-01	SPRING (R), LOADING		117	3-032-809-03	SPRING (L), TORSION	
108	3-019-451-01	PLATE (R), FULCRUM		#3	7-685-851-09	SCREW +BVTT 2X4 (S)	
109	X-4953-542-1	HOLDER (R) ASSY, CASSETTE		#4	7-685-852-04	SCREW +BVTT 2X5 (S)	
110	3-019-454-01	SPRING (L), LOADING					

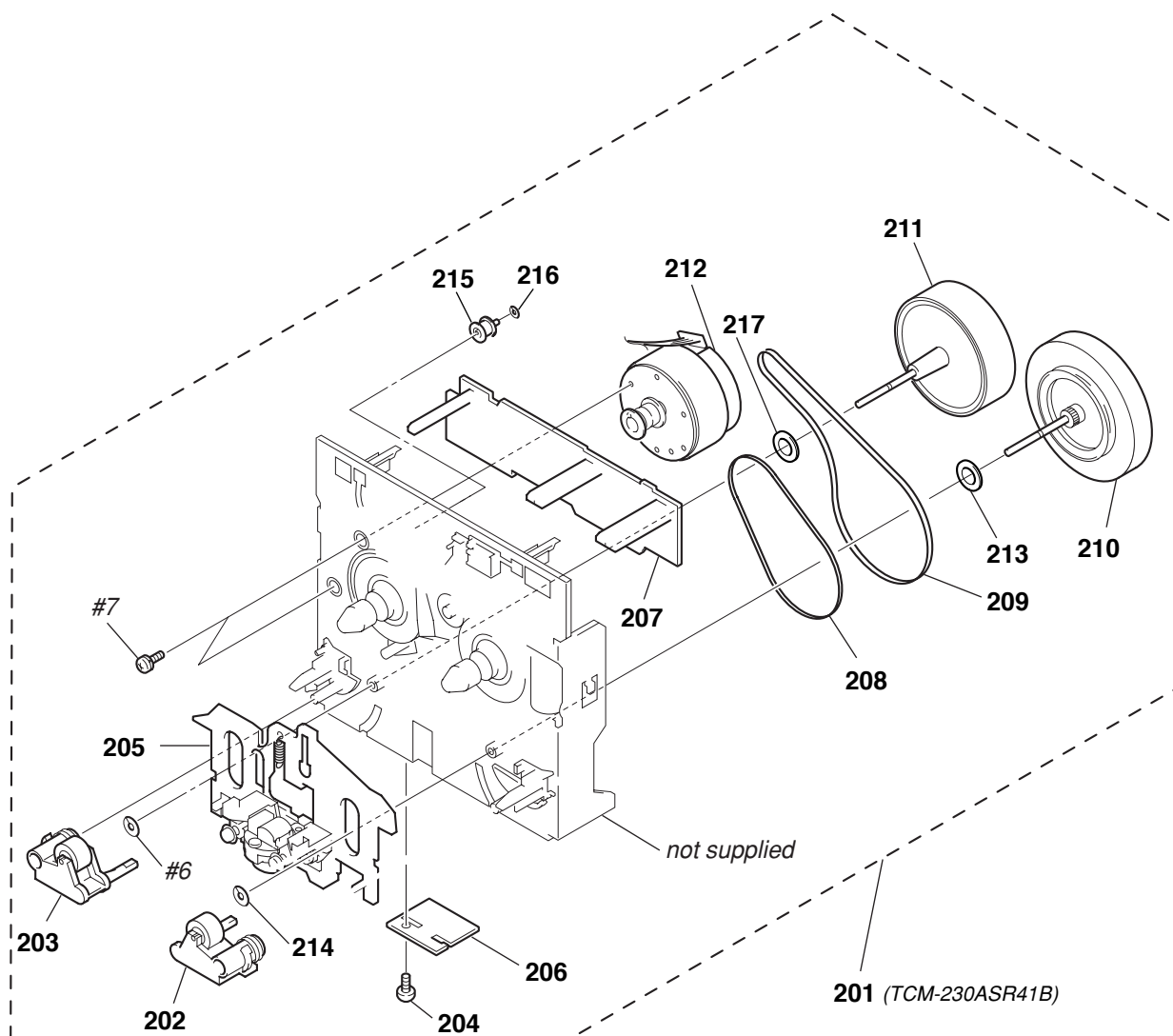
7-4. FRONT PANEL SECTION

- ▲A to ▲G are including into the mounted PANEL board (Ref No. 160).
- ▲A PANEL board
 - ▲C DIRECTION board
 - ▲D H.P board
 - ▲F POWER board
 - ▲G RECVOL board



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-4953-492-1	PANEL (US) ASSY, FRONT (US,CND)		157	4-232-412-11	BUTTON (DIA 3.5)(SILVER) (AEP)	
151	X-4953-493-1	PANEL (EU) ASSY, FRONT (AEP,UK,SP,AUS)		158	3-931-378-01	KNOB (F10)	
152	4-232-409-01	KNOB (DIA. 21)		159	1-769-950-11	WIRE (FLAT TYPE) (11 CORE)	
153	4-232-410-01	KNOB (SLIDE)		160	A-2007-867-A	PANEL BOARD, COMPLETE (US,CND)	
154	4-951-620-01	SCREW (2.6X8), +BVTP		160	A-2007-868-A	PANEL BOARD, COMPLETE (AUS)	
* 155	4-978-398-21	CUSHION		160	A-2007-870-A	PANEL BOARD, COMPLETE (AEP,UK)	
156	4-231-973-01	BUTTON (POWER)		160	A-2007-871-A	PANEL BOARD, COMPLETE (SP)	
157	4-232-412-01	BUTTON (DIA 3.5) (US,CND,AEP,UK,SP,AUS)					

7-5. TAPE MECHANISM SECTION (TCM-230ASR41B)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	A-2100-942-A	MECHANISM DECK		211	X-3378-043-1	FLYWHEEL (B-REV) ASSY	
202	X-3374-155-5	PINCH LEVER (FWD) ASSY		212	A-2004-854-A	MOTOR ASSY, CAPSTAN	
203	X-3374-156-5	PINCH LEVER (REV) ASSY		213	3-359-464-01	WASHER (CAPSTAN)	
204	4-227-872-11	SCREW (+PTT 2X4), GROUND POINT		214	3-019-208-01	WASHER, STOPPER	
205	X-4953-986-1	BLOCK (B) ASSY, HEAD		215	3-040-580-02	PULLEY (TENSION)	
206	A-4476-817-A	HEAD RELAY (REC/PB) BOARD, COMPLETE		216	3-016-533-01	WASHER (FR), STOPPER	
207	A-4476-816-A	LEAF SW BOARD, COMPLETE		217	3-359-464-11	WASHER (CAPSTAN)	
208	3-041-947-01	BELT (FR)		#6	7-623-921-01	RING, RETAINING, CAPSTAN	
209	3-041-946-01	BELT (CAPSTAN B)		#7	7-628-254-05	SCREW +PS 2.6X5	
210	X-3378-042-1	FLYWHEEL (B-FWD) ASSY					

SECTION 8 ELECTRICAL PARTS LIST

HEAD RELAY

LEAF SW

MAIN

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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable
- 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
- Abbreviation
CND : Canadian model
SP : Singapore model
MY : Malaysia model
AUS : Australian model

