

TC-WE425/WE525/ WR681

SERVICE MANUAL

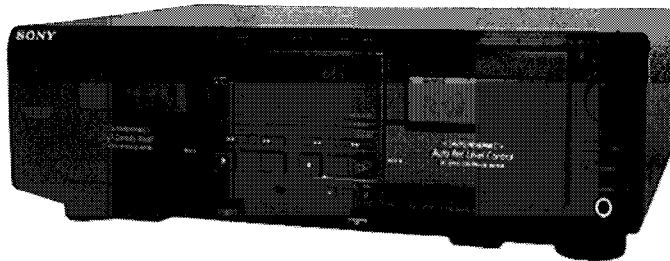


Photo: TC-WE425

US Model

TC-WE425/WR681

Canadian Model

TC-WE425

AEP Model

TC-WE525/WR681

UK Model

TC-WE525

E Model

Australian Model

TC-WE425/WR681

Chinese Model

TC-WE425

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		NEW
Tape Transport	DECK A	TCM-230ASR1
Mechanism Type	DECK B	TCM-230ASR2

SPECIFICATIONS

System

Recording system
4-track 2-channel stereo

Fast-winding time (approx.)
100 sec. (with Sony C-60 cassette)

Bias
AC bias

Signal-to-noise ratio (at peak level and weighted with Dolby NR off)
Type I tape, Sony Type I (NORMAL): 55 dB
Type II tape, Sony Type II (HIGH): 57 dB
Type IV tape, Sony Type IV (METAL): 58 dB

S/N ratio improvement (approximate values)
With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz
With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz

Harmonic distortion
0.4% (with Type I tape, Sony Type I (NORMAL):
160 nWb/m 315 Hz, 3rd H.D.)
1.8% (with Type IV tape, Sony Type IV (METAL):
250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Tape type

Type I tape, Sony Type I (NORMAL) 30-16,000 Hz (± 3 dB, IEC),
20-17,000 Hz (± 6 dB)

Type II tape, Sony Type II (HIGH) 30-17,000 Hz (± 3 dB, IEC),
20-18,000 Hz (± 6 dB)

Type IV tape, Sony Type IV (METAL) 30-19,000 Hz (± 3 dB, IEC),
20-20,000 Hz (± 6 dB),

Wow and flutter
 $\pm 0.15\%$ W. Peak (IEC)
0.1% W. RMS (NAB)
 $\pm 0.2\%$ W. Peak (DIN)

– Continued on next page –

STEREO CASSETTE DECK

SONY®



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 phono jack) (TC-WE425/WE525 only)
Output level : 0.25 mW at a load impedance of
32 ohms

General

Power requirements

Where purchased	Power requirements
US, Canadian	120 V AC, 60 Hz
AEP, UK, Chinese	220 - 230 V AC, 50/60 Hz
Australian	240 V AC, 50/60 Hz
E, Singapore, Malaysia	120/220/230 - 240 V AC, 50/60 Hz

Power consumption
18 W

Dimensions (approx.) (w/h/d)
430 × 120 × 290 mm (w/h/d)
(17 × 4 3/4 × 11 3/8 in.)
including projecting parts and controls

Mass (approx.)
4 kg (8 lbs 13 oz)

Supplied accessories

Audio connecting cords (2 phono plugs - 2 phono
plugs) (2)
CONTROL A1 cord (supplied for Canadian models
only) (1)

*Design and specifications are subject to change without
notice.*

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check 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 TEST

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)

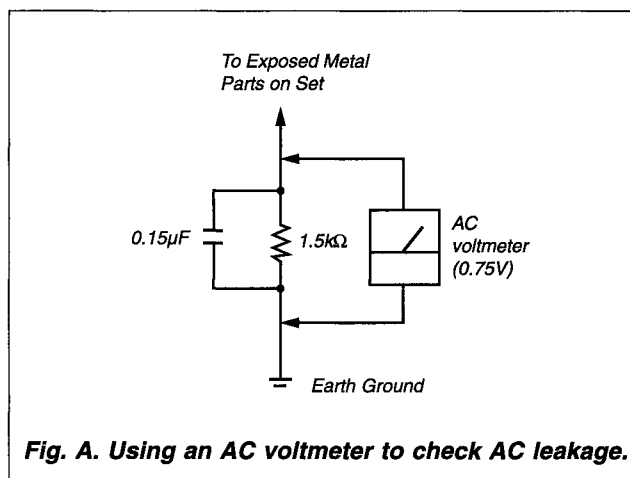


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

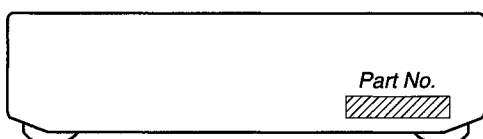
COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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—



Part No.	Model
3-021-244-0□	TC-WE425 : US model
3-021-244-1□	TC-WE425 : CND model
3-021-244-2□	TC-WE525 : AEP model
3-021-244-3□	TC-WE525 : UK model
3-021-244-4□	TC-WE425 : AUS model
3-021-244-5□	TC-WE425 : SP, MY model
3-021-244-6□	TC-WE425 : CH model
3-021-245-0□	TC-WR681 : US model
3-021-245-1□	TC-WR681 : AEP model
3-021-245-2□	TC-WR681 : E model
3-021-245-3□	TC-WR681 : AUS model
3-021-245-4□	TC-WR681 : SP model

• Abbreviation

CND : Canadian model
AUS : Austrarian model
SP : Singapore model
MY : Malaysia model
CH : Chinese model

TABLE OF CONTENTS

1. GENERAL

1-1. Location of Controls	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
2-5. Leaf SW (A) board (Deck A), Leaf SW (B) board (Deck B)	7
2-6. Pinch Lever (FWD)/(REV) Assy (Deck A/B)	8
2-7. Flywheel (FWD)/(REV) Assy (Deck A/B)	8
2-8. Mechanical Block Assy (Deck A/B)	9
2-9. Head Relay (PB) Board (Deck A), Head Relay (REC) Board (Deck B)	9

3. MECHANICAL ADJUSTMENTS

4. ELECTRICAL ADJUSTMENTS

5. DIAGRAMS

5-1. IC Pin Description	14
5-2. Circuit Boards Location	16
5-3. Printed Wiring Boards —Main Section—	17
5-4. Schematic Diagram —Main Section (1/3)—	19
5-5. Schematic Diagram —Main Section (2/3)—	21
5-6. Schematic Diagram —Main Section (3/3)—	23
5-7. Printed Wiring Boards —Panel Section—	25
5-8. Schematic Diagram —Panel Section—	27
5-9. Printed Wiring Boards —Power Section—	29
5-10. Schematic Diagram —Power Section—	31
5-11. Printed Wiring Board —Deck A Section—	32
5-12. Schematic Diagram —Deck A Section—	32
5-13. Printed Wiring Board —Deck B Section—	33
5-14. Schematic Diagram —Deck B Section—	33

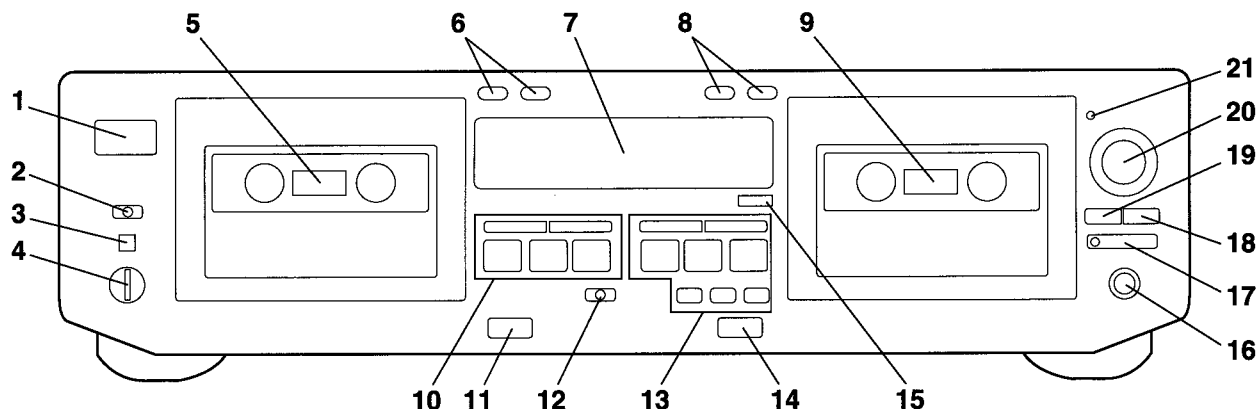
6. EXPLODED VIEWS

6-1. Case Section	34
6-2. Chassis Section	35
6-3. Cassette Holder Section	36
6-4. Front Panel Section	37
6-5. Tape Mechanism Section	38

7. ELECTRICAL PARTS LIST

SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS

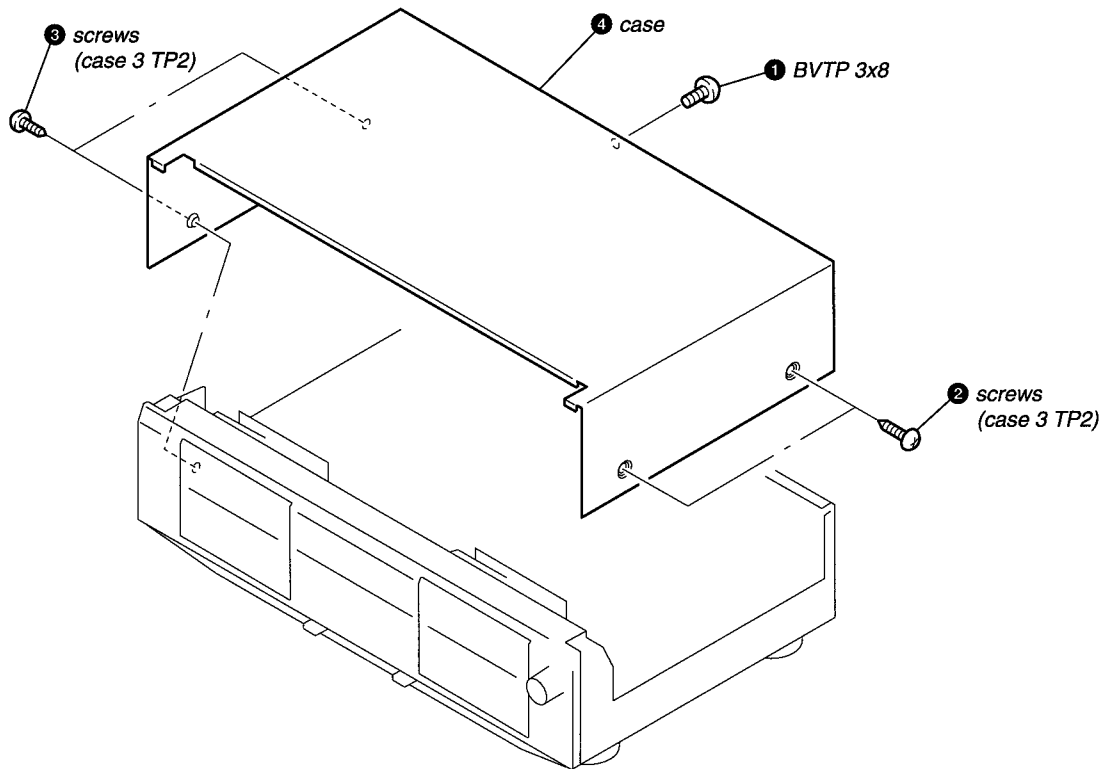


- | | |
|--|--|
| <p>1. I/⏻ (Power) button (US, Canadian)
Ⓚ (Power) button (EXCEPT US, Canadian)</p> <p>2. DIRECTION MODE switch</p> <p>3. PITCH CONTROL (⏏ ON/⏏ OFF) switch (TC-WE525)</p> <p>4. PITCH CONTROL knob (TC-WE525)</p> <p>5. Cassette holder (Deck A)</p> <p>6. COUNTER A buttons (Deck A)
RESET button
MEMORY button</p> <p>7. Display window</p> <p>8. COUNTER B buttons (Deck B)
RESET button
MEMORY button</p> <p>9. Cassette holder (Deck B)</p> <p>10. Tape operation buttons (Deck A)
◀◀ (REW) button
▶▶ (FF) button
■ CLEAR (Stop) button
◁ (Reverse play) button
▷ (Forward play) button</p> | <p>11. ≡ (Eject) button (Deck A)</p> <p>12. DOLBY NR switch</p> <p>13. Tape operation buttons (Deck B)
◀◀ (REW) button
▶▶ (FF) button
■ (Stop) button
◁ (Reverse play) button
▷ (Forward play) button
 PAUSE button
○ REC MUTING button
● REC button</p> <p>14. ≡ (Eject) button (Deck B)</p> <p>15. START (DECK B) button
HIGH/NORMAL, DUBBING A→B button</p> <p>16. PHONES jack (TC-WE425/WE525)</p> <p>17. SYNCHRO button and indicator (TC-WE425/WE525)</p> <p>18. ARL button</p> <p>19. FADER button</p> <p>20. REC LEVEL knob</p> <p>21. AUTO indicator</p> |
|--|--|

