

TC-WE405/WR350Z/WR661

SERVICE MANUAL

US Model
Canadian Model
TC-WE405/WR350Z/WR661

AEP Model
UK Model

E Model
TC-WE405/WR661

Australian Model
Chinese Model
TC-WE405

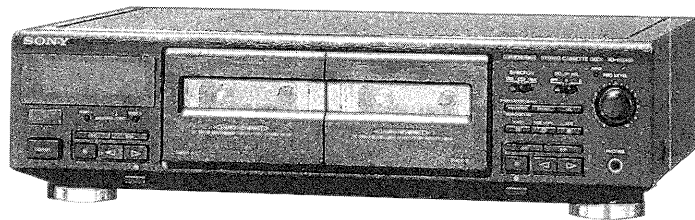


Photo : TC-WE405

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

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TC-WE405

Model Name Using Similar Mechanism		TC-WR445
Tape Transport Mechanism Type	DECK-A	TCM-220WR1
	DECK-B	

TC-WR350Z/WR661

Model Name Using Similar Mechanism		NEW
Tape Transport Mechanism Type	DECK-A	TCM-220WR4E
	DECK-B	

SPECIFICATIONS

System

Recording system

4-track 2-channel stereo

Fast-winding time (approx.)

180 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)

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

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

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

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

Type I tape, Sony Type I (NORMAL): 20 - 17,000 Hz
(±6 dB)

Type II tape, Sony Type II (HIGH): 20 - 18,000 Hz
(±6 dB)

Type IV tape, Sony Type IV (METAL): 20 - 20,000 Hz
(±6 dB)

Wow and flutter

±0.15% W. Peak (IEC)

0.1% W. RMS (NAB)

±0.2% W. Peak (DIN)

— Continued on next page —

STEREO CASSETTE DECK
SONY®



SAFETY CHECK-OUT

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) (TC-WE405 only)

Output level : 0.25 mW at a load impedance of 32 ohms

General

Power requirements

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

Power consumption

18 W

Dimensions (approx) (w/h/d)

430 × 120 × 305 mm (w/h/d)

(17 × 4 3/4 × 12 1/8 inches)

including projecting parts and controls

Mass (approx.)

3.8 kg (8 lbs 7 oz)

Supplied accessories

Audio connecting cords (2 phono plugs - 2 phono plugs) (2)

Optional accessory

Remote commander RM-J910

Design and specifications are subject to change without notice.

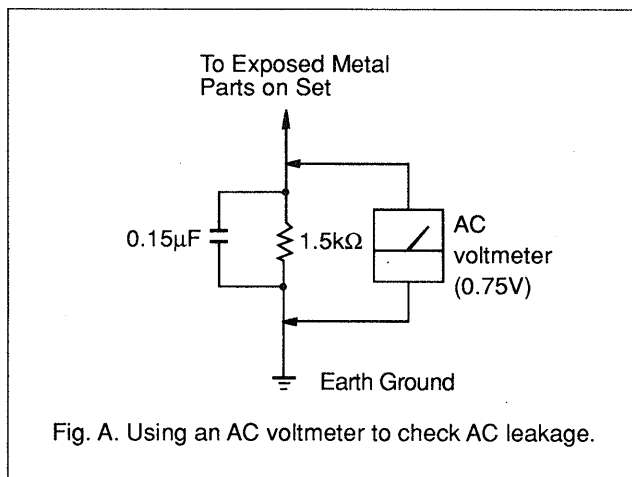
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

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)



SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ 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 Δ 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.

SERVICE NOTE

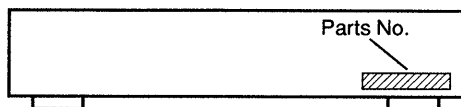
[FL Display Tube All Lit and Key Check mode]

Insert a short-chip into TP801 (2P) and turn ON the power switch. At first, all the FL display tube light up, then the system returns to normal display.

After that, press one of to enter the KEY CHECK mode. The number of FL display tube is light every pressing a button in the KEY CHECK mode.

MODEL IDENTIFICATION

— BACK PANEL —



TC-WE405

MODEL	PARTS No.
US	3-931-433-0□
CND	3-931-433-1□
AEP, G, MY, SP, CH	3-931-433-2□
UK	3-931-433-3□
E	3-931-433-4□
AUS	3-931-433-5□

TC-WR350Z

MODEL	PARTS No.
US	3-934-887-0□
CND	3-934-887-1□

TC-WR661

MODEL	PARTS No.
US	3-931-436-0□
CND	3-931-436-1□
AEP, G, IT	3-931-436-2□
UK	3-931-436-3□
E	3-931-436-4□

- Abbreviation
 - CND : Canadian model.
 - G : German model.
 - IT : Italian model.
 - SP : Singapore model.
 - MY : Malaysia model.
 - AUS : Australian model.
 - CH : Chinese model.

TABLE OF CONTENTS

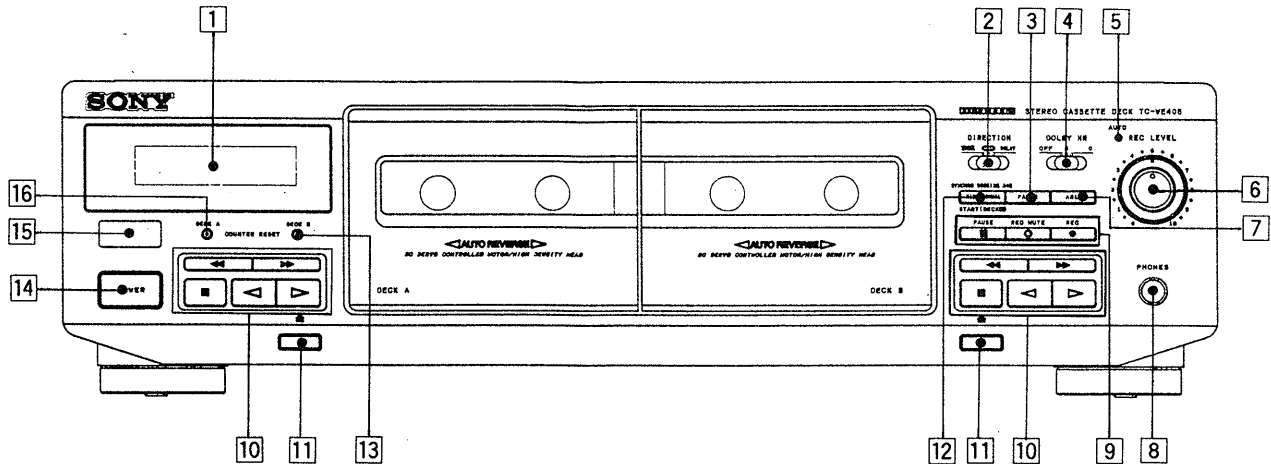
Section	Title	Page
SECTION 1. GENERAL		4
SECTION 2. DISASSEMBLY		
2-1.	Front Panel	5
2-2.	Mechanism Deck	5
SECTION 3. ADJUSTMENTS		
3-1.	Mechanical Adjustments	6
3-2.	Electrical Adjustments	6
	Record/Playback Head Azimuth Adjustment	
	Deck-A Deck-B	6
	Tape Speed Adjustment Deck-B	7
	Playback Level Adjustment Deck-A Deck-B	7
	Bias Consumption Current Adjustment Deck-B	8
	Record Bias Adjustment Deck-B	8
	Record Level Adjustment Deck-B	8
SECTION 4. DIAGRAMS		
4-1.	Circuit Boards Location	10
4-2.	IC Pin Function	
	• IC801 System Controller (M38172M4-156FP)	11
4-3.	Printed Wiring Board — Deck (TCM-220WR1) Section — TC-WE405	13
4-4.	Schematic Diagram — Deck (TCM-220WR1) Section — TC-WE405	15
4-5.	Printed Wiring Board — Deck (TCM-220WR4E) Section — TC-WR350Z/WR661	17
4-6.	Schematic Diagram — Deck (TCM-220WR4E) Section — TC-WR350Z/WR661	19
4-7.	Printed Wiring Board — Main Section —	21
4-8.	Schematic Diagram — Main Section —	25
SECTION 5. EXPLODED VIEWS		
5-1.	Case Section	29
5-2.	Front Panel Section	30
5-3.	TC Mechanism Section 1 (WE405 : TCM-220WR1) (WR350Z/WR661 : TCM-220WR4E)	31
5-4.	TC Mechanism Section 2 (WE405 : TCM-220WR1) (WR350Z/WR661 : TCM-220WR4E)	32
5-5.	TC Mechanism Section 3 (WE405 : TCM-220WR1) (WR350Z/WR661 : TCM-220WR4E)	33
SECTION 6. ELECTRICAL PARTS LIST		34

SECTION 1

GENERAL

LOCATION OF CONTROL

Front Panel



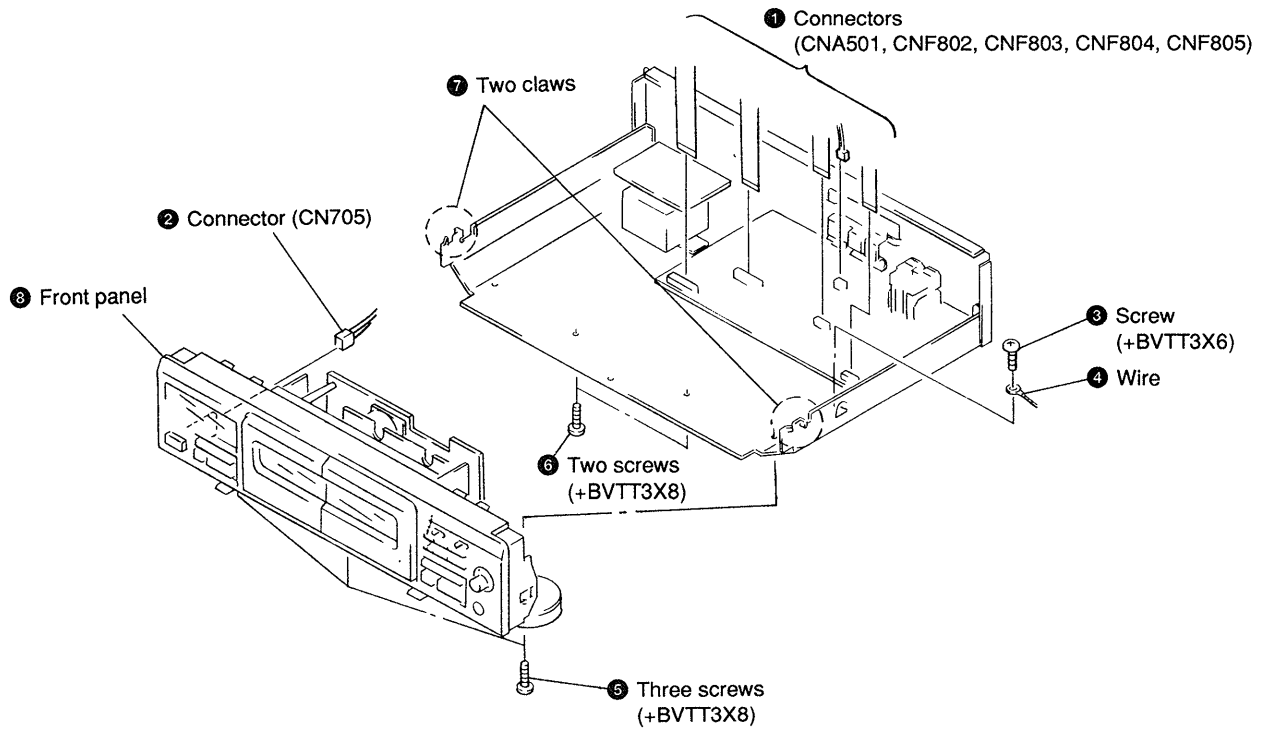
- | | |
|---|---|
| <p>1 Display panel and Indicator tube</p> <p>2 DIRECTION switch</p> <p>3 FADER button</p> <p>4 DOLBY NR (Dolby noise reduction) switch</p> <p>5 AUTO Indicator</p> <p>6 REC (recording) LEVEL control</p> <p>7 ARL button</p> <p>8 PHONES (headphones) jack (stereo phone jack) (TC-WE405 only)</p> <p>9 Tape operation buttons</p> <p>■ PAUSE button</p> <p>○ REC MUTE button</p> <p>● REC button</p> | <p>10 Tape operation buttons</p> <p>■ (stop) button</p> <p>◁ (reverse play) button</p> <p>▷ (forward play) button</p> <p>◀◀ (fast-forwarding) button</p> <p>▶▶ (rewinding) button</p> <p>11 ▲ OPEN/CLOSE button</p> <p>12 SYNCHRO DUBBING A → B button</p> <p>HIGH Speed button</p> <p>NORMAL Speed button</p> <p>START (DECK B) button</p> <p>13 COUNTER RESET DECK B button</p> <p>14 POWER switch</p> <p>15 Remote control sensor</p> <p>16 COUNTER RESET DECK A button</p> |
|---|---|

SECTION 2

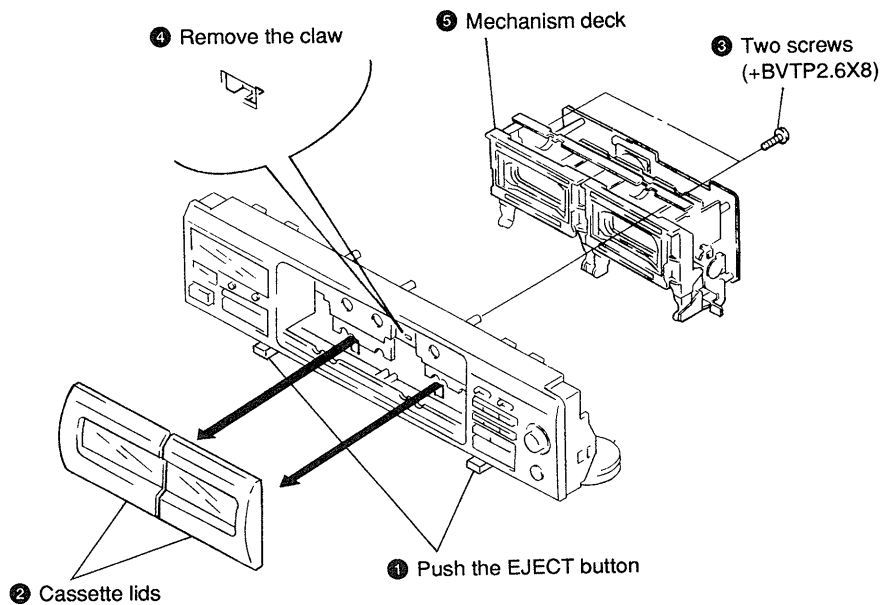
DISASSEMBLY

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

2-1. FRONT PANEL



2-2. MECHANISM DECK



SECTION 3 ADJUSTMENTS

3-1. 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

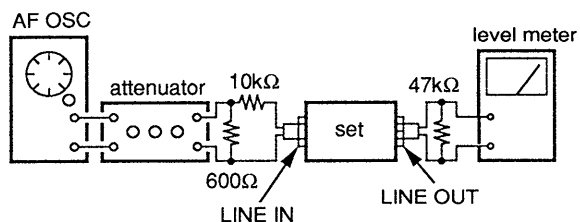
Torque	Torque meter	Meter reading
FWD	CQ-102C	36 to 61g • cm (0.5 – 0.84 oz • inch)
FWD back tension	CQ-102C	2 to 6g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	36 to 61g • cm (0.5 – 0.84 oz • inch)
REV back tension	CQ-102RC	2 to 6g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	61 to 143g • cm (0.85 – 1.99 oz • inch)
FWD tension	CQ-403A	100g • cm or more (1.39 oz • inch or more)
REV tension	CQ-403R	100g • cm or more (1.39 oz • inch or more)

3-2. 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 switch :
 - 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 —



Input Terminal	LINE IN
source impedance	10kΩ
input signal level	0.5 V (−3.8 dB)

Standard Output Level

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

Test Tape

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

$$0\text{dB} = 0.775\text{V}$$

Test mode

- Insert a short-clip into TP801 (2P) and turn ON the power switch.
At first, all the fluorescent tubes light up, then the system returns to normal display.
- To release the test mode, remove the short-clip and turn off the power switch.
- Remove the short-clip after completion of adjustment.

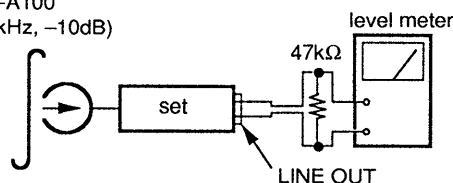
Record/Playback Head Azimuth Adjustment

DECK-A **DECK-B**

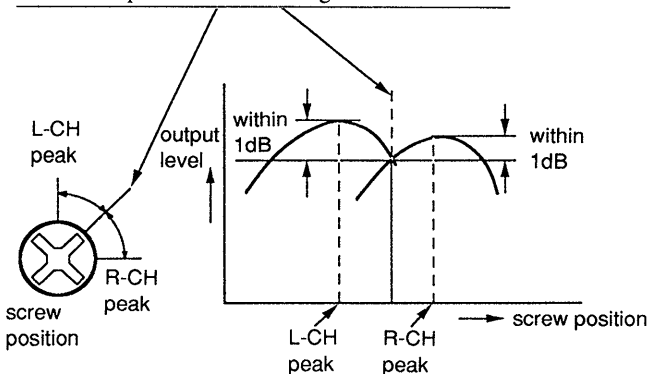
Procedure :

- Forward playback Mode

test tape
P-4-A100
(10kHz, −10dB)

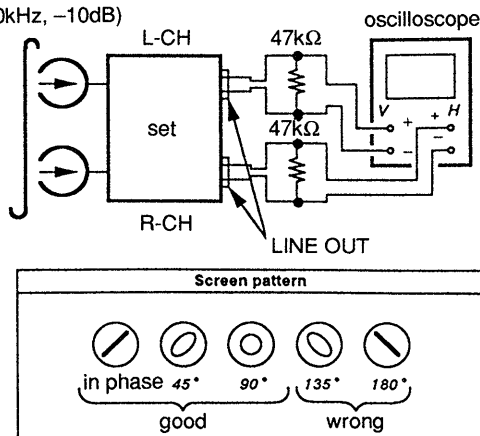


- Turn the adjustment screw for the maximum output levels.
If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



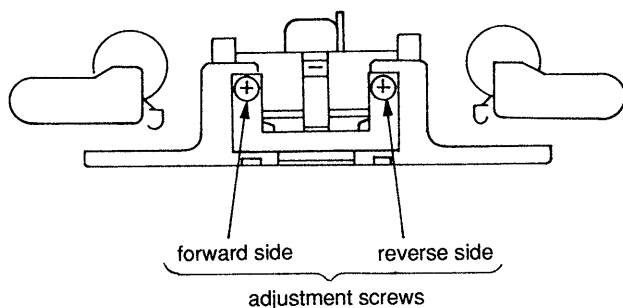
3. Playback Mode

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



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 —

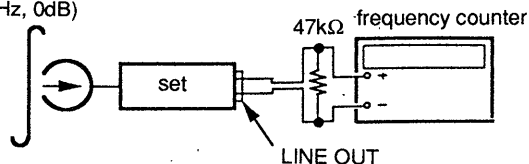


Tape Speed Adjustment **DECK-B**

Procedure :

Mode : Forward Playback

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



(high speed adjustment)

1. Set to test mode. (See page 6)
2. Insert the WS-48B to the deck B to playback.
3. Set to Forward playback mode.
4. Press the **SYNCHRO DUBBING** button.
5. Adjust RV652 so that the frequency counter reading becomes $6,000 \pm 30$ Hz.