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 name.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4476-817-A	HEAD RELAY (REC/PB) BOARD *****		C104	1-126-963-11	ELECT 4.7uF 20.00% 50V	
		< CONNECTOR >		C105	1-162-302-11	CERAMIC 0.0022uF 20.00% 16V	
CN1003	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P *****		C106	1-126-963-11	ELECT 4.7uF 20.00% 50V	
				C107	1-126-964-11	ELECT 10uF 20.00% 50V	
				C108	1-130-495-00	MYLAR 0.1uF 5% 50V	
				C109	1-137-375-11	MYLAR 0.068uF 5.00% 50V	
				C110	1-126-964-11	ELECT 10uF 20.00% 50V	
	A-4476-816-A	LEAF SW BOARD, COMPLETE *****		C111	1-126-959-11	ELECT 0.47uF 20.00% 50V	
		< CONNECTOR >		C112	1-126-963-11	ELECT 4.7uF 20.00% 50V	
CN1001	1-568-444-11	SOCKET, CONNECTOR 13P		C113	1-126-963-11	ELECT 4.7uF 20.00% 50V	
		< DIODE >		C114	1-126-961-11	ELECT 2.2uF 20.00% 50V	
D1001	8-719-991-33	DIODE 1SS133T-77		C115	1-137-436-11	MYLAR 0.0039uF 5.00% 50V	
		< IC >		C116	1-126-959-11	ELECT 0.47uF 20.00% 50V	
IC1002	8-749-014-38	IC PHOTO INTERRUPTER SG-264		C117	1-126-963-11	ELECT 4.7uF 20.00% 50V	
		< RESISTOR >		C120	1-162-289-31	CERAMIC 390PF 10.00% 50V	
R1002	1-249-409-11	CARBON 220 5% 1/4W F		C121	1-162-294-31	CERAMIC 0.001uF 10% 50V	
R1003	1-249-414-11	CARBON 560 5% 1/4W F		C122	1-162-282-31	CERAMIC 100PF 10% 50V	
R1004	1-247-834-11	CARBON 1.3K 5% 1/4W		C123	1-137-372-11	MYLAR 0.022uF 5.00% 50V	
R1005	1-247-818-91	CARBON 300 5% 1/4W		C124	1-126-963-11	ELECT 4.7uF 20.00% 50V	
		< SWITCH >		C125	1-162-289-31	CERAMIC 390PF 10.00% 50V	
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)(PLAY SW)		C126	1-162-282-31	CERAMIC 100PF 10% 50V	
S1005	1-771-205-11	SWITCH, LEAF (REC A SIDE)		C127	1-137-372-11	MYLAR 0.022uF 5.00% 50V	
S1006	1-771-333-11	SWITCH, LEAF (HALF)		C128	1-126-963-11	ELECT 4.7uF 20.00% 50V	
S1007	1-771-205-11	SWITCH, LEAF (B METAL)		C131	1-162-288-31	CERAMIC 330PF 10% 50V	
S1008	1-771-205-11	SWITCH, LEAF (REC B SIDE)		Δ C132	1-107-609-11	CERAMIC 75PF 5.00% 500V	
S1009	1-771-205-11	SWITCH, LEAF *****		C133	1-130-472-00	MYLAR 0.0012uF 5% 50V	
				C134	1-102-973-00	CERAMIC 100PF 5% 50V	
	A-2007-866-A	MAIN BOARD, COMPLETE (US,CND,SP,AUS)		C135	1-136-356-11	FILM 470PF 5.00% 100V	
	A-2007-869-A	MAIN BOARD, COMPLETE (AEP,UK) *****		C136	1-137-374-11	MYLAR 0.047uF 5.00% 50V	
		< CAPACITOR >		C137	1-161-494-00	CERAMIC 0.022uF 25V	
C101	1-162-284-31	CERAMIC 150PF 10.00% 50V		C138	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C102	1-126-961-11	ELECT 2.2uF 20.00% 50V		C141	1-162-288-31	CERAMIC 330PF 10% 50V	
C103	1-162-600-11	CERAMIC 0.0047uF 30.00% 16V		Δ C142	1-107-609-11	CERAMIC 75PF 5.00% 500V	
				C143	1-130-472-00	MYLAR 0.0012uF 5% 50V	
				C144	1-102-973-00	CERAMIC 100PF 5% 50V	
				C145	1-136-356-11	FILM 470PF 5.00% 100V	
				C146	1-137-374-11	MYLAR 0.047uF 5.00% 50V	
				C147	1-161-494-00	CERAMIC 0.022uF 25V	
				C148	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
				C201	1-162-284-31	CERAMIC 150PF 10.00% 50V	
				C202	1-126-961-11	ELECT 2.2uF 20.00% 50V	
				C203	1-162-600-11	CERAMIC 0.0047uF 30.00% 16V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C204	1-126-963-11	ELECT	4.7uF	20.00%	50V	C441	1-136-293-11	FILM	0.0082uF	5.00%	100V
C205	1-162-302-11	CERAMIC	0.0022uF	20.00%	16V	C443	1-130-299-00	MYLAR	0.012uF	5.00%	50V
C206	1-126-963-11	ELECT	4.7uF	20.00%	50V						
C207	1-126-964-11	ELECT	10uF	20.00%	50V	C444	1-137-436-11	MYLAR	0.0039uF	5.00%	50V
C208	1-130-495-00	MYLAR	0.1uF	5%	50V	C445	1-137-436-11	MYLAR	0.0039uF	5.00%	50V
						C446	1-126-965-11	ELECT	22uF	20.00%	50V
C209	1-137-375-11	MYLAR	0.068uF	5.00%	50V	C451	1-126-964-11	ELECT	10uF	20.00%	50V
C210	1-126-964-11	ELECT	10uF	20.00%	50V	C501	1-126-964-11	ELECT	10uF	20.00%	50V
C211	1-126-959-11	ELECT	0.47uF	20.00%	50V						
C212	1-126-963-11	ELECT	4.7uF	20.00%	50V	C502	1-126-964-11	ELECT	10uF	20.00%	50V
C213	1-126-963-11	ELECT	4.7uF	20.00%	50V	C503	1-126-964-11	ELECT	10uF	20.00%	50V
						C505	1-126-960-11	ELECT	1uF	20.00%	50V
C214	1-126-961-11	ELECT	2.2uF	20.00%	50V	C506	1-130-497-00	MYLAR	0.15uF	5%	50V
C215	1-137-436-11	MYLAR	0.0039uF	5.00%	50V	C507	1-136-173-00	MYLAR	0.47uF	5.00%	50V
C216	1-126-959-11	ELECT	0.47uF	20.00%	50V						
C217	1-126-963-11	ELECT	4.7uF	20.00%	50V	C508	1-126-959-11	ELECT	0.47uF	20.00%	50V
C220	1-162-289-31	CERAMIC	390PF	10.00%	50V	C509	1-126-965-11	ELECT	22uF	20.00%	50V
						C510	1-126-960-11	ELECT	1uF	20.00%	50V
C221	1-162-294-31	CERAMIC	0.001uF	10%	50V	C511	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C222	1-162-282-31	CERAMIC	100PF	10%	50V	C521	1-137-457-11	MYLAR	0.0027uF	5.00%	50V
C223	1-137-372-11	MYLAR	0.022uF	5.00%	50V						
C224	1-126-963-11	ELECT	4.7uF	20.00%	50V	C522	1-130-494-11	MYLAR	0.082uF	5%	50V
C225	1-162-289-31	CERAMIC	390PF	10.00%	50V	C523	1-137-374-11	MYLAR	0.047uF	5.00%	50V
						C524	1-137-366-11	MYLAR	0.0022uF	5.00%	50V
C226	1-162-282-31	CERAMIC	100PF	10%	50V	C530	1-126-965-11	ELECT	22uF	20.00%	50V
C227	1-137-372-11	MYLAR	0.022uF	5.00%	50V	C561	1-136-168-00	MYLAR	0.18uF	5.00%	50V
C228	1-126-963-11	ELECT	4.7uF	20.00%	50V						
C231	1-162-288-31	CERAMIC	330PF	10%	50V	C562	1-137-150-11	MYLAR	0.01uF	5.00%	50V
△ C232	1-107-609-11	CERAMIC	75PF	5.00%	500V	C563	1-136-175-00	MYLAR	0.68uF	5.00%	50V
						C601	1-164-159-11	CERAMIC	0.1uF		50V
C233	1-130-472-00	MYLAR	0.0012uF	5%	50V	C701	1-128-547-11	ELECT	6800uF	20.00%	16V
C234	1-102-973-00	CERAMIC	100PF	5%	50V	C702	1-126-937-11	ELECT	4700uF	20.00%	16V
C235	1-136-356-11	FILM	470PF	5.00%	100V						
C236	1-137-374-11	MYLAR	0.047uF	5.00%	50V	C703	1-126-960-11	ELECT	1uF	20.00%	50V
C237	1-161-494-00	CERAMIC	0.022uF		25V	C704	1-126-969-11	ELECT	220uF	20.00%	50V
						C705	1-126-963-11	ELECT	4.7uF	20.00%	50V
C238	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	C706	1-126-926-11	ELECT	1000uF	20.00%	10V
C241	1-162-288-31	CERAMIC	330PF	10%	50V	C707	1-126-926-11	ELECT	1000uF	20.00%	10V
△ C242	1-107-609-11	CERAMIC	75PF	5.00%	500V						
C243	1-130-472-00	MYLAR	0.0012uF	5%	50V	C708	1-126-963-11	ELECT	4.7uF	20.00%	50V
C244	1-102-973-00	CERAMIC	100PF	5%	50V	C710	1-126-935-11	ELECT	470uF	20.00%	6.3V
						C711	1-126-947-11	ELECT	47uF	20.00%	35V
C245	1-136-356-11	FILM	470PF	5.00%	100V	C801	1-104-665-11	ELECT	100uF	20.00%	10V
C246	1-137-374-11	MYLAR	0.047uF	5.00%	50V	C802	1-161-494-00	CERAMIC	0.022uF		25V
C247	1-161-494-00	CERAMIC	0.022uF		25V						
C248	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	C803	1-126-959-11	ELECT	0.47uF	20.00%	50V
C321	1-104-664-11	ELECT	47uF	20.00%	25V	C810	1-161-494-00	CERAMIC	0.022uF		25V
						C811	1-164-159-11	CERAMIC	0.1uF		50V
C322	1-104-664-11	ELECT	47uF	20.00%	25V	C830	1-161-494-00	CERAMIC	0.022uF		25V
C331	1-104-664-11	ELECT	47uF	20.00%	25V	C831	1-161-494-00	CERAMIC	0.022uF		25V
△ C332	1-107-584-11	CERAMIC	4PF	0.25PF	500V						
C333	1-126-965-11	ELECT	22uF	20.00%	50V	C834	1-161-494-00	CERAMIC	0.022uF		25V
C334	1-126-959-11	ELECT	0.47uF	20.00%	50V	C836	1-161-494-00	CERAMIC	0.022uF		25V
C341	1-136-293-11	FILM	0.0082uF	5.00%	100V	< CONNECTOR >					
C343	1-130-299-00	MYLAR	0.012uF	5.00%	50V	CN301	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
C344	1-137-436-11	MYLAR	0.0039uF	5.00%	50V	CN311	1-784-774-11	CONNECTOR, FFC 13P			
C345	1-137-436-11	MYLAR	0.0039uF	5.00%	50V	CN401	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
C346	1-126-965-11	ELECT	22uF	20.00%	50V	CN411	1-784-774-11	CONNECTOR, FFC 13P			
						* CN803	1-568-934-11	PIN, CONNECTOR 7P			
C351	1-126-964-11	ELECT	10uF	20.00%	50V						
C417	1-126-959-11	ELECT	0.47uF	20.00%	50V	* CN807	1-568-954-11	PIN, CONNECTOR 5P			
C421	1-104-664-11	ELECT	47uF	20.00%	25V	CNA806	1-506-468-11	PIN, CONNECTOR 3P			
C422	1-104-664-11	ELECT	47uF	20.00%	25V	CNM701	1-691-769-11	PLUG (MICRO CONNECTOR) 7P			
C431	1-104-664-11	ELECT	47uF	20.00%	25V	CNS802	1-568-830-11	CONNECTOR, FFC 11P			
△ C432	1-107-584-11	CERAMIC	4PF	0.25PF	500V						
C433	1-126-965-11	ELECT	22uF	20.00%	50V						
C434	1-126-959-11	ELECT	0.47uF	20.00%	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.

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< DIODE >				< FILTER >			
D306	8-719-911-19	DIODE 1SS119-25		LPF101	1-233-271-11	FILTER, LOW PASS	
D307	8-719-911-19	DIODE 1SS119-25		LPF201	1-233-271-11	FILTER, LOW PASS	
D318	8-719-911-19	DIODE 1SS119-25		< TRANSISTOR >			
D351	8-719-911-19	DIODE 1SS119-25		Q101	8-729-029-94	TRANSISTOR	DTC143TSA
D451	8-719-911-19	DIODE 1SS119-25		Q102	8-729-142-25	TRANSISTOR	2SD1020-HFE
D521	8-719-911-19	DIODE 1SS119-25		Q103	8-729-030-02	TRANSISTOR	DTC144ESA
D522	8-719-911-19	DIODE 1SS119-25		Q104	8-729-030-02	TRANSISTOR	DTC144ESA
D601	8-719-911-19	DIODE 1SS119-25		Q201	8-729-029-94	TRANSISTOR	DTC143TSA
D701	8-719-024-99	DIODE 11ES2-NTA2B		Q202	8-729-142-25	TRANSISTOR	2SD1020-HFE
D702	8-719-024-99	DIODE 11ES2-NTA2B		Q203	8-729-030-02	TRANSISTOR	DTC144ESA
D703	8-719-024-99	DIODE 11ES2-NTA2B		Q204	8-729-030-02	TRANSISTOR	DTC144ESA
D704	8-719-024-99	DIODE 11ES2-NTA2B		Q302	8-729-801-93	TRANSISTOR	2SD1387-3
D705	8-719-911-19	DIODE 1SS119-25		Q303	8-729-030-02	TRANSISTOR	DTC144ESA
D706	8-719-911-19	DIODE 1SS119-25		Q306	8-729-030-02	TRANSISTOR	DTC144ESA
D707	8-719-024-99	DIODE 11ES2-NTA2B		Q307	8-729-030-02	TRANSISTOR	DTC144ESA
D708	8-719-911-19	DIODE 1SS119-25		Q308	8-729-030-02	TRANSISTOR	DTC144ESA
D709	8-719-933-33	DIODE HZS6A1L		Q311	8-729-801-84	TRANSISTOR	2SB1013-4
D710	8-719-933-35	DIODE HZS6A3L		Q314	8-729-030-02	TRANSISTOR	DTC144ESA
D711	8-719-933-33	DIODE HZS6A1L		Q316	8-729-029-56	TRANSISTOR	DTA144ESA
D712	8-719-933-35	DIODE HZS6A3L		Q317	8-729-029-56	TRANSISTOR	DTA144ESA
D713	8-719-911-19	DIODE 1SS119-25		Q318	8-729-029-56	TRANSISTOR	DTA144ESA
D714	8-719-911-19	DIODE 1SS119-25		Q341	8-729-119-76	TRANSISTOR	2SA1175-HFE
D715	8-719-911-19	DIODE 1SS119-25		Q342	8-729-194-57	TRANSISTOR	2SC945-P
D716	8-719-985-95	DIODE HZS7A2LTA		Q343	8-729-194-57	TRANSISTOR	2SC945-P
D801	8-719-911-19	DIODE 1SS119-25		Q351	8-729-119-76	TRANSISTOR	2SA1175-HFE
< IC >				Q371	8-729-140-04	TRANSISTOR	2SB1116A-L
IC321	8-759-710-59	IC NJM4580D-D		Q373	8-729-030-02	TRANSISTOR	DTC144ESA
IC331	8-759-106-56	IC uPC1297CA		Q402	8-729-801-93	TRANSISTOR	2SD1387-3
IC421	8-759-710-59	IC NJM4580D-D		Q403	8-729-030-02	TRANSISTOR	DTC144ESA
IC431	8-759-106-56	IC uPC1297CA		Q411	8-729-801-84	TRANSISTOR	2SB1013-4
IC501	8-752-075-27	IC CXA1878Q		Q414	8-729-030-02	TRANSISTOR	DTC144ESA
IC502	8-759-694-61	IC NJM4565L		Q417	8-729-029-56	TRANSISTOR	DTA144ESA
IC504	8-752-070-67	IC CXA1597P		Q441	8-729-119-76	TRANSISTOR	2SA1175-HFE
IC561	8-759-694-61	IC NJM4565L		Q442	8-729-194-57	TRANSISTOR	2SC945-P
IC701	8-759-634-51	IC NJM4558D		Q443	8-729-194-57	TRANSISTOR	2SC945-P
IC801	8-752-902-28	IC CXP82432A-007Q		Q451	8-729-119-76	TRANSISTOR	2SA1175-HFE
IC802	8-759-165-82	IC PST600E-T		Q471	8-729-140-04	TRANSISTOR	2SB1116A-L
IC803	8-759-916-14	IC MC74HC04AN		Q473	8-729-030-02	TRANSISTOR	DTC144ESA
IC804	8-759-000-48	IC MC14052BCP		Q501	8-729-119-76	TRANSISTOR	2SA1175-HFE
IC805	8-759-916-14	IC MC74HC04AN		Q502	8-729-620-05	TRANSISTOR	2SC2603-EF
IC806	8-759-000-48	IC MC14052BCP		Q503	8-729-620-05	TRANSISTOR	2SC2603-EF
< JACK >				Q505	8-729-029-94	TRANSISTOR	DTC143TSA
J501	1-770-614-11	JACK, PIN 4P		Q506	8-729-029-94	TRANSISTOR	DTC143TSA
* J601	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5)	(S-LINK CONTROL A1)	Q601	8-729-620-05	TRANSISTOR	2SC2603-EF
* J602	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5)	(S-LINK CONTROL A1)	Q701	8-729-141-83	TRANSISTOR	2SB1094-LK
< COIL >				Q702	8-729-209-15	TRANSISTOR	2SD2012
L131	1-410-780-11	INDUCTOR	27MH	Q703	8-729-141-83	TRANSISTOR	2SB1094-LK
L141	1-410-780-11	INDUCTOR	27MH	Q704	8-729-620-05	TRANSISTOR	2SC2603-EF
L231	1-410-780-11	INDUCTOR	27MH	Q707	8-729-119-76	TRANSISTOR	2SA1175-HFE
L241	1-410-780-11	INDUCTOR	27MH	Q708	8-729-140-04	TRANSISTOR	2SB1116A-L
< RESISTOR >				Q801	8-729-029-66	TRANSISTOR	DTC114ESA
R101	1-249-429-11	CARBON	10K 5% 1/4W				