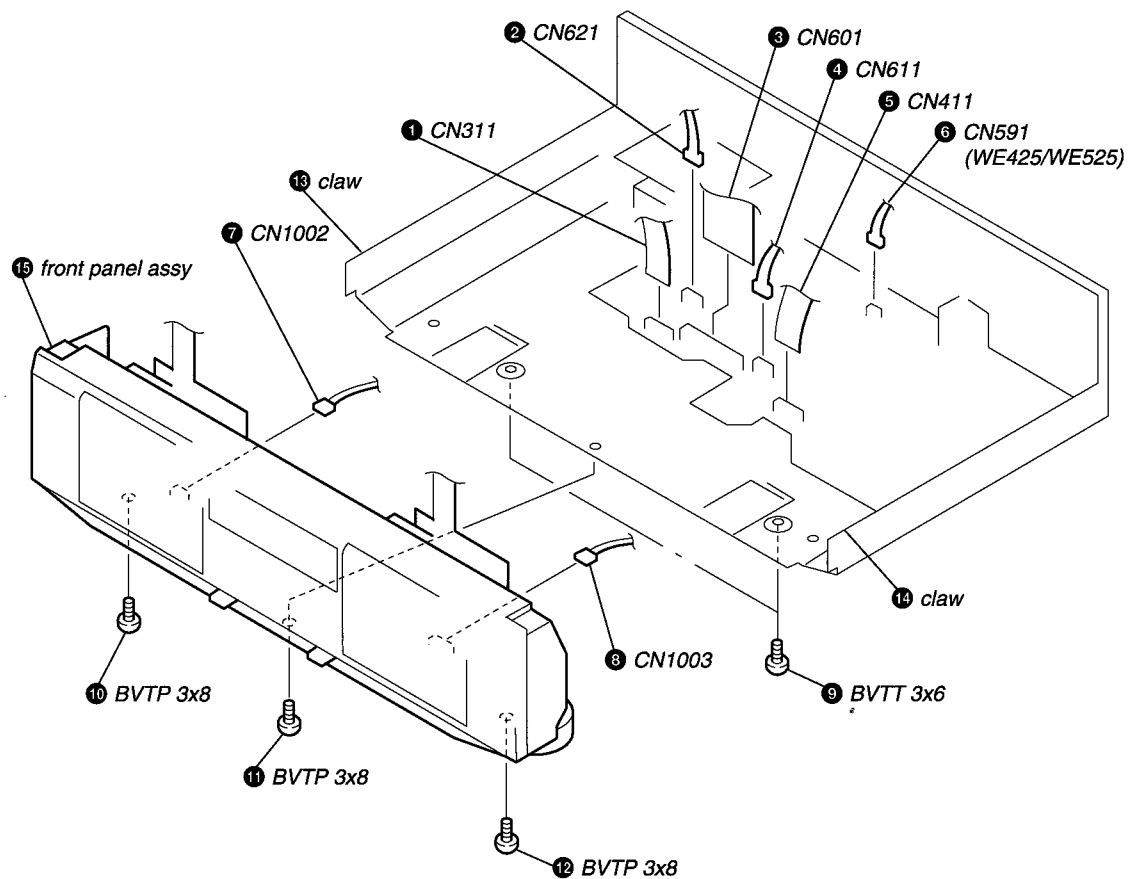
SECTION 2 DISASSEMBLY

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

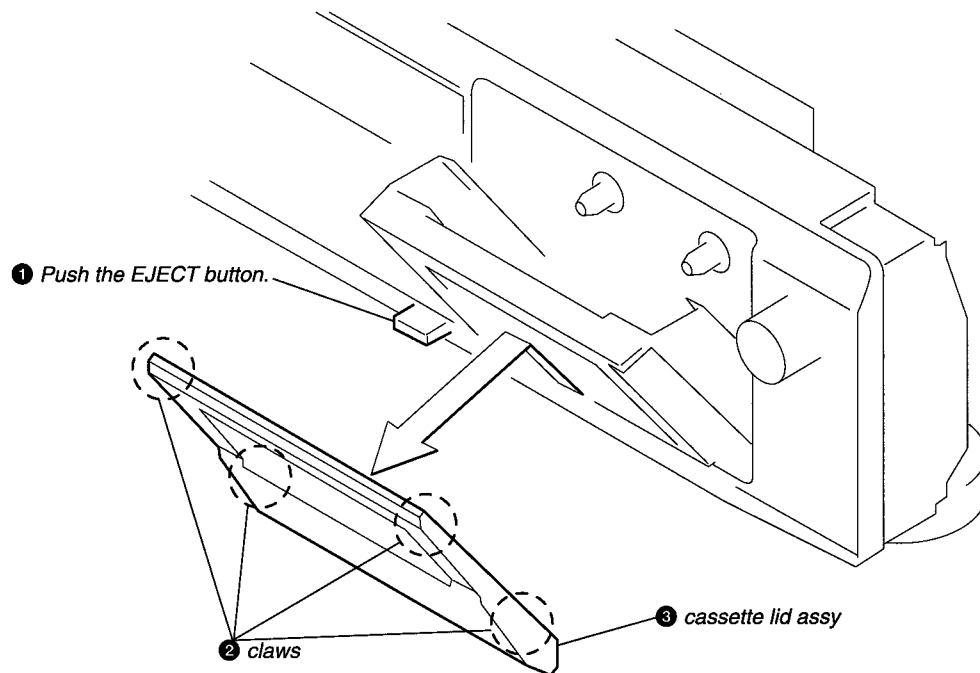
2-1. CASE



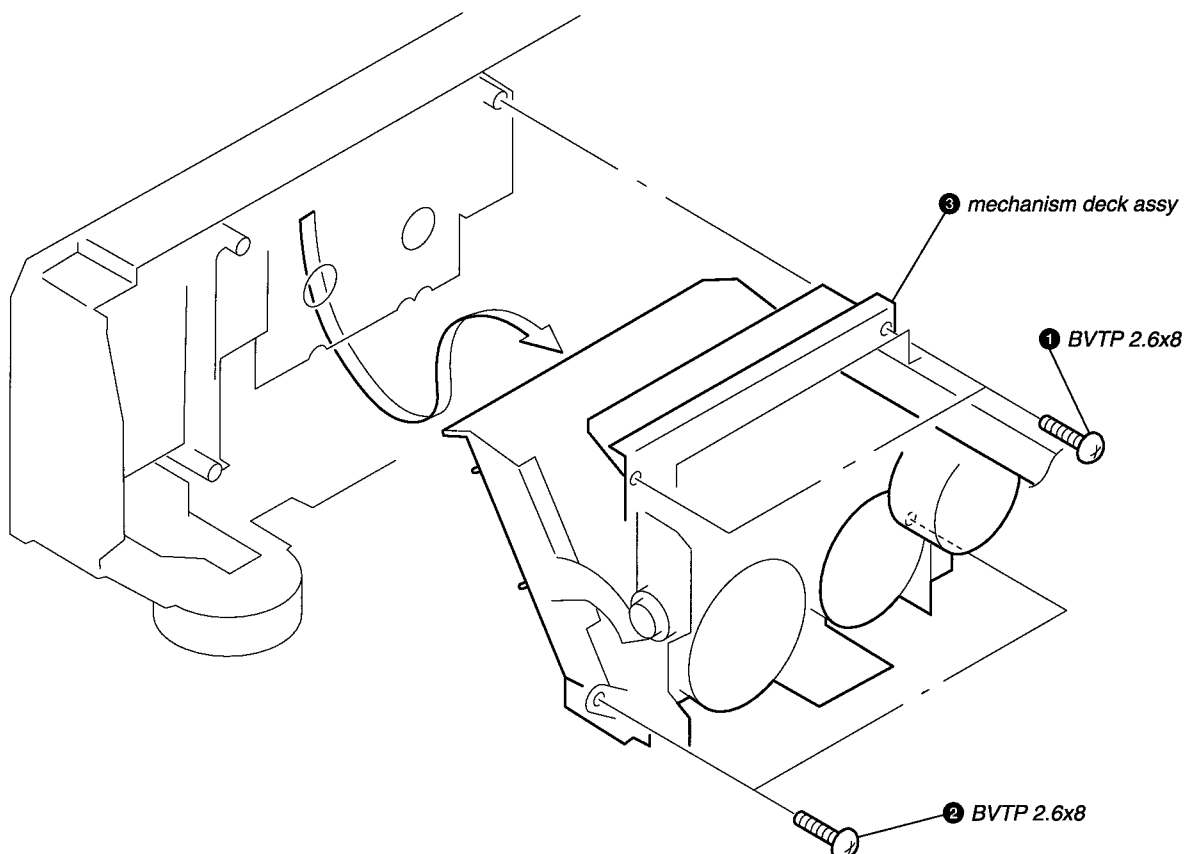
2-2. FRONT PANEL ASSY



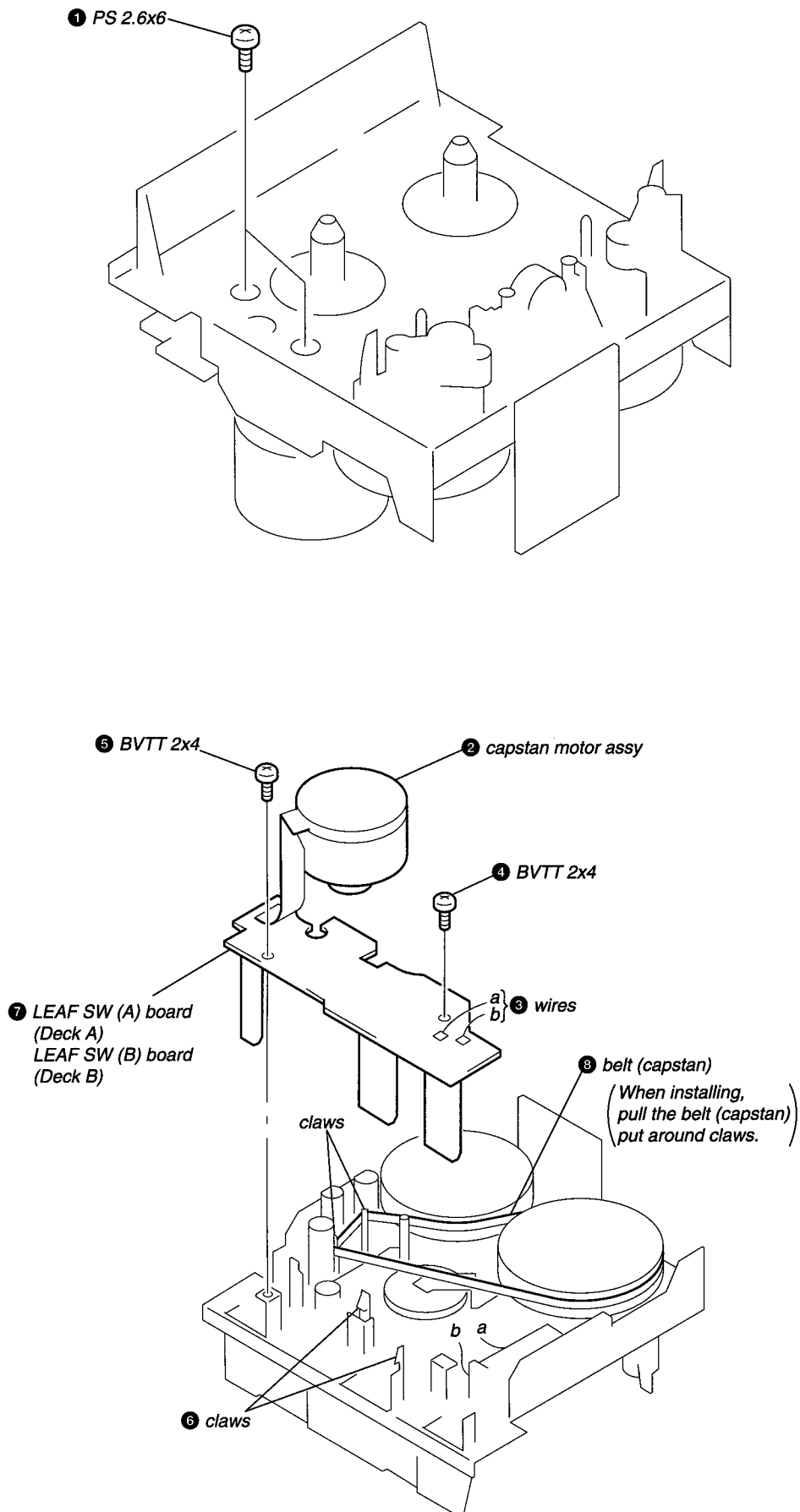
2-3. CASSETTE LID ASSY (DECK A/B)



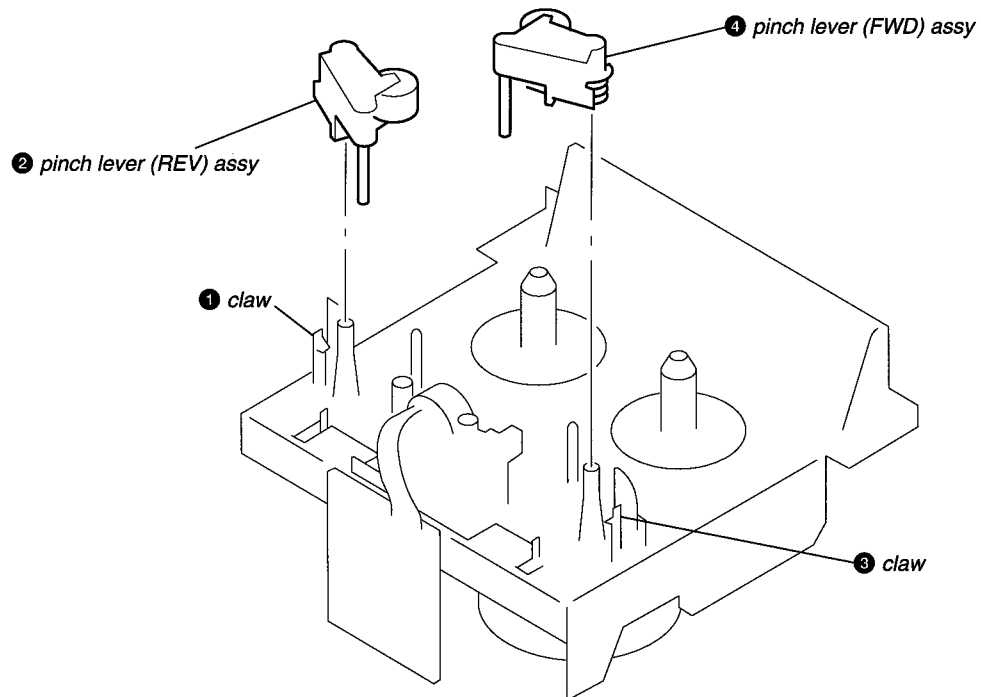
2-4. MECHANISM DECK ASSY (DECK A/B)



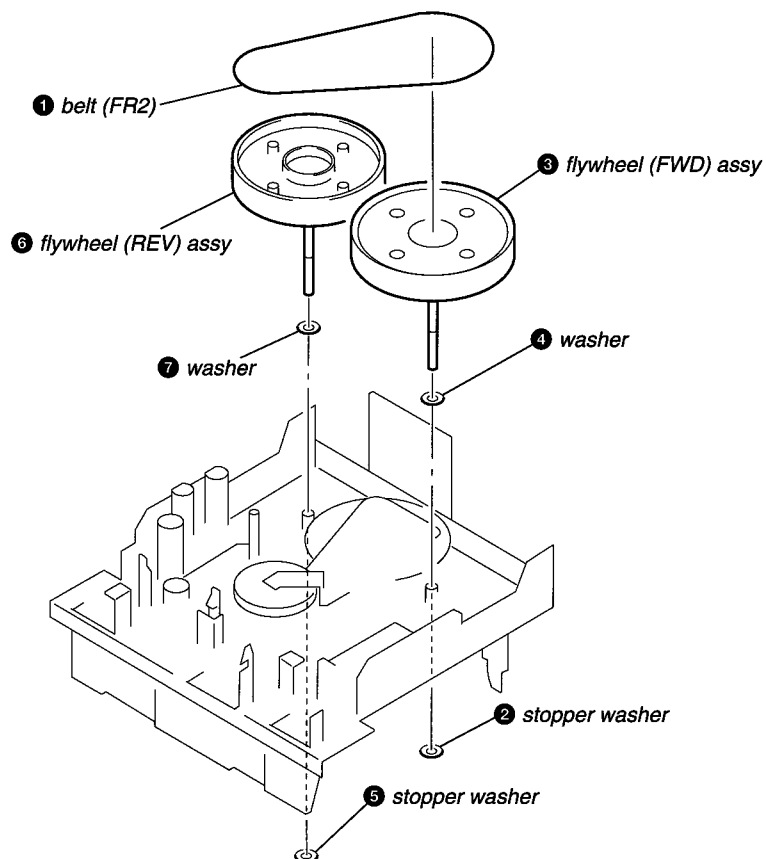
2-5. LEAF SW (A) BOARD (DECK A), LEAF SW (B) BOARD (DECK B)



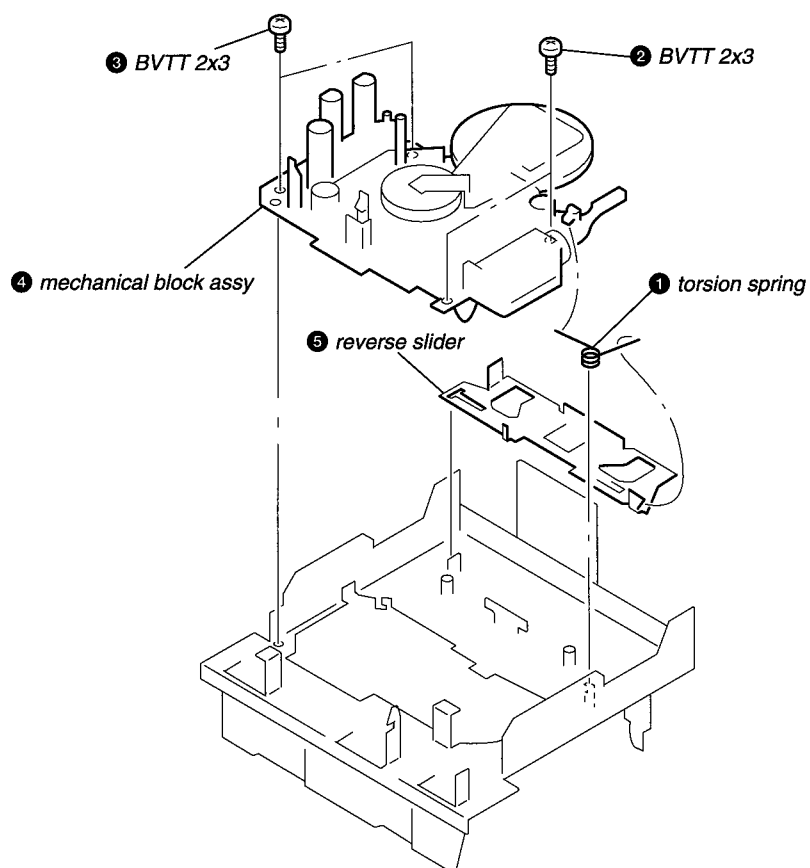
2-6. PINCH LEVER (FWD) / (REV) ASSY (DECK A/B)



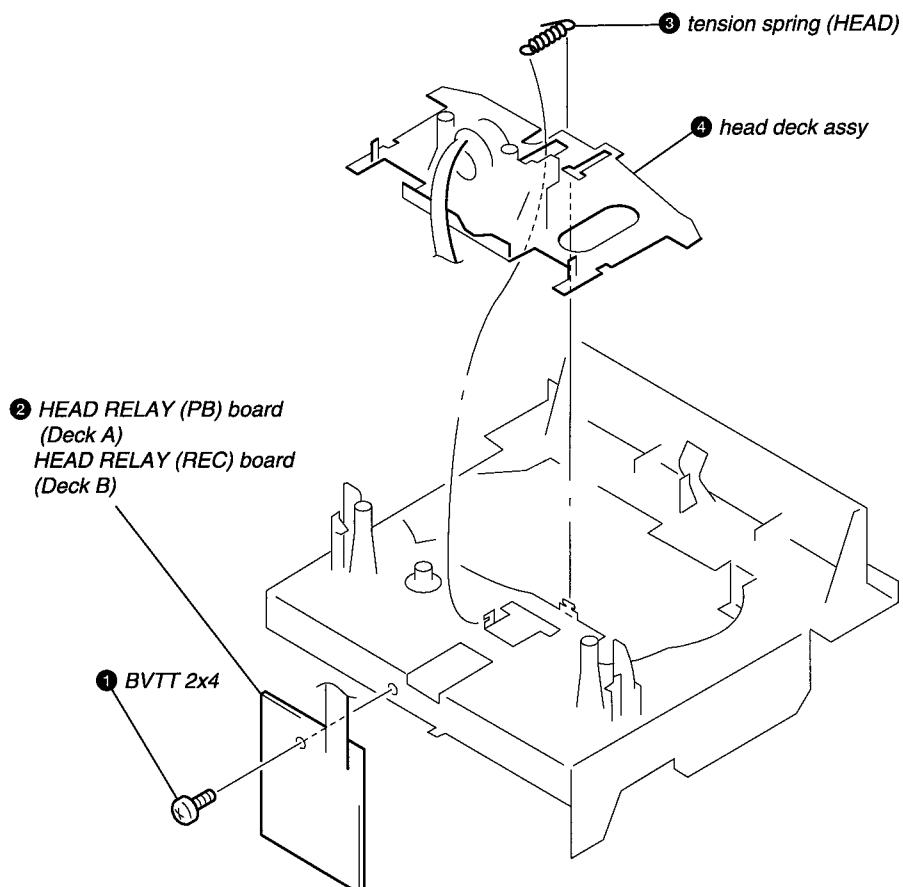
2-7. FLYWHEEL (FWD) / (REV) ASSY (DECK A/B)



2-8. MECHANICAL BLOCK ASSY (DECK A/B)



2-9. HEAD RELAY (PB) BOARD (DECK A), HEAD RELAY (REC) BOARD (DECK B)



SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

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

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

Torque Measurement

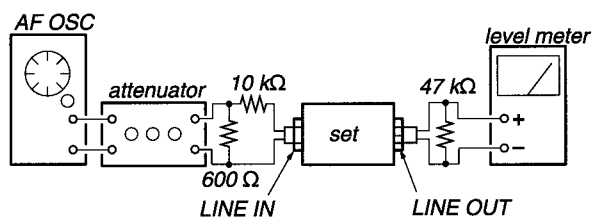
Mode	Torque meter	Meter reading
Forward	CQ-102C	30 to 65 g • cm (0.42 to 0.90 oz • inch)
Forward back tension	CQ-102C	DECK A : 1 to 6 g • cm (0.014 to 0.083 oz • inch) DECK B : 2 to 9 g • cm (0.028 to 0.125 oz • inch)
Reverse	CQ-102RC	30 to 65 g • cm (0.42 to 0.90 oz • inch)
Reverse back tension	CQ-102RC	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 4 ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
2. 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 control 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 dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47 kΩ
output signal level	0.5 V (–3.8 dB)

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 dB = 0.775 V

Test Mode

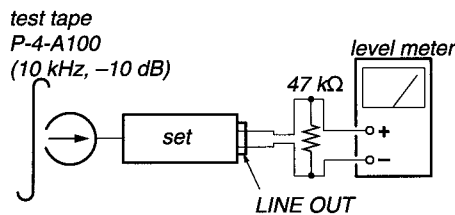
1. Turn ON power switch pressing “REC MUTING” and “▶▶” (FF) (DECK A) at the same time.
At first, all the fluorescent indicator light up, then the system returns to normal display. (However, “0.00” is not displayed on the counter.)
2. To release the test mode, turn OFF the power switch.

Record/Playback Head Azimuth Adjustment

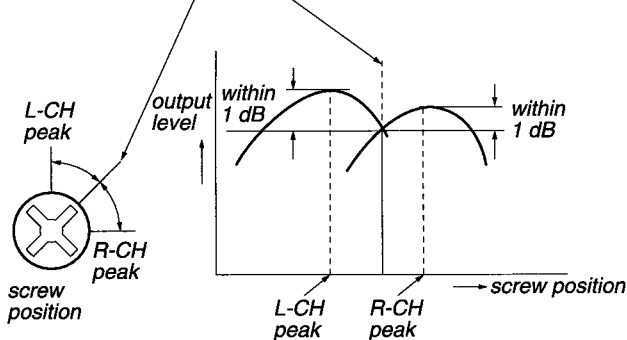
DECK A DECK B

Procedure:

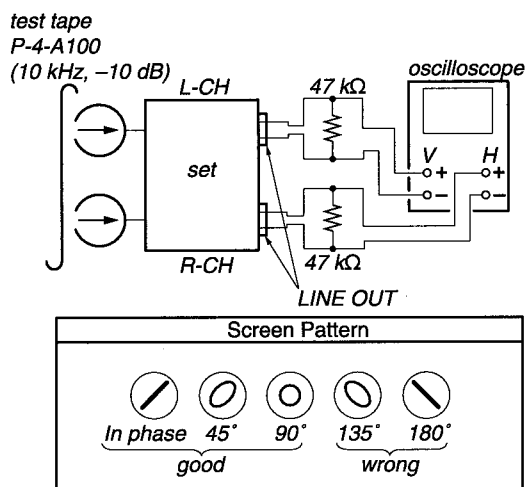
1. Forward Playback Mode



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.

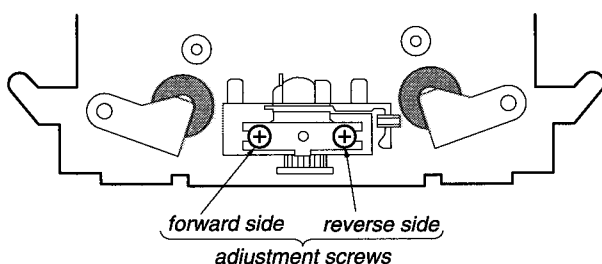


3. Playback Mode



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–

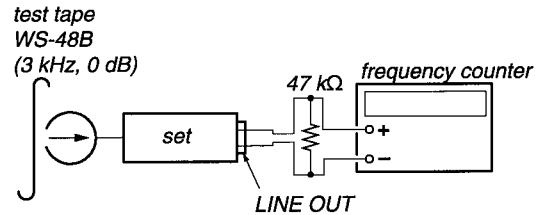


Tape Speed Adjustment

DECK A DECK B

Procedure:

–Forward Playback Mode–



(High speed adjustment)

1. Set to test mode. (Refer to page 10.)
2. Set to FWD playback mode.
3. Twice pressing the HIGH/NORMAL switch.
4. Adjust RV316 (DECK A), RV416 (DECK B) so that the frequency counter reading becomes $5,980 \pm 20$ Hz.
5. Release test mode after adjustment is completed.

(Normal speed adjustment)

1. Set to FWD playback mode.
 2. Adjust RV317 (DECK A), RV417 (DECK B) so that the frequency counter reading becomes $3,000 \pm 10$ Hz.
- (Pitch control adjustment) (DECK A) (TC-WE525 only)
1. Push the PITCH CONTROL switch.
 2. Set RV986 (PITCH CONTROL knob) to mechanical center.
 3. Set to FWD playback mode.
 4. Adjust RV318 so that the frequency counter reading becomes $2,990 \pm 10$ Hz.

Frequency difference between the beginning and the end of the tape should be within $\pm 3\%$.

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

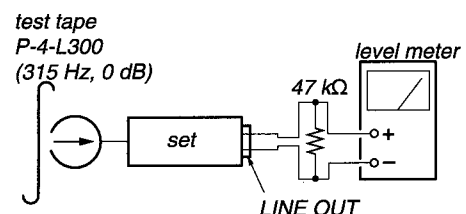
Adjustment Location: MAIN board (See page 13.)

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 ± 0.5 dB (0.301 to 0.338 V)

Level difference between channels : within 0.5 dB

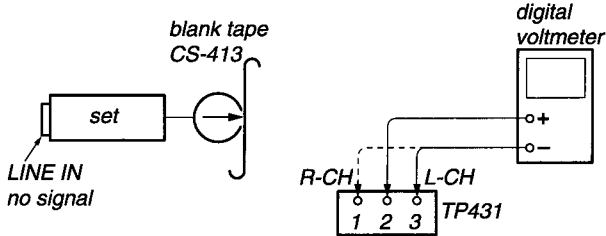
Confirm that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: MAIN board (See page 13.)

Bias Consumption Current Adjustment **DECK B**

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

Procedure:



1. Connect the digital voltmeter to test point TP431.
2. Set RV131 (L-CH), RV231 (R-CH) to mechanical center.
3. Set to FWD record mode.
4. Adjust T131 (L-CH), T231 (R-CH) so that the digital voltmeter reading becomes minimum.

Adjustment Value: Maximum 220 mV

Adjustment Location: MAIN board (See page 13.)

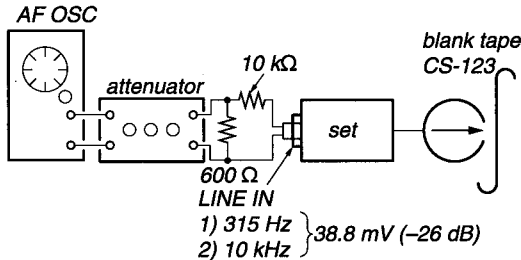
Record Bias Adjustment **DECK B**

Setting:

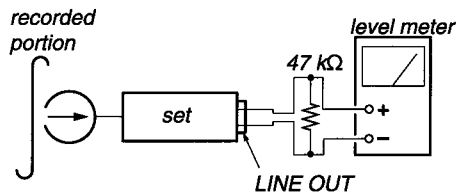
REC LEVEL control : standard record position (See page 10.)