(Press the **SYNCHRO DUBBING** button again to be set the normal speed mode.)

(normal speed adjustment)

1. Set to FWD playback mode.
2. Adjust RV651 so that the frequency counter reading becomes $3,010 \pm 10$ Hz.

Frequency difference between FWD mode and REV mode should be within 55 Hz.

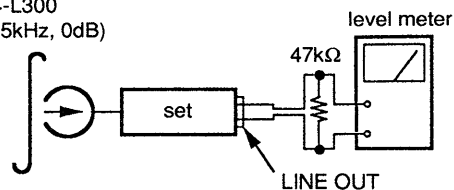
Adjustment Location : MD board

Playback Level Adjustment **DECK-A** **DECK-B**

Procedure :

Mode : Forward Playback

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



Adjust deck-A is RV311 (L-CH) and RV411 (R-CH), deck-B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within the following adjustment level.

Adjustment level :

LINE OUT level : $-7.7 \text{ dB} \pm 0.5 \text{ dB}$ (301.5 to 338.3 mV)

Level difference between channels : within $\pm 0.5 \text{ dB}$.

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

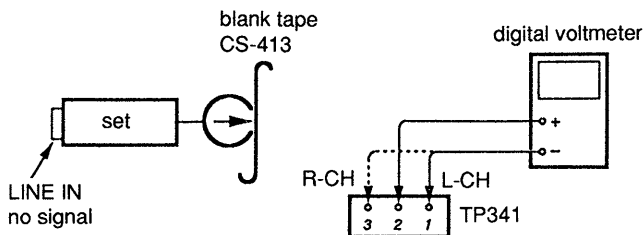
Adjustment Location : MD board

Bias Consumption Current Adjustment **DECK-B**

(TC-WE405 only)

This adjustment should be performed when replaying the head assy or the bias oscillating transformer (T341, T441).

Procedure :



1. Connect the digital voltmeter to test point TP341.
2. Set RV341 (L-CH) and RV441 (R-CH) to mechanical center.
3. Set to FWD record mode..
4. Adjust T341 (L-CH) and T441 (R-CH) so that the digital voltmeter reading becomes minimum.

Adjustment level : Maximum 220 mV

Adjustment level : MD board

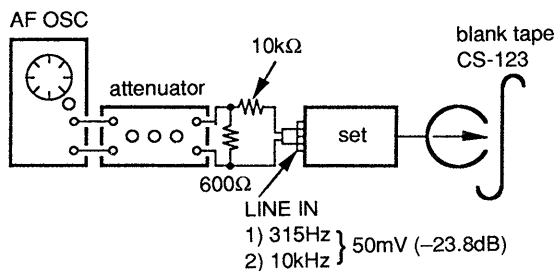
Record Bias Adjustment **DECK-B**

Setting :

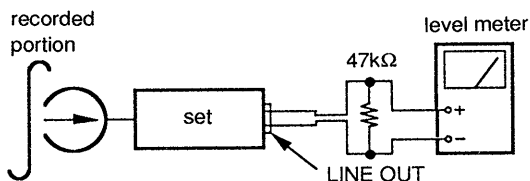
REC LEVEL control : standard record position
(Refer to page 6.)

Procedure :

1. Mode : record



2. Mode : Playback



Confirm playback the signal recorded in step1 become adjustment level as follows. If these levels do not adjustment level the RV341 (L-CH) and RV441 (R-CH) to repeat step 1 and 2.

Adjustment level :

The playback output of 10 kHz level difference should be ± 0.5 dB.

Adjustment Location : MD board

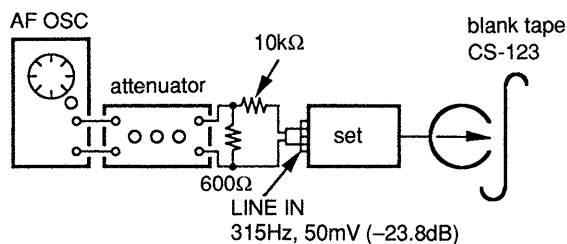
Record Level Adjustment **DECK-B**

Setting :

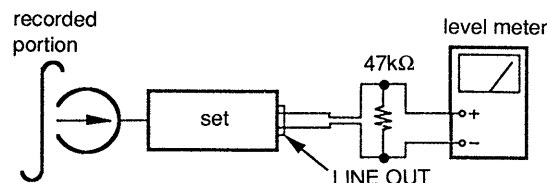
REC LEVEL control : standard record position
(Refer to page 6.)

Procedure :

1. Mode : Record



2. Mode : Playback



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

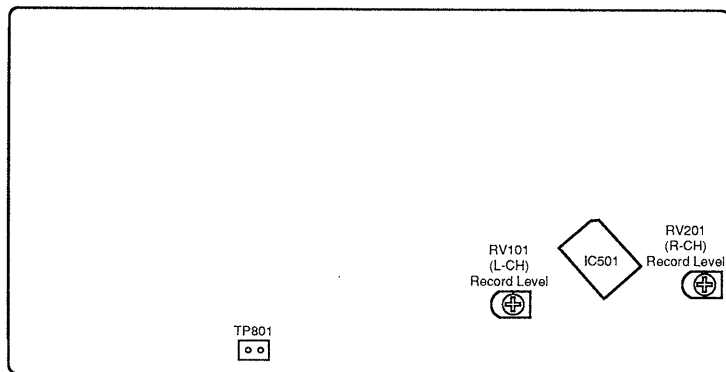
If necessary, adjust RV101 (L-CH) and RV201 (R-CH) to repeat the step 1 and 2.

Adjustment level : -23.8 ± 0.5 dB (47.2 to 53.0 mV)

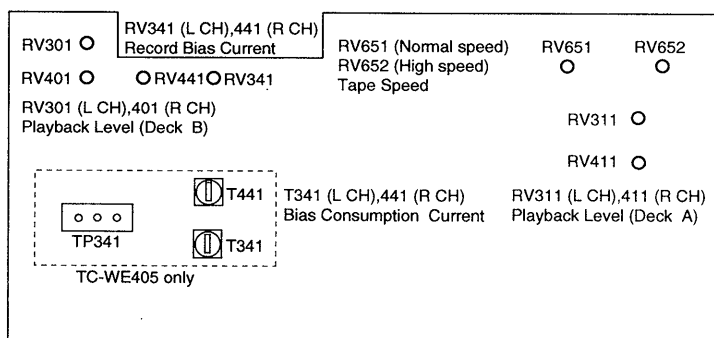
Adjustment Location : MAIN (A) board

— Adjustment Location —

[MAIN (A) BOARD] (Component side)



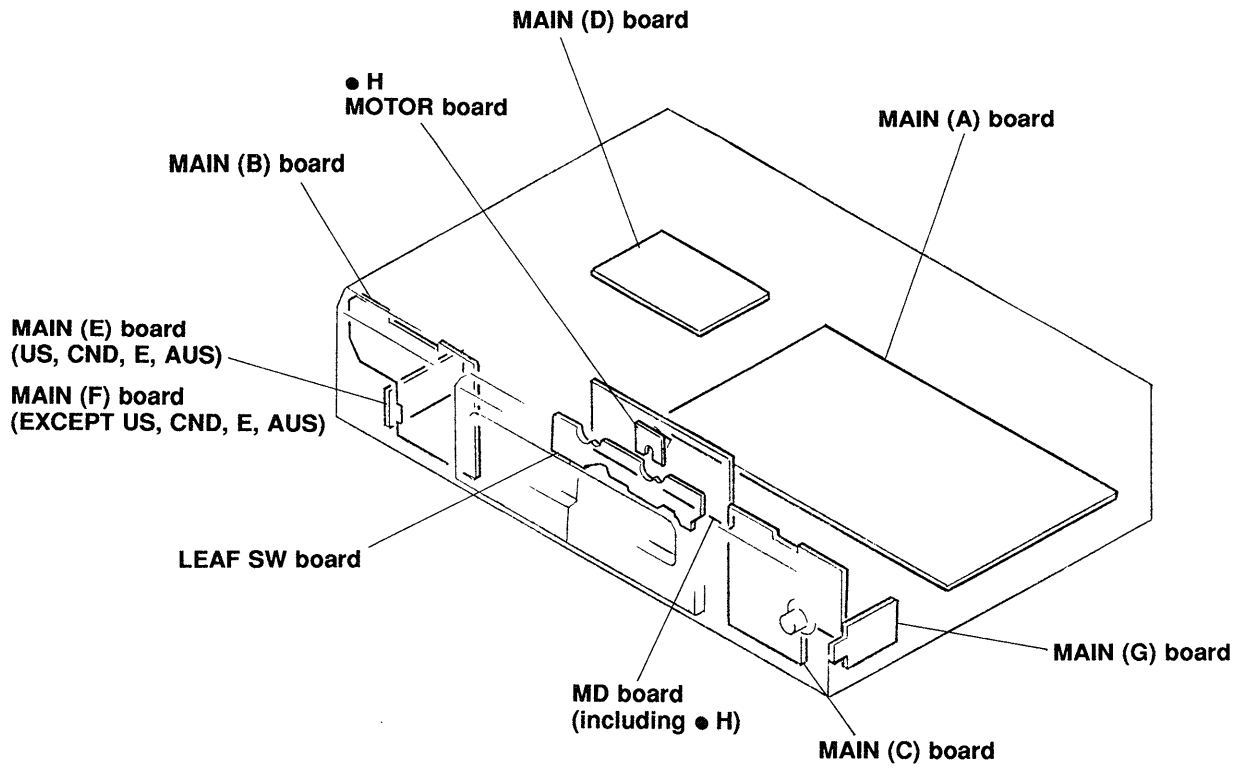
[MD BOARD] (Conductor Side)



SECTION 4

DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



NOTE : ● H is including in MD board.

- Abbreviation
CND : Canadian model.
AUS : Australian model.

4-2. IC PIN FUNCTION

• IC801 System Controller (M38172M4-156FP)

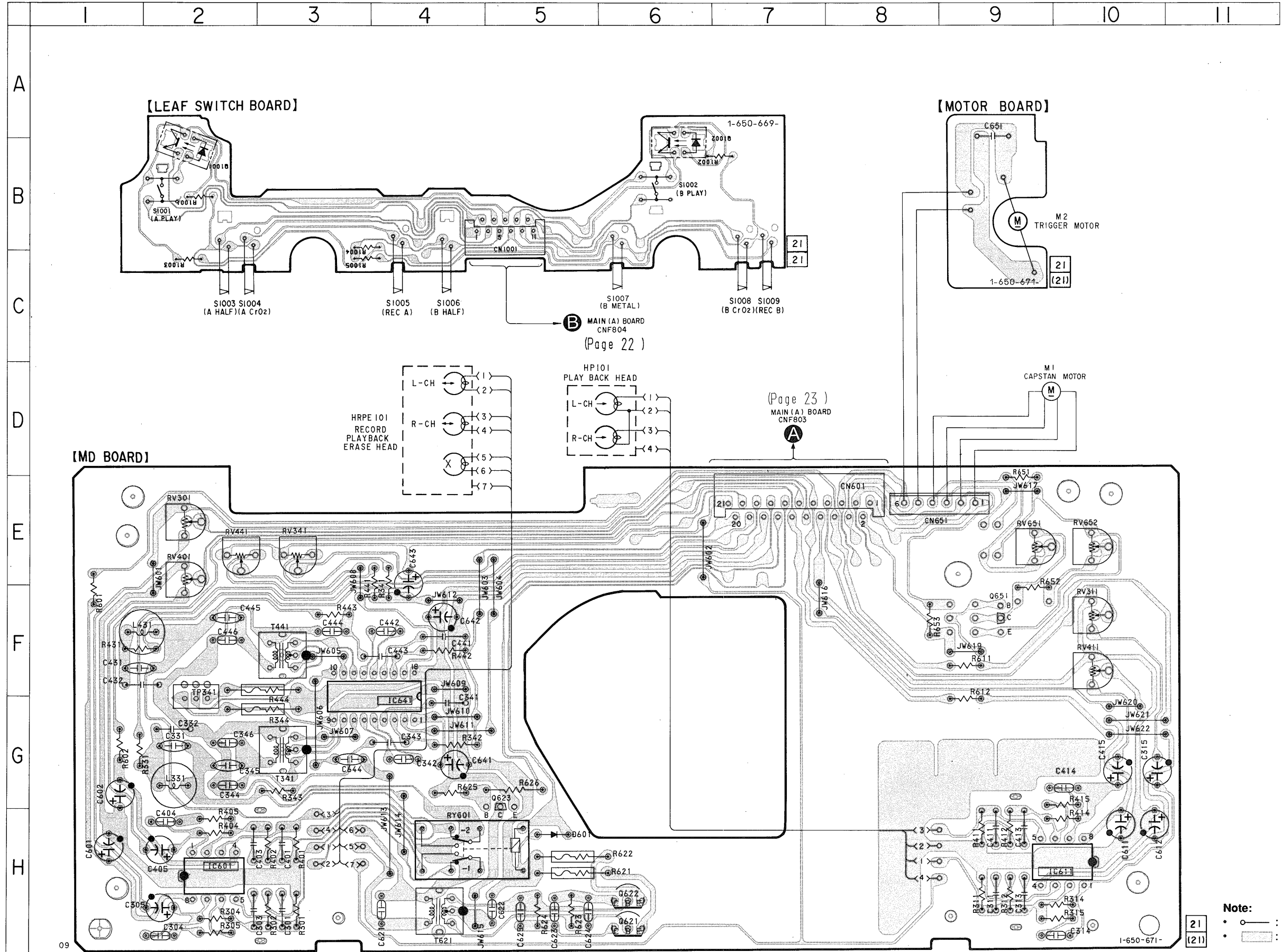
Pin No.	Pin Name	I/O	Function
1	REC VOL IN (A/B)	I	REC volume input
2	METER (L)	I	Meter input Lch
3	METER (R)	I	Meter input Rch
4	B HALF	I	Half, REC claw A side and B side detect — DECK B —
5	A HALF	I	Half detect — DECK A —
6	A PLAY	I	Play mode on — DECK A —
7	A SHUT	I	} Reel table pulse detect — DECK A —
8	A SCHMIT	O	
9	B SHUT	I	} Reel table pulse detect — DECK B —
10	B SCHMIT	O	
11	B TV	I	TYPE 4 detect L: TYPE 1, 2, H: TYPE 4 — DECK B —
12	B PLAY	I	H: Play model on — DECK B —
13	PB SELECT (A/B)	O	PB amp select L: DECK A, H: DECK B
14	REC/ $\overline{\text{PB}}$	O	REC/PB mode select L: PB, H: REC
15	PB EQ (HIGH/ $\overline{\text{NORM}}$)	O	PB EQ select L: Norm Speed, H: High Speed
16	$\overline{\text{REC MUTE}}$	O	REC mute L: Mute On, H: Cancel
17	$\overline{\text{LINE MUTE}}$	O	LINE mute L: Mute On, H: Cancel
18	REC VOL OUT	O	PWM output REC volume control
19	$\overline{\text{NR/MUTE/PASS}}$	O	NR IN/PASS mute select L: NR, H: PASS, Input: MUTE
20	$\overline{\text{B BIAS}}$	O	L: Bias On, H: Off
21	POWER IN (2)	I	Secondary power detect L: Power Off, H: On
22	POWER IN (1)	I	Primary power detect L: Power Off, H: On
23	—	O	Open
24	SIRCS	I	Remote control receiver
25	POWER OUT	O	L: Power hold
26	—	I	Open (Connected to ground)
27	RESET	I	RESET
28	—	—	Open (Connected to ground)
29	—	—	Open
30	X IN	I	4 MHz clock input
31	X OUT	O	4 MHz clock output
32	Vss	—	Ground
33	$\overline{\text{B RELAY}}$	O	Relay select H: Off, L: On
34	$\overline{\text{TEST}}$	I	L: Test mode
35	—	O	} Open
36	—	O	
37	—	O	
38	—	O	
39	—	O	
40	—	O	

Pin No.	Pin Name	I/O	Function
41	V1	O	FL Segment signal output 16
42	S15	O	FL Segment signal output 15
43	S14	O	FL Segment signal output 14
44	S13	O	FL Segment signal output 13
45	S12	O	FL Segment signal output 12
46	S11	O	FL Segment signal output 11
47	S10	O	FL Segment signal output 10
48	S9	O	FL Segment signal output 9
49	S8	O	FL Segment signal output 8
50	S7	O	FL Segment signal output 7
51	S6	O	FL Segment signal output 6
52	S5	O	FL Segment signal output 5
53	S4	O	FL Segment signal output 4
54	S3	O	FL Segment signal output 3
55	S2	O	FL Segment signal output 2
56	S1	O	FL Segment signal output 1
57	G1	O	FL Grid signal output 1
58	G2	O	FL Grid signal output 2
59	G3	O	FL Grid signal output 3
60	G4	O	FL Grid signal output 4
61	G5	O	FL Grid signal output 5
62	G6	O	FL Grid signal output 6
63	G7	O	FL Grid signal output 7
64	—	O	} Open
65	—	O	
66	CAP M ($\overline{H}/N$)	O	Capstan motor L: High Speed, H: Low Speed
67	CAP M ($\overline{ON}/OFF$)	O	Capstan motor L: On, H: Off
68	TRG ($\overline{H}/L$)	O	Trigger motor H: Low, L: High
69	A-TRG	O	Trigger motor control — DECK A —
70	B-TRG	O	Trigger motor control — DECK B —
71	—	O	Open
72	ARL (LED)	O	ARL LED control L: Off, H: On
73	Vcc	—	+5V
74	VEE	—	Pull down voltage -24V
75	AVss	—	AD voltage 0V (Ground)
76	VREF	—	AD Reference voltage +5V
77	KEY4	I	Key input (Arew, Aff, Breset, Circle, Relay, Oneway)
78	KEY3	I	Key input (Astp, Afwd, Arev, Areset)
79	KEY2	I	Key input (Brew, Bff, Brec, Bpause, Brec_mute, Dub H/N)
80	KEY1	I	Key input (Bstp, Bfwd, Brev, ARL, FADER)