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R102	1-247-887-00	CARBON	220K	5%	1/4W	R217	1-249-429-11	CARBON	10K	5%	1/4W
R103	1-249-441-11	CARBON	100K	5%	1/4W	R218	1-249-409-11	CARBON	220	5%	1/4W F
R104	1-249-420-11	CARBON	1.8K	5%	1/4W F	R219	1-249-417-11	CARBON	1K	5%	1/4W F
R105	1-247-843-11	CARBON	3.3K	5%	1/4W	R220	1-249-439-11	CARBON	68K	5%	1/4W
R106	1-247-842-11	CARBON	3K	5%	1/4W	R221	1-247-881-00	CARBON	120K	5%	1/4W
R107	1-249-417-11	CARBON	1K	5%	1/4W F	R222	1-247-807-31	CARBON	100	5%	1/4W
R108	1-249-427-11	CARBON	6.8K	5%	1/4W F	R223	1-247-882-11	CARBON	130K	5%	1/4W
R109	1-249-429-11	CARBON	10K	5%	1/4W	R224	1-247-850-11	CARBON	6.2K	5%	1/4W
R110	1-249-425-11	CARBON	4.7K	5%	1/4W F	R225	1-249-440-11	CARBON	82K	5%	1/4W
R111	1-247-881-00	CARBON	120K	5%	1/4W	R226	1-249-421-11	CARBON	2.2K	5%	1/4W F
R112	1-247-807-31	CARBON	100	5%	1/4W	R227	1-249-430-11	CARBON	12K	5%	1/4W
R113	1-247-882-11	CARBON	130K	5%	1/4W	R228	1-249-417-11	CARBON	1K	5%	1/4W F
R114	1-247-850-11	CARBON	6.2K	5%	1/4W	R229	1-249-421-11	CARBON	2.2K	5%	1/4W F
R115	1-249-433-11	CARBON	22K	5%	1/4W	R230	1-249-434-11	CARBON	27K	5%	1/4W
R116	1-247-843-11	CARBON	3.3K	5%	1/4W	R231	1-249-430-11	CARBON	12K	5%	1/4W
R117	1-249-429-11	CARBON	10K	5%	1/4W	R232	1-247-883-00	CARBON	150K	5%	1/4W
R118	1-249-409-11	CARBON	220	5%	1/4W F	△ R233	1-219-153-11	FUSIBLE	10	5%	1/4W
R119	1-249-417-11	CARBON	1K	5%	1/4W F	R234	1-249-435-11	CARBON	33K	5%	1/4W
R120	1-249-439-11	CARBON	68K	5%	1/4W	R235	1-249-431-11	CARBON	15K	5%	1/4W
R121	1-247-881-00	CARBON	120K	5%	1/4W	R241	1-249-430-11	CARBON	12K	5%	1/4W
R122	1-247-807-31	CARBON	100	5%	1/4W	R242	1-247-883-00	CARBON	150K	5%	1/4W
R123	1-247-882-11	CARBON	130K	5%	1/4W	△ R243	1-219-153-11	FUSIBLE	10	5%	1/4W
R124	1-247-850-11	CARBON	6.2K	5%	1/4W	R244	1-249-435-11	CARBON	33K	5%	1/4W
R125	1-249-440-11	CARBON	82K	5%	1/4W	R245	1-249-431-11	CARBON	15K	5%	1/4W
R126	1-249-421-11	CARBON	2.2K	5%	1/4W F	R251	1-249-437-11	CARBON	47K	5%	1/4W
R127	1-249-430-11	CARBON	12K	5%	1/4W	R252	1-249-433-11	CARBON	22K	5%	1/4W
R128	1-249-417-11	CARBON	1K	5%	1/4W F	R253	1-249-427-11	CARBON	6.8K	5%	1/4W F
R129	1-249-421-11	CARBON	2.2K	5%	1/4W F	R301	1-249-437-11	CARBON	47K	5%	1/4W
R130	1-249-434-11	CARBON	27K	5%	1/4W	R302	1-249-414-11	CARBON	560	5%	1/4W F
R131	1-249-430-11	CARBON	12K	5%	1/4W	R303	1-249-437-11	CARBON	47K	5%	1/4W
R132	1-247-883-00	CARBON	150K	5%	1/4W	R304	1-249-419-11	CARBON	1.5K	5%	1/4W F
△ R133	1-219-153-11	FUSIBLE	10	5%	1/4W	R306	1-249-433-11	CARBON	22K	5%	1/4W
R134	1-249-435-11	CARBON	33K	5%	1/4W	R309	1-249-433-11	CARBON	22K	5%	1/4W
R135	1-249-431-11	CARBON	15K	5%	1/4W	R311	1-249-437-11	CARBON	47K	5%	1/4W
R141	1-249-430-11	CARBON	12K	5%	1/4W	R312	1-249-419-11	CARBON	1.5K	5%	1/4W F
R142	1-247-883-00	CARBON	150K	5%	1/4W	R313	1-249-414-11	CARBON	560	5%	1/4W F
△ R143	1-219-153-11	FUSIBLE	10	5%	1/4W	R314	1-249-437-11	CARBON	47K	5%	1/4W
R144	1-249-435-11	CARBON	33K	5%	1/4W	R316	1-249-434-11	CARBON	27K	5%	1/4W
R145	1-249-431-11	CARBON	15K	5%	1/4W	R317	1-249-433-11	CARBON	22K	5%	1/4W
R151	1-249-437-11	CARBON	47K	5%	1/4W	R318	1-249-426-11	CARBON	5.6K	5%	1/4W
R152	1-249-433-11	CARBON	22K	5%	1/4W	R341	1-249-429-11	CARBON	10K	5%	1/4W
R153	1-249-427-11	CARBON	6.8K	5%	1/4W F	R342	1-249-429-11	CARBON	10K	5%	1/4W
R201	1-249-429-11	CARBON	10K	5%	1/4W	R343	1-249-390-11	CARBON	5.6	5%	1/4W F
R202	1-247-887-00	CARBON	220K	5%	1/4W	R344	1-249-390-11	CARBON	5.6	5%	1/4W F
R203	1-249-441-11	CARBON	100K	5%	1/4W	R345	1-249-440-11	CARBON	82K	5%	1/4W
R204	1-249-420-11	CARBON	1.8K	5%	1/4W F	R346	1-249-440-11	CARBON	82K	5%	1/4W
R205	1-247-843-11	CARBON	3.3K	5%	1/4W	R351	1-249-429-11	CARBON	10K	5%	1/4W
R206	1-247-842-11	CARBON	3K	5%	1/4W	R352	1-249-425-11	CARBON	4.7K	5%	1/4W F
R207	1-249-417-11	CARBON	1K	5%	1/4W F	R361	1-247-876-11	CARBON	75K	5%	1/4W
R208	1-249-427-11	CARBON	6.8K	5%	1/4W F	R362	1-249-417-11	CARBON	1K	5%	1/4W F
R209	1-249-429-11	CARBON	10K	5%	1/4W	R363	1-249-425-11	CARBON	4.7K	5%	1/4W F
R210	1-249-425-11	CARBON	4.7K	5%	1/4W F	R364	1-249-425-11	CARBON	4.7K	5%	1/4W F
R211	1-247-881-00	CARBON	120K	5%	1/4W	R371	1-249-417-11	CARBON	1K	5%	1/4W F
R212	1-247-807-31	CARBON	100	5%	1/4W	R372	1-249-429-11	CARBON	10K	5%	1/4W
R213	1-247-882-11	CARBON	130K	5%	1/4W	R401	1-249-437-11	CARBON	47K	5%	1/4W
R214	1-247-850-11	CARBON	6.2K	5%	1/4W	R402	1-249-414-11	CARBON	560	5%	1/4W F
R215	1-249-433-11	CARBON	22K	5%	1/4W						
R216	1-247-843-11	CARBON	3.3K	5%	1/4W						