Procedure:

1. Record Mode



2. Playback Mode



Confirm that the 10 kHz playback output is 0 ± 0.5 dB relative to the 315 Hz output. If necessary, adjust RV131 (L-CH), RV231 (R-CH) and repeat the steps given above.

Adjustment Location: MAIN board (See page 13.)

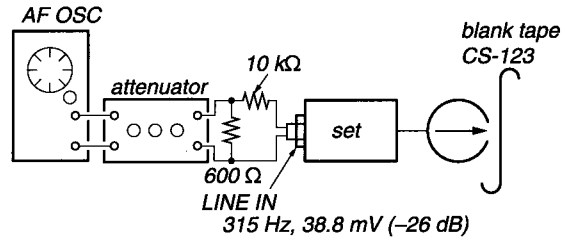
Record Level Adjustment **DECK B**

Setting:

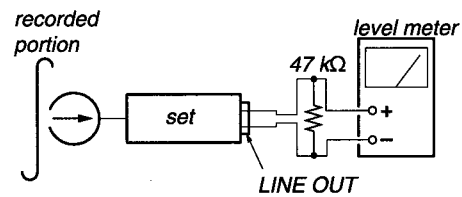
REC LEVEL control : standard record position (See page 10.)

Procedure:

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

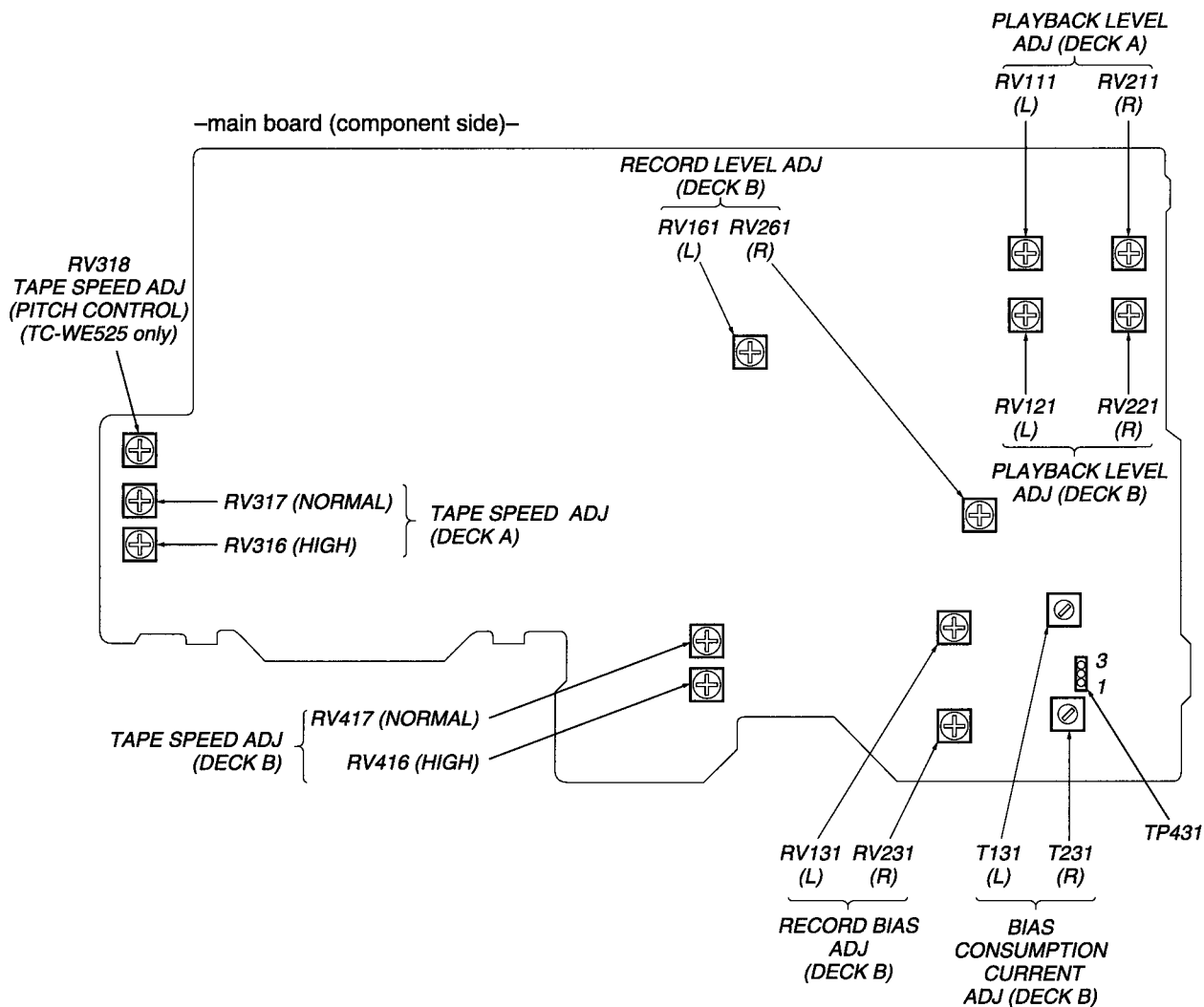
If necessary, adjust RV161 (L-CH), RV261 (R-CH) and repeat the steps 1 and 2.

Adjustment Value:

LINE OUT level : -26 ± 0.5 dB (36.7 to 41.1 mV)

Adjustment Location: MAIN board (See page 13.)

Adjustment Location: main board



SECTION 5 DIAGRAMS

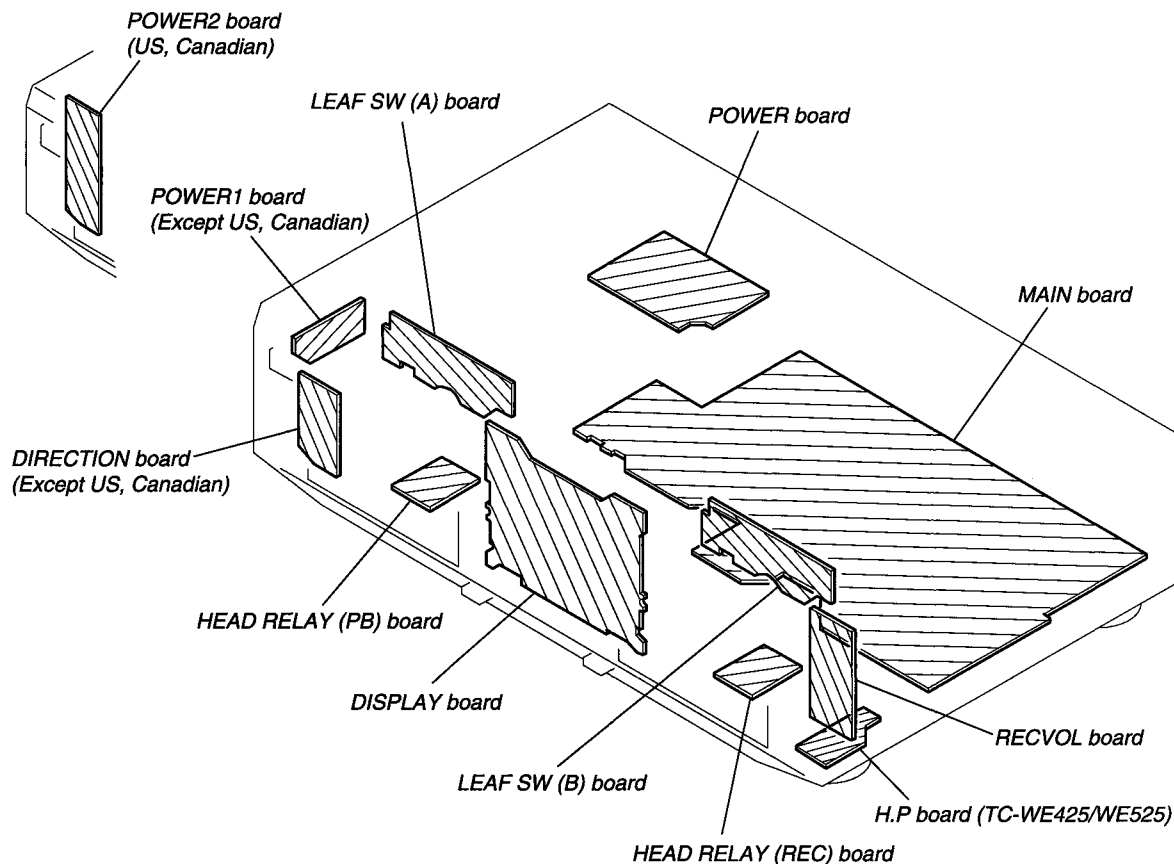
5-1. IC PIN DESCRIPTION

• IC801 CXP82220-051Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Pin Description
1	A-PLAY	I	Play switch input (DECK A)
2	POWER IN (CED)	I	Power-in detection input
3	—	—	Connected to ground.
4	SIRCS	I	Sircs signal input
5	—	—	Connected to ground.
6	RECVOLOUT	O	Record level control output (PWM)
7	—	—	Not used in this set.
8	BUSIN	I	Control A signal input
9	POWER OUT	O	Power hold output
10	POWER IN (U)	I	Power-in detection input
11	A-SHUT	I	Capstan motor rotation detection input (DECK A)
12	A-SHUMIT	I	Capstan motor rotation detection input (DECK A)
13	CAPM ($\overline{H}/L$)	O	Capstan motor high/normal select output “L”:ON
14	PITCH.CON	O	Pitch control ON/OFF output “L”:ON
15	—	—	Not used in this set.
16	BUSOUT	O	Control A signal output
17	LINE MUTE	O	Line mute ON/OFF control output “L”:Mute ON
18	LPF	O	Low pass filter on output
19	RECMUTE	O	Recording mute output “L”:Mute ON
20	$\overline{B}$ -BIAS	O	Bias ON/OFF output (DECK B) “H”:ON
21	NR SW	O	Dolby selector “H”:C, “Open”:B, “L”:Dolby off
22	B-IV	I	Metal detection input (DECK B)
23	PB SELECT ($\overline{A}/B$)	I	Playback A/B selector input “L”:A, “H”:B
24	REC/PB	O	Record/playback dolby NR mode selector output “L”:Playback
25	PBEQ (HIGH/ $\overline{NORM}$)	O	PB EQ high/normal select output “L”:Normal
26	NR/MUTE/PASS	O	Audio selector “H”:Pass, “Open”:Mute, “L”:Dolby
27	AMSOFF/AMS/BS	O	AMS amp selector “H”:BS, “Open”:AMS, “L”:OFF
28	$\overline{B}$ -RELAY	O	Relay record/playback selector output (DECK B) “L”:Record
29	B-SHUT	I	Capstan motor rotation detection input (DECK B)
30	B-SHUMIT	I	Capstan motor rotation detection input (DECK B)
31	B-PLAY	I	Play switch input (DECK B)
32	B-HALF	I	Half switch input (DECK B)
33	METER (L)	I	Meter L-CH input (A/D converter)
34	METER (R)	I	Meter R-CH input (A/D converter)
35	KEY3	I	Key 3 input (A/D converter)
36	KEY1	I	Key 1 input (A/D converter)
37	KEY2	I	Key 2 input (A/D converter)
38	RESET	I	System reset input
39	XIN	I	System clock oscillator input (10 MHz)
40	XOUT	O	System clock oscillator output (10 MHz)
41	VSS	—	Ground
42	—	—	Connected to ground.
43	—	—	Connected to ground.
44	KEY4	I	Key 4 input (A/D converter)
45	RECVOL IN	I	Record volume input (A/D converter)
46	—	—	Connected to power supply.
47	—	—	Connected to ground.
48 – 50	—	—	Not used in this set.
51	ARL (LED)	O	AUTO LED driver “H”:ON
52	SYNC (LED)	O	SYNCHRO LED driver “L”:ON
53, 54	—	—	Not used in this set.

Pin No.	Pin Name	I/O	Pin Description
55	B-CAPM2	O	Capstan motor driver (DECK B)
56	B-CAPM3	O	Capstan motor driver (DECK B)
57	B-CAPM4	O	Capstan motor driver (DECK B)
58	B-CAPM1	O	Capstan motor driver (DECK B)
59	A-CAPM2	O	Capstan motor driver (DECK A)
60	A-CAPM1	O	Capstan motor driver (DECK A)
61	A-CAPM3	O	Capstan motor driver (DECK A)
62	A-CAPM4	O	Capstan motor driver (DECK A)
63 – 79	S17 – S1	O	Fluorescent indicator tube segment driver
80	—	—	Not used in this set.
81 – 87	G1 – G7	O	Fluorescent indicator tube grid driver
88	VEE	—	Fluorescent indicator tube power supply (-24 V)
89	VCC	—	Power supply (+5 V)
90	VREF	—	Connected to power supply.
91	AVSS	—	Ground
92 – 97	—	—	Not used in this set.
98	TRGAON/ $\overline{\text{OFF}}$	O	Trigger control output (DECK A)
99	TRGBON/ $\overline{\text{OFF}}$	O	Trigger control output (DECK B)
100	A-HALF	I	Half switch input (DECK A)

5-2. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.

(In addition to this, the necessary note is printed in each block.)

• For printed wiring boards.

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

○ ▨ ○
E C B
— omitted

• For schematic diagrams.

- All capacitors are in μF unless otherwise noted. pF: μpF 50 WV 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.
- % : 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 : PB (DECK B)

() : REC (DECK B)

< > : PB (DECK A)

[] : STOP

* : Impossible to measure

- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.

• Signal path.

: PB (DECK A)

: PB (DECK B)

: REC (DECK B)

• Abbreviation

CND : Canadian model.

AUS : Australian model.

SP : Singapore model.

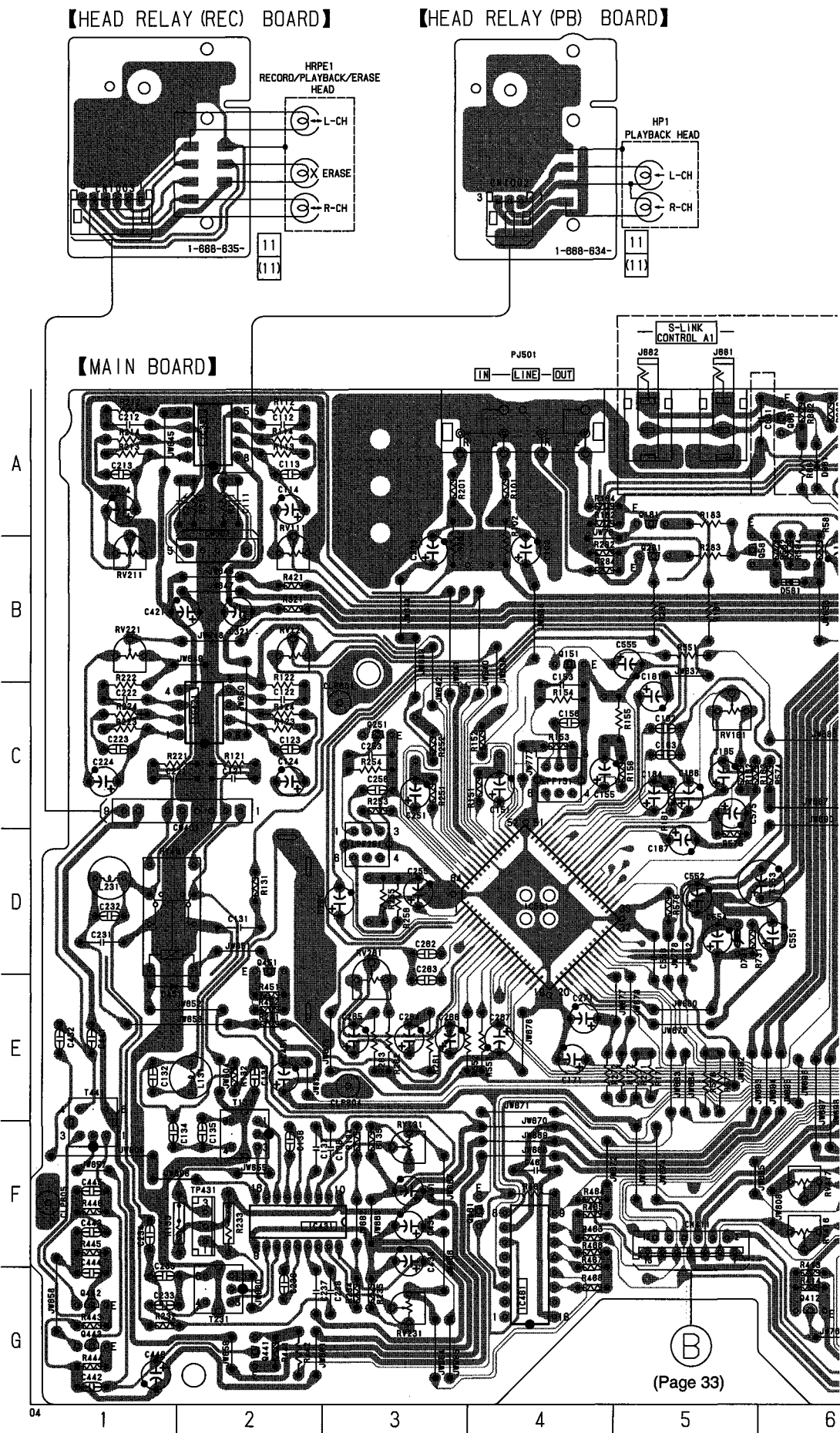
MY : Malaysia model.

CH : Chinese model.

• Semiconductor
Location

Ref. No.	Location
D159	C-7
D259	C-7
D306	D-11
D307	D-11
D318	D-11
D451	E-1
D581	B-6
D681	A-6
D701	B-10
D702	B-10
D703	A-10
D704	A-10
D705	B-10
D711	A-7
D712	A-8
D721	B-8
D731	D-5
D741	A-10
D761	A-8
D781	C-10
D782	C-11
D783	C-10
D791	A-11
D792	A-11
D793	D-10
D801	F-7
IC321	A-2
IC421	C-2
IC431	F-2
IC461	G-4
IC551	D-4
IC591	A-7
IC661	B-9
IC701	A-9
IC801	D-8
IC841	D-7
Q151	B-4
Q181	A-5
Q251	C-3
Q281	B-5
Q301	E-12
Q302	E-12
Q303	E-12
Q306	E-11
Q307	D-11
Q308	D-11
Q311	E-11
Q312	E-11
Q314	E-11
Q316	E-12
Q317	D-12
Q318	D-12
Q381	C-10
Q382	C-10
Q401	G-7
Q402	G-7
Q403	F-7
Q411	G-6
Q412	G-6
Q414	F-6
Q417	F-6
Q441	G-2
Q442	G-1
Q443	G-1
Q451	D-2
Q461	F-4
Q481	D-10
Q482	D-10
Q581	B-6
Q681	A-6
Q721	A-9
Q722	A-9
Q741	A-10
Q742	A-10
Q743	A-10
Q761	A-8
Q781	C-10
Q782	C-11
Q801	F-7
Q821	D-10

5-3. PRINTED WIRING BOARDS — MAIN SECTION —





【MAIN BOARD】(1/3)