- Abbreviation

FL : FLUORESCENT INDICATOR TUBE

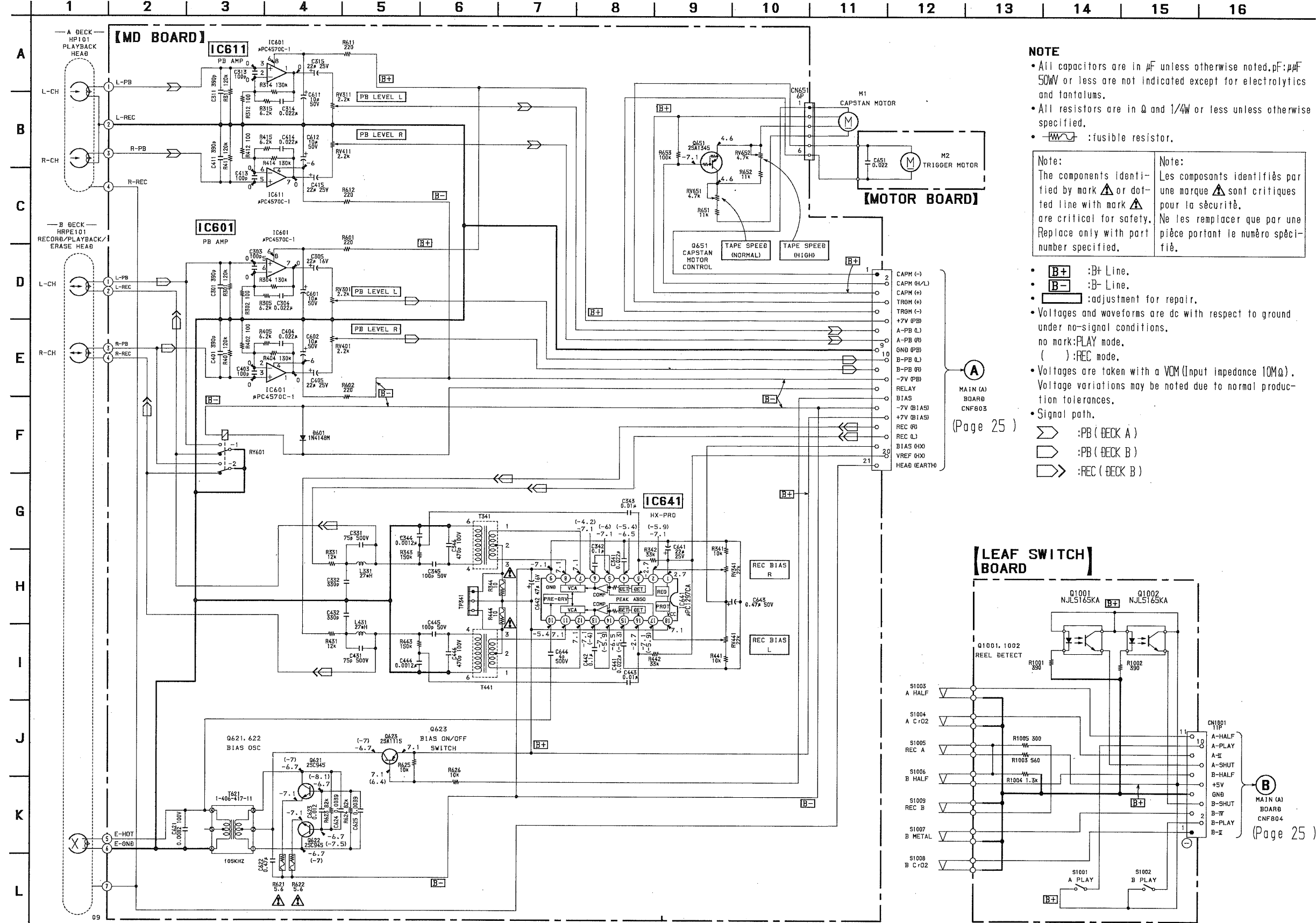
4-3. PRINTED WIRING BOARD — DECK (TCM-220WR1) SECTION — TC-WE405
• See page 10 for Circuit Boards Location.



• Semiconductor Location

Ref. No.	Location
D601	H-5
IC601	H-2
IC611	H-10
IC641	G-4
Q621	H-6
Q622	H-6
Q623	G-5
Q651	F-9
Q1001	B-2
Q1002	B-6

4-4. SCHEMATIC DIAGRAM — DECK (TCM-220WR1) SECTION — TC-WE405



NOTE

- All capacitors are in μF unless otherwise noted. pF : μF 50W or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4W$ or less unless otherwise specified.
- $\sim$: fusible resistor.

Note:

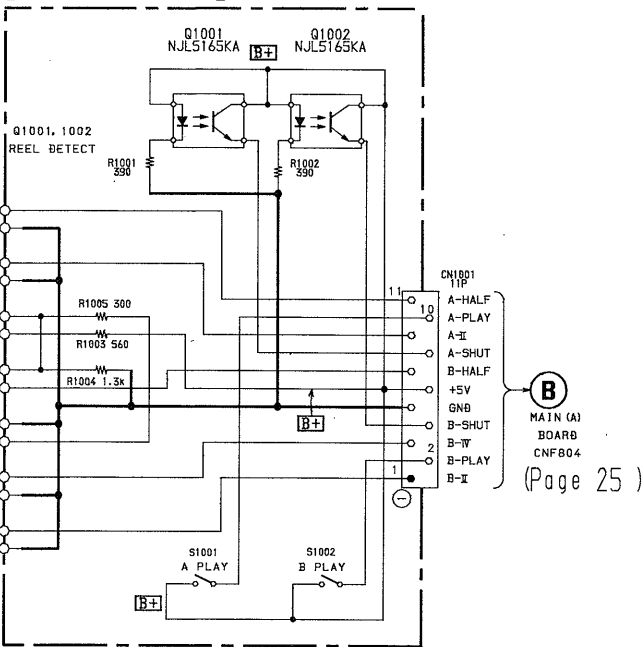
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

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

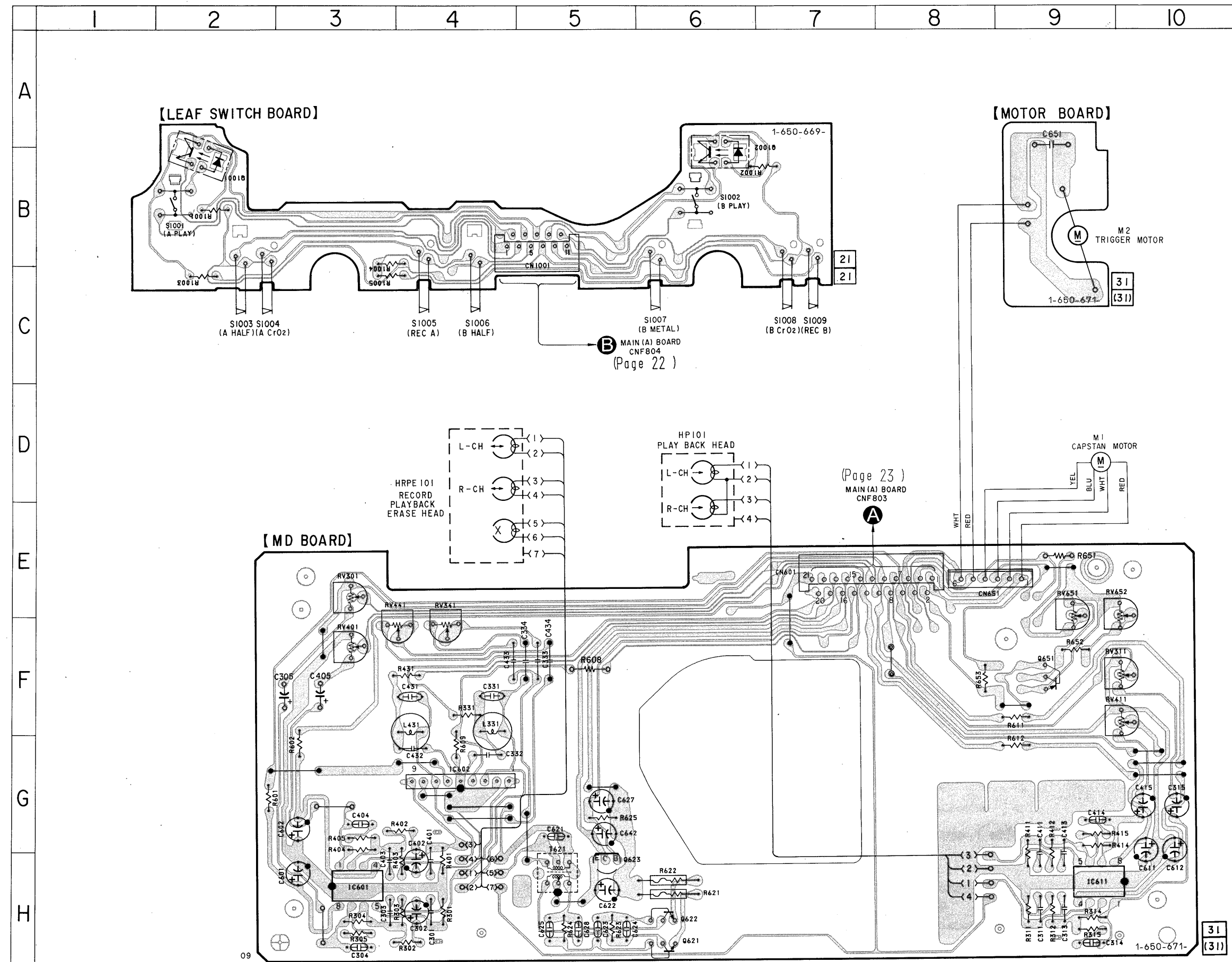
- $B+$: B+ Line.
- $B-$: B- Line.
- $\sim$: adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- no mark: PLAY mode.
- (): REC mode.
- Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- $\triangleright$: PB (DECK A)
- $\triangleright$: PB (DECK B)
- $\triangleright$: REC (DECK B)

LEAF SWITCH BOARD

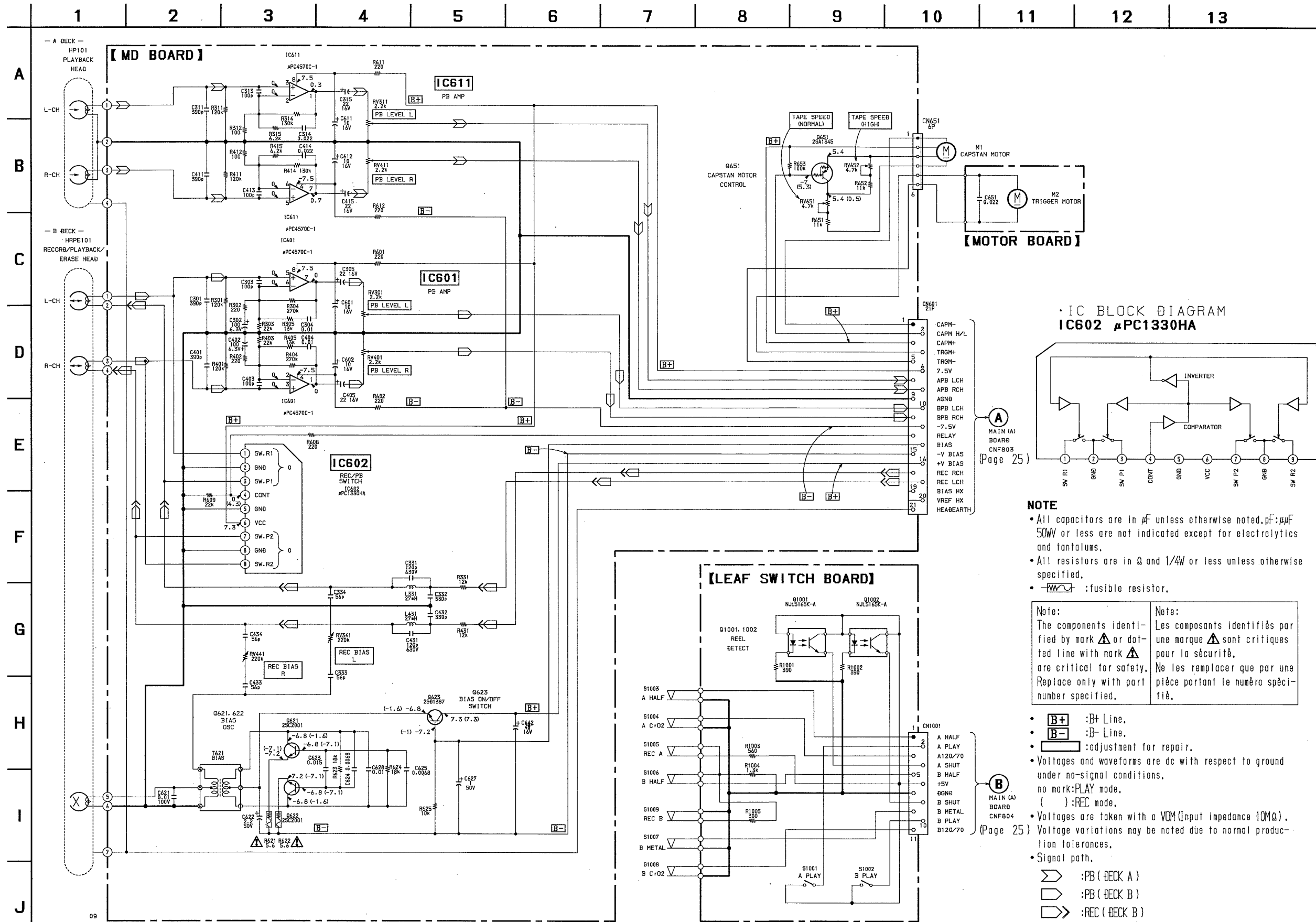


4-5. PRINTED WIRING BOARD — DECK (TCM-220WR4E) SECTION — TC-WR350Z/WR661

• See page 10 for Circuit Boards Location.



4-6. SCHEMATIC DIAGRAM — DECK (TCM-220WR4E) SECTION — TC-WR350Z/WR661



4-7. PRINTED WIRING BOARD — MAIN SECTION — TC-WR350Z/WR661

- See page 10 for Circuit Boards Location.

- **Semiconductor Location**

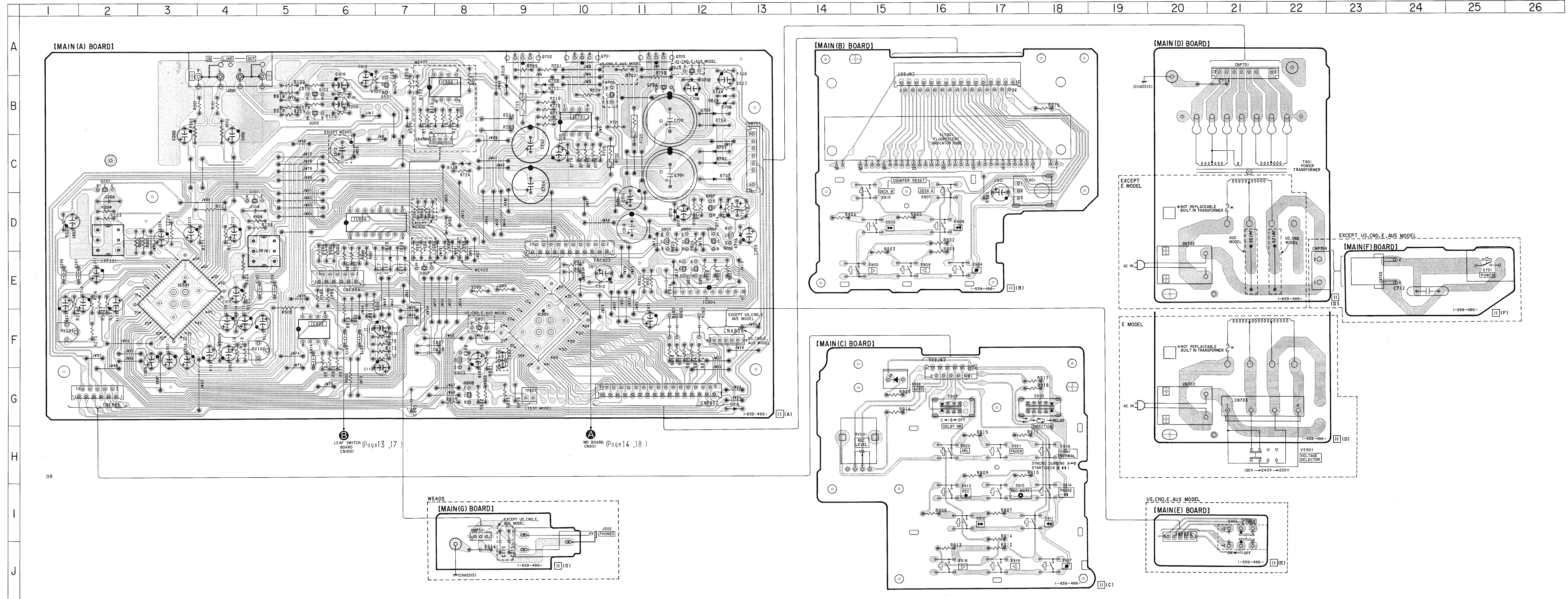
Ref. No.	Location
D101	D-7
D201	D-7
D501	B-7
D701	C-12
D702	C-12
D703	B-12
D704	B-12
D705	B-12
D706	B-12
D707	C-12
D708	A-9
D709	B-9
D710	C-10
D711	B-9
D712	B-12
D713	G-12
D714	D-12
D715	D-11
D716	D-13
D718	C-8
D901	G-16