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MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R403	1-249-437-11	CARBON	47K	5%	1/4W	R577	1-249-428-11	CARBON	8.2K	5%	1/4W F
R404	1-249-419-11	CARBON	1.5K	5%	1/4W F	R578	1-249-428-11	CARBON	8.2K	5%	1/4W F
R411	1-249-437-11	CARBON	47K	5%	1/4W						
R412	1-249-419-11	CARBON	1.5K	5%	1/4W F	R579	1-249-426-11	CARBON	5.6K	5%	1/4W
R413	1-249-414-11	CARBON	560	5%	1/4W F	R580	1-249-422-11	CARBON	2.7K	5%	1/4W F
						R581	1-249-425-11	CARBON	4.7K	5%	1/4W F
R414	1-249-437-11	CARBON	47K	5%	1/4W	R582	1-249-425-11	CARBON	4.7K	5%	1/4W F
R416	1-249-434-11	CARBON	27K	5%	1/4W	R583	1-247-852-11	CARBON	7.5K	5%	1/4W
R417	1-249-433-11	CARBON	22K	5%	1/4W						
R441	1-249-429-11	CARBON	10K	5%	1/4W	R584	1-249-430-11	CARBON	12K	5%	1/4W
R442	1-249-429-11	CARBON	10K	5%	1/4W	R585	1-249-428-11	CARBON	8.2K	5%	1/4W F
						R586	1-249-428-11	CARBON	8.2K	5%	1/4W F
R443	1-249-390-11	CARBON	5.6	5%	1/4W F	R587	1-249-422-11	CARBON	2.7K	5%	1/4W F
R444	1-249-390-11	CARBON	5.6	5%	1/4W F	R588	1-249-426-11	CARBON	5.6K	5%	1/4W
R445	1-249-440-11	CARBON	82K	5%	1/4W						
R446	1-249-440-11	CARBON	82K	5%	1/4W	R601	1-249-429-11	CARBON	10K	5%	1/4W
R451	1-249-429-11	CARBON	10K	5%	1/4W	R602	1-249-417-11	CARBON	1K	5%	1/4W F
						R603	1-249-425-11	CARBON	4.7K	5%	1/4W F
R452	1-249-425-11	CARBON	4.7K	5%	1/4W F	R604	1-249-429-11	CARBON	10K	5%	1/4W
R461	1-247-876-11	CARBON	75K	5%	1/4W	R605	1-249-393-11	CARBON	10	5%	1/4W F
R462	1-249-417-11	CARBON	1K	5%	1/4W F						
R463	1-249-425-11	CARBON	4.7K	5%	1/4W F	R701	1-249-414-11	CARBON	560	5%	1/4W F
R464	1-249-425-11	CARBON	4.7K	5%	1/4W F	R703	1-247-843-11	CARBON	3.3K	5%	1/4W
						R704	1-249-425-11	CARBON	4.7K	5%	1/4W F
R471	1-249-417-11	CARBON	1K	5%	1/4W F	R705	1-249-427-11	CARBON	6.8K	5%	1/4W F
R472	1-249-429-11	CARBON	10K	5%	1/4W	R706	1-249-419-11	CARBON	1.5K	5%	1/4W F
R501	1-215-455-00	METAL	27K	1%	1/4W						
R502	1-215-452-00	METAL	20K	1%	1/4W	R707	1-247-854-11	CARBON	9.1K	5%	1/4W
R503	1-249-417-11	CARBON	1K	5%	1/4W F	R708	1-249-419-11	CARBON	1.5K	5%	1/4W F
						R709	1-249-425-11	CARBON	4.7K	5%	1/4W F
R504	1-249-422-11	CARBON	2.7K	5%	1/4W F	R710	1-249-417-11	CARBON	1K	5%	1/4W F
R505	1-247-903-00	CARBON	1M	5%	1/4W	R711	1-249-427-11	CARBON	6.8K	5%	1/4W F
R506	1-249-429-11	CARBON	10K	5%	1/4W						
R507	1-249-429-11	CARBON	10K	5%	1/4W	R712	1-249-427-11	CARBON	6.8K	5%	1/4W F
R508	1-249-413-11	CARBON	470	5%	1/4W F	R713	1-249-417-11	CARBON	1K	5%	1/4W F
						R714	1-249-429-11	CARBON	10K	5%	1/4W
R509	1-249-417-11	CARBON	1K	5%	1/4W F	R715	1-249-422-11	CARBON	2.7K	5%	1/4W F
R510	1-249-437-11	CARBON	47K	5%	1/4W	R716	1-249-433-11	CARBON	22K	5%	1/4W
R511	1-249-429-11	CARBON	10K	5%	1/4W						
R512	1-249-413-11	CARBON	470	5%	1/4W F	R717	1-249-421-11	CARBON	2.2K	5%	1/4W F
R513	1-249-437-11	CARBON	47K	5%	1/4W	R718	1-249-429-11	CARBON	10K	5%	1/4W
						R719	1-249-430-11	CARBON	12K	5%	1/4W
R514	1-249-401-11	CARBON	47	5%	1/4W F	△ R720	1-219-136-11	FUSIBLE	0.22	10%	1/4W
R515	1-215-455-00	METAL	27K	1%	1/4W	△ R722	1-219-137-11	FUSIBLE	0.33	10%	1/4W
R516	1-249-401-11	CARBON	47	5%	1/4W F						
R521	1-249-433-11	CARBON	22K	5%	1/4W	△ R723	1-219-137-11	FUSIBLE	0.33	10%	1/4W
R522	1-249-426-11	CARBON	5.6K	5%	1/4W	R801	1-249-417-11	CARBON	1K	5%	1/4W F
						R803	1-249-429-11	CARBON	10K	5%	1/4W
R523	1-249-436-11	CARBON	39K	5%	1/4W	R804	1-249-429-11	CARBON	10K	5%	1/4W
R524	1-249-425-11	CARBON	4.7K	5%	1/4W F	R805	1-247-807-31	CARBON	100	5%	1/4W
R525	1-249-425-11	CARBON	4.7K	5%	1/4W F						
R526	1-249-441-11	CARBON	100K	5%	1/4W	R806	1-249-433-11	CARBON	22K	5%	1/4W
R527	1-249-441-11	CARBON	100K	5%	1/4W	R807	1-249-441-11	CARBON	100K	5%	1/4W
						R808	1-249-441-11	CARBON	100K	5%	1/4W
R528	1-249-424-11	CARBON	3.9K	5%	1/4W F	R809	1-249-417-11	CARBON	1K	5%	1/4W F
R529	1-249-413-11	CARBON	470	5%	1/4W F	R810	1-247-807-31	CARBON	100	5%	1/4W
R530	1-249-429-11	CARBON	10K	5%	1/4W						
R561	1-249-437-11	CARBON	47K	5%	1/4W	R811	1-249-429-11	CARBON	10K	5%	1/4W
R562	1-249-437-11	CARBON	47K	5%	1/4W	R812	1-249-429-11	CARBON	10K	5%	1/4W
						R813	1-247-807-31	CARBON	100	5%	1/4W
R563	1-249-437-11	CARBON	47K	5%	1/4W	R830	1-247-807-31	CARBON	100	5%	1/4W
R564	1-249-431-11	CARBON	15K	5%	1/4W	R831	1-249-431-11	CARBON	15K	5%	1/4W
R565	1-249-429-11	CARBON	10K	5%	1/4W						
R571	1-249-418-11	CARBON	1.2K	5%	1/4W F	R832	1-249-429-11	CARBON	10K	5%	1/4W
R572	1-249-426-11	CARBON	5.6K	5%	1/4W	R833	1-249-421-11	CARBON	2.2K	5%	1/4W F
						R834	1-247-852-11	CARBON	7.5K	5%	1/4W
R573	1-249-427-11	CARBON	6.8K	5%	1/4W F	R835	1-247-866-11	CARBON	30K	5%	1/4W
R575	1-247-852-11	CARBON	7.5K	5%	1/4W	R836	1-247-874-11	CARBON	62K	5%	1/4W
R576	1-249-430-11	CARBON	12K	5%	1/4W						

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MAIN

PANEL

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark			
R837	1-249-434-11	CARBON	27K	5%	1/4W	T341	1-429-222-11	TRANSFORMER, BIAS OSCILLATION				
R838	1-249-434-11	CARBON	27K	5%	1/4W							
R839	1-249-434-11	CARBON	27K	5%	1/4W	T441	1-429-222-11	TRANSFORMER, BIAS OSCILLATION				
R840	1-249-434-11	CARBON	27K	5%	1/4W							
R841	1-249-429-11	CARBON	10K	5%	1/4W			< TEST PIN >				
R842	1-249-429-11	CARBON	10K	5%	1/4W	TP331	1-766-276-11	PIN, CONNECTOR (PC BOARD) 3P				
R843	1-249-429-11	CARBON	10K	5%	1/4W	TP441	1-766-276-11	PIN, CONNECTOR (PC BOARD) 3P				
R844	1-249-429-11	CARBON	10K	5%	1/4W							
R845	1-249-431-11	CARBON	15K	5%	1/4W			< VIBRATOR >				
R846	1-249-430-11	CARBON	12K	5%	1/4W							
R847	1-247-864-11	CARBON	24K	5%	1/4W	X801	1-579-175-11	VIBRATOR, CERAMIC (10MHz)				
R849	1-249-424-11	CARBON	3.9K	5%	1/4W	*****						
R853	1-249-421-11	CARBON	2.2K	5%	1/4W		A-2007-867-A	PANEL BOARD, COMPLETE (US,CND)				
R854	1-247-852-11	CARBON	7.5K	5%	1/4W		A-2007-868-A	PANEL BOARD, COMPLETE (AUS)				
R855	1-247-866-11	CARBON	30K	5%	1/4W		A-2007-870-A	PANEL BOARD, COMPLETE (AEP,UK)				
							A-2007-871-A	PANEL BOARD, COMPLETE (SP)				
R856	1-247-874-11	CARBON	62K	5%	1/4W		*****					
R857	1-249-431-11	CARBON	15K	5%	1/4W		(TRANS (A), TRANS (B), DIRECTION, H.P, POWER, RECVOL BOARD are included.)					
R858	1-249-434-11	CARBON	27K	5%	1/4W							
R859	1-249-434-11	CARBON	27K	5%	1/4W							
R860	1-249-434-11	CARBON	27K	5%	1/4W			< CAPACITOR >				
R861	1-249-434-11	CARBON	27K	5%	1/4W	△C001	1-113-925-11	CERAMIC	0.01uF	20.00%	250V	
R863	1-249-429-11	CARBON	10K	5%	1/4W	C517	1-162-294-31	CERAMIC	0.001uF	10%	50V	
R864	1-249-429-11	CARBON	10K	5%	1/4W	C518	1-162-294-31	CERAMIC	0.001uF	10%	50V	
R865	1-249-429-11	CARBON	10K	5%	1/4W	C751	1-164-159-11	CERAMIC	0.1uF		50V	
R866	1-249-430-11	CARBON	12K	5%	1/4W	C752	1-137-374-11	MYLAR	0.047uF	5.00%	50V	
R867	1-247-864-11	CARBON	24K	5%	1/4W	C753	1-137-374-11	MYLAR	0.047uF	5.00%	50V	
R868	1-249-429-11	CARBON	10K	5%	1/4W	C901	1-104-665-11	ELECT	100uF	20.00%	10V	
R869	1-249-424-11	CARBON	3.9K	5%	1/4W	C902	1-161-494-00	CERAMIC	0.022uF		25V	
						C903	1-162-207-31	CERAMIC	22PF	5%	50V	
						C904	1-126-960-11	ELECT	1uF	20.00%	50V	
		< VARIABLE RESISTOR >										
RV101	1-241-765-11	RES, ADJ, CARBON 22K										
RV102	1-241-765-11	RES, ADJ, CARBON 22K										
RV111	1-241-764-11	RES, ADJ, CARBON 10K										
RV121	1-241-764-11	RES, ADJ, CARBON 10K										
RV131	1-241-765-11	RES, ADJ, CARBON 22K										
RV141	1-241-765-11	RES, ADJ, CARBON 22K										
RV201	1-241-765-11	RES, ADJ, CARBON 22K										
RV202	1-241-765-11	RES, ADJ, CARBON 22K										
RV211	1-241-764-11	RES, ADJ, CARBON 10K										
RV221	1-241-764-11	RES, ADJ, CARBON 10K										
RV231	1-241-765-11	RES, ADJ, CARBON 22K										
RV241	1-241-765-11	RES, ADJ, CARBON 22K										
RV316	1-241-764-11	RES, ADJ, CARBON 10K										
RV317	1-241-765-11	RES, ADJ, CARBON 22K										
RV318	1-241-764-11	RES, ADJ, CARBON 10K										
RV416	1-241-764-11	RES, ADJ, CARBON 10K										
RV417	1-241-765-11	RES, ADJ, CARBON 22K										
		< RELAY >										
RY351	1-755-061-11	RELAY										
RY451	1-755-061-11	RELAY										
		< TRANSFORMER >										
T131	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR										
T141	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR										
T231	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR										
T241	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR										