IC321
PB AMP

IC421
PB AMP

WE425/WR681

Q318 DT144ES

Q317 DT144ES

Q316 DT144ES

Q308 DT144ES

Q307 DT144ES

Q306 DT144ES

Q305 DT144ES

Q304 DT144ES

Q303 DT144ES

Q302 DT144ES

Q301 DT144ES

Q300 DT144ES

Q299 DT144ES

Q298 DT144ES

Q297 DT144ES

Q296 DT144ES

Q295 DT144ES

Q294 DT144ES

Q293 DT144ES

Q292 DT144ES

Q291 DT144ES

Q290 DT144ES

Q289 DT144ES

Q288 DT144ES

Q287 DT144ES

Q286 DT144ES

Q285 DT144ES

Q284 DT144ES

Q283 DT144ES

Q282 DT144ES

Q281 DT144ES

Q280 DT144ES

Q279 DT144ES

Q278 DT144ES

Q277 DT144ES

Q276 DT144ES

Q275 DT144ES

Q274 DT144ES

Q273 DT144ES

Q272 DT144ES

Q271 DT144ES

Q270 DT144ES

Q269 DT144ES

Q268 DT144ES

Q267 DT144ES

Q266 DT144ES

Q265 DT144ES

Q264 DT144ES

Q263 DT144ES

Q262 DT144ES

Q261 DT144ES

Q260 DT144ES

Q259 DT144ES

Q258 DT144ES

Q257 DT144ES

Q256 DT144ES

Q255 DT144ES

Q254 DT144ES

Q253 DT144ES

Q252 DT144ES

Q251 DT144ES

Q250 DT144ES

Q249 DT144ES

Q248 DT144ES

Q247 DT144ES

Q246 DT144ES

Q245 DT144ES

Q244 DT144ES

Q243 DT144ES

Q242 DT144ES

Q241 DT144ES

Q240 DT144ES

Q239 DT144ES

Q238 DT144ES

Q237 DT144ES

Q236 DT144ES

Q235 DT144ES

Q234 DT144ES

Q233 DT144ES

Q232 DT144ES

Q231 DT144ES

Q230 DT144ES

Q229 DT144ES

Q228 DT144ES

Q227 DT144ES

Q226 DT144ES

Q225 DT144ES

Q224 DT144ES

Q223 DT144ES

Q222 DT144ES

Q221 DT144ES

Q220 DT144ES

Q219 DT144ES

Q218 DT144ES

Q217 DT144ES

Q216 DT144ES

Q215 DT144ES

Q214 DT144ES

Q213 DT144ES

Q212 DT144ES

Q211 DT144ES

Q210 DT144ES

Q209 DT144ES

Q208 DT144ES

Q207 DT144ES

Q206 DT144ES

Q205 DT144ES

Q204 DT144ES

Q203 DT144ES

Q202 DT144ES

Q201 DT144ES

Q200 DT144ES

Q199 DT144ES

Q198 DT144ES

Q197 DT144ES

Q196 DT144ES

Q195 DT144ES

Q194 DT144ES

Q193 DT144ES

Q192 DT144ES

Q191 DT144ES

Q190 DT144ES

Q189 DT144ES

Q188 DT144ES

Q187 DT144ES

Q186 DT144ES

Q185 DT144ES

Q184 DT144ES

Q183 DT144ES

Q182 DT144ES

Q181 DT144ES

Q180 DT144ES

Q179 DT144ES

Q178 DT144ES

Q177 DT144ES

Q176 DT144ES

Q175 DT144ES

Q174 DT144ES

Q173 DT144ES

Q172 DT144ES

Q171 DT144ES

Q170 DT144ES

Q169 DT144ES

Q168 DT144ES

Q167 DT144ES

Q166 DT144ES

Q165 DT144ES

Q164 DT144ES

Q163 DT144ES

Q162 DT144ES

Q161 DT144ES

Q160 DT144ES

Q159 DT144ES

Q158 DT144ES

Q157 DT144ES

Q156 DT144ES

Q155 DT144ES

Q154 DT144ES

Q153 DT144ES

Q152 DT144ES

Q151 DT144ES

Q150 DT144ES

Q149 DT144ES

Q148 DT144ES

Q147 DT144ES

Q146 DT144ES

Q145 DT144ES

Q144 DT144ES

Q143 DT144ES

Q142 DT144ES

Q141 DT144ES

Q140 DT144ES

Q139 DT144ES

Q138 DT144ES

Q137 DT144ES

Q136 DT144ES

Q135 DT144ES

Q134 DT144ES

Q133 DT144ES

Q132 DT144ES

Q131 DT144ES

Q130 DT144ES

Q129 DT144ES

Q128 DT144ES

Q127 DT144ES

Q126 DT144ES

Q125 DT144ES

Q124 DT144ES

Q123 DT144ES

Q122 DT144ES

Q121 DT144ES

Q120 DT144ES

Q119 DT144ES

Q118 DT144ES

Q117 DT144ES

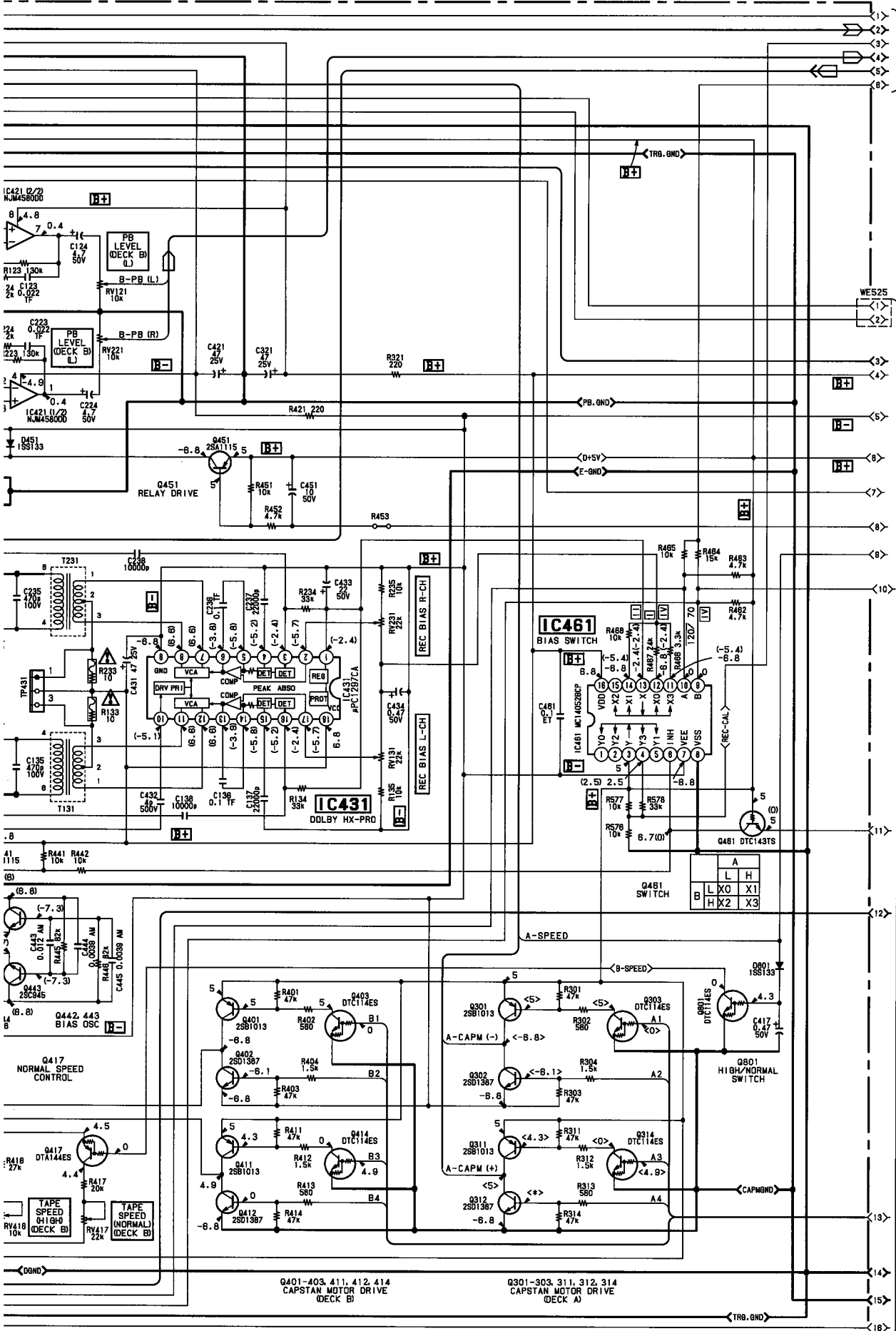
Q116 DT144ES

Q115 DT144ES

Q

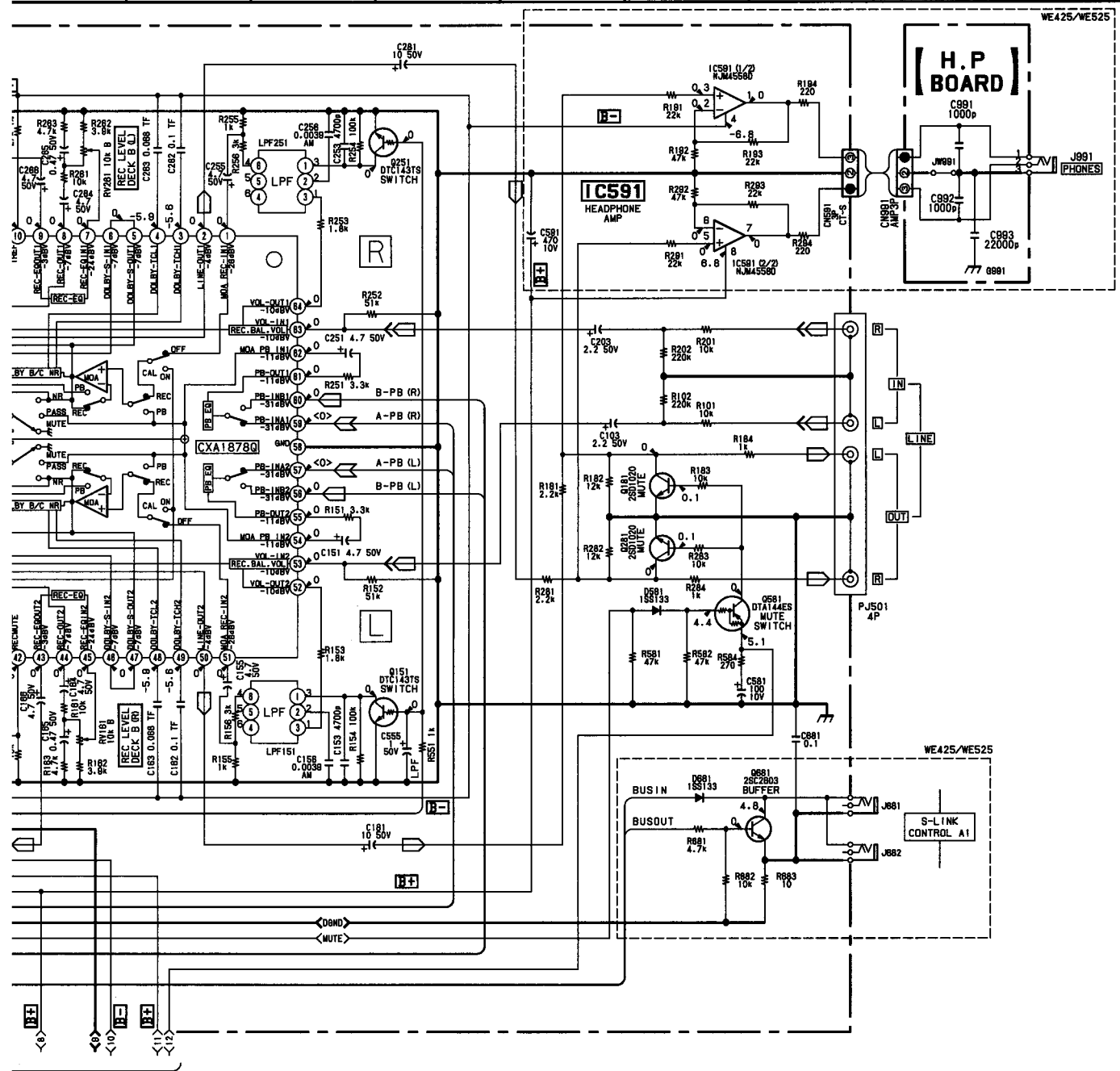
10 11 12 13 14 15 16 17 18

①
(Page 21)

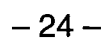


②
(Page 23)

7 8 9 10 11 12 13 14 15



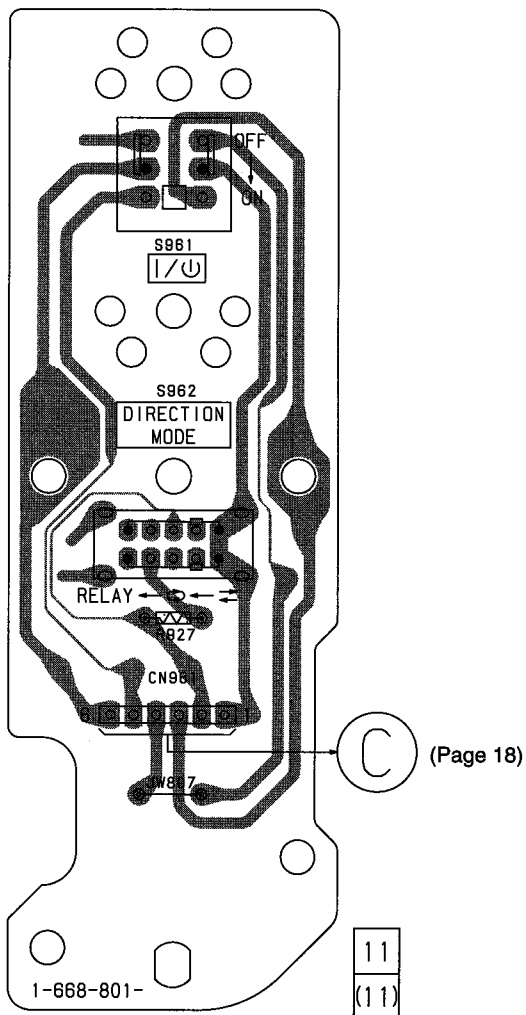
1



【DISPLAY BOARD】

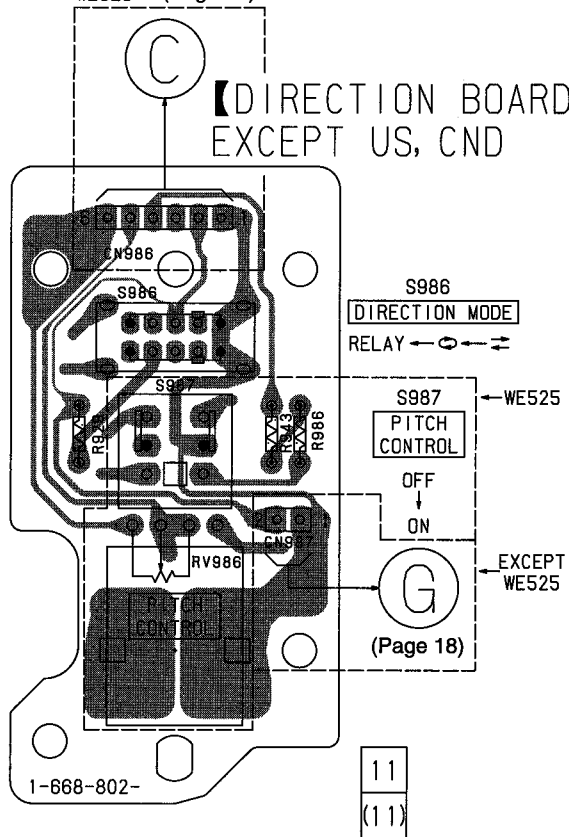


【POWER2 BOARD】 US, CND



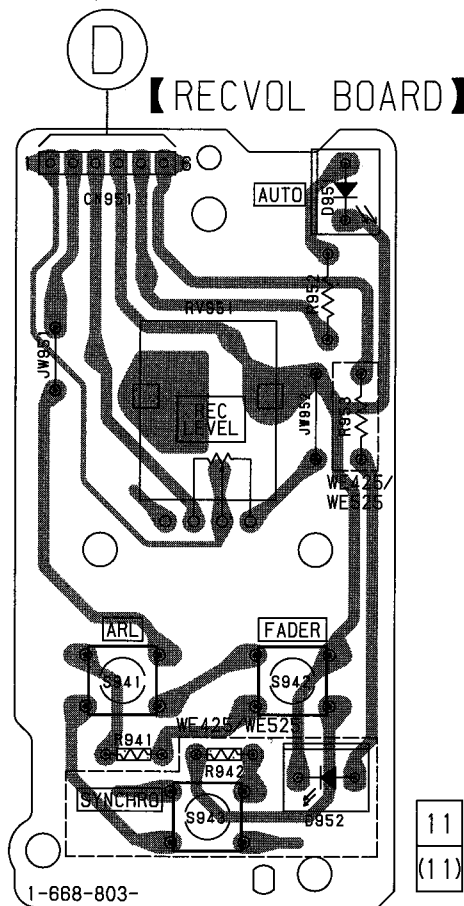
WE525 (Page 18)

【DIRECTION BOARD】
EXCEPT US, CND



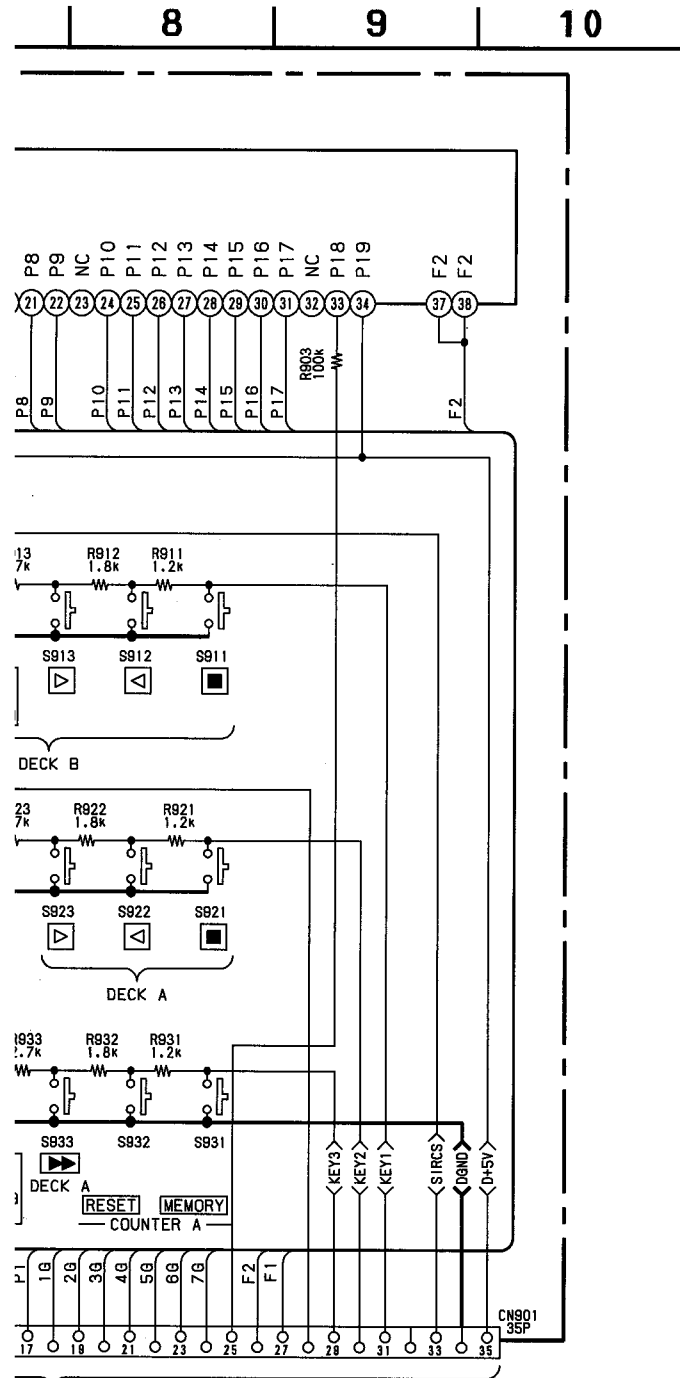
(Page 18)

【RECVOL BOARD】



1	2	3	4	5	6	7
---	---	---	---	---	---	---



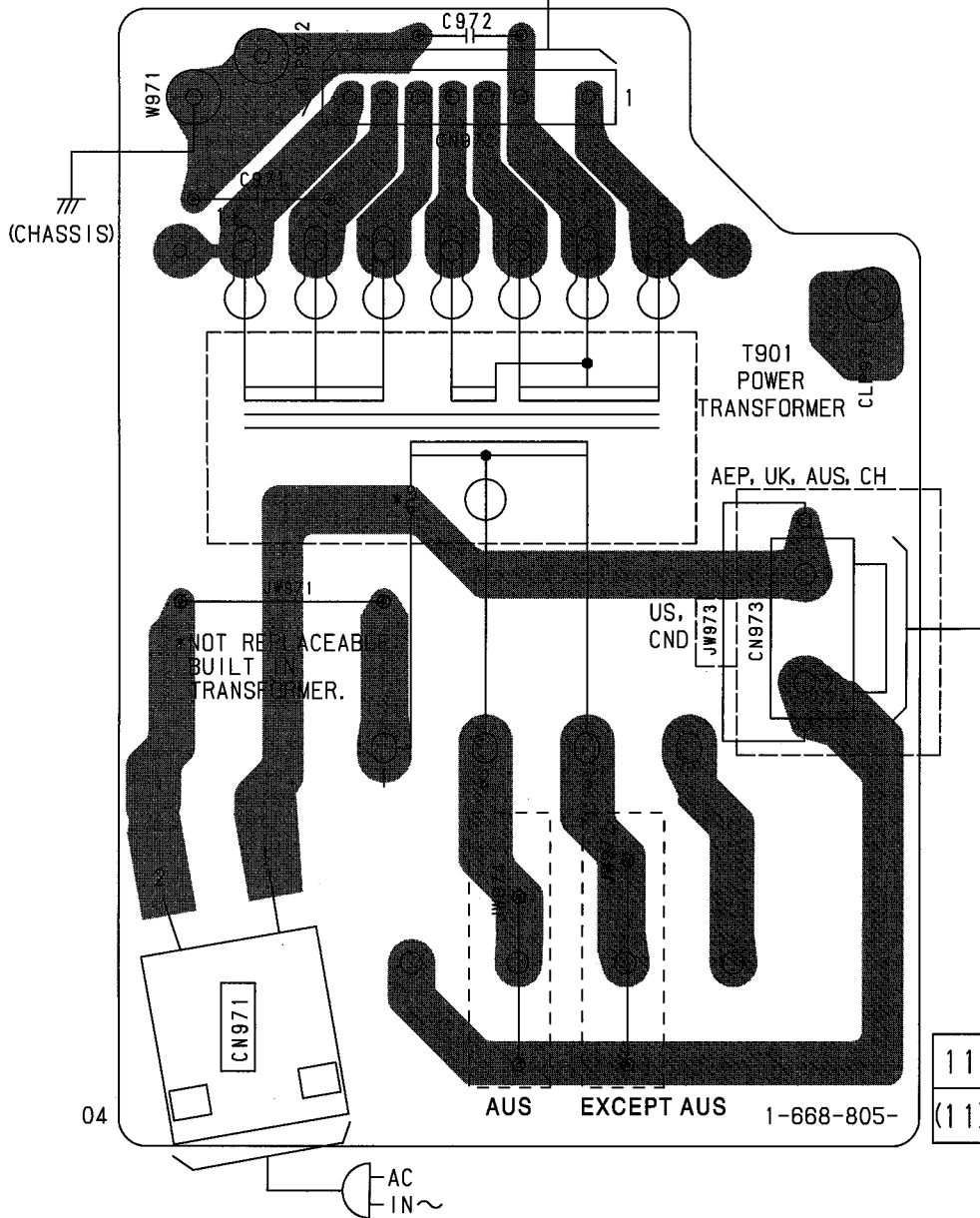


E

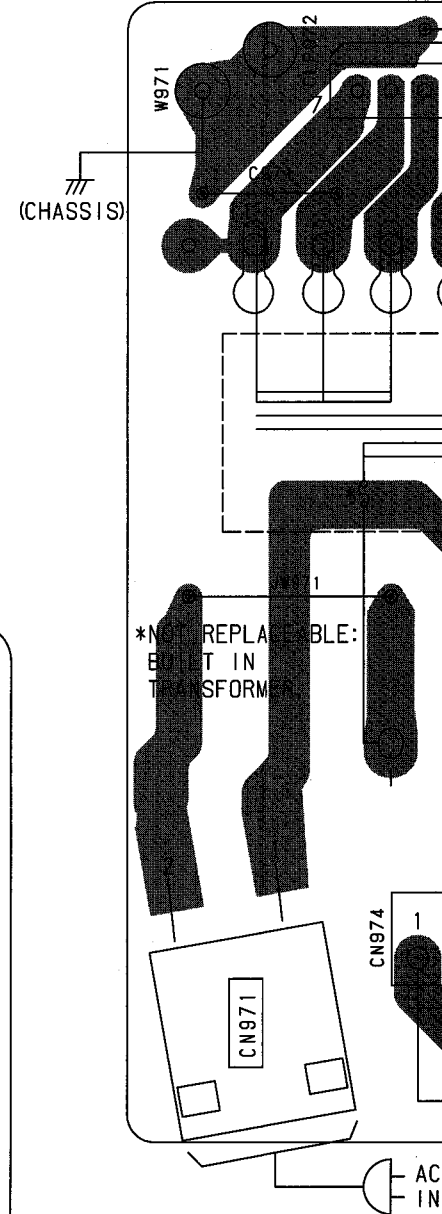
Page 23)