IC501	E-3
IC502	B-8
IC701	B-10
IC801	F-9
IC802	F-5
IC803	G-8
IC804	E-12
IC806	D-6
IC901	C-17

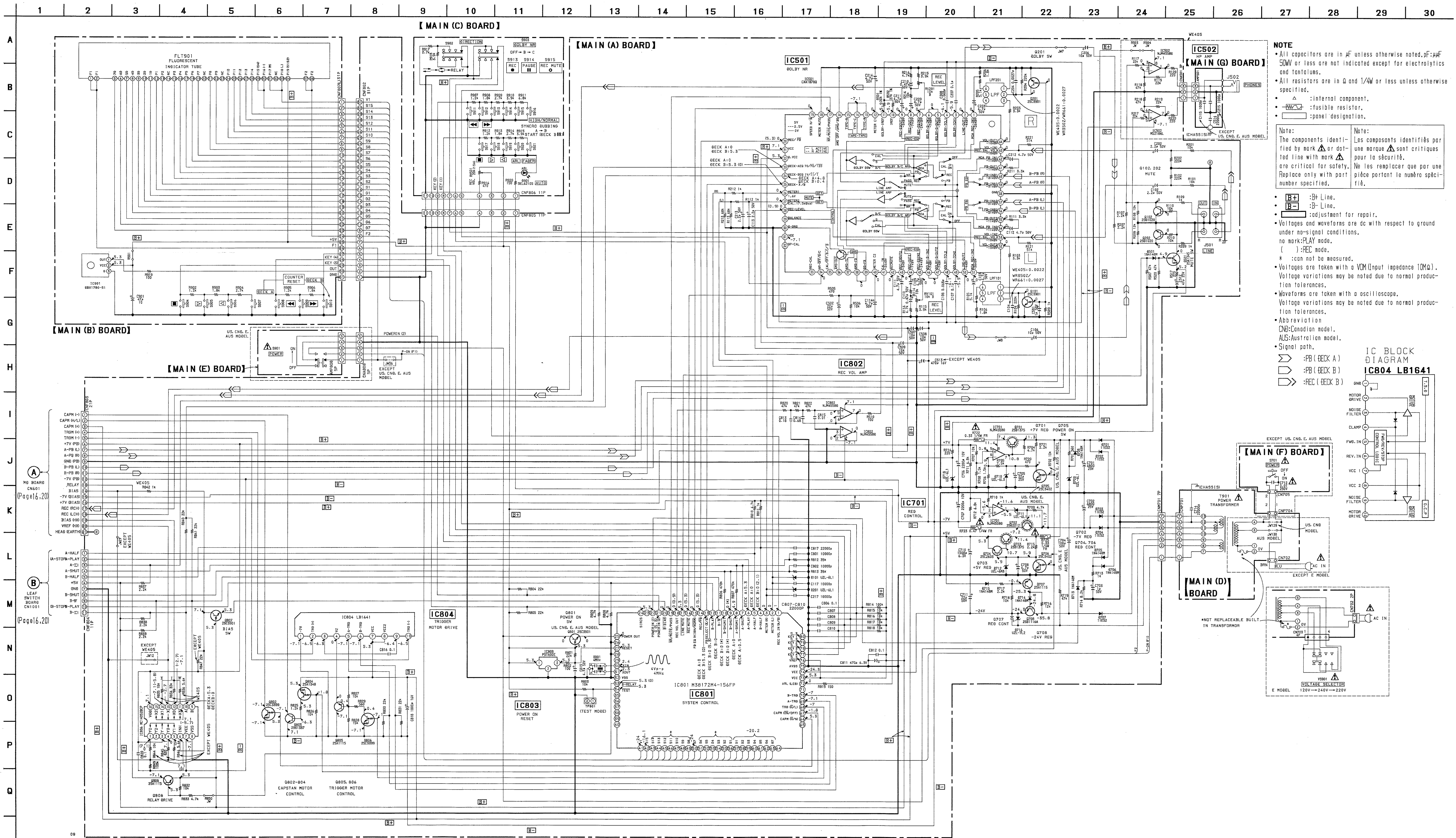
Q101	D-4
Q102	B-6
Q201	C-2
Q202	B-5
Q501	B-7
Q701	A-10
Q702	A-9
Q703	A-12
Q704	B-11
Q705	B-10
Q706	A-12
Q707	D-12
Q708	D-12
Q801	F-8
Q802	D-12
Q803	D-11
Q804	D-12
Q805	E-12
Q806	E-12
Q807	E-7
Q808	G-8

Note:

- — : parts extracted from the component side.
- : parts mounted on the conductor side.
- △ : internal component.
- ▨ : Pattern from the side which enable seeing.
- Abbreviation
 - CND : Canadian model.
 - AUS : Australian model.



4-8. SCHEMATIC DIAGRAM — DECK (TCM-220WR4E) SECTION — TC-WR350Z/WR661
 See page 11 for IC Pin function. (IC801)



SECTION 5 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
G : German model
IT : Italian model
SP : Singapore model
MY : Malaysia model
AUS : Australian model
CH : Chinese model

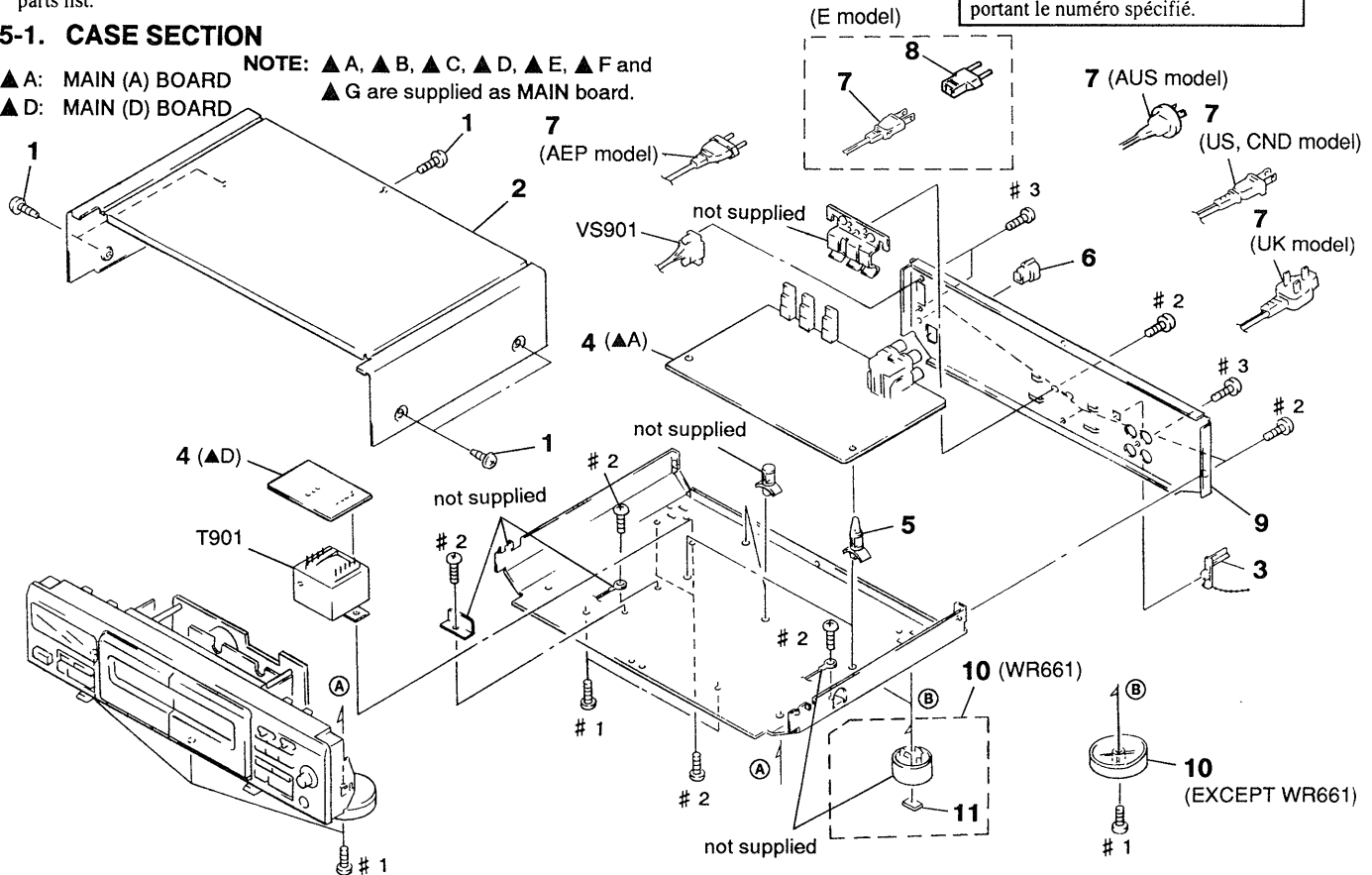
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

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

5-1. CASE SECTION

Δ A: MAIN (A) BOARD
 Δ D: MAIN (D) BOARD

NOTE: Δ A, Δ B, Δ C, Δ D, Δ E, Δ F and Δ G are supplied as MAIN board.

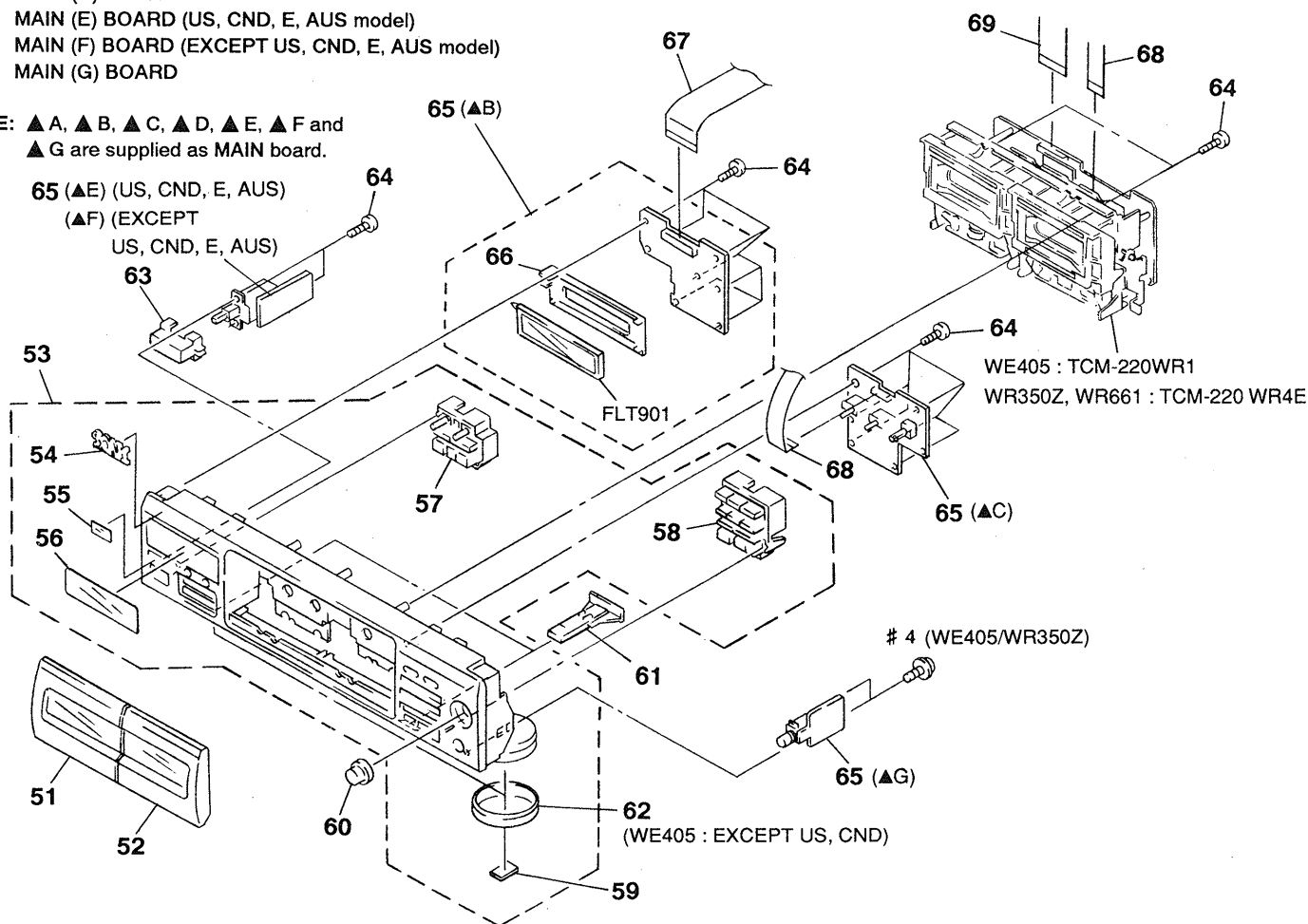


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-704-366-01	SCREW (CASE) (M3X8)		* 9	3-931-433-01	PANEL, BACK (WE405:US)	
* 2	3-931-432-01	CASE (410726)		* 9	3-931-433-11	PANEL, BACK (WE405:CND)	
3	4-956-370-12	BAND, PLUG FIXED (WE405:UK, AUS)		* 9	3-931-433-21	PANEL, BACK (WE405:AEP, CH, MY, SP, G)	
* 4	A-2007-484-A	MAIN BOARD, COMPLETE (WR350Z/WR661:US, CND)		* 9	3-931-433-31	PANEL, BACK (WE405:UK)	
* 4	A-2007-486-A	MAIN BOARD, COMPLETE (WR661:AEP, UK, G, IT)		* 9	3-931-433-41	PANEL, BACK (WE405:E)	
* 4	A-2007-487-A	MAIN BOARD, COMPLETE (WR661:E)		* 9	3-931-433-51	PANEL, BACK (WE405:AUS)	
* 4	A-2007-488-A	MAIN BOARD, COMPLETE (WE405:AEP, CH, MY, SP, UK, G)		* 9	3-931-436-01	PANEL, BACK (WR661:US)	
* 4	A-2007-489-A	MAIN BOARD, COMPLETE (WE405:E)		* 9	3-931-436-11	PANEL, BACK (WR661:CND)	
* 4	A-2007-490-A	MAIN BOARD, COMPLETE (WE405:AUS)		* 9	3-931-436-21	PANEL, BACK (WR661:AEP, G, IT)	
* 4	A-2007-546-A	MAIN BOARD, COMPLETE (WE405:US, CND)		* 9	3-931-436-31	PANEL, BACK (WR661:UK)	
* 5	3-346-265-31	HOLDER, PC BOARD		* 9	3-931-436-41	PANEL, BACK (WR661:E)	
* 6	3-703-244-00	BUSHING (2104), CORD (WE405:AEP, CH, MY, SP, UK, G, AUS/WR661:AEP, UK, G, IT)		* 9	3-934-887-01	PANEL, BACK (WR350Z:US)	
6	3-703-571-11	BUSHING (S) (4516), CORD (WE405:US, CND, E/WR350Z/WR661:US, CND, E)		* 9	3-934-887-11	PANEL, BACK (WR350Z:CND)	
Δ 7	1-558-945-21	CORD, POWER (POLAR SPT-1) (WE405:US, CND/WR350Z/WR661:US, CND)		10	X-3371-405-1	FOOT (SMALL) ASSY (WR661)	
Δ 7	1-575-651-21	CORD, POWER (WE405:AEP, CH, MY, SP, G/WR661:AEP, G, IT)		10	X-3371-435-1	FOOT ASSY (F50150S) (WE405:AEP, CH, MY, SP, UK, G, E, AUS)	
Δ 7	1-696-027-11	CORD, POWER (WE405:E/WR661:E)		10	X-3371-436-1	FOOT ASSY (F50145S) (WE405:US, CND/WR350Z)	
Δ 7	1-696-845-11	CORD, POWER (WE405:AUS)		11	4-977-358-01	CUSHION (8X12.5) (WE405/WR350Z)	
Δ 7	1-769-639-11	CORD, POWER (WR661:UK)		Δ T901	429-387-11	TRANSFORMER, POWER (WE405:US, CND/WR350Z/WR661:US, CND)	
Δ 7	1-751-523-11	CORD, POWER (WE405:UK)		Δ T901	429-388-11	TRANSFORMER, POWER (WE405:AEP, CH, MY, SP, UK, G, AUS/WR661:AEP, UK, G, IT)	
Δ 8	1-569-007-11	ADAPTER, CONVERSION 2P (WE405:E/WR661:E)		Δ T901	429-389-11	TRANSFORMER, POWER (WE405:E/WR661:E)	
				Δ VS901	692-155-11	SELECTOR, POWER VOLTAGE (WE405:E/WR661:E)	

5-2. FRONT PANEL SECTION

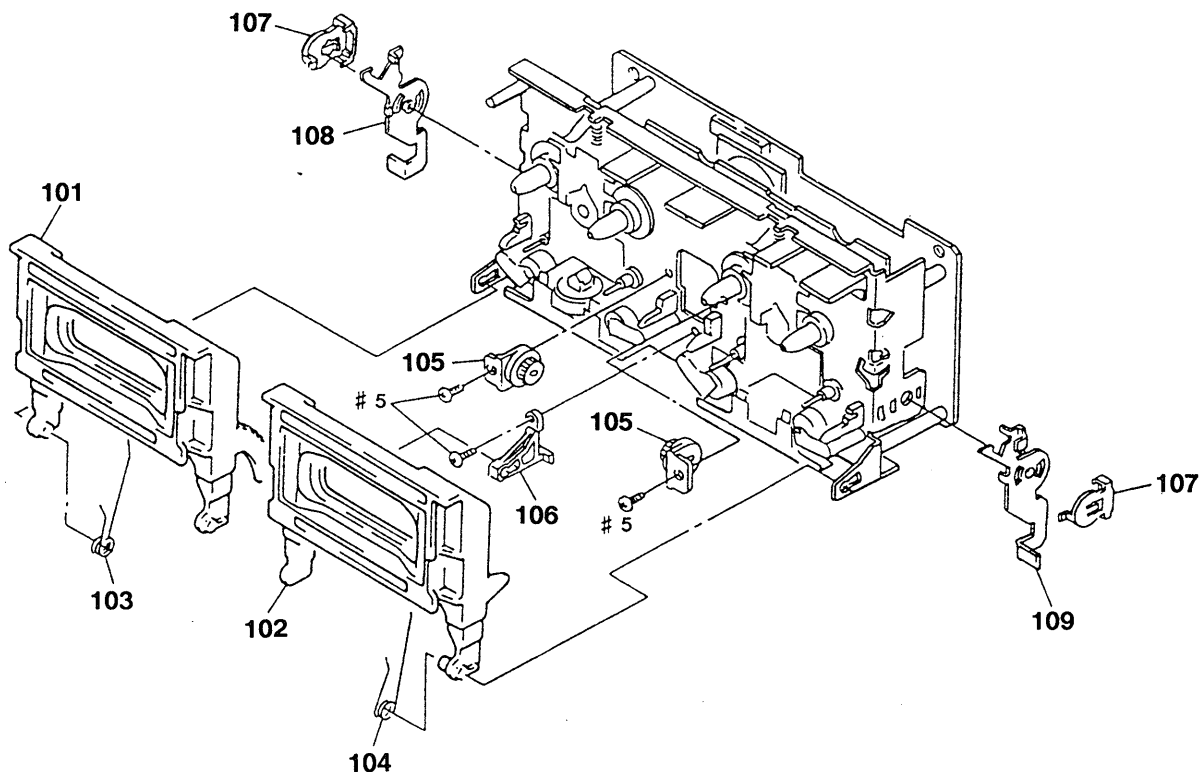
- ▲ B: MAIN (B) BOARD
 ▲ C: MAIN (C) BOARD
 ▲ E: MAIN (E) BOARD (US, CND, E, AUS model)
 ▲ F: MAIN (F) BOARD (EXCEPT US, CND, E, AUS model)
 ▲ G: MAIN (G) BOARD