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PANEL

Ref. No.	Part No.	Description	Remark			
< TRANSISTOR >						
Q901	8-729-029-94	TRANSISTOR	DTC143TSA			
< RESISTOR >						
R901	1-249-413-11	CARBON	470	5%	1/4W	F
R902	1-249-413-11	CARBON	470	5%	1/4W	F
R904	1-247-807-31	CARBON	100	5%	1/4W	
R905	1-249-441-11	CARBON	100K	5%	1/4W	
R906	1-247-807-31	CARBON	100	5%	1/4W	
R911	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R912	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R913	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R914	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R915	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R916	1-249-431-11	CARBON	15K	5%	1/4W	
R917	1-249-437-11	CARBON	47K	5%	1/4W	
R921	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R922	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R923	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R924	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R925	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R926	1-249-431-11	CARBON	15K	5%	1/4W	
R927	1-249-437-11	CARBON	47K	5%	1/4W	
R931	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R932	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R933	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R934	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R935	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R936	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R937	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R941	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R942	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R943	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R944	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R945	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R951	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R952	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R953	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R955	1-249-429-11	CARBON	10K	5%	1/4W	
R956	1-249-429-11	CARBON	10K	5%	1/4W	
R957	1-249-429-11	CARBON	10K	5%	1/4W	
R958	1-249-437-11	CARBON	47K	5%	1/4W	
R960	1-249-429-11	CARBON	10K	5%	1/4W	
R961	1-249-429-11	CARBON	10K	5%	1/4W	
R962	1-249-441-11	CARBON	100K	5%	1/4W	
< VARIABLE RESISTOR >						
RV901	1-225-707-11	RES, VAR, CARBON 20K				
RV902	1-225-619-11	RES, VAR, CARBON 10K				
< SWITCH >						
△S850	1-762-581-11	SWITCH, AC POWER PUSH (1 KEY)(POWER)				
S911	1-771-349-21	SWITCH, KEYBOARD (□ (CLEAR))(A DECK))				
S912	1-771-349-21	SWITCH, KEYBOARD (■ (A DECK))				
S913	1-771-349-21	SWITCH, KEYBOARD (▷ (FRONT))(A DECK))				
S914	1-771-349-21	SWITCH, KEYBOARD (◁ (BACK))(A DECK))				

Ref. No.	Part No.	Description	Remark
S915	1-771-349-21	SWITCH, KEYBOARD (○REC MUTING (A DECK))	
S916	1-771-349-21	SWITCH, KEYBOARD (◁◁ (AMS))(B DECK))	
S917	1-771-349-21	SWITCH, KEYBOARD (▷▷ (AMS))(B DECK))	
S918	1-771-349-21	SWITCH, KEYBOARD (●REC (B DECK))	
S921	1-771-349-21	SWITCH, KEYBOARD (□ (B DECK))	
S922	1-771-349-21	SWITCH, KEYBOARD (■ (B DECK))	
S923	1-771-349-21	SWITCH, KEYBOARD (▷ (B DECK))	
S924	1-771-349-21	SWITCH, KEYBOARD (◁ (B DECK))	
S925	1-771-349-21	SWITCH, KEYBOARD (○REC MUTING (B DECK))	
S926	1-771-349-21	SWITCH, KEYBOARD (◁◁ (AMS) RMS - (A DECK))	
S927	1-771-349-21	SWITCH, KEYBOARD (▷▷ (AMS) RMS + (A DECK))	
S928	1-771-349-21	SWITCH, KEYBOARD (●REC (A DECK))	
S931	1-771-349-21	SWITCH, KEYBOARD (RESET (A DECK))	
S932	1-771-349-21	SWITCH, KEYBOARD (MEMORY (A DECK))	
S933	1-771-349-21	SWITCH, KEYBOARD (FADER)	
S934	1-771-349-21	SWITCH, KEYBOARD (ARL)	
S935	1-771-349-21	SWITCH, KEYBOARD (SYNCHRO)	
S936	1-786-127-11	SWITCH, SLIDE (DOLBY NR OFF-ON-MPX)	
S937	1-762-251-11	SWITCH, SLIDE (DOLBY NR B-C)	
S941	1-771-349-21	SWITCH, KEYBOARD (DISPLAY (RMS))	
S942	1-771-349-21	SWITCH, KEYBOARD (RMS START (RMS))	
S943	1-771-349-21	SWITCH, KEYBOARD (CHECK (RMS))	
S944	1-771-349-21	SWITCH, KEYBOARD (SET (RMS))	
S945	1-771-349-21	SWITCH, KEYBOARD (A+B REC (START (DECK B ■)))	
S946	1-771-349-21	SWITCH, KEYBOARD (DUBBING A+B, HIGH/ NORMAL (START (DECK B ■)))	
S947	1-762-609-11	SWITCH, SLIDE (DIRECTION ⇐/⇒/RELAY)	
S951	1-771-349-21	SWITCH, KEYBOARD (RESET (B DECK))	
S952	1-771-349-21	SWITCH, KEYBOARD (MEMORY (B DECK))	
S953	1-771-349-21	SWITCH, KEYBOARD (DECK A (AUTO CAL (START ■)))	
S954	1-771-349-21	SWITCH, KEYBOARD (DECK B (AUTO CAL (START ■)))	
S960	1-554-118-00	SWITCH, PUSH (1 KEY)(PITCH CON ON/OFF)	

MISCELLANEOUS			

51	1-696-656-11	WIRE (FLAT TYPE) (13 CORE)	
52	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)	
△ 53	1-575-651-21	CORD, POWER (SP)	
△ 53	1-751-535-11	CORD, POWER (UK)	
△ 53	1-777-107-11	CORD, POWER (AEP)	
△ 53	1-777-218-11	CORD, POWER (AUS)	
△ 53	1-783-531-51	CORD, POWER (US,CND)	
162	1-769-950-11	WIRE (FLAT TYPE) (11 CORE)	
△ T901	1-431-786-12	TRANSFORMER, POWER (AEP,UK,AUS)	
△ T901	1-431-788-12	TRANSFORMER, POWER (US,CND)	
△ T901	1-431-789-12	TRANSFORMER, POWER (SP)	

(PLUNGER SOLENOID is supplied as the Mechanism Deck (TCM-230ASR41B : A-2100-942-A)).

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.

Ref. No.	Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS			

	1-776-263-51	CORD, CONNECTION	
	1-777-241-11	CORD, CONNECTION (CONTROL A1II CABLE) (CND)	
	4-232-596-11	MANUAL, INSTRUCTION (ENGLISH)	
	4-232-596-21	MANUAL, INSTRUCTION (FRENCH,SPANISH) (CND,AEP,SP)	
	4-232-596-31	MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN,POLISH)(AEP)	
	4-232-596-71	MANUAL, INSTRUCTION (CHINESE)(SP)	

HARDWARE LIST			

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-851-09	SCREW +BVTT 2X4 (S)	
#4	7-685-852-04	SCREW +BVTT 2X5 (S)	
#5	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
#6	7-623-921-01	RING, RETAINING, CAPSTAN	
#7	7-628-254-05	SCREW +PS 2.6X5	

TC-WE675

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SERVICE MANUAL

Ver 1.3 2002.09

*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model*

SUPPLEMENT - 1

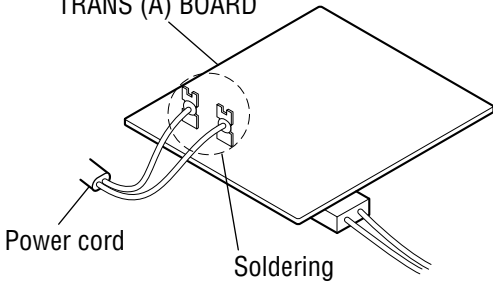
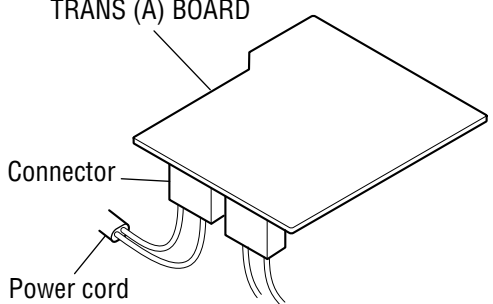
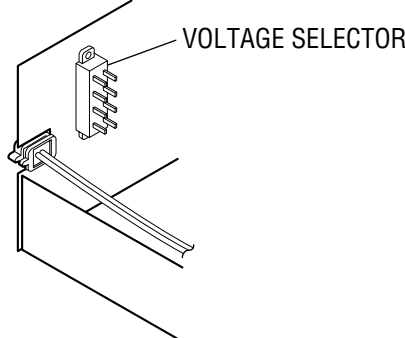
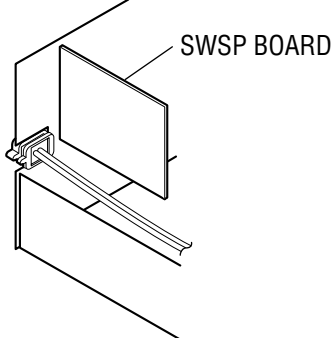
File this Supplement with the Service Manual.

Subject :

- CHANGE OF BOARDS
- EXPLODED VIEWS

NEW TYPE IDENTIFICATION

Printed wiring boards and exploded views has been changed.

	FORMER TYPE	NEW TYPE
Except SP model	TRANS (A) BOARD  Power cord Soldering	TRANS (A) BOARD  Connector Power cord
SP model	VOLTAGE SELECTOR 	SWSP BOARD 

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

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

• CHANGED ELECTRICAL PARTS LIST

MAIN (Service manual see page 32 to 36)

Ref.No.	FORMER TYPE	NEW TYPE
CN005 * CN006 CN007 $\triangle$ S1	A-2007-866-A MAIN BOARD, COMPLETE (US,CND,SP,AUS)	A-4729-991-A MAIN BOARD, COMPLETE (US,CND)
	A-2007-869-A MAIN BOARD, COMPLETE (AEP,UK)	A-4730-060-A MAIN BOARD, COMPLETE (AEP,UK)
	*****	A-4730-062-A MAIN BOARD, COMPLETE (AUS)
	_____	A-4730-063-A MAIN BOARD, COMPLETE (SP)
	_____	*****
	_____	SWSP BOARD (SP)
	_____	*****
	_____	1-564-321-00 PIN, CONNECTOR(3.96MM PITCH)2P (SP)
	_____	1-564-687-11 PIN, CONNECTOR(3.96MM PITCH)3P (SP)
	_____	1-568-106-11 PIN, CONNECTOR(3.96MM PITCH)4P (SP)
	_____	1-572-009-11 SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (SP)

PANEL (Service manual see page 37)

Ref.No.	FORMER TYPE	NEW TYPE
	A-2007-867-A PANEL BOARD, COMPLETE (US,CND)	A-4729-992-A PANEL BOARD, COMPLETE (US,CND,AUS)
	A-2007-868-A PANEL BOARD, COMPLETE (AUS)	A-4730-048-A PANEL BOARD, COMPLETE (SP)
	A-2007-870-A PANEL BOARD, COMPLETE (AEP,UK)	A-4730-058-A PANEL BOARD, COMPLETE (SILVER) (AEP,UK)
	A-2007-871-A PANEL BOARD, COMPLETE (SP)	*****

	(TRANS (A), TRANS (B), DIRECTION, H.P, POWER, RECVOL BOARD are included.)	(DIRECTION, H.P, POWER, REC, VOL BOARD are included.)