5-9. PRINTED WIRING BOARDS — POWER SECTION —

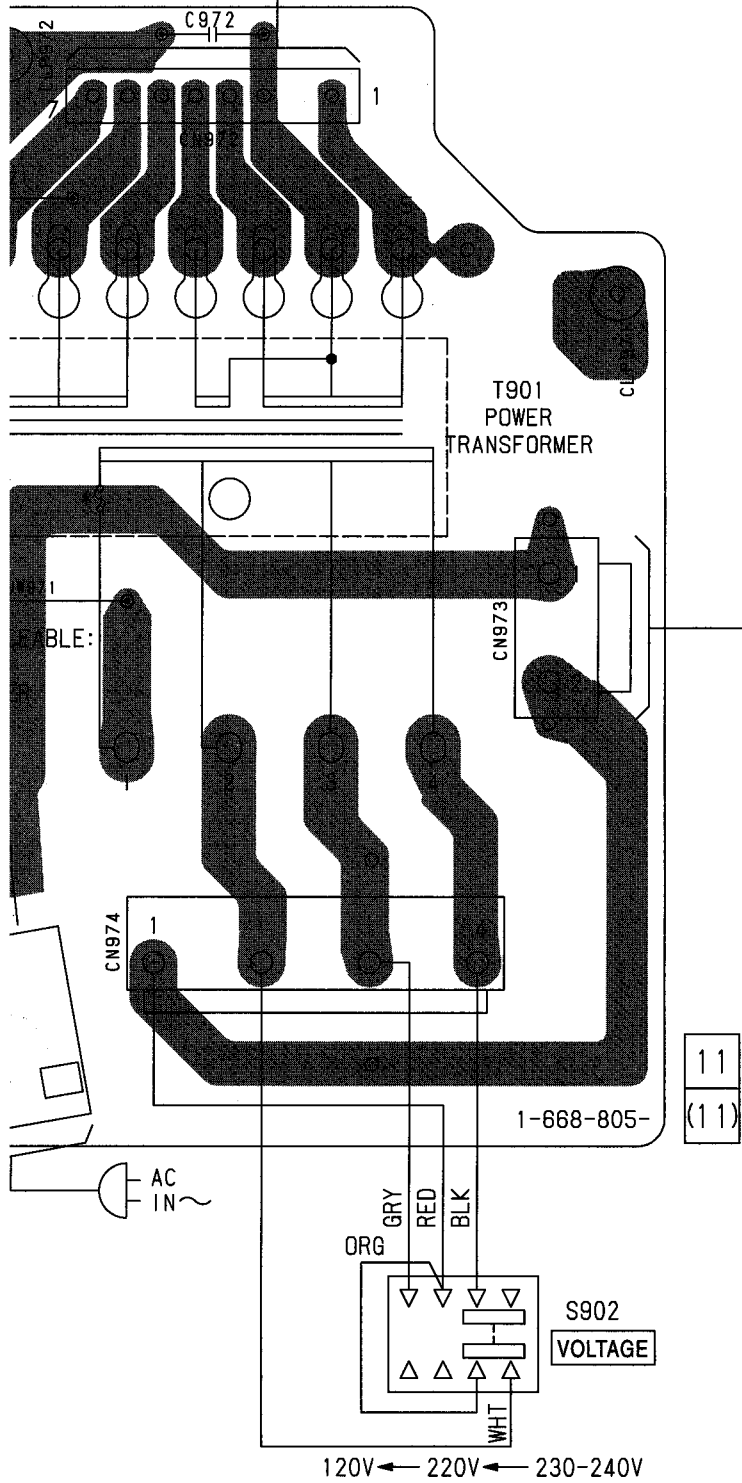
【POWER BOARD】
EXCEPT E, SP, MY (Page 18)



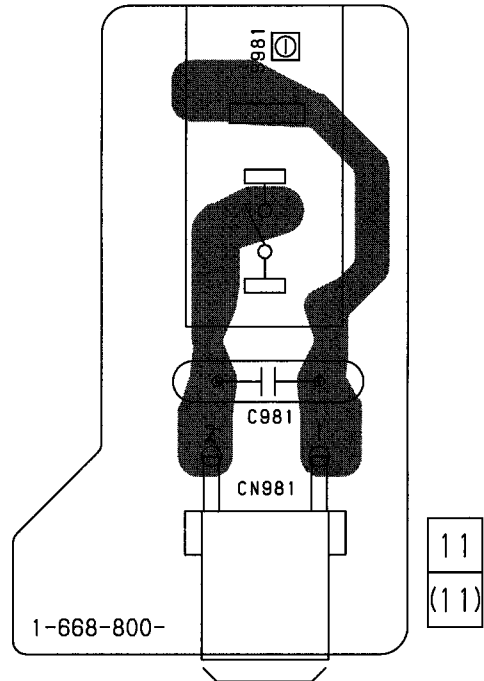
【POWER BOARD】
E, SP, MY



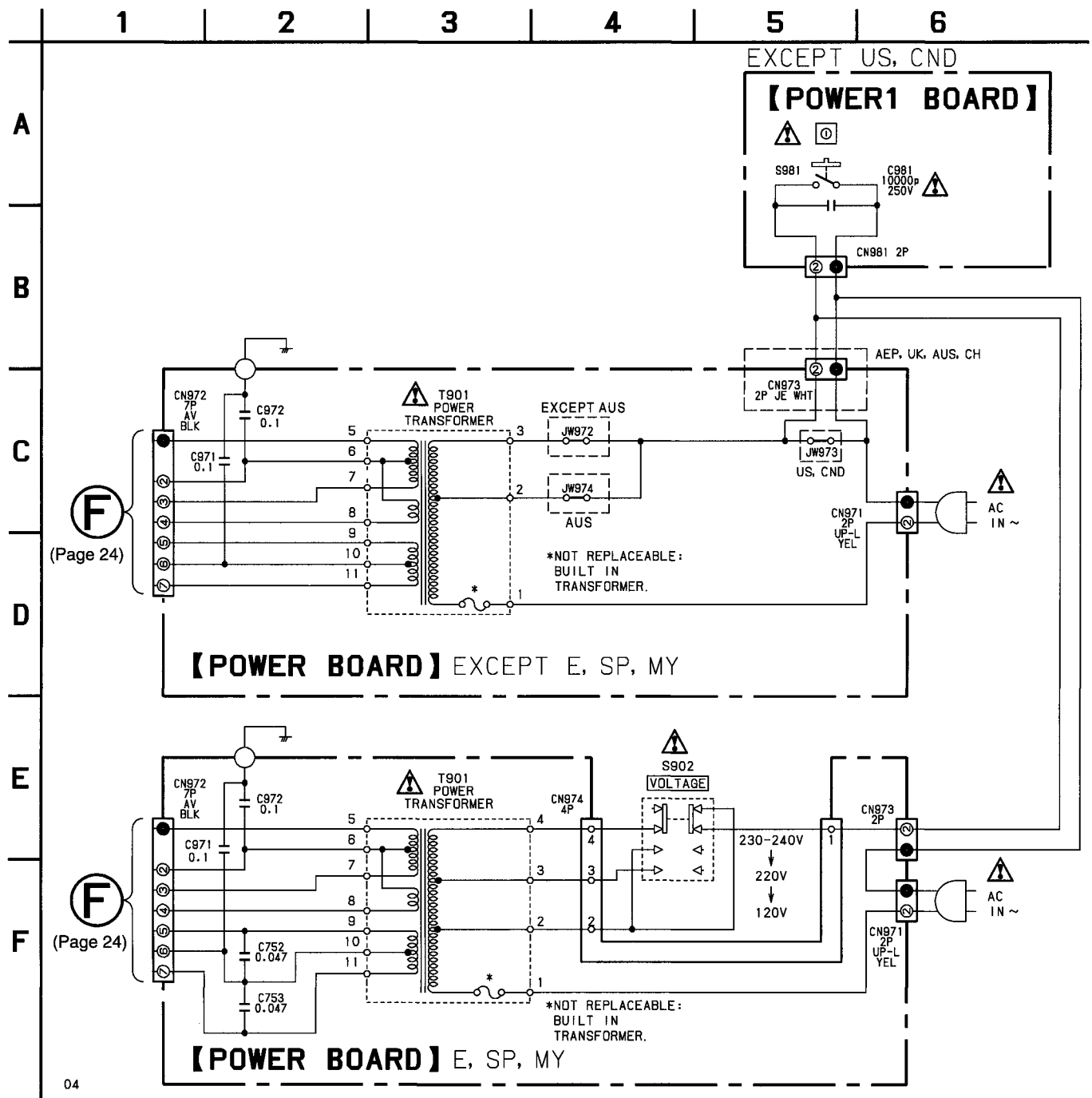
BOARD】 (Page 18)



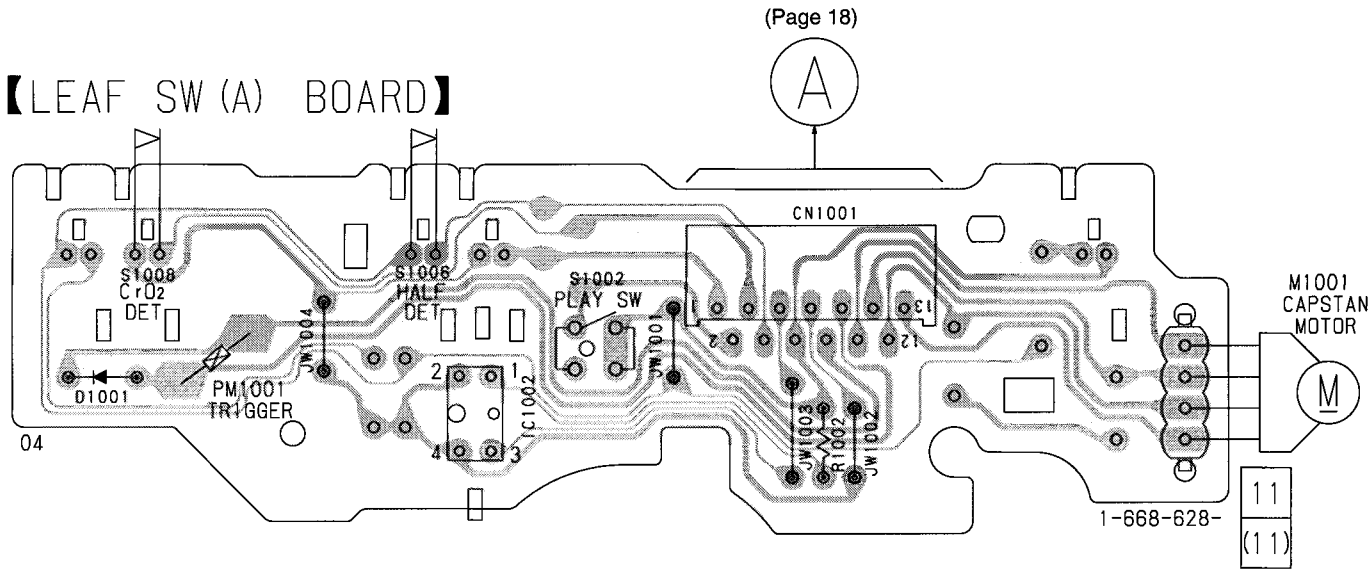
【POWER1 BOARD】
EXCEPT US, CND



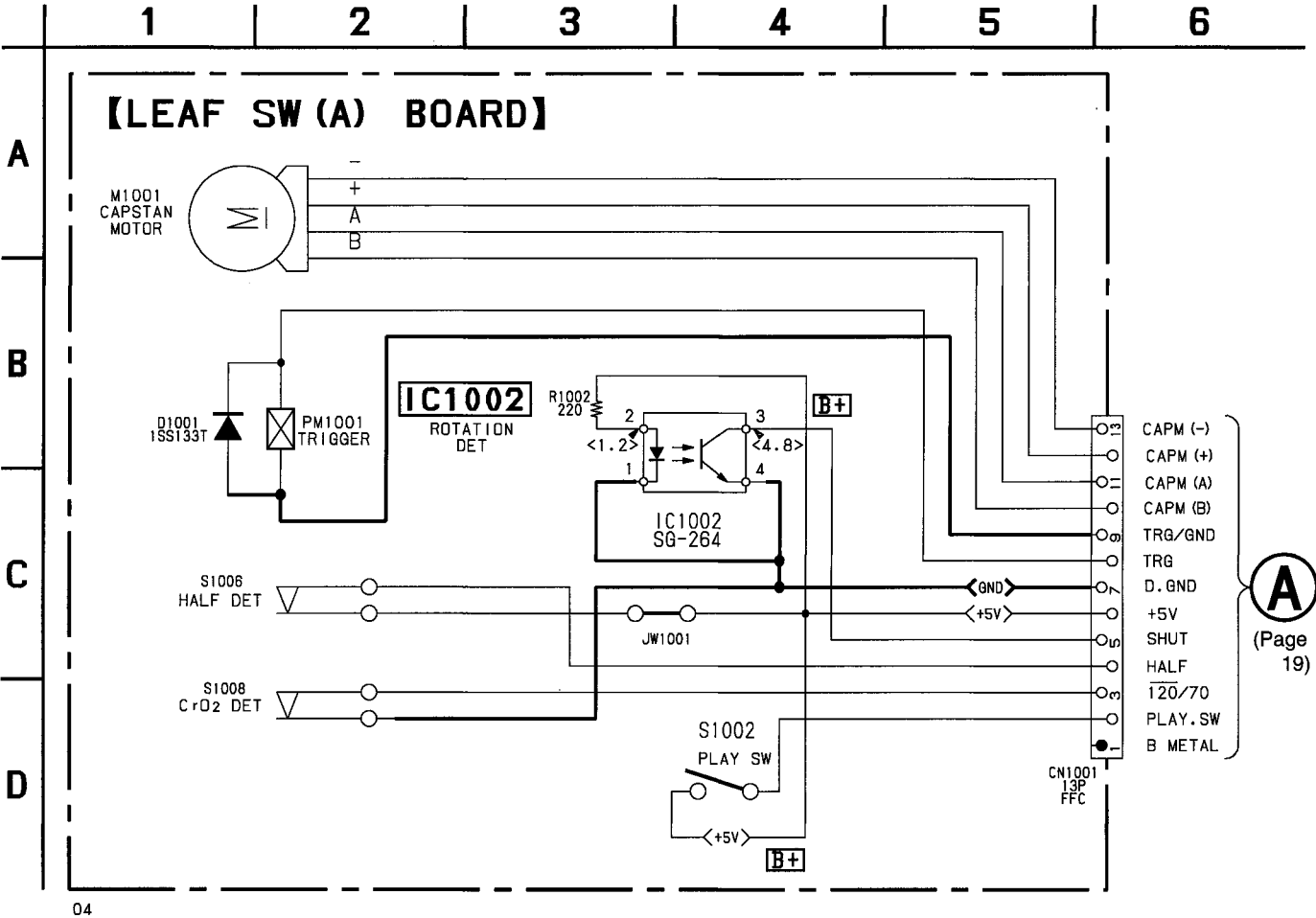
5-10. SCHEMATIC DIAGRAM — POWER SECTION —



5-11. PRINTED WIRING BOARD — DECK A SECTION —



5-12. SCHEMATIC DIAGRAM — DECK A SECTION —



SECTION 6

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
CND : Canadian model
AUS : Australian model
SP : Singapore model
MY : Malaysia model
CH : Chinese model

- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example :