NOTE: ▲ A, ▲ B, ▲ C, ▲ D, ▲ E, ▲ F and
▲ G are supplied as MAIN board.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3371-403-1	LID (A) ASSY, CASSETTE		63	3-931-429-01	BUTTON (POWER)	
52	X-3371-404-1	LID (B) ASSY, CASSETTE		64	4-951-620-01	SCREW (2.6X8), +BVTP	
53	X-3371-400-1	PANEL ASSY, FRONT (WR350Z)		* 65	A-2007-484-A	MAIN BOARD, COMPLETE (WR350Z/WR661:US, CND)	
53	X-3371-401-1	PANEL ASSY, FRONT (WE405:US, CND)		* 65	A-2007-486-A	MAIN BOARD, COMPLETE (WR661:AEP, UK, G, IT)	
53	X-3371-402-1	PANEL ASSY, FRONT (WR661)		* 65	A-2007-487-A	MAIN BOARD, COMPLETE (WR661:E)	
53	X-3371-969-1	PANEL ASSY, FRONT (WE405:AEP, CH, MY, SP, UK, G, E, AUS)		* 65	A-2007-488-A	MAIN BOARD, COMPLETE (WE405:AEP, CH, MY, SP, UK, G)	
54	4-963-404-21	EMBLEM (5-A), SONY		* 65	A-2007-489-A	MAIN BOARD, COMPLETE (WE405:E)	
55	3-931-435-01	WINDOW (R)		* 65	A-2007-490-A	MAIN BOARD, COMPLETE (WE405:AUS)	
56	3-931-434-01	WINDOW (M)		* 65	A-2007-546-A	MAIN BOARD, COMPLETE (WE405:US, CND)	
57	3-931-425-01	BUTTON (A)		* 66	3-931-428-01	HOLDER (FL)	
58	3-931-426-01	BUTTON (B)		67	1-773-332-11	WIRE (FLAT TYPE) (31 CORE)	
59	4-977-358-01	CUSHION (8X12.5)		68	1-769-950-11	WIRE (FLAT TYPE) (11 CORE)	
60	3-931-430-11	KNOB (REC)		69	1-773-153-11	WIRE (FLAT TYPE) (21 CORE)	
61	3-931-427-01	BUTTON (EJ)		FLT901	1-517-491-11	INDICATOR TUBE, FLUORESCENT	
62	4-977-593-11	RING (DIA 50), ORNAMENTAL (WE405:AEP, CH, MY, SP, UK, G, E, AUS)					

5-3. TC MECHANISM SECTION 1
 (WE405: TCM-220WR1
 WR350Z, WR661: TCM-220WR4E)

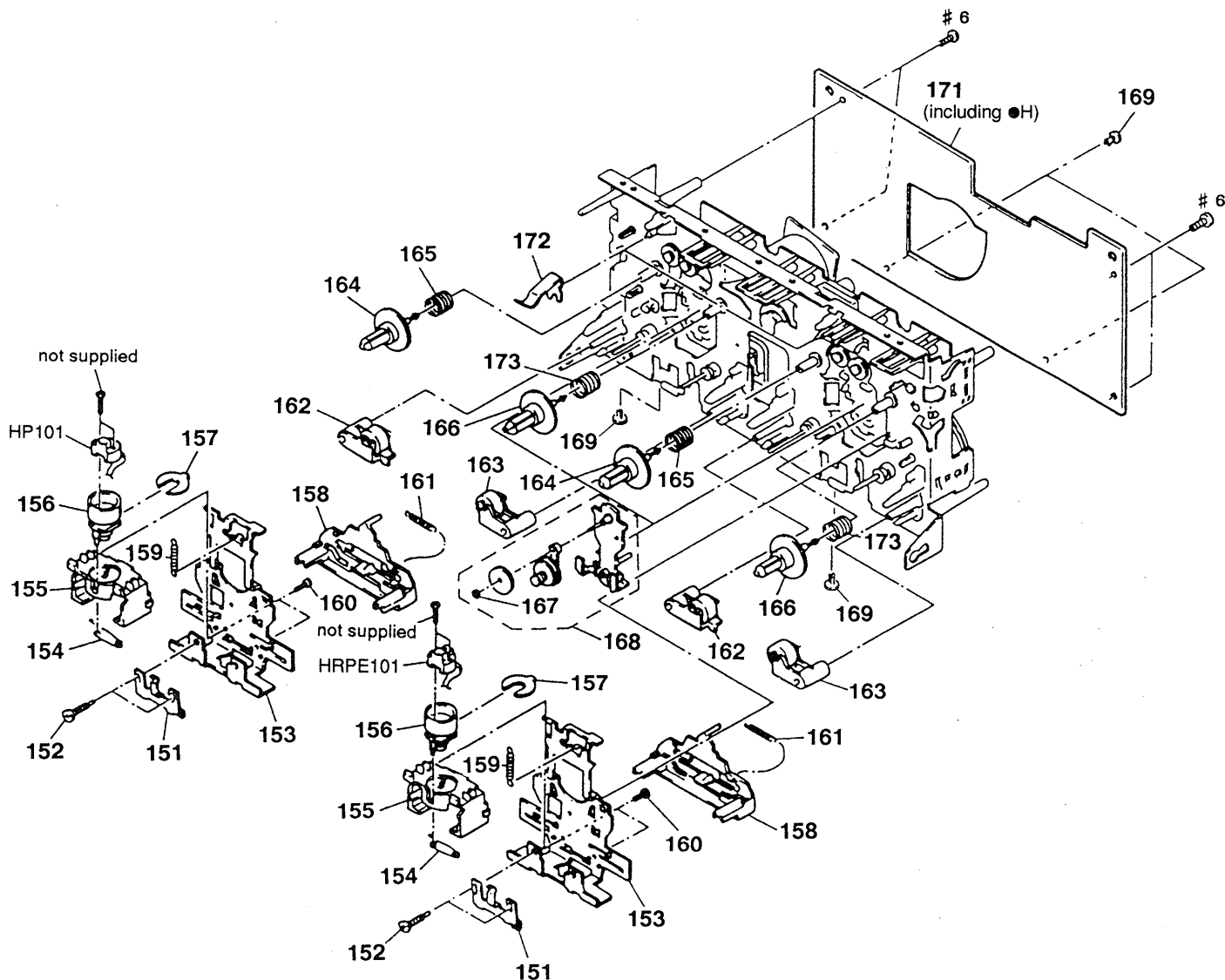


Ref. No.	Part No.	Description
101	X-4945-690-1	HOLDER (L) ASSY, CASSETTE
102	X-4945-691-1	HOLDER (R) ASSY, CASSETTE
103	4-959-231-11	SPRING (L), TORSION
104	4-959-232-11	SPRING (R), TORSION
105	3-354-963-01	DAMPER

Ref. No.	Part No.	Description
* 106	4-980-439-01	FULCRUM, HOLDER
107	3-354-957-01	JOINT (LOCK LEVER)
* 108	3-354-953-01	LEVER (LOCK LEVER L)
* 109	3-354-954-01	LEVER (LOCK LEVER R)

5-4. TC MECHANISM SECTION 2

(WE405: TCM-220WR1
WR350Z, WR661: TCM-220WR4E)

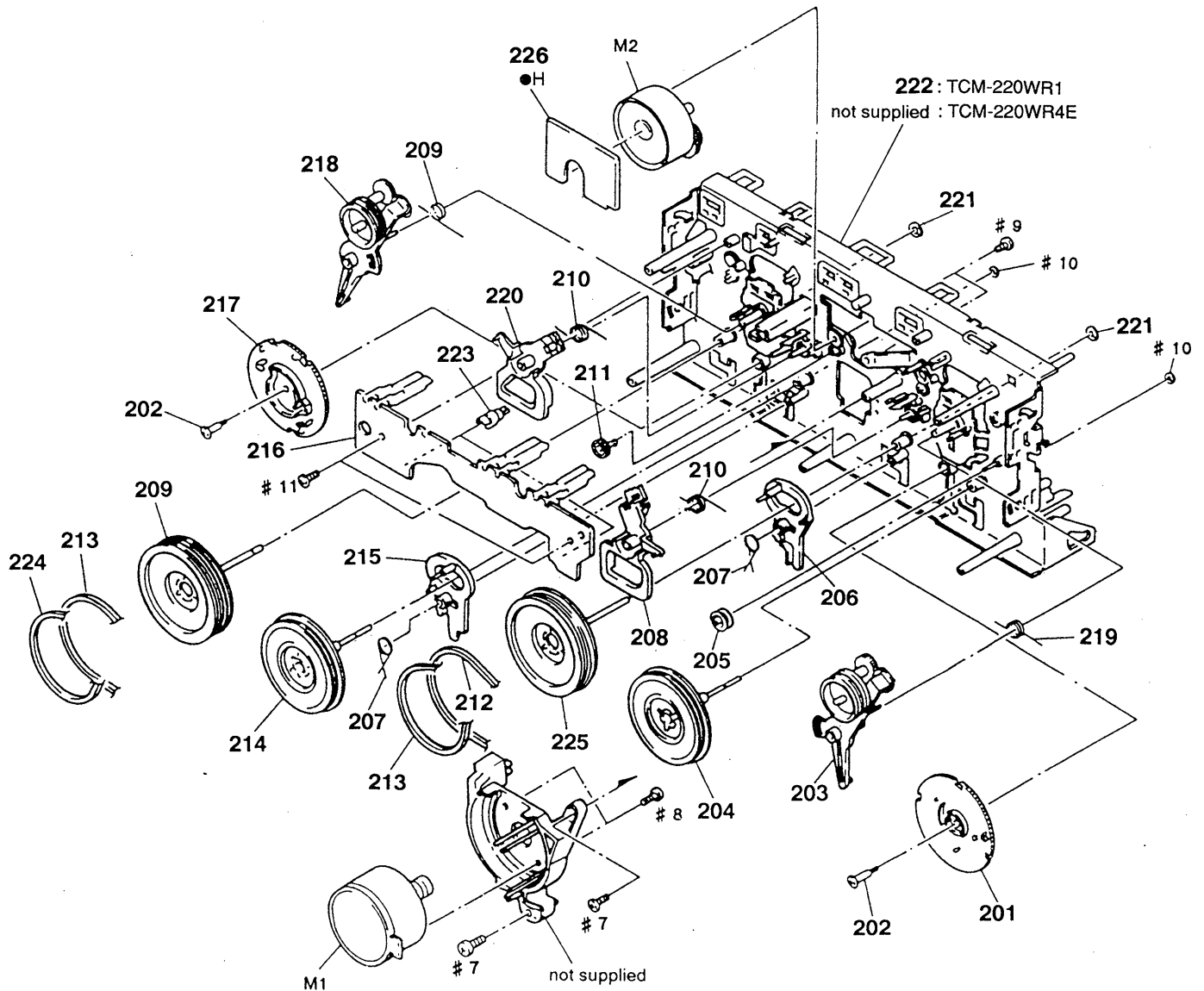


Ref. No.	Part No.	Description
151	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT
152	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT
* 153	X-3367-584-2	SLIDER (HEAD) ASSY
154	3-908-556-01	SPRING, HEAD TOGGLE
155	3-908-558-02	FITTING BLOCK, HEAD
156	3-908-557-02	ROTARY BLOCK, HEAD
* 157	3-908-559-01	STOPPER, AZIMUTH
158	3-908-555-01	SLIDER (REV SLIDER)
159	3-917-143-11	SPRING, TENSION
160	3-388-848-01	SCREW (P2X6) (B TIGHT)
161	3-911-113-01	SPRING, TENSION
162	X-3370-643-1	PINCH LEVER (REV) ASSY
163	X-3367-588-1	PINCH LEVER (FWD) ASSY

Ref. No.	Part No.	Description
164	3-908-613-01	GEAR (S), REEL
165	3-917-141-01	SPRING, COMPRESSION
166	X-3371-305-1	REEL (T) ASSY
167	3-669-465-01	WASHER (1.5), STOPPER
168	X-3370-173-1	TU ASSY
169	3-911-116-21	RIVET, PUSH
* 171	A-2007-129-A	MD BOARD, COMPLETE (WE405)
* 171	A-2007-483-A	MD BOARD, COMPLETE (WR350Z/WR661)
172	3-930-972-01	DETENT, HALF
173	3-917-142-01	SPRING, COMPRESSION
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)

5-5. TC MECHANISM SECTION 3
(WE405: TCM-220WR1
WR350Z, WR661: TCM-220WR4E)

● H: MOTOR BOARD
 (Supplied with MD board)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-908-597-01	CAM (A)		* 216	1-650-669-11	LEAF SWITCH BOARD	
202	3-908-608-11	SCREW, STEP		217	3-908-598-01	CAM (B)	
203	X-3367-590-2	ARM (A) ASSY, FR		218	X-3369-849-2	ARM (B) ASSY, FR	
204	X-3370-169-1	FLYWHEEL (AR) ASSY		219	3-914-111-01	SPRING (FR), TORSION	
205	3-928-047-01	PULLEY, TENSION		220	3-908-604-01	LEVER (TRIGGER B)	
206	3-908-599-01	LEVER (REV-A)		221	3-911-115-01	WASHER, STOPPER	
207	3-908-601-01	SPRING (REV LEVER), TORSION		222	X-3371-441-1	CHASSIS ASSY, MECHANICAL (TCM-220WR1)	
208	3-908-603-01	LEVER (TRIGGER A)		224	3-917-176-11	BELT (B)	
209	X-3370-170-1	FLYWHEEL (BF) ASSY		225	X-3370-172-1	FLYWHEEL (AF) ASSY	
210	3-908-605-01	SPRING (TRIGGER), TORSION		* 226	A-2007-129-A	MD BOARD, COMPLETE (WE405)	
211	3-908-609-01	GEAR, TRIGGER		* 226	A-2007-483-A	MD BOARD, COMPLETE (WR350Z/WR661)	
212	3-913-845-11	BELT (A)		M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
213	3-913-846-11	BELT (FR)		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	
214	X-3370-171-1	FLYWHEEL (BR) ASSY					
215	3-908-600-01	LEVER (REV-B)					

LEAF SWITCH

MAIN

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

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.

- 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.
- 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
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
G : German model
IT : Italian model
SP : Singapore model
MY : Malaysia model
AUS : Australian model
CH : Chinese model

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
*	1-650-669-11	LEAF SWITCH BOARD *****		*	A-2007-484-A	MAIN BOARD, COMPLETE ***** (WR350Z/WR661:US, CND)	
		< CONNECTOR >					
*	CN1001 1-568-854-11	SOCKET, CONNECTOR 11P < TRANSISTOR >		*	A-2007-486-A	MAIN BOARD, COMPLETE ***** (WR661:AEP, UK, G, IT)	
Q1001	8-749-010-90	TRANSISTOR PHOTO REFLECTOR NJL5165KA-H2		*	A-2007-487-A	MAIN BOARD, COMPLETE (WR661:E) *****	
Q1002	8-749-010-90	TRANSISTOR PHOTO REFLECTOR NJL5165KA-H2 < RESISTOR >		*	A-2007-488-A	MAIN BOARD, COMPLETE ***** (WE405:AEP, UK, G, CH, MY, SP)	
R1001	1-249-412-11	CARBON 390 5% 1/4W F		*	A-2007-489-A	MAIN BOARD, COMPLETE (WE405:E) *****	
R1002	1-249-412-11	CARBON 390 5% 1/4W F					
R1003	1-249-414-11	CARBON 560 5% 1/4W F		*	A-2007-490-A	MAIN BOARD, COMPLETE (WE405:AUS) *****	
R1004	1-247-834-11	CARBON 1.3K 5% 1/4W		*	A-2007-546-A	MAIN BOARD, COMPLETE (WE405:US, CND) *****	
R1005	1-247-818-11	CARBON 300 5% 1/4W				MAIN (A) BOARD	
		< SWITCH >				MAIN (B) BOARD	
S1001	1-692-832-11	SWITCH, PUSH (1 KEY) (A PLAY)				MAIN (C) BOARD	
S1002	1-692-832-11	SWITCH, PUSH (1 KEY) (B PLAY)				MAIN (D) BOARD	
S1003	1-572-248-11	SWITCH, LEAF (A HALF)				MAIN (E) BOARD (US, CND, E, AUS)	
S1004	1-571-281-21	SWITCH, LEAF (A CrO2)				MAIN (F) BOARD (EXCEPT US, CND, E, AUS)	
S1005	1-571-281-21	SWITCH, LEAF (REC A)				MAIN (G) BOARD *****	
S1006	1-572-248-11	SWITCH, LEAF (B HALF)					
S1007	1-571-281-21	SWITCH, LEAF (B METAL)					
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)					
S1009	1-571-281-21	SWITCH, LEAF (REC B)					
*****				*	3-931-428-01	HOLDER (FL) < CAPACITOR >	
				C102	1-124-925-11	ELECT 2.2uF 20% 100V	
				C103	1-126-963-11	ELECT 4.7uF 20% 50V	
				C104	1-102-122-21	CERAMIC 0.0027uF 10% 50V	
						(WR350Z/WR661)	
				C104	1-162-302-11	CERAMIC 0.0022uF 20% 16V (WE405)	
				C106	1-126-964-11	ELECT 10uF 20% 50V	
				C107	1-137-399-11	FILM 0.1uF 5% 50V	
				C108	1-137-375-11	FILM 0.068uF 5% 50V	
				C109	1-126-963-11	ELECT 4.7uF 20% 50V	
				C110	1-124-902-00	ELECT 0.47uF 20% 50V	
				C111	1-126-963-11	ELECT 4.7uF 20% 50V	