TRANS(A) (Service manual see page 37)

Ref.No.	FORMER TYPE	NEW TYPE
CN002 * CN003	(TRANS (A) board is included in PANEL board)	1-685-962-12 TRANS (A) BOARD (EXCEPT SP)

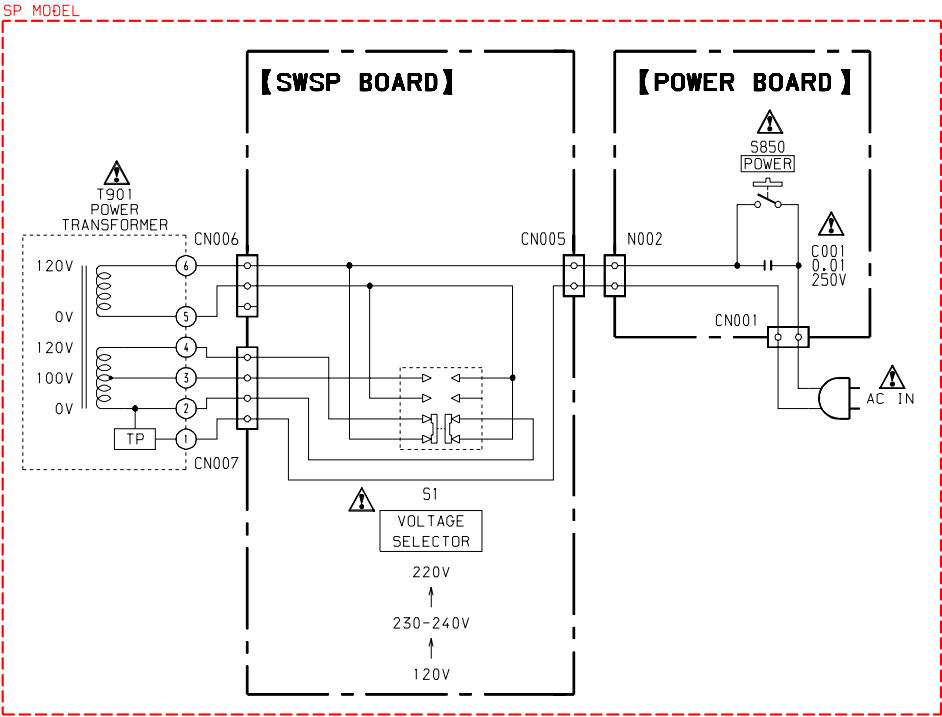
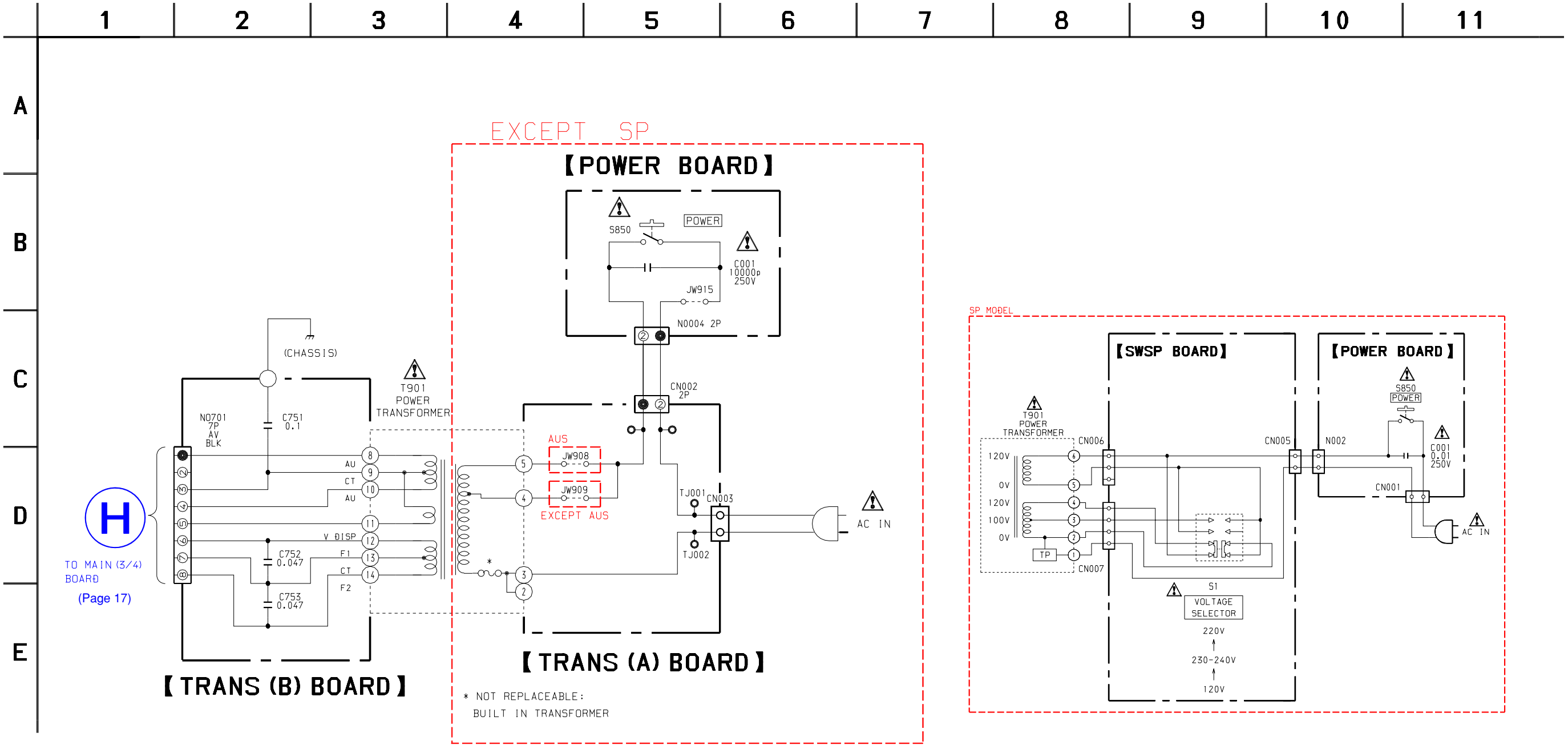
	*1-568-226-11 PIN, CONNECTOR 2P (EXCEPT SP)	1-564-321-00 PIN, CONNECTOR(3.96MM PITCH)2P (EXCEPT SP)
	_____	1-580-230-11 PIN, CONNECTOR (PC BOARD) 2P (EXCEPT SP)

TRANS(B) (Service manual see page 37)

Ref.No.	FORMER TYPE	NEW TYPE
	(TRANS (B) board is included in PANEL board)	1-685-963-12 TRANS (B) BOARD

SCHEMATIC DIAGRAM – POWER SECTION –

New Type



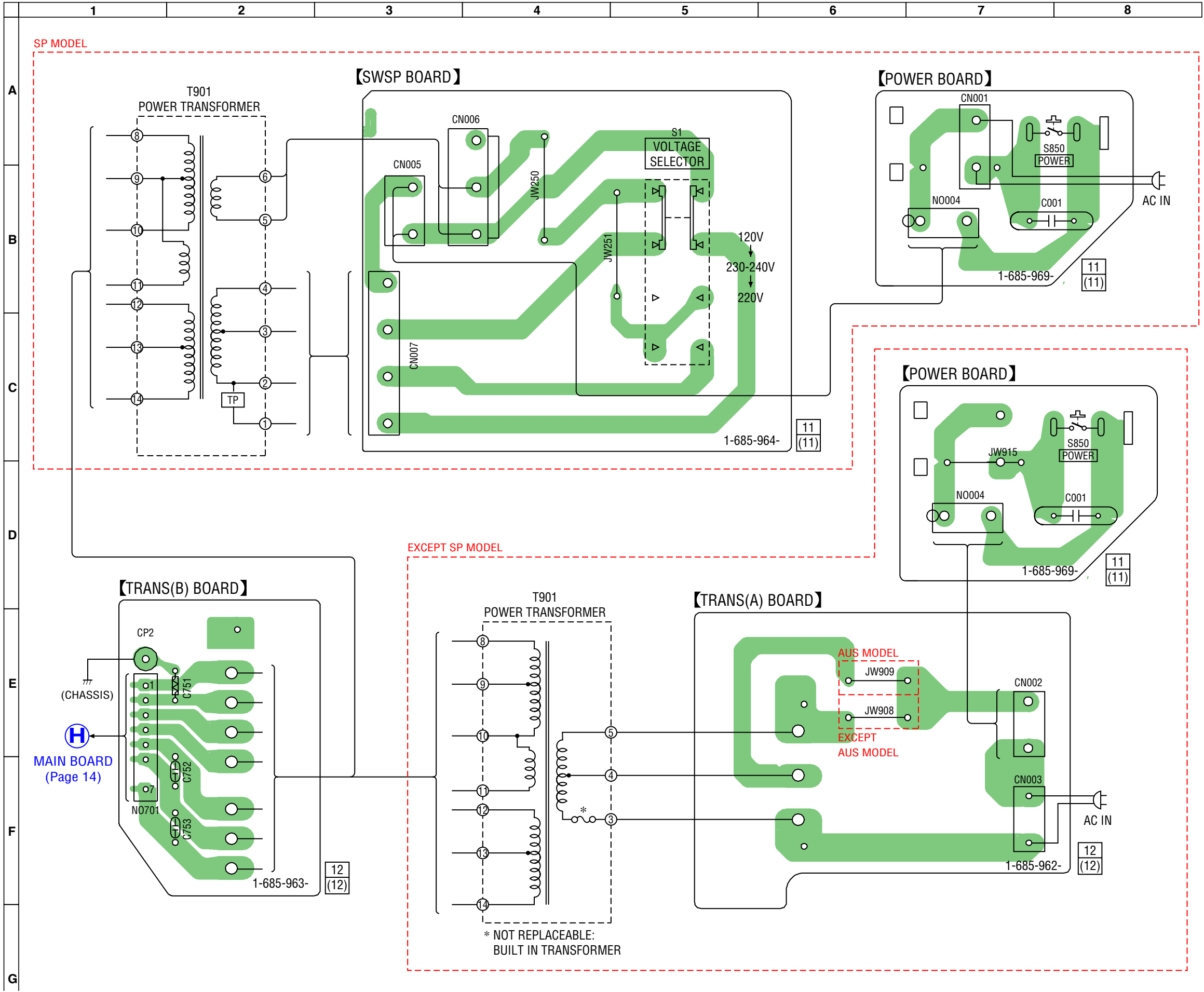
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

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

PRINTED WIRING BOARD – POWER SECTION –

New Type

• See page 12 for Circuit Boards Location.