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

↑

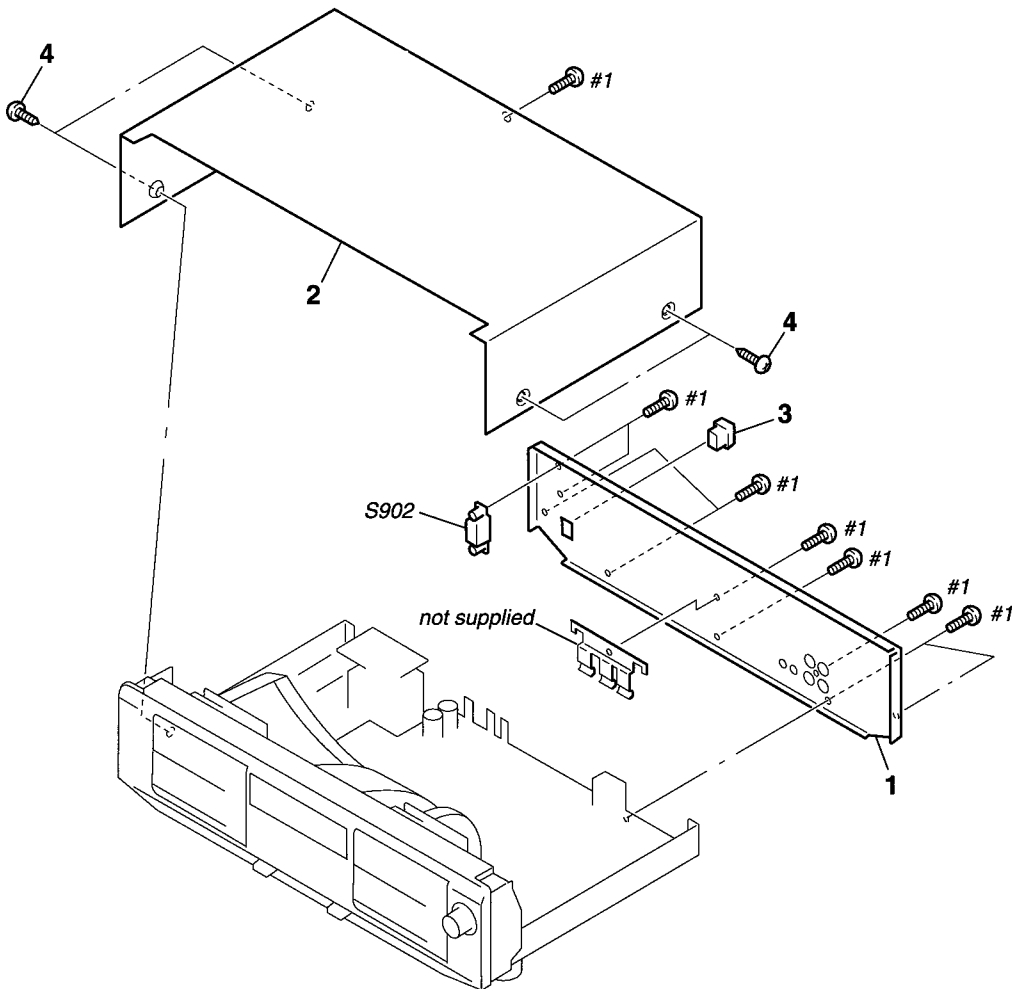
↑

Parts Color Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

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

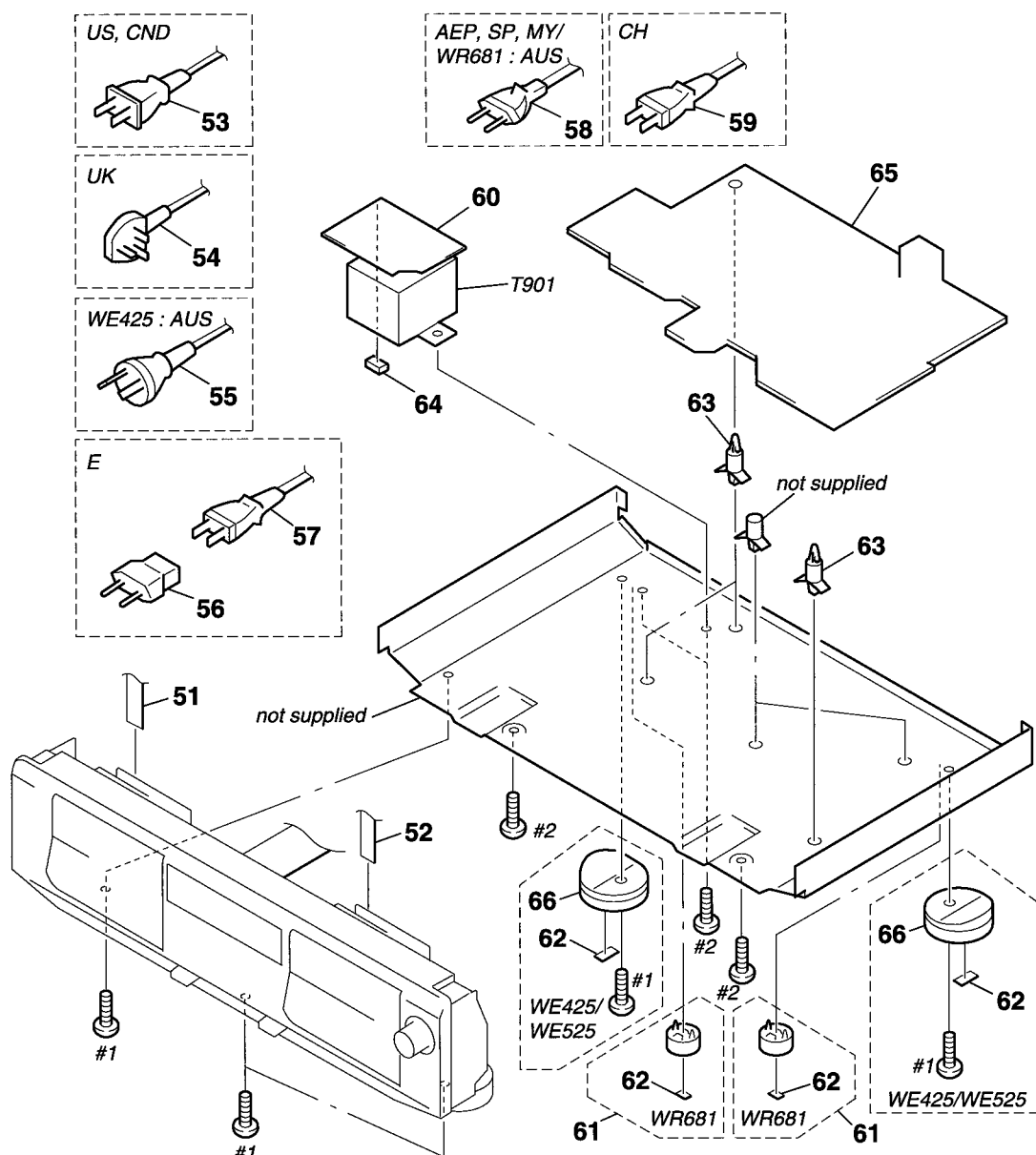
Les composants identifiés par une
marque Δ sont critiques pour
la sécurité.
Ne les remplacer que par une pièce
portant le numéro spécifié.

6-1. CASE SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
* 1	3-021-244-01	PANEL, BACK (WE425:US)		* 2	3-935-634-01	CASE (410726)	
* 1	3-021-244-11	PANEL, BACK (WE425:CND)		* 3	3-703-244-00	BUSHING (2104), CORD (EXCEPT E)	
* 1	3-021-244-21	PANEL, BACK (WE525:AEP)		* 3	3-703-571-11	BUSHING (S) (4516), CORD (E)	
* 1	3-021-244-31	PANEL, BACK (WE525:UK)		4	3-363-099-01	SCREW (CASE 3 TP2)	
* 1	3-021-244-41	PANEL, BACK (WE425:AUS)		△ S902	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE)	(E,SP,MY)
* 1	3-021-244-51	PANEL, BACK (WE425:SP,MY)					
* 1	3-021-244-61	PANEL, BACK (WE425:CH)					
* 1	3-021-245-01	PANEL, BACK (WR681:US)					
* 1	3-021-245-11	PANEL, BACK (WR681:AEP)					
* 1	3-021-245-21	PANEL, BACK (WR681:E)					
* 1	3-021-245-31	PANEL, BACK (WR681:AUS)					
* 1	3-021-245-41	PANEL, BACK (WR681:SP)					

6-2. CHASSIS SECTION

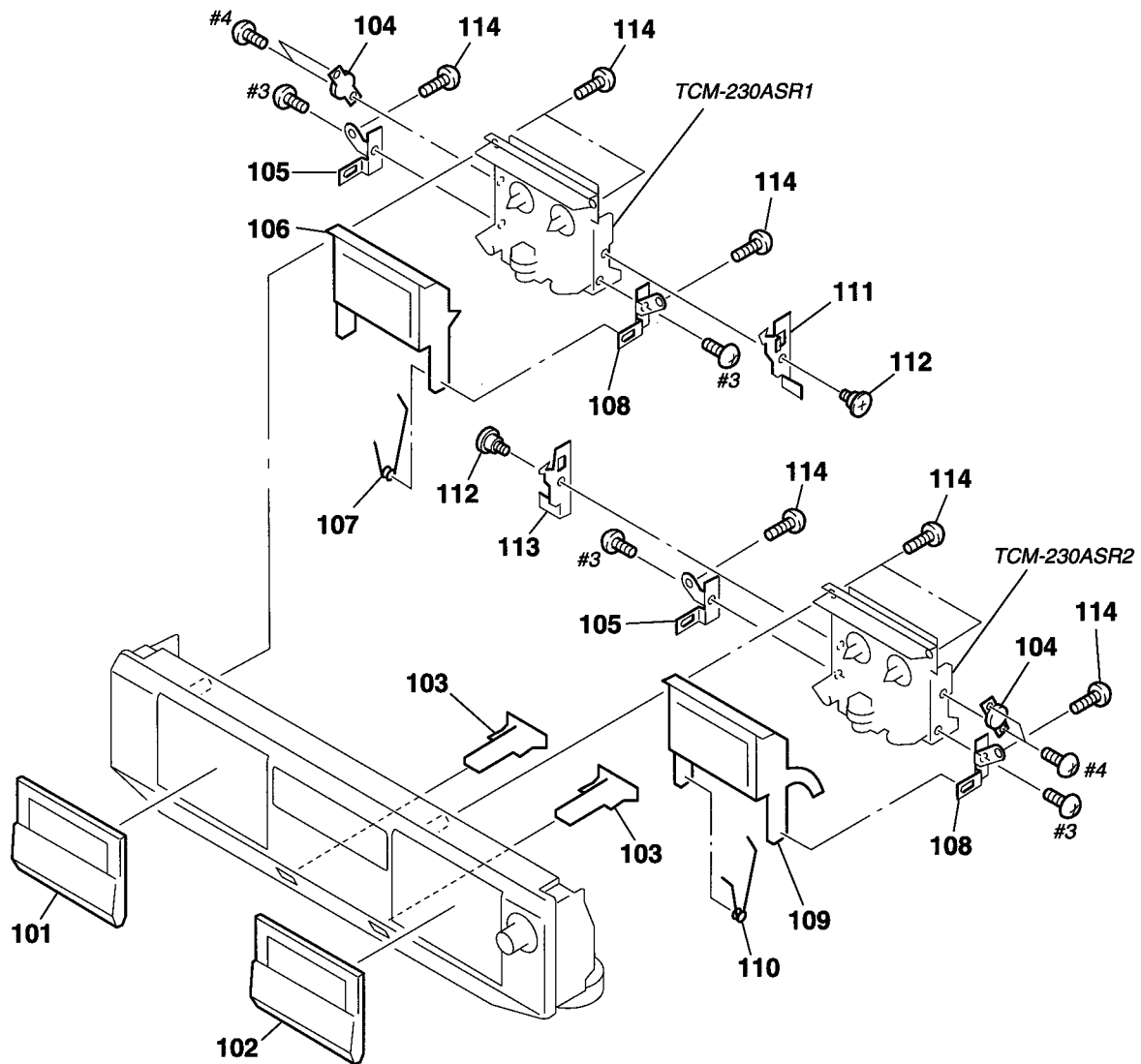


The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

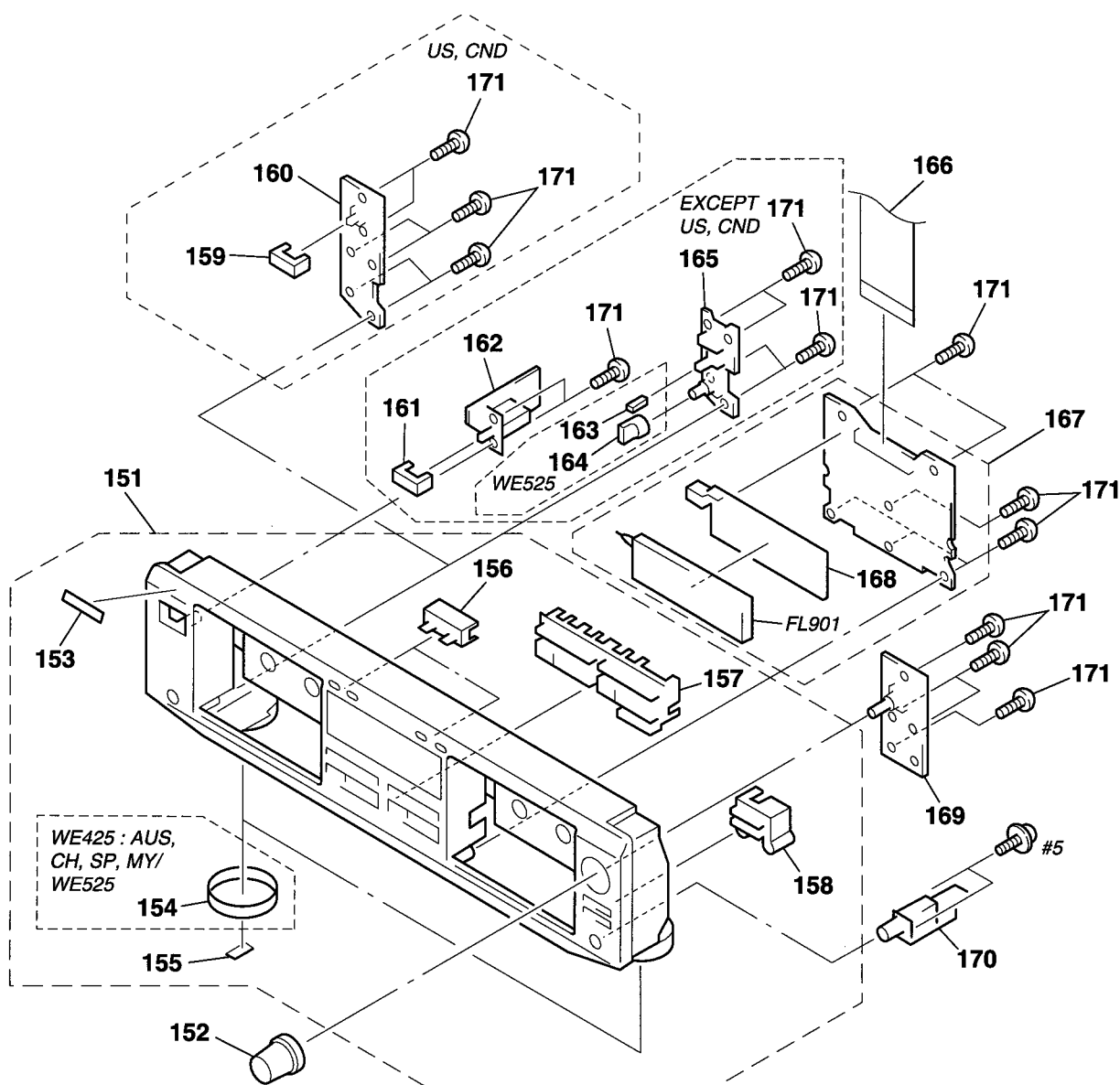
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	1-769-984-11	WIRE (FLAT TYPE) (13 CORE)		* 65	A-2007-783-A	MAIN BOARD, COMPLETE (WE425:US,CND)	
52	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)		* 65	A-2007-786-A	MAIN BOARD, COMPLETE (WE525)	
Δ 53	1-590-926-11	CORD, POWER (US,CND)		* 65	A-2007-793-A	MAIN BOARD, COMPLETE (WE425:AUS,CH,SP,MY)	
Δ 54	1-751-529-11	CORD, POWER (UK)		* 65	A-2007-796-A	MAIN BOARD, COMPLETE (WR681:US)	
Δ 55	1-696-845-11	CORD, POWER (WE425:AUS)		* 65	A-2007-797-A	MAIN BOARD, COMPLETE (WR681:AEP,E,AUS,SP)	
Δ 56	1-569-007-11	ADAPTOR, CONVERSION 2P (E)		66	4-977-591-01	FOOT (F50150S) (WE425:AUS,CH,SP,MY/WE525)	
Δ 57	1-558-943-41	CORD, POWER (E)		66	4-977-591-11	FOOT (F50150S) (WE425:US,CND)	
Δ 58	1-575-651-21	CORD, POWER (AEP,SP,MY/WR681:AUS)		Δ T901	1-429-387-11	TRANSFORMER, POWER (US,CND)	
Δ 59	1-782-510-11	CORD, POWER (CH)		Δ T901	1-429-872-11	TRANSFORMER, POWER (AEP,UK,AUS,CH)	
* 60	1-668-805-11	POWER BOARD		Δ T901	1-431-970-11	TRANSFORMER, POWER (E,SP,MY)	
61	X-4946-543-2	FOOT (SMALL) ASSY (WR681)					
* 62	4-978-398-21	CUSHION					
* 63	3-346-265-31	HOLDER, PC BOARD					
* 64	1-573-047-11	PIN, CONNECTOR (PC BOARD) 2P					

6-3. CASSETTE HOLDER SECTION



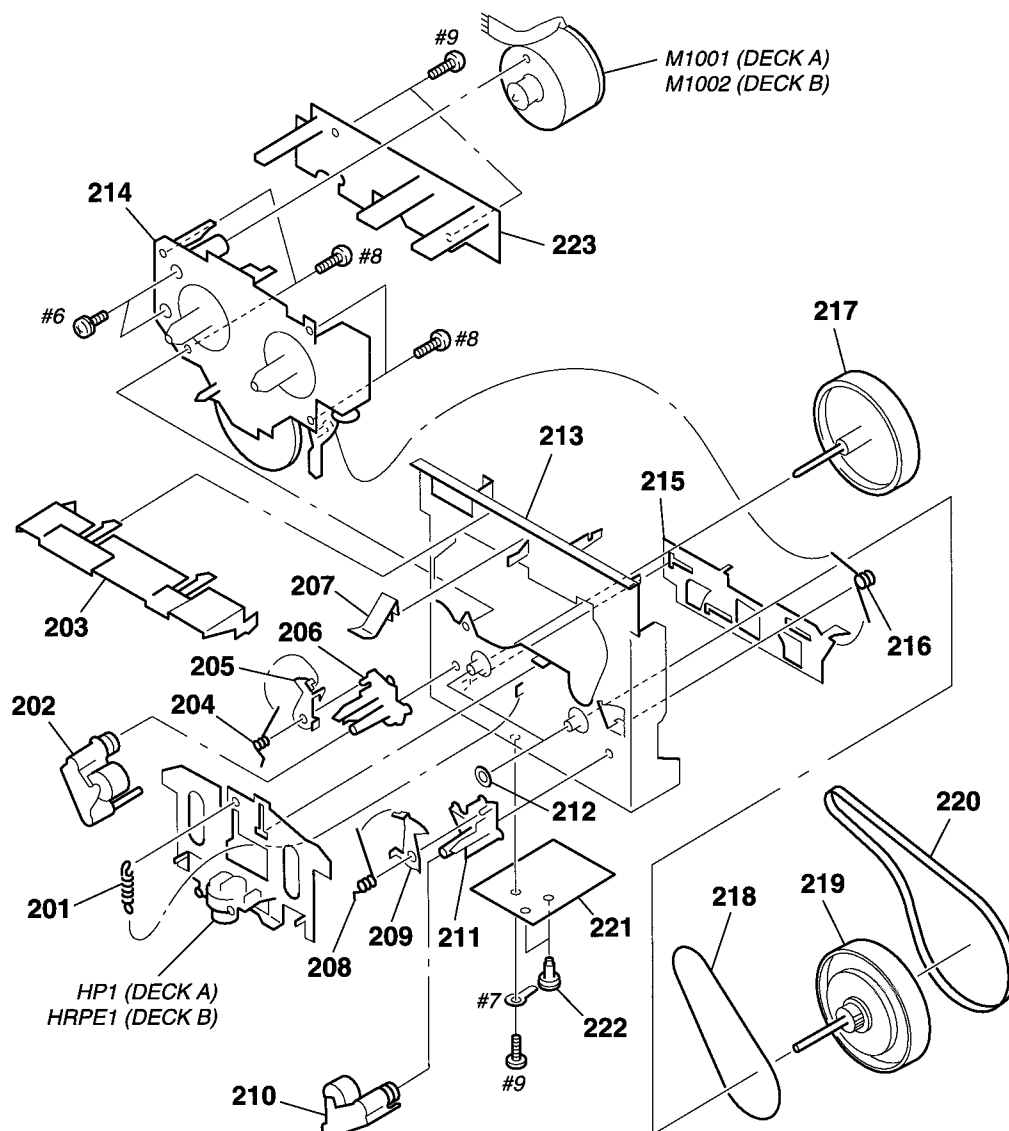
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3374-866-1	LID (A) ASSY, CASSETTE		108	3-019-451-01	PLATE (R), FULCRUM	
102	X-3374-867-1	LID (B) ASSY, CASSETTE		109	X-3375-107-1	HOLDER (L) ASSY, CASSETTE	
103	3-931-427-31	BUTTON (EJECT)		110	3-019-454-01	SPRING (L), LOADING	
104	3-022-410-01	DAMPER		111	3-019-453-01	LEVER (LOCK R)	
105	3-019-450-01	PLATE (L), FULCRUM		112	3-019-456-01	SCREW, STEP	
106	X-3375-103-1	HOLDER (R) ASSY, CASSETTE		113	3-019-452-01	LEVER (LOCK L)	
107	3-019-455-01	SPRING (R), LOADING		114	4-951-620-01	SCREW (2.6X8), +BVT	

6-4. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-3374-859-1	PANEL ASSY, FRONT (WE425:US,CND)		* 160	1-668-801-11	POWER2 BOARD (US,CND)	
151	X-3374-861-1	PANEL ASSY, FRONT (WR681)		161	3-931-429-41	BUTTON (POWER) (EXCEPT US,CND)	
151	X-3374-943-1	PANEL ASSY, FRONT (WE425:AUS,CH,SP,MY)		* 162	1-668-800-11	POWER1 BOARD (EXCEPT US,CND)	
151	X-3375-108-1	PANEL ASSY, FRONT (WE525)		163	3-380-952-21	BUTTON (WE525)	
152	3-021-239-01	KNOB (REC)		164	3-931-378-01	KNOB (F10) (WE525)	
153	4-996-698-41	EMBLEM, SONY		* 165	1-668-802-11	DIRECTION BOARD (EXCEPT US,CND)	
154	4-977-593-01	RING (DIA. 50), ORNAMENTAL (WE425:AUS,CH,SP,MY/WE525)		166	1-773-391-11	WIRE (FLAT TYPE) (35 CORE)	
* 155	4-978-398-21	CUSHION		* 167	A-2007-787-A	DISPLAY BOARD, COMPLETE	
156	3-021-232-01	BUTTON (COUNTER)		* 168	3-931-428-11	HOLDER (FL)	
157	3-021-230-11	BUTTON (FUNCTION)		* 169	1-668-803-11	RECVOL BOARD	
158	3-931-241-11	BUTTON (SYNCHRO) (WR681)		* 170	1-668-804-11	H.P BOARD (WE425/WE525)	
158	X-3371-370-1	BUTTON (SYNCHRO) ASSY (WE425/WE525)		171	4-951-620-01	SCREW (2.6X8), +BVTP	
159	3-931-429-51	BUTTON (POWER) (US,CND)		FL901	1-517-491-11	INDICATOR TUBE, FLUORESCENT	