Ref. No.	Part No.	Description	Remark
C112	1-126-963-11	ELECT 4.7uF 20% 50V	
C113	1-124-925-11	ELECT 2.2uF 20% 100V	
C114	1-126-963-11	ELECT 4.7uF 20% 50V	
C115	1-162-294-31	CERAMIC 0.001uF 10% 50V (WE405:AEP, UK, G, IT, CH, MY, SP)	
C117	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C202	1-124-925-11	ELECT 2.2uF 20% 100V	
C203	1-126-963-11	ELECT 4.7uF 20% 50V	
C204	1-102-122-21	CERAMIC 0.0027uF 10% 50V (WR350Z/WR661)	
C204	1-162-302-11	CERAMIC 0.0022uF 20% 16V (WE405)	
C206	1-126-964-11	ELECT 10uF 20% 50V	
C207	1-137-399-11	FILM 0.1uF 5% 50V	
C208	1-137-375-11	FILM 0.068uF 5% 50V	
C209	1-126-963-11	ELECT 4.7uF 20% 50V	
C210	1-124-902-00	ELECT 0.47uF 20% 50V	
C211	1-126-963-11	ELECT 4.7uF 20% 50V	
C212	1-126-963-11	ELECT 4.7uF 20% 50V	
C213	1-124-925-11	ELECT 2.2uF 20% 100V	
C214	1-126-963-11	ELECT 4.7uF 20% 50V	
C215	1-162-294-31	CERAMIC 0.001uF 10% 50V (WE405:AEP, UK, G, IT, CH, MY, SP)	
C217	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C501	1-124-903-11	ELECT 1uF 20% 50V	
C502	1-126-965-11	ELECT 22uF 20% 50V	
C507	1-126-964-11	ELECT 10uF 20% 50V	
C508	1-126-964-11	ELECT 10uF 20% 50V	
C509	1-126-964-11	ELECT 10uF 20% 50V	
C512	1-104-664-11	ELECT 47uF 20% 25V	
C513	1-126-935-11	ELECT 470uF 20% 16V (WR350Z/WR661)	
C514	1-161-494-00	CERAMIC 0.022uF 25V (WE405)	
C701	1-126-946-11	ELECT 6800uF 20% 25V	
C702	1-126-946-11	ELECT 6800uF 20% 25V	
C703	1-124-903-11	ELECT 1uF 20% 50V	
C704	1-126-968-11	ELECT 100uF 20% 50V	
C705	1-128-551-11	ELECT 22uF 20% 25V	
C706	1-126-927-11	ELECT 2200uF 20% 10V	
C707	1-126-927-11	ELECT 2200uF 20% 10V	
C708	1-126-963-11	ELECT 4.7uF 20% 50V	
C710	1-126-916-11	ELECT 1000uF 20% 6.3V	
C711	1-126-965-11	ELECT 22uF 20% 50V	
△C712	1-113-925-51	ELECT 0.01uF 20% 250V (WE405:AEP, UK, G, IT, CH, MY, SP/WR661:AEP, UK, G, IT)	
C714	1-161-494-00	CERAMIC 0.022uF 25V	
C801	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C802	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C806	1-164-159-11	CERAMIC 0.1uF 50V	
C807	1-161-494-00	CERAMIC 0.022uF 25V	
C808	1-161-494-00	CERAMIC 0.022uF 25V	
C809	1-161-494-00	CERAMIC 0.022uF 25V	

Ref. No.	Part No.	Description	Remark
C810	1-161-494-00	CERAMIC 0.022uF 25V	
C811	1-126-935-11	ELECT 470uF 20% 6.3V	
C812	1-164-159-11	CERAMIC 0.1uF 50V	
C813	1-137-446-11	FILM 0.18uF 5% 50V	
C814	1-136-175-00	FILM 0.68uF 5% 50V	
C815	1-137-370-11	FILM 0.01uF 5% 50V	
C816	1-164-159-11	CERAMIC 0.1uF 50V	
C817	1-161-494-00	CERAMIC 0.022uF 25V	
C818	1-126-952-11	ELECT 1000uF 20% 16V	
C819	1-126-963-11	ELECT 4.7uF 20% 50V	
C901	1-126-967-11	ELECT 47uF 20% 10V	
< CONNECTOR >			
* CN702	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P	
CN703	1-568-106-11	PIN, CONNECTOR 4P (WE405:E/WR661:E)	
CN705	1-568-226-11	PIN, CONNECTOR 2P (WE405:AEP, UK, G, IT, CH, MY, SP/WR661:AEP, UK, G, IT)	
CNA501	1-506-468-11	PIN, CONNECTOR 3P (WE405)	
* CNA808	1-568-954-11	PIN, CONNECTOR 5P (WE405:US, CND, E, AUS/WR350Z/WR661:US, CND, E)	
* CNF802	1-568-845-11	SOCKET, CONNECTOR 31P	
CNF803	1-568-838-11	SOCKET, CONNECTOR 21P	
* CNF804	1-568-830-11	SOCKET, CONNECTOR 11P	
* CNF805	1-568-830-11	SOCKET, CONNECTOR 11P	
* CNF806	1-568-830-11	SOCKET, CONNECTOR 11P	
* CNF807	1-568-873-11	SOCKET, CONNECTOR 31P	
CNM701	1-766-269-11	PIN, CONNECTOR (PC BOARD) 7P	
< DIODE >			
D101	8-719-933-33	DIODE HZS6A1L	
D201	8-719-933-33	DIODE HZS6A1L	
D501	8-719-987-63	DIODE 1N4148M	
D701	8-719-024-99	DIODE 11ES2-NTA2B	
D702	8-719-024-99	DIODE 11ES2-NTA2B	
D703	8-719-024-99	DIODE 11ES2-NTA2B	
D704	8-719-024-99	DIODE 11ES2-NTA2B	
D705	8-719-987-63	DIODE 1N4148M	
D706	8-719-987-63	DIODE 1N4148M	
D707	8-719-024-99	DIODE 11ES2-NTA2B	
D708	8-719-987-63	DIODE 1N4148M	
D709	8-719-933-33	DIODE HZS6A1L	
D710	8-719-000-54	DIODE UZL-6L3	
D711	8-719-933-33	DIODE HZS6A1L	
D712	8-719-933-38	DIODE HZS6B3L	
D713	8-719-987-63	DIODE 1N4148M	
D714	8-719-987-63	DIODE 1N4148M	
D715	8-719-987-63	DIODE 1N4148M	
D716	8-719-000-78	DIODE UZL-7L2	
D718	8-719-933-33	DIODE HZS6A1L	
D901	8-719-313-48	DIODE SEL6210S-TH12 (AUTO)	

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
< FLUORESCENT INDICATOR >			
FLT901	1-517-491-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC501	8-752-075-27	IC CXA1878Q	
IC502	8-759-634-51	IC M5218AP (WE405)	
IC701	8-759-634-51	IC M5218AP	
IC801	8-759-370-82	IC M38172M4-156FP	
IC802	8-759-634-51	IC M5218AP	
IC803	8-759-165-82	IC PST600E-T	
IC804	8-759-822-09	IC LB1641	
IC806	8-759-000-48	IC MC14052BCP	
IC901	8-741-780-51	IC SBX1780-51	
< JACK >			
J501	1-770-614-11	JACK, PIN 4P (LINE IN, OUT)	
J502	1-750-733-11	JACK (LARGE TYPE) (PHONES) (WE405)	
< FILTER >			
LPF101	1-235-175-11	FILTER, LOW PASS (WE405)	
LPF101	1-239-355-11	FILTER, LOW PASS (WR350Z/WR661)	
LPF201	1-235-175-11	FILTER, LOW PASS (WE405)	
LPF201	1-239-355-11	FILTER, LOW PASS (WR350Z/WR661)	
< TRANSISTOR >			
Q101	8-729-206-28	TRANSISTOR RN1210	
Q102	8-729-142-25	TRANSISTOR 2SD1020-HFE	
Q201	8-729-206-28	TRANSISTOR RN1210	
Q202	8-729-142-25	TRANSISTOR 2SD1020-HFE	
Q501	8-729-900-65	TRANSISTOR DTA144ES	
Q701	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q703	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q704	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q705	8-729-900-80	TRANSISTOR DTC114ES	
		(WE405:US, CND, E, AUS/WR350Z/WR661:US, CND, E)	
Q706	8-729-900-80	TRANSISTOR DTC114ES	
		(WE405:US, CND, E, AUS/WR350Z/WR661:US, CND, E)	
Q707	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q708	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q801	8-729-206-28	TRANSISTOR RN1210	
		(WE405:US, CND, E, AUS/WR350Z/WR661:US, CND, E)	
Q802	8-729-900-89	TRANSISTOR DTC144ES	
Q803	8-729-801-93	TRANSISTOR 2SD1387	
Q804	8-729-900-61	TRANSISTOR DTA114ES	
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q806	8-729-900-89	TRANSISTOR DTC144ES	
Q807	8-729-206-28	TRANSISTOR RN1210	
Q808	8-729-119-76	TRANSISTOR 2SA1175-HFE	

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R101	1-249-429-11	CARBON 10K 5% 1/4W	
R102	1-247-887-00	CARBON 220K 5% 1/4W	
R103	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R104	1-247-887-00	CARBON 220K 5% 1/4W	
R105	1-247-848-11	CARBON 5.1K 5% 1/4W	
R106	1-249-420-11	CARBON 1.8K 5% 1/4W	F
R107	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R108	1-249-430-11	CARBON 12K 5% 1/4W	
R109	1-249-417-11	CARBON 1K 5% 1/4W	F
R110	1-249-429-11	CARBON 10K 5% 1/4W	
R111	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R112	1-249-417-11	CARBON 1K 5% 1/4W	F
R113	1-249-439-11	CARBON 68K 5% 1/4W	
R114	1-249-429-11	CARBON 10K 5% 1/4W	
R115	1-249-424-11	CARBON 3.9K 5% 1/4W	F
R116	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R117	1-249-433-11	CARBON 22K 5% 1/4W	(WE405)
R118	1-249-437-11	CARBON 47K 5% 1/4W	(WE405)
R119	1-249-433-11	CARBON 22K 5% 1/4W	(WE405)
R120	1-249-409-11	CARBON 220 5% 1/4W	F (WE405)
R121	1-247-872-11	CARBON 51K 5% 1/4W	
R201	1-249-429-11	CARBON 10K 5% 1/4W	
R202	1-247-887-00	CARBON 220K 5% 1/4W	
R203	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R204	1-247-887-00	CARBON 220K 5% 1/4W	
R205	1-247-848-11	CARBON 5.1K 5% 1/4W	
R206	1-249-420-11	CARBON 1.8K 5% 1/4W	F
R207	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R208	1-249-430-11	CARBON 12K 5% 1/4W	
R209	1-249-417-11	CARBON 1K 5% 1/4W	F
R210	1-249-429-11	CARBON 10K 5% 1/4W	
R211	1-249-423-11	CARBON 3.3K 5% 1/4W	F
R212	1-249-417-11	CARBON 1K 5% 1/4W	F
R213	1-249-439-11	CARBON 68K 5% 1/4W	
R214	1-249-429-11	CARBON 10K 5% 1/4W	
R215	1-249-424-11	CARBON 3.9K 5% 1/4W	F
R216	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R217	1-249-433-11	CARBON 22K 5% 1/4W	(WE405)
R218	1-249-437-11	CARBON 47K 5% 1/4W	(WE405)
R219	1-249-433-11	CARBON 22K 5% 1/4W	(WE405)
R220	1-249-409-11	CARBON 220 5% 1/4W	F (WE405)
R221	1-247-872-11	CARBON 51K 5% 1/4W	
R501	1-215-452-00	METAL 20K 1% 1/4W	
R502	1-215-455-00	METAL 27K 1% 1/4W	
R505	1-249-413-11	CARBON 470 5% 1/4W	F
R506	1-249-429-11	CARBON 10K 5% 1/4W	
R507	1-249-437-11	CARBON 47K 5% 1/4W	
R509	1-249-417-11	CARBON 1K 5% 1/4W	F
R510	1-247-807-31	CARBON 100 5% 1/4W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R517	1-249-410-11	CARBON 270 5% 1/4W F		R826	1-249-429-11	CARBON 10K 5% 1/4W	
R520	1-249-437-11	CARBON 47K 5% 1/4W		R827	1-249-429-11	CARBON 10K 5% 1/4W	
R701	1-249-414-11	CARBON 560 5% 1/4W F		R828	1-249-431-11	CARBON 15K 5% 1/4W	
R702	1-249-429-11	CARBON 10K 5% 1/4W		R829	1-249-414-11	CARBON 560 5% 1/4W F	
		(WE405:US, CND, E, AUS/WR350Z/WR661:US, CND, E)		R830	1-249-433-11	CARBON 22K 5% 1/4W	
R704	1-249-425-11	CARBON 4.7K 5% 1/4W F		R831	1-249-433-11	CARBON 22K 5% 1/4W	
R705	1-247-852-11	CARBON 7.5K 5% 1/4W		R832	1-249-429-11	CARBON 10K 5% 1/4W	
R706	1-249-419-11	CARBON 1.5K 5% 1/4W F		R833	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R707	1-249-429-11	CARBON 10K 5% 1/4W		R834	1-249-435-11	CARBON 33K 5% 1/4W (WE405)	
R708	1-249-419-11	CARBON 1.5K 5% 1/4W F		R835	1-249-432-11	CARBON 18K 5% 1/4W (WE405)	
R709	1-249-425-11	CARBON 4.7K 5% 1/4W F		R836	1-249-426-11	CARBON 5.6K 5% 1/4W (WE405)	
R710	1-249-417-11	CARBON 1K 5% 1/4W F		R837	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R711	1-249-427-11	CARBON 6.8K 5% 1/4W F		R838	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R712	1-249-427-11	CARBON 6.8K 5% 1/4W F		R839	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R713	1-249-417-11	CARBON 1K 5% 1/4W F		R840	1-249-433-11	CARBON 22K 5% 1/4W	
R714	1-249-428-11	CARBON 8.2K 5% 1/4W F		R841	1-249-433-11	CARBON 22K 5% 1/4W	
R715	1-249-421-11	CARBON 2.2K 5% 1/4W F		R842	1-249-417-11	CARBON 1K 5% 1/4W F (WE405)	
R716	1-249-430-11	CARBON 12K 5% 1/4W		R844	1-249-429-11	CARBON 10K 5% 1/4W	
R717	1-249-421-11	CARBON 2.2K 5% 1/4W F				(WR350Z/WR661)	
R718	1-249-429-11	CARBON 10K 5% 1/4W		R845	1-249-416-11	CARBON 820 5% 1/4W F	
R719	1-249-437-11	CARBON 47K 5% 1/4W				(WR350Z/WR661)	
R720	1-249-413-11	CARBON 470 5% 1/4W F		R846	1-249-426-11	CARBON 5.6K 5% 1/4W	
						(WR350Z/WR661)	
R721	1-249-421-11	CARBON 2.2K 5% 1/4W F		R847	1-249-433-11	CARBON 22K 5% 1/4W	
△R722	1-219-137-11	FUSIBLE 0.33 10% 1/4W				(WR350Z/WR661)	
△R723	1-217-371-00	FUSIBLE 0.47 10% 1/4W		R849	1-249-441-11	CARBON 100K 5% 1/4W	
R724	1-249-409-11	CARBON 220 5% 1/4W F					
△R725	1-219-137-11	FUSIBLE 0.33 10% 1/4W		R902	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R801	1-249-433-11	CARBON 22K 5% 1/4W		R903	1-249-420-11	CARBON 1.8K 5% 1/4W F	
R802	1-247-807-31	CARBON 100 5% 1/4W		R904	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R803	1-249-429-11	CARBON 10K 5% 1/4W		R905	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R804	1-249-433-11	CARBON 22K 5% 1/4W		R906	1-249-420-11	CARBON 1.8K 5% 1/4W F	
R805	1-249-433-11	CARBON 22K 5% 1/4W		R907	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R806	1-247-895-00	CARBON 470K 5% 1/4W		R908	1-249-420-11	CARBON 1.8K 5% 1/4W F	
R807	1-247-895-00	CARBON 470K 5% 1/4W		R909	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R808	1-249-425-11	CARBON 4.7K 5% 1/4W F		R910	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R809	1-249-425-11	CARBON 4.7K 5% 1/4W F		R911	1-249-427-11	CARBON 6.8K 5% 1/4W F	
R810	1-249-425-11	CARBON 4.7K 5% 1/4W F		R912	1-249-418-11	CARBON 1.2K 5% 1/4W F	
R811	1-249-417-11	CARBON 1K 5% 1/4W F		R913	1-249-420-11	CARBON 1.8K 5% 1/4W F	
R812	1-249-436-11	CARBON 39K 5% 1/4W		R914	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R813	1-249-436-11	CARBON 39K 5% 1/4W		R915	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R814	1-249-441-11	CARBON 100K 5% 1/4W		R916	1-249-413-11	CARBON 470 5% 1/4W F	
R815	1-249-429-11	CARBON 10K 5% 1/4W		R917	1-249-422-11	CARBON 2.7K 5% 1/4W F	
R816	1-249-429-11	CARBON 10K 5% 1/4W		R918	1-249-424-11	CARBON 3.9K 5% 1/4W F	
R817	1-249-429-11	CARBON 10K 5% 1/4W		R919	1-247-807-31	CARBON 100 5% 1/4W	
R818	1-249-429-11	CARBON 10K 5% 1/4W		R920	1-249-407-11	CARBON 150 5% 1/4W F	
R819	1-249-407-11	CARBON 150 5% 1/4W F				< VARIABLE RESISTOR >	
R820	1-249-437-11	CARBON 47K 5% 1/4W		RV101	1-241-630-11	RES, ADJ, CARBON 10K	
R821	1-249-437-11	CARBON 47K 5% 1/4W		RV201	1-241-630-11	RES, ADJ, CARBON 10K	
R822	1-249-437-11	CARBON 47K 5% 1/4W		RV501	1-241-797-11	RES, VAR, CARBON 20K (REC LEVEL)	
R825	1-249-418-11	CARBON 1.2K 5% 1/4W F					