EXPLODED VIEWS

NOTE:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviation

CND : Canadian model

SP : Singapore model

AUS : Australian model

- Color Indication of Appearance Parts

Example:

KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

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

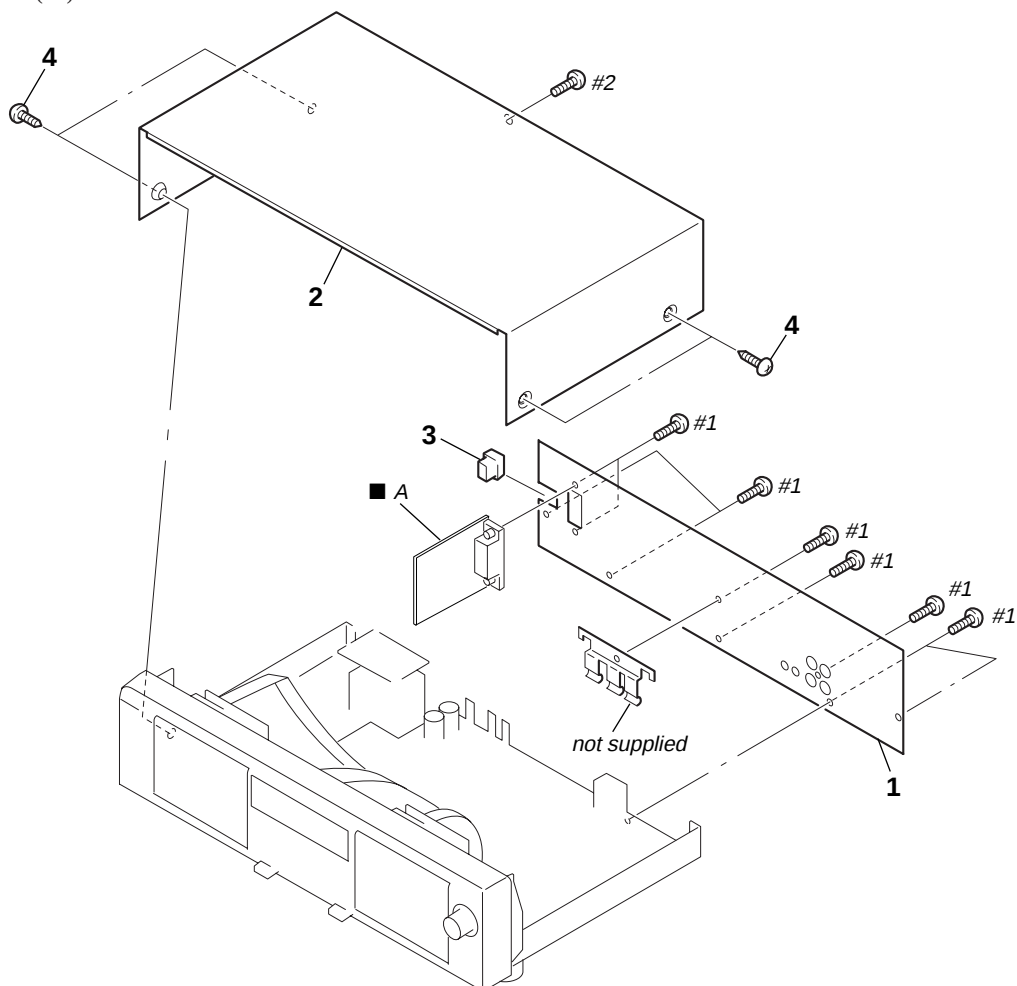
Les composants identifiés par une marque  sont critiques pour la sécurité.

Ne les remplacer que par une
pièce portant le numéro spécifié.

New Type

CASE SECTION

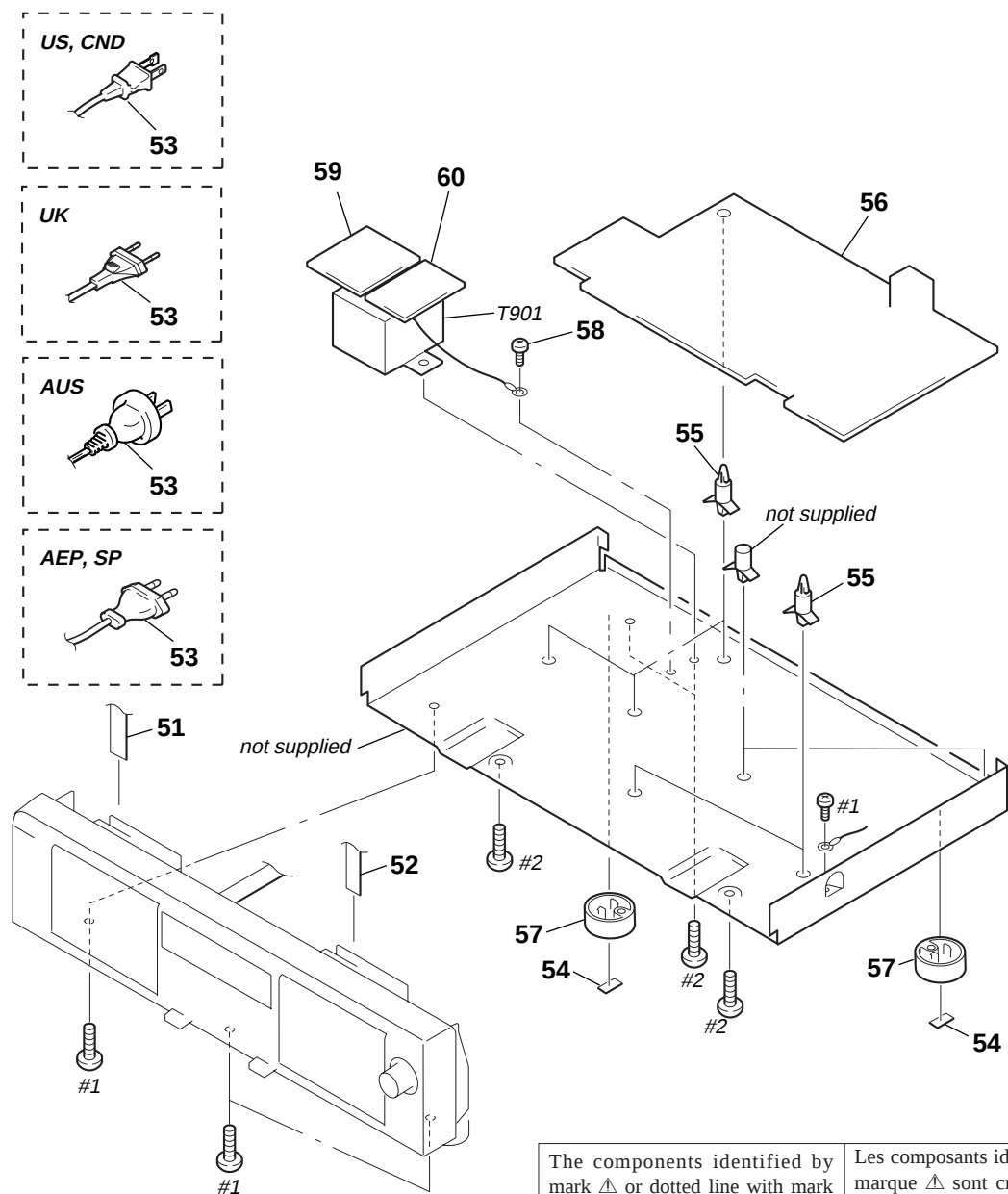
- A is included into the MAIN board (Ref No. 56).
- A : SWSP board (SP)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-232-414-21	PANEL, BACK (AEP)		2	4-232-149-71	CASE (410726)	
1	4-232-414-31	PANEL, BACK (UK)		3	3-703-244-00	BUSHING (2104), CORD	
1	4-232-414-41	PANEL, BACK (SP)		4	3-363-099-01	SCREW (CASE 3 TP2)	
1	4-241-637-01	PANEL, BACK (US)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
1	4-241-637-11	PANEL, BACK (CND)		#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
1	4-241-637-21	PANEL, BACK (AUS)					

New Type

CHASSIS SECTION

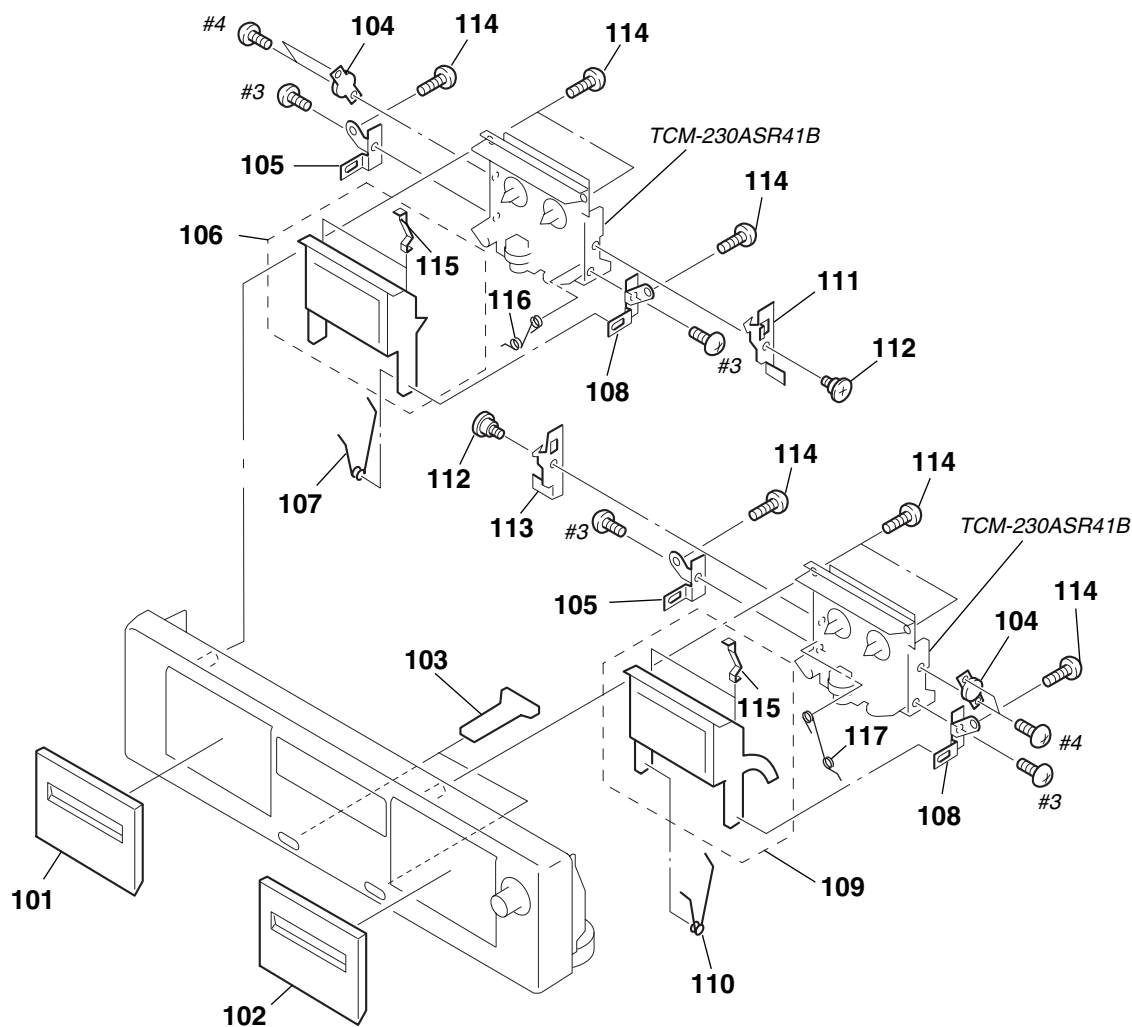


The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	1-696-656-11	WIRE (FLAT TYPE) (13 CORE)		56	A-4730-062-A	MAIN BOARD, COMPLETE (AUS)	
52	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)		56	A-4730-063-A	MAIN BOARD, COMPLETE (SP)	
$\triangle$ 53	1-575-651-91	CORD, POWER (AEP)		57	4-232-237-01	FOOT (DIA. 30)	
$\triangle$ 53	1-690-896-12	CORD, POWER (SP)		58	3-970-608-01	SUMITITE (B3), +BV	
$\triangle$ 53	1-751-522-21	CORD, POWER (UK)					
$\triangle$ 53	1-696-846-21	CORD, POWER (AUS)		59	1-685-962-12	TRANS (A) BOARD (EXCEPT SP)	
$\triangle$ 53	1-783-531-41	CORD, POWER (US,CND)		60	1-685-963-12	TRANS (B) BOARD	
54	4-978-398-21	CUSHION		$\triangle$ T901	1-431-786-12	TRANSFORMER, POWER (AEP,UK,AUS)	
* 55	3-346-265-31	HOLDER, PC BOARD		$\triangle$ T901	1-431-788-12	TRANSFORMER, POWER (US,CND)	
56	A-4729-991-A	MAIN BOARD, COMPLETE (US,CND)		$\triangle$ T901	1-431-789-12	TRANSFORMER, POWER (SP)	
56	A-4730-060-A	MAIN BOARD, COMPLETE (AEP,UK)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
				#2	7-685-871-01	SCREW +BVTT 3X6 (S)	