6-5. TAPE MECHANISM SECTION
(DECK A : TCM-230ASR1)
(DECK B : TCM-230ASR2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-016-574-01	SPRING (HEAD), TENSION		216	3-016-575-01	SPRING, TORSION	
202	X-3374-156-3	PINCH LEVER (REV) ASSY		217	X-3374-235-1	FLYWHEEL (REV) ASSY	
* 203	3-019-457-01	COVER, LEAF SWITCH		218	3-024-405-01	BELT (FR2)	
204	3-016-576-01	SPRING, TORSION (DECK B)		219	X-3374-234-5	FLYWHEEL (FWD) ASSY	
205	3-016-572-01	LEVER (EJECT PREVENTION L) (DECK B)		220	3-016-570-01	BELT (CAPSTAN)	
206	3-016-565-01	BASE (PINCH LEVER REV)		* 221	1-668-634-11	HEAD RELAY (PB) BOARD (DECK A)	
207	3-016-567-01	SPRING (CASSETTE), LEAF		* 221	1-668-635-11	HEAD RELAY (REC) BOARD (DECK B)	
208	3-016-577-01	SPRING, TORSION (DECK A)		222	3-911-116-21	RIVET, PUSH	
209	3-016-573-01	LEVER (EJECT PREVENTION R) (DECK A)		* 223	1-668-628-11	LEAF SW (A) BOARD (DECK A)	
210	X-3374-155-3	PINCH LEVER (FWD) ASSY		* 223	1-668-628-11	LEAF SW (B) BOARD (DECK B)	
211	3-016-564-01	BASE (PINCH LEVER FWD)		HP1	A-2004-645-A	DECK (A) ASSY, HEAD (PLAYBACK) (DECK A)	
212	3-019-208-01	WASHER, STOPPER		HRPE1	A-2004-646-A	DECK (B) ASSY, HEAD (RECORD/PLAYBACK/ERASE) (DECK B)	
* 213	X-3374-828-1	CHASSIS ASSY, MECHANICAL		M1001	A-2004-644-A	MOTOR ASSY, CAPSTAN (DECK A)	
214	A-2004-688-A	MECHANICAL BLOCK ASSY		M1002	A-2004-644-A	MOTOR ASSY, CAPSTAN (DECK B)	
215	3-016-566-01	SLIDER, REVERSE					

SECTION 7 ELECTRICAL PARTS LIST

DIRECTION

DISPLAY

H. P

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
- Abbreviation
CND : Canadian model MY : Malaysia model
AUS : Australian model CH : Chinese model
SP : Singapore model

- 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

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	Ref. No.	Part No.	Description	Remark
*	1-668-802-11	DIRECTION BOARD (EXCEPT US,CND) *****		R914	1-249-424-11	CARBON 3.9K 5%	1/4W
		< RESISTOR >		R915	1-249-427-11	CARBON 6.8K 5%	1/4W
R929	1-249-437-11	CARBON 47K 5%	1/4W	R916	1-249-431-11	CARBON 15K 5%	1/4W
R943	1-249-439-11	CARBON 68K 5%	1/4W (WE525)	R917	1-249-437-11	CARBON 47K 5%	1/4W
R986	1-249-429-11	CARBON 10K 5%	1/4W (WE525)	R921	1-249-418-11	CARBON 1.2K 5%	1/4W
		< VARIABLE RESISTOR >		R922	1-249-420-11	CARBON 1.8K 5%	1/4W
RV986	1-225-619-11	RES, VAR, CARBON 10K (PITCH CONTROL) (WE525)		R923	1-249-422-11	CARBON 2.7K 5%	1/4W
		< SWITCH >		R924	1-249-424-11	CARBON 3.9K 5%	1/4W
S986	1-762-567-11	SWITCH, SLIDE (DIRECTION MODE)		R925	1-249-427-11	CARBON 6.8K 5%	1/4W
S987	1-554-118-00	SWITCH, PUSH (1 KEY) (PITCH CONTROL) (WE525)		R931	1-249-418-11	CARBON 1.2K 5%	1/4W
*****						< SWITCH >	
*	A-2007-787-A	DISPLAY BOARD, COMPLETE *****		S901	1-762-567-11	SWITCH, SLIDE (DOLBY NR)	
*	3-931-428-11	HOLDER (FL)		S911	1-554-303-21	SWITCH, TACTILE (■) (DECK B)	
		< CAPACITOR >		S912	1-554-303-21	SWITCH, TACTILE (<) (DECK B)	
C901	1-104-665-11	ELECT 100uF 20% 10V		S913	1-554-303-21	SWITCH, TACTILE (>) (DECK B)	
		< CONNECTOR >		S914	1-554-303-21	SWITCH, TACTILE (O REC MUTING) (DECK B)	
CN901	1-784-757-11	CONNECTOR, FFC 35P		S915	1-554-303-21	SWITCH, TACTILE (PAUSE) (DECK B)	
		< FLUORESCENT INDICATOR >		S916	1-554-303-21	SWITCH, TACTILE (<<) (DECK A)	
FL901	1-517-491-11	INDICATOR TUBE, FLUORESCENT		S921	1-554-303-21	SWITCH, TACTILE (■) (DECK A)	
		< IC >		S922	1-554-303-21	SWITCH, TACTILE (<) (DECK A)	
IC901	8-749-014-66	IC NJL56H400		S923	1-554-303-21	SWITCH, TACTILE (>) (DECK A)	
		< RESISTOR >		S924	1-554-303-21	SWITCH, TACTILE (<<) (DECK B)	
R901	1-247-807-11	CARBON 100 5%	1/4W	S925	1-554-303-21	SWITCH, TACTILE (>>) (DECK B)	
R902	1-247-807-11	CARBON 100 5%	1/4W	S926	1-554-303-21	SWITCH, TACTILE (● REC) (DECK B)	
R903	1-249-441-11	CARBON 100K 5%	1/4W	S931	1-554-303-21	SWITCH, TACTILE (MEMORY) (DECK A)	
R911	1-249-418-11	CARBON 1.2K 5%	1/4W	S932	1-554-303-21	SWITCH, TACTILE (RESET) (DECK A)	
R912	1-249-420-11	CARBON 1.8K 5%	1/4W	S933	1-554-303-21	SWITCH, TACTILE (>>) (DECK A)	
R913	1-249-422-11	CARBON 2.7K 5%	1/4W	S934	1-554-303-21	SWITCH, TACTILE (HIGH/NORMAL, DUBBING A→B)	
				S935	1-554-303-21	SWITCH, TACTILE (MEMORY) (DECK B)	
				S936	1-554-303-21	SWITCH, TACTILE (RESET) (DECK B)	

				*	1-668-804-11	H.P BOARD (WE425/WE525) *****	
						< CAPACITOR >	
				C991	1-162-294-31	CERAMIC 0.001uF 10% 50V	
				C992	1-162-294-31	CERAMIC 0.001uF 10% 50V	
				C993	1-161-494-00	CERAMIC 0.022uF 25V	

H. P	HEAD RELAY (PB)	HEAD RELAY (REC)
-------------	------------------------	-------------------------

LEAF SW (A)	LEAF SW (B)	MAIN
--------------------	--------------------	-------------

Ref. No.	Part No.	Description	Remark
< JACK >			
J991	1-568-519-41	JACK, LARGE TYPE (PHONES)	

*	1-668-634-11	HEAD RELAY (PB) BOARD	

< CONNECTOR >			
* CN1002	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	

*	1-668-635-11	HEAD RELAY (REC) BOARD	

< CONNECTOR >			
CN1003	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	

*	1-668-628-11	LEAF SW (A) BOARD	

< CONNECTOR >			
CN1001	1-568-444-11	SOCKET, CONNECTOR 13P	
< DIODE >			
D1001	8-719-991-33	DIODE 1SS133T-77	
< PHOTO INTERRUPTER >			
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264	
< RESISTOR >			
R1002	1-249-409-11	CARBON 220 5% 1/4W	
< SWITCH >			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (PLAY)	
S1006	1-771-333-11	SWITCH, LEAF (HALF DET)	
S1008	1-771-205-11	SWITCH, LEAF (CrO ₂ DET)	

*	1-668-628-11	LEAF SW (B) BOARD	

< CONNECTOR >			
CN1001	1-568-444-11	SOCKET, CONNECTOR 13P	
< DIODE >			
D1001	8-719-991-33	DIODE 1SS133T-77	
< PHOTO INTERRUPTER >			
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264	

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R1002	1-249-409-11	CARBON 220 5% 1/4W	
R1003	1-249-414-11	CARBON 560 5% 1/4W	
R1004	1-247-834-11	CARBON 1.3K 5% 1/4W	
R1005	1-247-818-11	CARBON 300 5% 1/4W	
< SWITCH >			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (PLAY)	
S1005	1-771-205-11	SWITCH, LEAF (REC PROOF (SIDE A))	
S1006	1-771-333-11	SWITCH, LEAF (HALF DET)	
S1007	1-771-205-11	SWITCH, LEAF (METAL DET)	
S1008	1-771-205-11	SWITCH, LEAF (CrO ₂ DET)	

S1009	1-771-205-11	SWITCH, LEAF (REC PROOF (SIDE B))	

*	A-2007-783-A	MAIN BOARD, COMPLETE (WE425:US,CND)	
*	A-2007-786-A	MAIN BOARD, COMPLETE (WE525)	
*	A-2007-793-A	MAIN BOARD, COMPLETE	
(WE425:AUS,CH,SP,MY)			
*	A-2007-796-A	MAIN BOARD, COMPLETE (WR681:US)	
*	A-2007-797-A	MAIN BOARD, COMPLETE	
(WR681:AEPE,AUS,SP)			

< CAPACITOR >			
C103	1-126-961-11	ELECT 2.2uF 20% 50V	
C111	1-162-289-31	CERAMIC 390PF 10% 50V	
C112	1-162-282-31	CERAMIC 100PF 10% 50V	
C113	1-137-372-11	FILM 0.022uF 5% 50V	
C114	1-126-963-11	ELECT 4.7uF 20% 50V	

C121	1-162-289-31	CERAMIC 390PF 10% 50V	
C122	1-162-282-31	CERAMIC 100PF 10% 50V	
C123	1-137-372-11	FILM 0.022uF 5% 50V	
C124	1-126-963-11	ELECT 4.7uF 20% 50V	
C131	1-162-288-31	CERAMIC 330PF 10% 50V	

C132	1-107-609-11	CERAMIC 75PF 5% 500V	
C133	1-137-433-11	FILM 0.0012uF 5% 50V	
C134	1-102-973-00	CERAMIC 100PF 5% 50V	
C135	1-136-356-11	FILM 470PF 5% 100V	
C136	1-136-165-00	FILM 0.1uF 5% 50V	

C137	1-161-494-00	CERAMIC 0.022uF 25V	
C138	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C151	1-126-963-11	ELECT 4.7uF 20% 50V	
C153	1-162-600-11	CERAMIC 0.0047uF 30% 16V	
C155	1-126-963-11	ELECT 4.7uF 20% 50V	

C156	1-137-436-11	FILM 0.0039uF 5% 50V	
C159	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C162	1-130-495-00	MYLAR 0.1uF 5% 50V	
C163	1-137-375-11	FILM 0.068uF 5% 50V	
C164	1-126-963-11	ELECT 4.7uF 20% 50V	

C165	1-126-959-11	ELECT 0.47uF 20% 50V	
C166	1-126-963-11	ELECT 4.7uF 20% 50V	
C167	1-126-963-11	ELECT 4.7uF 20% 50V	
C171	1-126-961-11	ELECT 2.2uF 20% 50V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C181	1-126-964-11	ELECT	10uF	20%	50V	C581	1-104-665-11	ELECT	100uF	20%	10V
C203	1-126-961-11	ELECT	2.2uF	20%	50V	C591	1-126-935-11	ELECT	470uF	20%	16V
C211	1-162-289-31	CERAMIC	390PF	10%	50V						(WE425/WE525)
C212	1-162-282-31	CERAMIC	100PF	10%	50V	C661	1-137-446-11	FILM	0.18uF	5%	50V
C213	1-137-372-11	FILM	0.022uF	5%	50V	C662	1-136-175-00	FILM	0.68uF	5%	50V
						C663	1-137-370-11	FILM	0.01uF	5%	50V
C214	1-126-963-11	ELECT	4.7uF	20%	50V	C681	1-164-159-11	CERAMIC	0.1uF		50V
C221	1-162-289-31	CERAMIC	390PF	10%	50V	C701	1-128-547-11	ELECT	6800uF	20%	16V
C222	1-162-282-31	CERAMIC	100PF	10%	50V	C702	1-128-547-11	ELECT	6800uF	20%	16V
C223	1-137-372-11	FILM	0.022uF	5%	50V	C721	1-126-965-11	ELECT	22uF	20%	50V
C224	1-126-963-11	ELECT	4.7uF	20%	50V	C722	1-126-927-11	ELECT	2200uF	20%	10V
C231	1-162-288-31	CERAMIC	330PF	10%	50V	C741	1-126-963-11	ELECT	4.7uF	20%	50V
C232	1-107-609-11	CERAMIC	75PF	5%	500V	C742	1-126-916-11	ELECT	1000uF	20%	6.3V
C233	1-137-433-11	FILM	0.0012uF	5%	50V	C761	1-126-927-11	ELECT	2200uF	20%	10V
C234	1-102-973-00	CERAMIC	100PF	5%	50V	C781	1-126-968-11	ELECT	100uF	20%	50V
C235	1-136-356-11	FILM	470PF	5%	100V	C783	1-126-965-11	ELECT	22uF	20%	50V
C236	1-136-165-00	FILM	0.1uF	5%	50V	C784	1-164-159-11	CERAMIC	0.1uF		50V
C237	1-161-494-00	CERAMIC	0.022uF		25V	C785	1-164-159-11	CERAMIC	0.1uF		50V
C238	1-162-306-11	CERAMIC	0.01uF	20%	16V	C791	1-126-960-11	ELECT	1uF	20%	50V
C251	1-126-963-11	ELECT	4.7uF	20%	50V	C801	1-126-935-11	ELECT	470uF	20%	16V
C253	1-162-600-11	CERAMIC	0.0047uF	30%	16V	C802	1-164-159-11	CERAMIC	0.1uF		50V
C255	1-126-963-11	ELECT	4.7uF	20%	50V	C803	1-164-159-11	CERAMIC	0.1uF		50V
C256	1-137-436-11	FILM	0.0039uF	5%	50V	C811	1-161-494-00	CERAMIC	0.022uF		25V
C259	1-162-306-11	CERAMIC	0.01uF	20%	16V	C812	1-161-494-00	CERAMIC	0.022uF		25V
C262	1-130-495-00	MYLAR	0.1uF	5%	50V	C813	1-161-494-00	CERAMIC	0.022uF		25V
C263	1-137-375-11	FILM	0.068uF	5%	50V	C814	1-161-494-00	CERAMIC	0.022uF		25V
C264	1-126-963-11	ELECT	4.7uF	20%	50V	C821	1-164-159-11	CERAMIC	0.1uF		50V
C265	1-126-959-11	ELECT	0.47uF	20%	50V	C822	1-161-494-00	CERAMIC	0.022uF		25V
C266	1-126-963-11	ELECT	4.7uF	20%	50V	C823	1-161-494-00	CERAMIC	0.022uF		25V
C267	1-126-963-11	ELECT	4.7uF	20%	50V	C825	1-162-294-31	CERAMIC	0.001uF	10%	50V
C271	1-126-961-11	ELECT	2.2uF	20%	50V	C826	1-162-294-31	CERAMIC	0.001uF	10%	50V
C281	1-126-964-11	ELECT	10uF	20%	50V	C841	1-126-959-11	ELECT	0.47uF	20%	50V
C321	1-104-664-11	ELECT	47uF	20%	25V			< CONNECTOR >			
C417	1-126-959-11	ELECT	0.47uF	20%	50V	CN311	1-784-774-11	CONNECTOR, FFC 13P			
C421	1-104-664-11	ELECT	47uF	20%	25V	CN411	1-784-774-11	CONNECTOR, FFC 13P			
C431	1-104-664-11	ELECT	47uF	20%	25V	CN591	1-506-468-11	PIN, CONNECTOR 3P (WE425/WE525)			
C432	1-107-584-11	CERAMIC	4PF	0.25PF	500V	CN601	1-784-796-11	CONNECTOR, FFC 35P			
C433	1-126-965-11	ELECT	22uF	20%	50V	* CN611	1-568-955-11	PIN, CONNECTOR 6P			
C434	1-126-959-11	ELECT	0.47uF	20%	50V						
C441	1-136-293-11	FILM	0.0082uF	5%	100V	* CN621	1-568-951-11	PIN, CONNECTOR 2P (EXCEPT US,CND/WE525)			
C442	1-136-173-00	FILM	0.47uF	5%	50V	* CN621	1-568-955-11	PIN, CONNECTOR 6P (US,CND/WE525)			
C443	1-130-299-00	FILM	0.012uF	5%	50V	CN701	1-766-269-11	PIN, CONNECTOR (PC BOARD) 7P			
C444	1-137-436-11	FILM	0.0039uF	5%	50V			< DIODE >			
C445	1-137-436-11	FILM	0.0039uF	5%	50V	D159	8-719-911-19	DIODE 1SS119			
C446	1-126-961-11	ELECT	2.2uF	20%	50V	D259	8-719-911-19	DIODE 1SS119			
C451	1-126-964-11	ELECT	10uF	20%	50V	D306	8-719-911-19	DIODE 1SS119 (WE525)			
C461	1-164-159-11	CERAMIC	0.1uF		50V	D307	8-719-911-19	DIODE 1SS119 (WE525)			
C551	1-126-964-11	ELECT	10uF	20%	50V	D318	8-719-911-19	DIODE 1SS119 (WE525)			
C552	1-126-964-11	ELECT	10uF	20%	50V						
C553	1-126-935-11	ELECT	470uF	20%	16V	D451	8-719-911-19	DIODE 1SS119			
C554	1-126-964-11	ELECT	10uF	20%	50V	D581	8-719-911-19	DIODE 1SS119			
C555	1-126-960-11	ELECT	1uF	20%	50V	D681	8-719-911-19	DIODE 1SS119 (WE425/WE525)			
C556	1-164-159-11	CERAMIC	0.1uF		50V	D701	8-719-024-99	DIODE 11ES2-NTA2B			
C575	1-126-965-11	ELECT	22uF	20%	50V						