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
< SWITCH >			
△S701	1-762-581-11	SWITCH, AC POWER PUSH (1 KEY) (POWER) (WE405:AEP, UK, G, IT, CH, MY, SP/WR661:AEP, UK, G, IT)	
△S901	1-762-580-11	SWITCH, PUSH (1 KEY) (POWER) (WE405:US, CND, E, AUS/WR350Z/WR661:US, CND, E)	
S902	1-762-567-11	SWITCH, SLIDE (DIRECTION)	
S903	1-762-567-11	SWITCH, SLIDE (DOLBY NR)	
S904	1-554-303-21	SWITCH, TACTILE (■ DECK A)	
S905	1-554-303-21	SWITCH, TACTILE (▷ DECK A)	
S906	1-554-303-21	SWITCH, TACTILE (◁ DECK A)	
S907	1-554-303-21	SWITCH, TACTILE (DECK A, COUNTER RESET)	
S908	1-554-303-21	SWITCH, TACTILE (◀◀ DECK A)	
S909	1-554-303-21	SWITCH, TACTILE (▶▶ DECK A)	
S910	1-554-303-21	SWITCH, TACTILE (DECK B, COUNTER RESET)	
S911	1-554-303-21	SWITCH, TACTILE (◀◀ DECK B)	
S912	1-554-303-21	SWITCH, TACTILE (▶▶ DECK B)	
S913	1-554-303-21	SWITCH, TACTILE (REC ● DECK B)	
S914	1-554-303-21	SWITCH, TACTILE (PAUSE ■ DECK B)	
S915	1-554-303-21	SWITCH, TACTILE (REC MUTE ● DECK B)	
S916	1-554-303-21	SWITCH, TACTILE (HIGH/NORMAL DECK B)	
S917	1-554-303-21	SWITCH, TACTILE (■ DECK B)	
S918	1-554-303-21	SWITCH, TACTILE (▷ DECK B)	
S919	1-554-303-21	SWITCH, TACTILE (◁ DECK B)	
S920	1-554-303-21	SWITCH, TACTILE (ARL)	
S921	1-554-303-21	SWITCH, TACTILE (FADER)	

< TRANSFORMER >

△T901	1-429-387-11	TRANSFORMER, POWER (WE405:US, CND/WR350Z/WR661:US, CND)	
△T901	1-429-388-11	TRANSFORMER, POWER (WE405:AEP, UK, G, AUS, CH, MY, SP/WR661:AEP, UK, G, IT)	
△T901	1-429-389-11	TRANSFORMER, POWER (WE405:E/WR661:E)	

< TEST PIN >

* TP801	1-560-060-00	PIN, CONNECTOR 2P	
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< VIBRATOR >

X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
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A-2007-129-A MD BOARD, COMPLETE (WE405)

(including MOTOR board)

< CAPACITOR >

C301	1-162-289-31	CERAMIC	390PF	10%	50V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-487-00	MYLAR	0.022uF	5%	50V
C305	1-124-234-00	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V

Ref. No.	Part No.	Description	Remark
C313	1-162-282-31	CERAMIC	100PF 10% 50V
C314	1-130-487-00	MYLAR	0.022uF 5% 50V
C315	1-126-233-11	ELECT	22uF 20% 50V
C331	1-107-609-11	CERAMIC	75PF 5% 500V
C332	1-162-288-31	CERAMIC	330PF 10% 50V
C341	1-161-494-00	CERAMIC	0.022uF 25V
C342	1-136-165-00	FILM	0.1uF 5% 50V
C343	1-162-306-11	CERAMIC	0.01uF 20% 16V
C344	1-130-472-00	MYLAR	0.0012uF 5% 50V
C345	1-102-973-00	CERAMIC	100PF 5% 50V
C346	1-136-356-11	FILM	470PF 5% 100V
C401	1-162-289-31	CERAMIC	390PF 10% 50V
C403	1-162-282-31	CERAMIC	100PF 10% 50V
C404	1-130-487-00	MYLAR	0.022uF 5% 50V
C405	1-124-234-00	ELECT	22uF 20% 16V
C411	1-162-289-31	CERAMIC	390PF 10% 50V
C413	1-162-282-31	CERAMIC	100PF 10% 50V
C414	1-130-487-00	MYLAR	0.022uF 5% 50V
C415	1-126-233-11	ELECT	22uF 20% 50V
C431	1-107-609-11	CERAMIC	75PF 5% 500V
C432	1-162-288-31	CERAMIC	330PF 10% 50V
C441	1-161-494-00	CERAMIC	0.022uF 25V
C442	1-136-165-00	FILM	0.1uF 5% 50V
C443	1-162-306-11	CERAMIC	0.01uF 20% 16V
C444	1-130-472-00	MYLAR	0.0012uF 5% 50V
C445	1-102-973-00	CERAMIC	100PF 5% 50V
C446	1-136-356-11	FILM	470PF 5% 100V
C601	1-124-907-11	ELECT	10uF 20% 50V
C602	1-124-907-11	ELECT	10uF 20% 50V
C611	1-124-907-11	ELECT	10uF 20% 50V
C612	1-124-907-11	ELECT	10uF 20% 50V
C621	1-136-293-11	FILM	0.0082uF 5% 100V
C622	1-136-173-00	FILM	0.47uF 5% 50V
C623	1-130-299-00	FILM	0.012uF 5% 50V
C624	1-137-436-11	FILM	0.0039uF 5% 50V
C625	1-137-436-11	FILM	0.0039uF 5% 50V
C641	1-126-233-11	ELECT	22uF 20% 50V
C642	1-104-664-11	ELECT	47uF 20% 16V
C643	1-124-465-00	ELECT	0.47uF 20% 50V
C644	1-107-584-11	CERAMIC	4PF 0.25PF 500V
C651	1-161-494-00	CERAMIC	0.022uF 25V

< CONNECTOR >

* CN601	1-568-864-11	SOCKET, CONNECTOR 21P	
* CN651	1-564-521-11	PLUG, CONNECTOR 6P	

< DIODE >

D601	8-719-987-63	DIODE 1N4148M	
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< IC >				< VARIABLE RESISTOR >			
IC601	8-759-710-59	IC NJM4580D-D		RV301	1-238-598-11	RES, ADJ, CARBON 2.2K	
IC611	8-759-710-59	IC NJM4580D-D		RV311	1-238-598-11	RES, ADJ, CARBON 2.2K	
IC641	8-759-106-56	IC uPC1297CA		RV341	1-241-786-11	RES, ADJ, CARBON 22K	
< COIL >				RV401	1-238-598-11	RES, ADJ, CARBON 2.2K	
L331	1-410-780-11	INDUCTOR 27mH		RV411	1-238-598-11	RES, ADJ, CARBON 2.2K	
L431	1-410-780-11	INDUCTOR 27mH		< RELAY >			
< MOTOR >				RY601	1-515-913-11	RELAY	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)		< TRANSFORMER >			
< TRANSISTOR >				T341	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR	
Q621	8-729-194-57	TRANSISTOR 2SC945-P		T441	1-433-381-11	TRANSFORMER, BIAS OSCILLATOR	
Q622	8-729-194-57	TRANSISTOR 2SC945-P		T621	1-429-222-11	TRANSFORMER, BIAS OSCILLATION	
Q623	8-729-119-76	TRANSISTOR 2SA1175-HFE		< TEST PIN >			
Q651	8-729-900-65	TRANSISTOR DTA144ES		* TP341	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
< RESISTOR >				*****			
R301	1-247-881-00	CARBON 120K 5% 1/4W		* A-2007-483-A MD BOARD, COMPLETE (WR350Z/WR661)			
R302	1-247-807-31	CARBON 100 5% 1/4W		*****			
R304	1-247-882-11	CARBON 130K 5% 1/4W		(including MOTOR board)			
R305	1-247-850-11	CARBON 6.2K 5% 1/4W		MOTOR BOARD			
R311	1-247-881-00	CARBON 120K 5% 1/4W		< CAPACITOR >			
R312	1-247-807-31	CARBON 100 5% 1/4W		C301	1-162-289-31	CERAMIC 390PF 10% 50V	
R314	1-247-882-11	CARBON 130K 5% 1/4W		C302	1-126-968-11	ELECT 100uF 20% 6.3V	
R315	1-247-850-11	CARBON 6.2K 5% 1/4W		C303	1-162-282-31	CERAMIC 100PF 10% 50V	
R331	1-249-430-11	CARBON 12K 5% 1/4W		C304	1-130-483-00	MYLAR 0.01uF 5% 50V	
R341	1-249-429-11	CARBON 10K 5% 1/4W		C305	1-107-715-11	ELECT 22uF 20% 16V	
R342	1-249-435-11	CARBON 33K 5% 1/4W		C311	1-162-289-31	CERAMIC 390PF 10% 50V	
R343	1-247-883-00	CARBON 150K 5% 1/4W		C313	1-162-282-31	CERAMIC 100PF 10% 50V	
△R344	1-212-857-00	FUSIBLE 10 5% 1/4W F		C314	1-130-487-00	MYLAR 0.022uF 5% 50V	
R401	1-247-881-00	CARBON 120K 5% 1/4W		C315	1-126-233-11	ELECT 22uF 20% 50V	
R402	1-247-807-31	CARBON 100 5% 1/4W		C331	1-136-434-11	FILM 120PF 5% 630V	
R404	1-247-882-11	CARBON 130K 5% 1/4W		C332	1-162-288-31	CERAMIC 330PF 10% 50V	
R405	1-247-850-11	CARBON 6.2K 5% 1/4W					
R411	1-247-881-00	CARBON 120K 5% 1/4W					
R412	1-247-807-31	CARBON 100 5% 1/4W					
R414	1-247-882-11	CARBON 130K 5% 1/4W					
R415	1-247-850-11	CARBON 6.2K 5% 1/4W					
R431	1-249-430-11	CARBON 12K 5% 1/4W					
R441	1-249-429-11	CARBON 10K 5% 1/4W					
R442	1-249-435-11	CARBON 33K 5% 1/4W					
R443	1-247-883-00	CARBON 150K 5% 1/4W					
△R444	1-212-857-00	FUSIBLE 10 5% 1/4W F					
R601	1-249-409-11	CARBON 220 5% 1/4W F					
R602	1-249-409-11	CARBON 220 5% 1/4W F					
R611	1-249-409-11	CARBON 220 5% 1/4W F					
R612	1-249-409-11	CARBON 220 5% 1/4W F					

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C333	1-162-217-31	CERAMIC	56PF 5% 50V	< RESISTOR >			
C334	1-162-217-31	CERAMIC	56PF 5% 50V	R301	1-247-881-00	CARBON 120K 5% 1/4W	
C401	1-162-289-31	CERAMIC	390PF 10% 50V	R302	1-249-409-11	CARBON 220 5% 1/4W	F
C402	1-126-968-11	ELECT	100uF 20% 6.3V	R303	1-249-433-11	CARBON 22K 5% 1/4W	
C403	1-162-282-31	CERAMIC	100PF 10% 50V	R304	1-247-889-00	CARBON 270K 5% 1/4W	
C404	1-130-483-00	MYLAR	0.01uF 5% 50V	R305	1-247-858-11	CARBON 13K 5% 1/4W	
C411	1-162-289-31	CERAMIC	390PF 10% 50V	R311	1-247-881-00	CARBON 120K 5% 1/4W	
C413	1-162-282-31	CERAMIC	100PF 10% 50V	R312	1-247-807-31	CARBON 100 5% 1/4W	
C414	1-130-487-00	MYLAR	0.022uF 5% 50V	R314	1-247-882-11	CARBON 130K 5% 1/4W	
C415	1-126-233-11	ELECT	22uF 20% 50V	R315	1-247-850-11	CARBON 6.2K 5% 1/4W	
C431	1-136-434-11	FILM	120PF 5% 630V	R331	1-249-430-11	CARBON 12K 5% 1/4W	
C432	1-162-288-31	CERAMIC	330PF 10% 50V	R401	1-247-881-00	CARBON 120K 5% 1/4W	
C433	1-162-217-31	CERAMIC	56PF 5% 50V	R402	1-249-409-11	CARBON 220 5% 1/4W	F
C434	1-162-217-31	CERAMIC	56PF 5% 50V	R403	1-249-433-11	CARBON 22K 5% 1/4W	
C601	1-126-157-11	ELECT	10uF 20% 16V	R404	1-247-889-00	CARBON 270K 5% 1/4W	
C602	1-126-157-11	ELECT	10uF 20% 16V	R405	1-247-858-11	CARBON 13K 5% 1/4W	
C611	1-124-907-11	ELECT	10uF 20% 50V	R411	1-247-881-00	CARBON 120K 5% 1/4W	
C612	1-124-907-11	ELECT	10uF 20% 50V	R412	1-247-807-31	CARBON 100 5% 1/4W	
C621	1-137-150-11	FILM	0.01uF 5% 100V	R414	1-247-882-11	CARBON 130K 5% 1/4W	
C622	1-126-961-11	ELECT	2.2uF 20% 50V	R415	1-247-850-11	CARBON 6.2K 5% 1/4W	
C623	1-136-155-00	FILM	0.015uF 5% 50V	R431	1-249-430-11	CARBON 12K 5% 1/4W	
C624	1-130-481-00	MYLAR	0.0068uF 5% 50V	R601	1-249-409-11	CARBON 220 5% 1/4W	F
C625	1-130-481-00	MYLAR	0.0068uF 5% 50V	R602	1-249-409-11	CARBON 220 5% 1/4W	F
C627	1-124-903-11	ELECT	1uF 20% 50V	R608	1-249-409-11	CARBON 220 5% 1/4W	F
C628	1-136-153-00	FILM	0.01uF 5% 50V	R609	1-249-433-11	CARBON 22K 5% 1/4W	
C642	1-104-664-11	ELECT	47uF 20% 16V	R611	1-249-409-11	CARBON 220 5% 1/4W	F
C651	1-161-494-00	CERAMIC	0.022uF 25V	R612	1-249-409-11	CARBON 220 5% 1/4W	F
< CONNECTOR >				△R621	1-212-851-00	FUSIBLE 5.6 5% 1/4W	F
* CN601	1-568-864-11	SOCKET, CONNECTOR 21P		△R622	1-212-851-00	FUSIBLE 5.6 5% 1/4W	F
* CN651	1-564-521-11	PLUG, CONNECTOR 6P		R623	1-249-432-11	CARBON 18K 5% 1/4W	
< IC >				R624	1-249-432-11	CARBON 18K 5% 1/4W	
IC601	8-759-710-59	IC NJM4580D-D		R625	1-249-429-11	CARBON 10K 5% 1/4W	
IC602	8-759-143-54	IC uPC1330HA		R651	1-247-856-00	CARBON 11K 5% 1/4W	
IC611	8-759-710-59	IC NJM4580D-D		R652	1-247-856-00	CARBON 11K 5% 1/4W	
< COIL >				R653	1-249-441-11	CARBON 100K 5% 1/4W	
L331	1-410-780-11	INDUCTOR 27mH		< VARIABLE RESISTOR >			
L431	1-410-780-11	INDUCTOR 27mH		RV301	1-238-598-11	RES, ADJ, CARBON 2.2K	
< MOTOR >				RV311	1-238-598-11	RES, ADJ, CARBON 2.2K	
M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)		RV341	1-238-551-11	RES, ADJ, CARBON 220K	
< TRANSISTOR >				RV401	1-238-598-11	RES, ADJ, CARBON 2.2K	
Q621	8-729-142-46	TRANSISTOR 2SC2001-LK		RV411	1-238-598-11	RES, ADJ, CARBON 2.2K	
Q622	8-729-142-46	TRANSISTOR 2SC2001-LK		RV441	1-238-551-11	RES, ADJ, CARBON 220K	
Q623	8-729-801-93	TRANSISTOR 2SD1387		RV651	1-238-599-11	RES, ADJ, CARBON 4.7K	
Q651	8-729-900-65	TRANSISTOR DTA144ES		RV652	1-238-599-11	RES, ADJ, CARBON 4.7K	
< TRANSFORMER >				< TRANSFORMER >			
				T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION	

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *****				***** HARDWARE LIST *****	
△7	1-558-945-21	CORD, POWER (POLAR. SPT-1) (WE405:US, CND, E/WR350Z/WR661:US, CND)		#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
△7	1-575-651-21	CORD, POWER (WE405:AEP, CH, MY, SP, G/WR661:AEP, G, IT)		#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
△7	1-696-027-11	CORD, POWER (WE405:E/WR661:E)		#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
△7	1-696-845-11	CORD, POWER (WE405:AUS)		#4	7-685-134-19	SCREW (+ PTPWH) (2. 6X8) (WE405/WR350Z)	
△7	1-751-523-11	CORD, POWER (WE405:UK)		#5	7-621-770-67	SCREW +BVTT 2. 6X6 (S)	
△7	1-769-639-11	CORD, POWER (WR661:UK)		#6	7-685-131-19	SCREW +BTP 2. 6X4 TYPE2 N-S	
△8	1-569-007-11	ADAPTER, CONVERSION 2P (WE405:E/WR661:E)		#7	7-685-534-19	SCREW +BTP 2. 6X8 TYPE2 N-S	
67	1-773-332-11	WIRE (FLAT TYPE) (31 CORE)		#8	7-621-775-10	SCREW +B 2. 6X4	
68	1-769-950-11	WIRE (FLAT TYPE) (11 CORE)		#9	7-621-775-00	SCREW +B 2. 6X3	
69	1-773-153-11	WIRE (FLAT TYPE) (21 CORE)		#10	7-623-921-01	RING, RETAINING, CAPSTAN	
FLT901	1-517-491-11	INDICATOR TUBE, FLUORESCENT		#11	7-685-533-19	SCREW +BTP 2. 6X6 TYPE2 N-S	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)					
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)					
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)					
M2	A-2004-410-A	MOTOR ASSY, DC (TRRIGER)					
△T901	429-387-11	TRANSFORMER, POWER (WE405:US, CND/WR350Z/WR661:US, CND)					
△T901	429-388-11	TRANSFORMER, POWER (WE405:AEP, CH, MY, SP, UK, G, AUS/WR661:AEP, UK, G, IT)					
△T901	429-389-11	TRANSFORMER, POWER (WE405:E/WR661:E)					
△VS901	692-155-11	SELECTOR, POWER VOLTAGE (WE405:E/WR661:E)					

		ACCESSORIES & PACKING MATERIALS *****					
	1-551-734-11	CORD, CONNECTION (158cm AUDIO)					
	3-810-312-11	MANUAL, INSTRUCTION (ENGLISH) (WE405:US, CND, UK, AUS/WR350Z/WR661:US, CND)					
	3-810-312-21	MANUAL, INSTRUCTION (FRENCH) (CND)					
	3-810-312-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (WE405:AEP, CH, MY, SP, E)					
	3-810-312-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (WE405:AEP, CH, MY, SP)					
	3-810-312-51	MANUAL, INSTRUCTION (GERMAN) (WE405:G)					
	3-810-312-61	MANUAL, INSTRUCTION (CHINESE) (WE405:E)					
	3-810-312-71	MANUAL, INSTRUCTION (ARABIC) (WR661:E)					
*	3-932-083-01	CUSHION					
*	3-932-085-01	INDIVIDUAL CARTON (WE405/WR350Z:CND)					
*	3-932-086-01	INDIVIDUAL CARTON (WR661:AEP, UK, G, IT)					
*	3-932-087-01	INDIVIDUAL CARTON (WR350Z:US)					
*	3-934-928-01	INDIVIDUAL CARTON (WR661:US, CND)					

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TC-WE405/WR350Z/WR661

SONY[®] SERVICE MANUAL

US Model
Canadian Model
TC-WE405/WR350Z/WR661

AEP Model

UK Model

E Model

Australian Model
TC-WE405/WR661

Chinese Model
TC-WE405

SUPPLEMENT-1

File this supplement with the service manual.