New Type

CASSETTE HOLDER SECTION

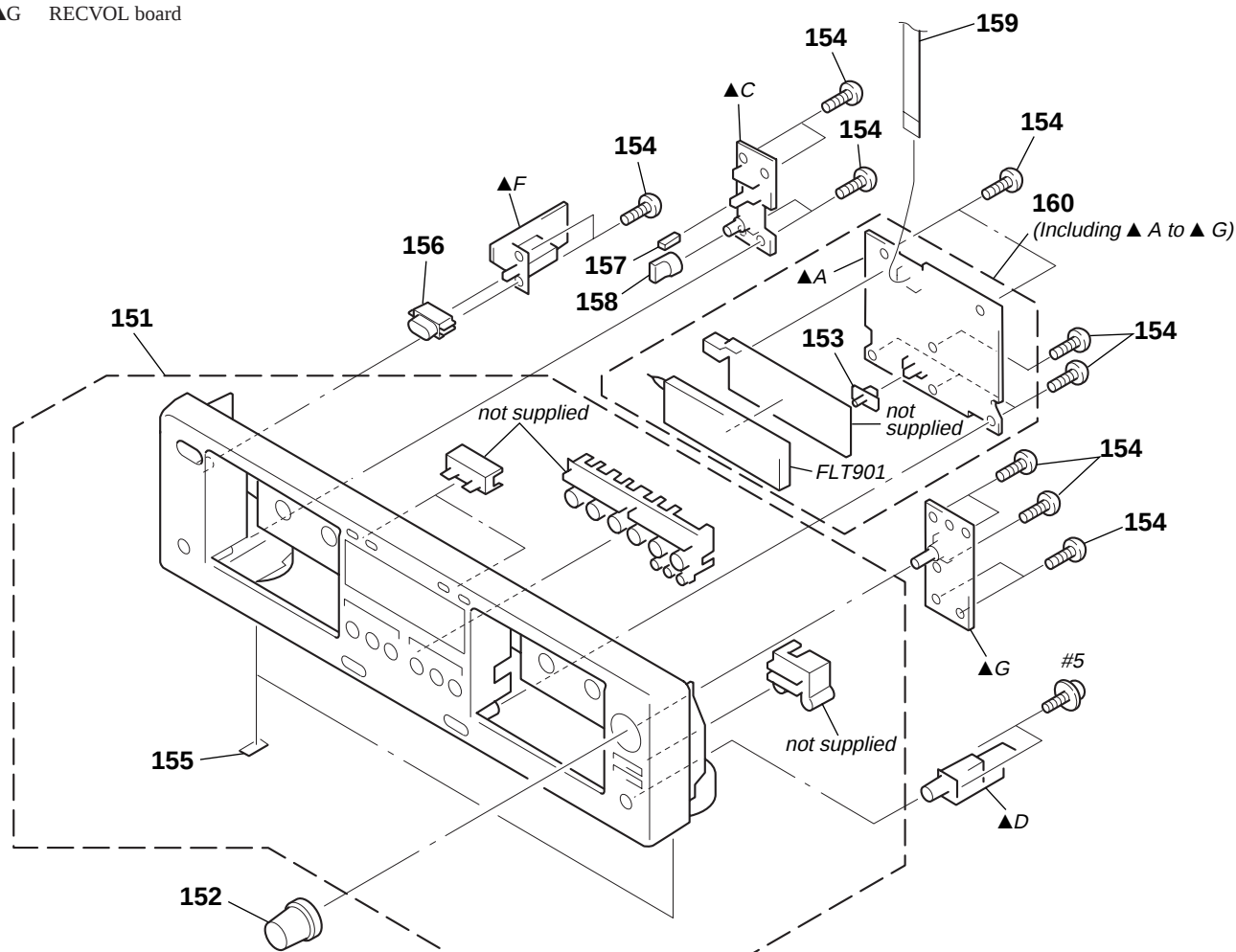


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4953-496-1	LID (A) ASSY, CASSETTE		111	3-019-453-01	LEVER (LOCK R)	
102	X-4953-497-1	LID (B) ASSY, CASSETTE		112	3-019-456-01	SCREW, STEP	
103	4-232-407-01	BUTTON (EJECT)		113	3-019-452-01	LEVER (LOCK L)	
104	3-022-410-01	DAMPER		114	4-951-620-01	SCREW (2.6X8), +BVTP	
105	3-019-450-01	PLATE (L), FULCRUM		115	4-959-229-11	DETENT, CASSETTE	
106	X-4953-543-1	HOLDER (L) ASSY, CASSETTE		116	3-032-810-03	SPRING (R), TORSION	
107	3-019-455-01	SPRING (R), LOADING		117	3-032-809-03	SPRING (L), TORSION	
108	3-019-451-01	PLATE (R), FULCRUM		#3	7-685-851-09	SCREW +BVTT 2X4 (S)	
109	X-4953-542-1	HOLDER (R) ASSY, CASSETTE		#4	7-685-852-04	SCREW +BVTT 2X5 (S)	
110	3-019-454-01	SPRING (L), LOADING					

New Type

FRONT PANEL SECTION

- ▲A to ▲G are including into the mounted PANEL board (Ref No. 160).
- ▲A PANEL board
- ▲C DIRECTION board
- ▲D H.P board
- ▲F POWER board
- ▲G RECVOL board



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-4953-492-2	PANEL (US) ASSY, FRONT (US,CND)		158	3-931-378-11	KNOB (F10)	
151	X-4953-493-1	PANEL (EU) ASSY, FRONT (AEP,UK,AUS,SP)		159	1-769-950-11	WIRE (FLAT TYPE) (11 CORE)	
152	4-232-409-01	KNOB (DIA. 21)		160	A-4729-992-A	PANEL BOARD, COMPLETE (US,CND,AUS)	
153	4-232-410-01	KNOB (SLIDE)		160	A-4730-048-A	PANEL BOARD, COMPLETE (SP)	
154	4-951-620-01	SCREW (2.6X8), +BVTP		160	A-4730-058-A	PANEL BOARD, COMPLETE (AEP,UK)	
* 155	4-978-398-21	CUSHION		FLT901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	
156	4-231-973-01	BUTTON (POWER)		#5	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
157	4-232-412-01	BUTTON (DIA. 3.5)					

MEMO

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SERVICE MANUAL

Ver 1.4 2002.11

*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model*

SUPPLEMENT - 2

File this Supplement with the Service Manual.

Subject :

- **TRANS (B) BOARD AND POWER TRANSFORMER CHANGE**
- **ARRANGEMENT OF THE POWER CORD**

TRANS (B) BOARD AND POWER TRANSFORMER CHANGE

Change the pattern of TRANS (B) board could conform to both power transformers of the new type and the former type.

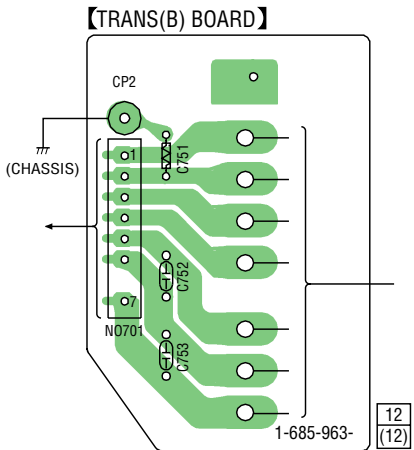
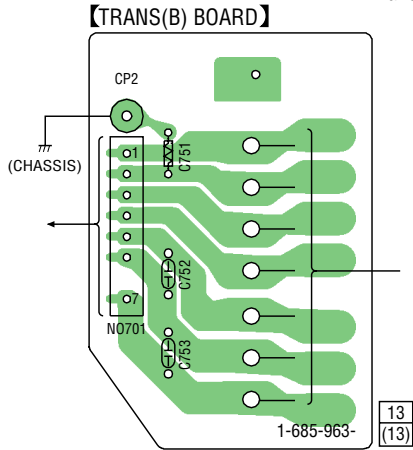
HOW TO DISTINGUISH A SET

Distinguish a power transformer by the part code that it is printed on the label.

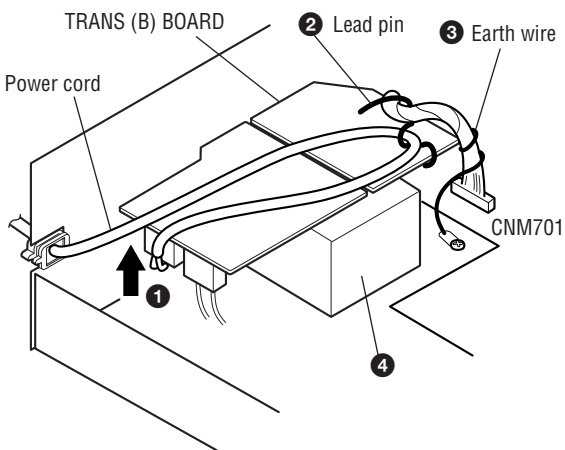
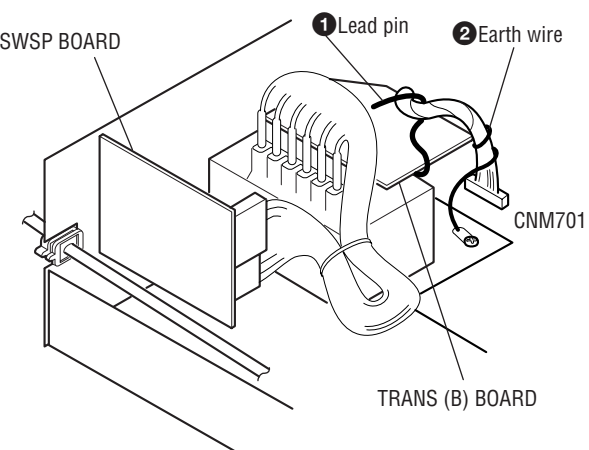
TRANS (B) Distinguish a circuit board in the difference of the pattern form.

- Abbreviation
- CND : Canadian model
- SP : Singapore model
- AUS : Australian model

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
--	--

Ref.No.	FORMER TYPE	NEW TYPE
60	1-685-963-12 TRANS (B) BOARD (Conforms only to the former type power transformer) 	1-685-963-13 TRANS (B) BOARD (Conforms to both power transformers of the new type and the former type) 
$\triangle$ T901 $\triangle$ T901 $\triangle$ T901	1-431-786-12 TRANSFORMER, POWER (AEP,UK,AUS) 1-431-788-12 TRANSFORMER, POWER (US,CND) 1-431-789-12 TRANSFORMER, POWER (SP) Caution : Replace a TRANS (B) board with the last digit -13 when replace a power transformer with the new type.	1-427-783-21 TRANSFORMER, POWER (AEP,UK,AUS) 1-427-782-21 TRANSFORMER, POWER (US,CND) 1-427-784-21 TRANSFORMER, POWER (SP)

ARRANGEMENT OF THE POWER CORD (AEP,UK,AUS,SP model)

AEP, UK, AUS model	SP model
1. Pull the power cord upward, and prevent looseness. 2. Catch power cord in the lead pin. 3. Wind the earth wire more than twice. 4. Leave the power cord and lead wires may not touch the power transformer. 	1. Catch the lead wires in the lead pin. 2. Wind the earth wire more than twice. 

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

[illegible]