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D702	8-719-024-99	DIODE 11ES2-NTA2B		Q302	8-729-801-93	TRANSISTOR 2SD1387	
D703	8-719-024-99	DIODE 11ES2-NTA2B		Q303	8-729-029-66	TRANSISTOR DTC114ESA	
D704	8-719-024-99	DIODE 11ES2-NTA2B		Q306	8-729-030-02	TRANSISTOR DTC144ESA (WE525)	
D705	8-719-024-99	DIODE 11ES2-NTA2B		Q307	8-729-030-02	TRANSISTOR DTC144ESA	
D711	8-719-911-19	DIODE 1SS119		Q308	8-729-030-02	TRANSISTOR DTC144ESA (WE525)	
D712	8-719-933-33	DIODE HZS6A1L		Q311	8-729-801-84	TRANSISTOR 2SB1013-4	
D721	8-719-933-35	DIODE HZS6A3L		Q312	8-729-801-93	TRANSISTOR 2SD1387	
D731	8-719-933-33	DIODE HZS6A1L		Q314	8-729-029-66	TRANSISTOR DTC114ESA	
D741	8-719-933-35	DIODE HZS6A3L		Q316	8-729-029-56	TRANSISTOR DTA144ESA (WE525)	
D761	8-719-933-33	DIODE HZS6A1L		Q317	8-729-029-56	TRANSISTOR DTA144ESA	
D781	8-719-911-19	DIODE 1SS119		Q318	8-729-029-56	TRANSISTOR DTA144ESA (WE525)	
D782	8-719-985-95	DIODE HZS7A2LTA		Q381	8-729-030-02	TRANSISTOR DTC144ESA	
D783	8-719-911-19	DIODE 1SS119		Q382	8-729-140-04	TRANSISTOR 2SB1116A-L	
D791	8-719-911-19	DIODE 1SS119		Q401	8-729-801-84	TRANSISTOR 2SB1013-4	
D792	8-719-911-19	DIODE 1SS119		Q402	8-729-801-93	TRANSISTOR 2SD1387	
D793	8-719-911-19	DIODE 1SS119		Q403	8-729-029-66	TRANSISTOR DTC114ESA	
D801	8-719-911-19	DIODE 1SS119		Q411	8-729-801-84	TRANSISTOR 2SB1013-4	
		< IC >		Q412	8-729-801-93	TRANSISTOR 2SD1387	
IC321	8-759-111-44	IC uPC4570C-1		Q414	8-729-029-66	TRANSISTOR DTC114ESA	
IC421	8-759-111-44	IC uPC4570C-1		Q417	8-729-029-56	TRANSISTOR DTA144ESA	
IC431	8-759-106-56	IC uPC1297CA		Q441	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC461	8-759-000-48	IC MC14052BCP		Q442	8-729-194-57	TRANSISTOR 2SC945-P	
IC551	8-752-075-27	IC CXA1878Q		Q443	8-729-194-57	TRANSISTOR 2SC945-P	
IC591	8-759-634-51	IC M5218AP (WE425/WE525)		Q451	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC661	8-759-634-51	IC M5218AP		Q461	8-729-029-94	TRANSISTOR DTC143TSA	
IC701	8-759-634-51	IC M5218AP		Q481	8-729-030-02	TRANSISTOR DTC144ESA	
IC801	8-752-892-73	IC CXP82220-051Q		Q482	8-729-140-04	TRANSISTOR 2SB1116A-L	
IC841	8-759-165-82	IC PST600E-T		Q581	8-729-029-56	TRANSISTOR DTA144ESA	
		< JACK >		Q681	8-729-620-05	TRANSISTOR 2SC2603-EF (WE425/WE525)	
* J681	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5)		Q721	8-729-029-66	TRANSISTOR DTC114ESA (US,CND)	
		(S-LINK CONTROL A1) (WE425/WE525)		Q722	8-729-141-83	TRANSISTOR 2SB1094-LK	
* J682	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5)		Q741	8-729-029-66	TRANSISTOR DTC114ESA (US,CND)	
		(S-LINK CONTROL A1) (WE425/WE525)		Q742	8-729-141-83	TRANSISTOR 2SB1094-LK	
		< COIL >		Q743	8-729-620-05	TRANSISTOR 2SC2603-EF	
L131	1-410-780-11	INDUCTOR 27mH		Q761	8-729-209-15	TRANSISTOR 2SD2012	
L231	1-410-780-11	INDUCTOR 27mH		Q781	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< LOW PASS FILTER >		Q782	8-729-141-83	TRANSISTOR 2SB1094-LK	
LPF151	1-233-271-11	FILTER, LOW PASS		Q801	8-729-029-66	TRANSISTOR DTC114ESA	
LPF251	1-233-271-11	FILTER, LOW PASS		Q821	8-729-029-66	TRANSISTOR DTC114ESA (US,CND)	
		< JACK >				< RESISTOR >	
PJ501	1-770-614-11	JACK, PIN 4P (LINE OUT)		R101	1-249-429-11	CARBON 10K 5% 1/4W	
		< TRANSISTOR >		R102	1-247-887-00	CARBON 220K 5% 1/4W	
Q151	8-729-029-94	TRANSISTOR DTC143TSA		R111	1-247-881-00	CARBON 120K 5% 1/4W	
Q181	8-729-142-25	TRANSISTOR 2SD1020-HFE		R112	1-247-807-11	CARBON 100 5% 1/4W	
Q251	8-729-029-94	TRANSISTOR DTC143TSA		R113	1-247-882-11	CARBON 130K 5% 1/4W	
Q281	8-729-142-25	TRANSISTOR 2SD1020-HFE		R114	1-247-850-11	CARBON 6.2K 5% 1/4W	
Q301	8-729-801-84	TRANSISTOR 2SB1013-4		R121	1-247-881-00	CARBON 120K 5% 1/4W	
				R122	1-247-807-11	CARBON 100 5% 1/4W	
				R123	1-247-882-11	CARBON 130K 5% 1/4W	
				R124	1-247-850-11	CARBON 6.2K 5% 1/4W	
				R131	1-249-430-11	CARBON 12K 5% 1/4W	
				R132	1-247-883-00	CARBON 150K 5% 1/4W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ R133	1-212-857-00	FUSIBLE	10 5% 1/4W F	R283	1-249-429-11	CARBON	10K 5% 1/4W
R134	1-249-435-11	CARBON	33K 5% 1/4W	R284	1-249-417-11	CARBON	1K 5% 1/4W
R135	1-249-429-11	CARBON	10K 5% 1/4W	R291	1-249-433-11	CARBON	22K 5% 1/4W
R151	1-247-843-11	CARBON	3.3K 5% 1/4W				(WE425/WE525)
R152	1-247-872-11	CARBON	51K 5% 1/4W	R292	1-249-437-11	CARBON	47K 5% 1/4W
							(WE425/WE525)
R153	1-249-420-11	CARBON	1.8K 5% 1/4W	R293	1-249-433-11	CARBON	22K 5% 1/4W
R154	1-249-441-11	CARBON	100K 5% 1/4W				(WE425/WE525)
R155	1-249-417-11	CARBON	1K 5% 1/4W	R294	1-249-409-11	CARBON	220 5% 1/4W
R156	1-247-842-11	CARBON	3K 5% 1/4W				(WE425/WE525)
R161	1-249-429-11	CARBON	10K 5% 1/4W	R301	1-249-437-11	CARBON	47K 5% 1/4W
				R302	1-249-414-11	CARBON	560 5% 1/4W
R162	1-249-424-11	CARBON	3.9K 5% 1/4W	R303	1-249-437-11	CARBON	47K 5% 1/4W
R163	1-249-425-11	CARBON	4.7K 5% 1/4W	R304	1-249-419-11	CARBON	1.5K 5% 1/4W
R171	1-249-439-11	CARBON	68K 5% 1/4W				
R172	1-249-417-11	CARBON	1K 5% 1/4W	R306	1-249-433-11	CARBON	22K 5% 1/4W
R181	1-249-421-11	CARBON	2.2K 5% 1/4W				(WE525)
				R309	1-249-433-11	CARBON	22K 5% 1/4W
R182	1-249-430-11	CARBON	12K 5% 1/4W	R311	1-249-437-11	CARBON	47K 5% 1/4W
R183	1-249-429-11	CARBON	10K 5% 1/4W	R312	1-249-419-11	CARBON	1.5K 5% 1/4W
R184	1-249-417-11	CARBON	1K 5% 1/4W	R313	1-249-414-11	CARBON	560 5% 1/4W
R191	1-249-433-11	CARBON	22K 5% 1/4W				
			(WE425/WE525)	R314	1-249-437-11	CARBON	47K 5% 1/4W
R192	1-249-437-11	CARBON	47K 5% 1/4W	R316	1-249-434-11	CARBON	27K 5% 1/4W
			(WE425/WE525)	R317	1-247-862-11	CARBON	20K 5% 1/4W
				R318	1-249-426-11	CARBON	5.6K 5% 1/4W
R193	1-249-433-11	CARBON	22K 5% 1/4W				(WE525)
			(WE425/WE525)	R319	1-249-425-11	CARBON	4.7K 5% 1/4W
R194	1-249-409-11	CARBON	220 5% 1/4W				
			(WE425/WE525)	R321	1-249-409-11	CARBON	220 5% 1/4W
R201	1-249-429-11	CARBON	10K 5% 1/4W	R381	1-249-417-11	CARBON	1K 5% 1/4W
R202	1-247-887-00	CARBON	220K 5% 1/4W	R382	1-249-429-11	CARBON	10K 5% 1/4W
R211	1-247-881-00	CARBON	120K 5% 1/4W	R401	1-249-437-11	CARBON	47K 5% 1/4W
				R402	1-249-414-11	CARBON	560 5% 1/4W
R212	1-247-807-11	CARBON	100 5% 1/4W				
R213	1-247-882-11	CARBON	130K 5% 1/4W	R403	1-249-437-11	CARBON	47K 5% 1/4W
R214	1-247-850-11	CARBON	6.2K 5% 1/4W	R404	1-249-419-11	CARBON	1.5K 5% 1/4W
R221	1-247-881-00	CARBON	120K 5% 1/4W	R411	1-249-437-11	CARBON	47K 5% 1/4W
R222	1-247-807-11	CARBON	100 5% 1/4W	R412	1-249-419-11	CARBON	1.5K 5% 1/4W
				R413	1-249-414-11	CARBON	560 5% 1/4W
R223	1-247-882-11	CARBON	130K 5% 1/4W				
R224	1-247-850-11	CARBON	6.2K 5% 1/4W	R414	1-249-437-11	CARBON	47K 5% 1/4W
R231	1-249-430-11	CARBON	12K 5% 1/4W	R416	1-249-434-11	CARBON	27K 5% 1/4W
R232	1-247-883-00	CARBON	150K 5% 1/4W	R417	1-247-862-11	CARBON	20K 5% 1/4W
△ R233	1-212-857-00	FUSIBLE	10 5% 1/4W F	R421	1-249-409-11	CARBON	220 5% 1/4W
				R441	1-249-429-11	CARBON	10K 5% 1/4W
R234	1-249-435-11	CARBON	33K 5% 1/4W				
R235	1-249-429-11	CARBON	10K 5% 1/4W	R442	1-249-429-11	CARBON	10K 5% 1/4W
R251	1-247-843-11	CARBON	3.3K 5% 1/4W	R443	1-249-390-11	CARBON	5.6 5% 1/4W
R252	1-247-872-11	CARBON	51K 5% 1/4W	R444	1-249-390-11	CARBON	5.6 5% 1/4W
R253	1-249-420-11	CARBON	1.8K 5% 1/4W	R445	1-249-440-11	CARBON	82K 5% 1/4W
				R446	1-249-440-11	CARBON	82K 5% 1/4W
R254	1-249-441-11	CARBON	100K 5% 1/4W				
R255	1-249-417-11	CARBON	1K 5% 1/4W	R451	1-249-429-11	CARBON	10K 5% 1/4W
R256	1-247-842-11	CARBON	3K 5% 1/4W	R452	1-249-425-11	CARBON	4.7K 5% 1/4W
R261	1-249-429-11	CARBON	10K 5% 1/4W	R462	1-249-425-11	CARBON	4.7K 5% 1/4W
R262	1-249-424-11	CARBON	3.9K 5% 1/4W	R463	1-249-425-11	CARBON	4.7K 5% 1/4W
				R464	1-249-431-11	CARBON	15K 5% 1/4W
R263	1-249-425-11	CARBON	4.7K 5% 1/4W				
R271	1-249-439-11	CARBON	68K 5% 1/4W	R465	1-249-429-11	CARBON	10K 5% 1/4W
R272	1-249-417-11	CARBON	1K 5% 1/4W	R466	1-249-423-11	CARBON	3.3K 5% 1/4W
R281	1-249-421-11	CARBON	2.2K 5% 1/4W	R467	1-247-864-11	CARBON	24K 5% 1/4W
R282	1-249-430-11	CARBON	12K 5% 1/4W				

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
R468	1-249-429-11	CARBON	10K 5% 1/4W	R822	1-249-417-11	CARBON	1K 5% 1/4W
R481	1-249-417-11	CARBON	1K 5% 1/4W	R823	1-249-425-11	CARBON	4.7K 5% 1/4W
R482	1-249-429-11	CARBON	10K 5% 1/4W	R825	1-247-876-11	CARBON	75K 5% 1/4W
R551	1-249-417-11	CARBON	1K 5% 1/4W	R826	1-247-876-11	CARBON	75K 5% 1/4W
R552	1-215-455-00	METAL	27K 1% 1/4W	R827	1-247-895-00	CARBON	470K 5% 1/4W
R553	1-215-452-00	METAL	20K 1% 1/4W	R828	1-247-895-00	CARBON	470K 5% 1/4W
R574	1-249-413-11	CARBON	470 5% 1/4W	R830	1-249-429-11	CARBON	10K 5% 1/4W
R575	1-249-429-11	CARBON	10K 5% 1/4W	R831	1-249-429-11	CARBON	10K 5% 1/4W
R576	1-249-429-11	CARBON	10K 5% 1/4W	R832	1-249-429-11	CARBON	10K 5% 1/4W
R577	1-249-429-11	CARBON	10K 5% 1/4W	R833	1-247-807-11	CARBON	100 5% 1/4W
R578	1-249-435-11	CARBON	33K 5% 1/4W	R834	1-247-807-11	CARBON	100 5% 1/4W
R581	1-249-437-11	CARBON	47K 5% 1/4W	R835	1-247-807-11	CARBON	100 5% 1/4W
R582	1-249-437-11	CARBON	47K 5% 1/4W	R836	1-247-807-11	CARBON	100 5% 1/4W
R584	1-249-410-11	CARBON	270 5% 1/4W	R837	1-247-807-11	CARBON	100 5% 1/4W
R661	1-249-437-11	CARBON	47K 5% 1/4W	R838	1-247-807-11	CARBON	100 5% 1/4W
R662	1-249-437-11	CARBON	47K 5% 1/4W	R839	1-247-807-11	CARBON	100 5% 1/4W
R663	1-249-437-11	CARBON	47K 5% 1/4W	R841	1-249-429-11	CARBON	10K 5% 1/4W
R664	1-247-807-11	CARBON	100 5% 1/4W	R842	1-249-441-11	CARBON	100K 5% 1/4W
R681	1-249-425-11	CARBON	4.7K 5% 1/4W	R843	1-249-417-11	CARBON	1K 5% 1/4W
R682	1-249-429-11	CARBON	10K 5% 1/4W (WE425/WE525)	R889	1-247-807-11	CARBON	100 5% 1/4W
R683	1-249-393-11	CARBON	10 5% 1/4W (WE425/WE525)	R891	1-247-807-11	CARBON	100 5% 1/4W
R711	1-249-414-11	CARBON	560 5% 1/4W	R892	1-247-807-11	CARBON	100 5% 1/4W
R721	1-249-429-11	CARBON	10K 5% 1/4W (US,CND)	R893	1-247-807-11	CARBON	100 5% 1/4W
R722	1-249-421-11	CARBON	2.2K 5% 1/4W	R894	1-247-807-11	CARBON	100 5% 1/4W
R723	1-249-425-11	CARBON	4.7K 5% 1/4W	R926	1-249-431-11	CARBON	15K 5% 1/4W
R724	1-249-413-11	CARBON	470 5% 1/4W	< VARIABLE RESISTOR >			
R725	1-247-852-11	CARBON	7.5K 5% 1/4W	RV111	1-241-764-11	RES, ADJ, CARBON	10K
R726	1-249-419-11	CARBON	1.5K 5% 1/4W	RV121	1-241-764-11	RES, ADJ, CARBON	10K
R727	1-249-429-11	CARBON	10K 5% 1/4W	RV131	1-241-765-11	RES, ADJ, CARBON	22K
R728	1-249-419-11	CARBON	1.5K 5% 1/4W	RV161	1-241-764-11	RES, ADJ, CARBON	10K
R729	1-249-427-11	CARBON	6.8K 5% 1/4W	RV211	1-241-764-11	RES, ADJ, CARBON	10K
△ R730	1-219-137-11	FUSIBLE	0.33 10% 1/4W F	RV221	1-241-764-11	RES, ADJ, CARBON	10K
R731	1-249-409-11	CARBON	220 5% 1/4W	RV231	1-241-765-11	RES, ADJ, CARBON	22K
△ R741	1-219-137-11	FUSIBLE	0.33 10% 1/4W F	RV261	1-241-764-11	RES, ADJ, CARBON	10K
R742	1-249-421-11	CARBON	2.2K 5% 1/4W	RV316	1-241-764-11	RES, ADJ, CARBON	10K
R761	1-249-425-11	CARBON	4.7K 5% 1/4W	RV317	1-241-765-11	RES, ADJ, CARBON	22K
R762	1-249-417-11	CARBON	1K 5% 1/4W	RV318	1-241-764-11	RES, ADJ, CARBON	10K (WE525)
R763	1-249-427-11	CARBON	6.8K 5% 1/4W	RV416	1-241-764-11	RES, ADJ, CARBON	10K
△ R764	1-219-138-11	FUSIBLE	0.47 10% 1/4W F	RV417	1-241-765-11	RES, ADJ, CARBON	22K
R781	1-249-437-11	CARBON	47K 5% 1/4W	< RELAY >			
R782	1-249-430-11	CARBON	12K 5% 1/4W	RY451	1-515-913-11	RELAY	
R783	1-249-429-11	CARBON	10K 5% 1/4W	< TRANSFORMER >			
R784	1-249-421-11	CARBON	2.2K 5% 1/4W	T131	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR	
R791	1-249-417-11	CARBON	1K 5% 1/4W	T231	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR	
R792	1-249-429-11	CARBON	10K 5% 1/4W	T441	1-429-222-11	TRANSFORMER, BIAS OSCILLATION	
R811	1-249-429-11	CARBON	10K 5% 1/4W	< TEST PIN >			
R812	1-249-429-11	CARBON	10K 5% 1/4W	TP431	1-766-276-11	PIN, CONNECTOR (PC BOARD) 3P	
R813	1-249-429-11	CARBON	10K 5% 1/4W				
R814	1-249-429-11	CARBON	10K 5% 1/4W				
R821	1-249-441-11	CARBON	100K 5% 1/4W				

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

POWER

POWER1

POWER2

RECVOL

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X841	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	

*	1-668-805-11	POWER BOARD	

		< CAPACITOR >	
C971	1-164-159-11	CERAMIC 0.1uF	50V
C972	1-164-159-11	CERAMIC 0.1uF	50V
		< CONNECTOR >	
CN974	1-568-106-11	PIN, CONNECTOR 4P (E,SP,MY)	
		< TRANSFORMER >	
△ T901	1-429-387-11	TRANSFORMER, POWER (US,CND)	
△ T901	1-429-872-11	TRANSFORMER, POWER (AEP,UK,AUS,CH)	
△ T901	1-431-970-11	TRANSFORMER, POWER (E,SP,MY)	

*	1-668-800-11	POWER1 BOARD (EXCEPT US,CND)	

		< CAPACITOR >	
△ C981	1-113-925-11	CERAMIC 0.01uF 20% 250V	
		< CONNECTOR >	
CN981	1-568-226-11	PIN, CONNECTOR 2P	
		< SWITCH >	
△ S981	1-762-581-11	SWITCH, AC POWER PUSH (1 KEY) (Ⓢ)	

*	1-668-801-11	POWER2 BOARD (US,CND)	

		< RESISTOR >	
R927	1-249-437-11	CARBON 47K 5% 1/4W	
		< SWITCH >	
S961	1-554-118-00	SWITCH, PUSH (1 KEY) (I/Ⓢ)	
S962	1-762-567-11	SWITCH, SLIDE (DIRECTION MODE)	

*	1-668-803-11	RECVOL BOARD	

		< DIODE >	
D951	8-719-313-43	LED SEL6210S-TH10 (AUTO)	
D952	8-719-313-43	LED SEL6210S-TH10 (SYNCHRO)	(WE425/WE525)

Ref. No.	Part No.	Description	Remark
		< RESISTOR >	
R941	1-249-418-11	CARBON 1.2K 5% 1/4W	
R942	1-249-420-11	CARBON 1.8K 5% 1/4W	
		(WE425/WE525)	
R952	1-249-413-11	CARBON 470 5% 1/4W	
R953	1-249-413-11	CARBON 470 5% 1/4W	(WE425/WE525)
		< VARIABLE RESISTOR >	
RV951	1-225-616-11	RES, VAR, CARBON 20K (REC LEVEL)	
		< SWITCH >	
S941	1-554-303-21	SWITCH, TACTILE (ARL)	
S942	1-554-303-21	SWITCH, TACTILE (FADER)	
S943	1-554-303-21	SWITCH, TACTILE (SYNCHRO) (WE425/WE525)	

		MISCELLANEOUS	

51	1-769-976-11	WIRE (FLAT TYPE) (13 CORE)	
52	1-769-984-11	WIRE (FLAT TYPE) (13 CORE)	
△ 53	1-590-926-11	CORD, POWER (US,CND)	
△ 54	1-751-529-11	CORD, POWER (UK)	
△ 55	1-696-845-11	CORD, POWER (WE425:AUS)	
△ 56	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
△ 57	1-558-943-41	CORD, POWER (E)	
△ 58	1-575-651-21	CORD, POWER (AEP,SP,MY/WR681:AUS)	
△ 59	1-782-510-11	CORD, POWER (CH)	
166	1-773-391-11	WIRE (FLAT TYPE) (35 CORE)	
HP1	A-2004-645-A	DECK (A) ASSY, HEAD (PLAYBACK) (DECK A)	
HRPE1	A-2004-646-A	DECK (B) ASSY, HEAD (RECORD/PLAYBACK/ERASE) (DECK B)	
M1001	A-2004-644-A	MOTOR ASSY, CAPSTAN (DECK A)	
M1002	A-2004-644-A	MOTOR ASSY, CAPSTAN (DECK B)	
△ S902	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE) (E,SP,MY)	
△ T901	1-429-387-11	TRANSFORMER, POWER (US,CND)	
△ T901	1-429-872-11	TRANSFORMER, POWER (AEP,UK,AUS,CH)	
△ T901	1-431-970-11	TRANSFORMER, POWER (E,SP,MY)	

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-WE425/WE525/WR681

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

	1-558-271-11	CORD, CONNECTION (AUDIO)	
	1-777-241-11	CORD, CONNECTION (CONTROL A1) (CND)	
	3-810-765-33	MANUAL, COMMONNESS INSTRUCTION (CONTROL A1) (ENGLISH) (WE425:US,AUS/WE525:UK)	
	3-810-765-43	MANUAL, COMMONNESS INSTRUCTION (CONTROL A1) (ENGLISH,FRENCH,GERMAN, SPANISH,DUTCH,SWEDISH,ITALIAN, PORTUGUESE,CHINESE) (WE425:CND,CH,SP,MY/WE525:AEP)	
	3-862-714-11	MANUAL, INSTRUCTION (ENGLISH) (US,CND,UK,AUS,CH)	
	3-862-714-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH,PORTUGUESE) (AEP,E,SP,MY)	
	3-862-714-31	MANUAL, INSTRUCTION (GERMAN,DUTCH, SWEDISH,ITALIAN) (AEP)	
	3-862-714-41	MANUAL, INSTRUCTION (CHINESE) (E,CH,SP,MY)	
	3-862-714-51	MANUAL, INSTRUCTION (ARABIC) (E)	
	3-862-714-61	MANUAL, INSTRUCTION (FRENCH) (CND)	

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	7-685-134-19	SCREW +PTPWH 2.6X8 (TYPE2)	
#6	7-628-254-15	SCREW +PS 2.6X6	
#7	7-623-505-01	LUG, 2	
#8	7-685-850-04	SCREW +BVTT 2X3 (S)	
#9	7-685-851-04	SCREW +BVTT 2X4 (S)	