Subject : 1. CORRECTION
2. MODEL ADDITION (TC-WR661 : Singapore, Australian model)
3. PARTS CHANGE

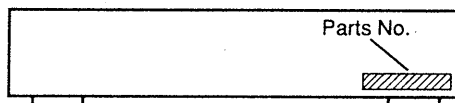
(ECN-TC600191)

- The suffix of MAIN board has changed from suffix-**11** to **12**. The large change cannot be find with this change, so it is not notified.

The common changes of suffix-**11** and **12** are notified in this supplement.

MODEL IDENTIFICATION

— BACK PANEL —



TC-WE405

MODEL	PARTS No.
US	3-931-433-0□
CND	3-931-433-1□
AEP, G, MY, SP, CH	3-931-433-2□
UK	3-931-433-3□
E	3-931-433-4□
AUS	3-931-433-5□

TC-WR350Z

MODEL	PARTS No.
US	3-934-887-0□
CND	3-934-887-1□

TC-WR661

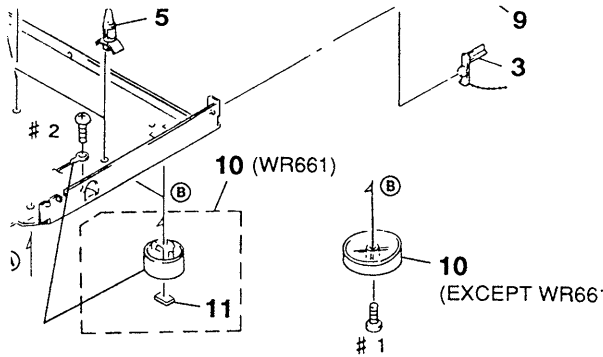
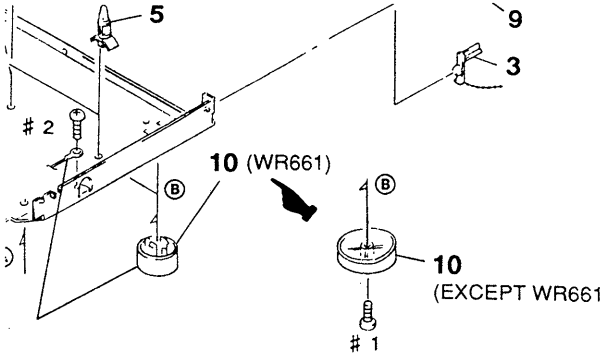
MODEL	PARTS No.
US	3-931-436-0□
CND	3-931-436-1□
AEP, G, IT	3-931-436-2□
UK	3-931-436-3□
E	3-931-436-4□
AUS	3-931-436-5□
SP	3-931-436-6□

- Abbreviation
CND : Canadian model.
G : German model.
IT : Italian model.
SP : Singapore model.
MY : Malaysia model.
AUS : Australian model.
CH : Chinese model.

1. CORRECTION

- Correct your Service Manual as shown below.

✖ : Indicates corrected portion

Page	INCORRECT				CORRECT			
6	Torque Measurement				Torque Measurement			
	Torque	Torque meter	Meter reading		Torque	Torque meter	Meter reading	
	FWD tension	CQ-403Q	100g • cm or more (1.39 oz • inch or more)		FWD tension	CQ-403Q	100g or more (3.53 oz or more)	
	REV tension	CQ-403R	100g • cm or more (1.39 oz • inch or more)		REV tension	CQ-403R	100g or more (3.53 oz or more)	
29	Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark
	*** EXPLODED VIEWS ***				*** EXPLODED VIEWS ***			
	11	4-977-358-01	CUSHION (8X12.5) (WE405/WR350Z)				not supplied	
								
	△T901	429-387-11	TRANSFORMER, POWER (WE405:US, CND/WR350Z/WR661:US, CND)		△T901	1-429-387-11	TRANSFORMER, POWER (WE405:US, CND/WR350Z/WR661:US, CND)	
	△T901	429-388-11	TRANSFORMER, POWER (WE405:AEP, CH, MY, SP, UK, G, AUS/WR661:AEP, SP, UK, G, IT)		△T901	1-429-388-11	TRANSFORMER, POWER (WE405:AEP, CH, MY, SP, UK, G, AUS/WR661:AEP, SP, UK, G, IT)	
	△T901	429-389-11	TRANSFORMER, POWER (WE405:E/WR661:E)		△T901	1-429-389-11	TRANSFORMER, POWER (WE405:E/WR661:E)	
	△VS901	692-155-11	SELECTOR, POWER VOLTAGE (WE405:E/WR661:E)		△VS901	1-692-155-11	SELECTOR, POWER VOLTAGE (WE405:E/WR661:E)	

NOTE:

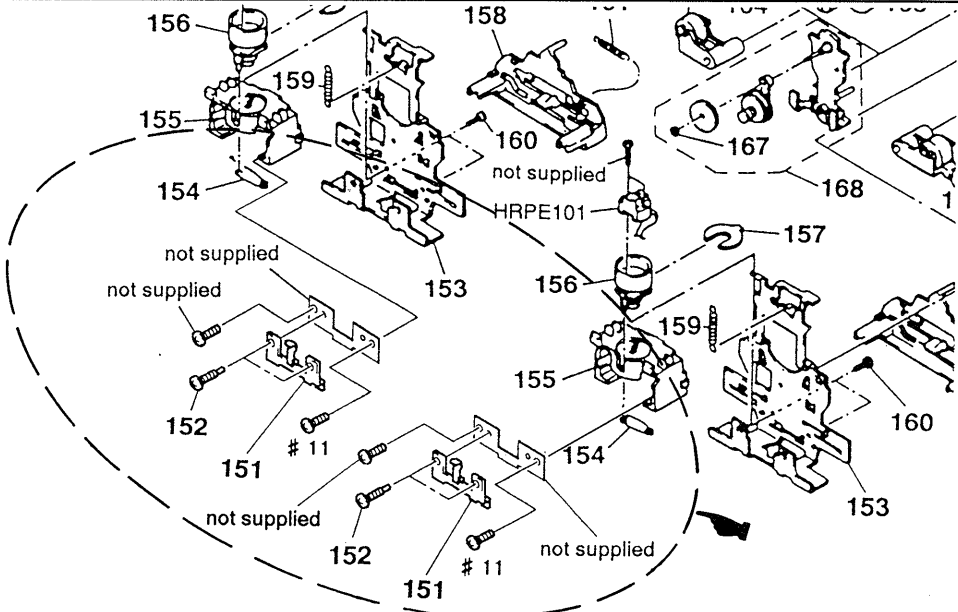
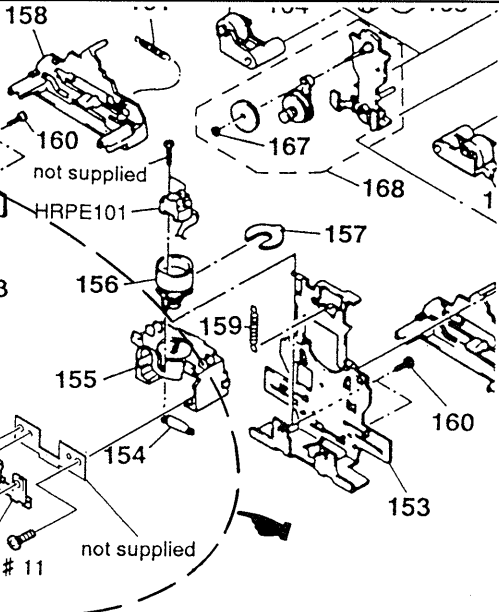
- Abbreviation
- CND : Canadian model
- G : German model
- IT : Italian model
- SP : Singapore model
- MY : Malaysia model
- AUS : Australian model
- CH : Chinese model

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.

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.

Page	INCORRECT				CORRECT			
32								
41	<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>
			*** MISCELLANEOUS ***				*** MISCELLANEOUS ***	
	Δ T901	429-387-11	TRANSFORMER, POWER (WE405:US, CND/WR350Z/WR661:US, CND)		Δ T901	1-429-387-11	TRANSFORMER, POWER (WE405:US, CND/WR350Z/WR661:US, CND)	
	Δ T901	429-388-11	TRANSFORMER, POWER (WE405:AEP, CH, MY, SP, UK, G, AUS/WR661:AEP, SP, UK, G, IT)		Δ T901	1-429-388-11	TRANSFORMER, POWER (WE405:AEP, CH, MY, SP, UK, G, AUS/WR661:AEP, SP, UK, G, IT)	
	Δ T901	429-389-11	TRANSFORMER, POWER (WE405:E/WR661:E)		Δ T901	1-429-389-11	TRANSFORMER, POWER (WE405:E/WR661:E)	
	Δ VS901	692-155-11	SELECTOR, POWER VOLTAGE (WE405:E/WR661:E)		Δ VS901	1-692-155-11	SELECTOR, POWER VOLTAGE (WE405:E/WR661:E)	

ACCESSORIES & PACKING MATERIALS (Revised including corrections and addition of models.)

Page	CURRENT				REVISED			
41	<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>
		1-551-734-11	CORD, CONNECTION (158cm AUDIO)			1-551-734-11	CORD, CONNECTION (158cm AUDIO)	
		3-810-312-11	MANUAL, INSTRUCTION (ENGLISH) (WE405:US, CND, UK, AUS/WR350Z/WR661:US, CND)			3-810-312-11	MANUAL, INSTRUCTION (ENGLISH) (WE405:US, CND, UK, AUS/WR350Z/WR661:US, CND, UK, AUS)	
		3-810-312-21	MANUAL, INSTRUCTION (FRENCH) (CND)			3-810-312-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
		3-810-312-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (WE405:AEP, CH, MY, SP, E)			3-810-312-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (WE405:AEP, E/WR661:AEP, SP, E)	
		3-810-312-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (WE405:AEP, CH, MY, SP)			3-810-312-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (WE405:AEP/WR661:AEP)	
		3-810-312-51	MANUAL, INSTRUCTION (GERMAN) (WE405:G)			3-810-312-51	MANUAL, INSTRUCTION (GERMAN) (WE405:G/WR661:G)	
		3-810-312-61	MANUAL, INSTRUCTION (CHINESE) (WE405:E)			3-810-312-61	MANUAL, INSTRUCTION (CHINESE) (WE405:AEP, E, CH/WR661:SP, E)	
		3-810-312-71	MANUAL, INSTRUCTION (ARABIC) (WR661:E)			3-810-312-71	MANUAL, INSTRUCTION (ARABIC) (WR661:E)	
	*	3-932-083-01	CUSHION		*	3-932-083-01	CUSHION	
	*	3-932-085-01	INDIVIDUAL CARTON (WE405/WR350Z:CND)		*	3-932-085-01	INDIVIDUAL CARTON (WR350Z:CND)	
	*	3-932-086-01	INDIVIDUAL CARTON (WR661:AEP, UK, G, IT)		*	3-932-086-01	INDIVIDUAL CARTON (WR661:AEP, UK, G, IT)	
	*	3-932-087-01	INDIVIDUAL CARTON (WR350Z:US)		*	3-932-087-01	INDIVIDUAL CARTON (WR350Z:US)	
	*	3-934-928-01	INDIVIDUAL CARTON (WR661:US, CND)		*	3-934-927-01	INDIVIDUAL CARTON (WE405)	
					*	3-934-928-01	INDIVIDUAL CARTON (WR661:US)	
					*	3-936-956-01	INDIVIDUAL CARTON (WR661:CND, SP, E, AUS)	

2. MODEL ADDITION (TC-WR661: Singapore, Australian model)

- For detailed SP, AUS model, refer to E model.

Difference table

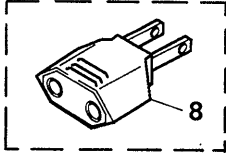
Page	TC-WR661: E model				TC-WR661: SP, AUS model			
	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
29	*** EXPLODED VIEWS ***				*** EXPLODED VIEWS ***			
	* 4	A-2007-487-A	MAIN BOARD, COMPLETE (WR661:E)		* 4	A-2007-487-A	MAIN BOARD, COMPLETE (WR661:SP, E)	
	* 6	3-703-571-11	BUSHING (S) (4516), CORD (WR661:E)		* 4	A-2007-590-A	MAIN BOARD, COMPLETE (WR661:AUS)	
	△7	1-696-027-11	CORD, POWER (WR661:E)		* 6	3-703-244-00	BUSHING (2104), CORD (WR661:SP, AUS)	
	△8	1-569-007-11	ADAPTER, CONVERSION 2P (WR661:E)		△7	1-575-651-21	CORD, POWER (WR661:SP, AUS)	
	* 9	3-931-436-42	PANEL, BACK (WR661:E)		* 9	3-931-436-51	PANEL, BACK (WR661:AUS)	
					* 9	3-931-436-61	PANEL, BACK (WR661:SP)	
	△T901	1-429-389-11	TRANSFORMER, POWER (WR661:E)		△T901	1-429-388-11	TRANSFORMER, POWER (WR661:AUS)	
	△VS901	1-692-155-11	SELECTOR, POWER VOLTAGE (WR661:E)		△T901	1-429-389-11	TRANSFORMER, POWER (WR661:SP, E)	
					△VS901	1-692-155-11	SELECTOR, POWER VOLTAGE (WR661:SP, E)	
34	*** ELECTRICAL PARTS LIST ***				*** ELECTRICAL PARTS LIST ***			
	*	A-2007-487-A	MAIN BOARD, COMPLETE (WR661:E)		*	A-2007-487-A	MAIN BOARD, COMPLETE (WR661:SP, E)	
					*	A-2007-590-A	MAIN BOARD, COMPLETE (AUS)	
35	CN703	1-568-106-11	PIN, CONNECTOR 4P (WR661:E)		CN703	1-568-106-11	PIN, CONNECTOR 4P (WR661:SP, E)	
38	△T901	1-429-389-11	TRANSFORMER, POWER (WR661:E)		△T901	1-429-388-11	TRANSFORMER, POWER (WR661:AUS)	
					△T901	1-429-389-11	TRANSFORMER, POWER (WR661:SP, E)	
41	*** MISCELLANEOUS ***				*** MISCELLANEOUS ***			
	△7	1-696-027-11	CORD, POWER (WR661:E)		△7	1-575-651-21	CORD, POWER (WR661:SP, AUS)	
	△8	1-569-007-11	ADAPTER, CONVERSION 2P (WR661:E)		△T901	1-429-388-11	TRANSFORMER, POWER (WR661:AUS)	
	△T901	1-429-389-11	TRANSFORMER, POWER (WR661:E)		△T901	1-429-389-11	TRANSFORMER, POWER (WR661:SP, E)	
	△VS901	1-692-155-11	SELECTOR, POWER VOLTAGE (WR661:E)		△VS901	1-692-155-11	SELECTOR, POWER VOLTAGE (WR661:SP, E)	
Note: Refer to CORRECTION on page 3 about the ACCESSORIES & PACKING MATERIALS.								

NOTE:

- Abbreviation
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.

3. PARTS CHANGE

Page	FORMER				NEW			
	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
29	*** EXPLODED VIEWS ***				△8	1-569-008-21	ADAPTER, CONVERSION 2P (WE405:CH)	
								(WE405: CH)
30	59	4-977-358-01	CUSHION (8X12.5)		59	4-977-358-11	CUSHION (8X12.5)	
	68	1-769-950-11	WIRE (FLAT TYPE)(11 CORE)		68	1-765-325-11	WIRE (FLAT TYPE)(11 CORE)	
35	*** MAIN BOARD, COMPLETE ***				*** MAIN BOARD, COMPLETE ***			
	C813	1-137-446-11	FILM 0.18uF 5% 50V		C813	1-136-168-00	FILM 0.18uF 5% 50V	
	CNF803	1-568-838-11	SOCKET, CONNECTOR 21P		CNF803	1-695-344-11	SOCKET, CONNECTOR 21P	
	* CNF804	1-568-830-11	SOCKET, CONNECTOR 11P		* CNF804	1-695-334-11	SOCKET, CONNECTOR 11P	
	* CNF805	1-568-830-11	SOCKET, CONNECTOR 11P		* CNF805	1-695-334-11	SOCKET, CONNECTOR 11P	
	* CNF806	1-568-830-11	SOCKET, CONNECTOR 11P		* CNF806	1-695-334-11	SOCKET, CONNECTOR 11P	
36	R510	1-247-807-31	CARBON 10 5% 1/4W		R510		JUMPER WIRE	
37	R714	1-249-428-11	CARBON 8.2K 5% 1/4W F		R714	1-249-429-11	CARBON 10K 5% 1/4W F	
	△R723	1-217-371-00	FUSIBLE 0.47 10% 1/4W		△R723	1-219-138-91	FUSIBLE 0.47 10% 1/4W	
	R836	1-249-426-11	CARBON 5.6K 5% 1/4W (WE405)		R836	1-249-427-11	CARBON 6.8K 5% 1/4W F(WE405)	
41	*** MISCELLANEOUS ***				*** MISCELLANEOUS ***			
	68	1-769-950-11	WIRE (FLAT TYPE)(11 CORE)		△8	1-569-008-21	ADAPTER, CONVERSION 2P (WE405:CH)	
					68	1-765-325-11	WIRE (FLAT TYPE)(11 CORE)	

NOTE:

- Abbreviation
 SP : Singapore model
 MY : Malaysia model
 CH : Chinese 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.

TC-WE405/WR350Z/WR661

SONY®

SERVICE MANUAL

US Model
Canadian Model

TC-WE405/WR350Z/WR661

AEP Model

UK Model

E Model

TC-WE405/WR661

Australian Model

Chinese Model

TC-WE405

CORRECTION-1

Correct your service manual as shown below.

Page	INCORRECT				CORRECT			
	<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>
31	101	X-4945-690-1	HOLDER (L) ASSY, CASSETTE		101	X-4945-691-1	HOLDER (R) ASSY, CASSETTE	
	102	X-4945-691-1	HOLDER (R) ASSY, CASSETTE		102	X-4945-690-1	HOLDER (L) ASSY, CASSETTE	

(RPC-99002)