

# SA-WMSP75/WMSP85

## SERVICE MANUAL

Ver 1.4 2004.01



*US Model*  
*Canadian Model*  
SA-WMSP75/WMSP85

*AEP Model*  
*UK Model*  
*E Model*  
*Australian Model*  
SA-WMSP85

- SA-WMSP75/WMSP85 are the sub woofer section HT-DDW750, HT-1800DP, HT-6600DP and HT-1750DP.

photo: SA-WMSP75

### SPECIFICATION

#### POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, from 28 – 200 Hz; rated 75 watts (SA-WMSP75) / 100 watts (SA-WMSP85), minimum RMS power, with no more than 0.8% total harmonic distortion from 250 milliwatts to rated output (Models of area code U only).

<b>Speaker system</b>	Active subwoofer, magnetically shielded
<b>Speaker unit</b>	Woofer: 20 cm cone type
<b>Enclosure type</b>	Acoustically loaded bass reflex
<b>Continuous RMS power output (6 ohms, 20 – 250 Hz)</b>	
SA-WMSP75	75 W
SA-WMSP85	100 W

**Reproduction frequency range**  
28Hz – 200 Hz

**High frequency cut-off frequency**  
150 Hz

**Input** LINE IN (input pin jacks)

#### Power requirements

Area code	Power requirements
U, CA, MX	120 V AC, 60 Hz
CEL, CEK, SP, AU	230 V AC, 50/60 Hz
E2	120/220/230 V AC, 50/60 Hz

#### Power consumption

SA-WMSP75	75 W
SA-WMSP85	100 W

**Dimensions (w/h/d)** Approx. 270 × 325 × 398 mm (10 3/4 × 12 7/8 × 15 3/4 inches) including front panel

**Mass**  
SA-WMSP85 10.0 kg (22 lb 1 oz)  
SA-WMSP75 9.0 kg (19 lb 14 oz)

- Abbreviation  
AU : Australian model  
CA : Canadian model  
CEK : UK model  
CEL : AEP model  
MX : Mexican model  
SP : Singapore model  
U : US model

## ACTIVE SUBWOOFER

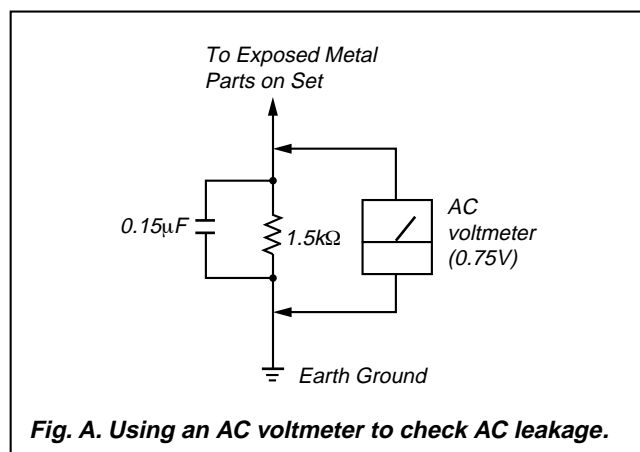
## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE

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

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



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

### Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



### : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350°C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

- Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.

- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

### 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.

SECTION 1  
DIAGRAMS

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

Note on Printed Wiring Boards:

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing.

Note on Schematic Diagram:

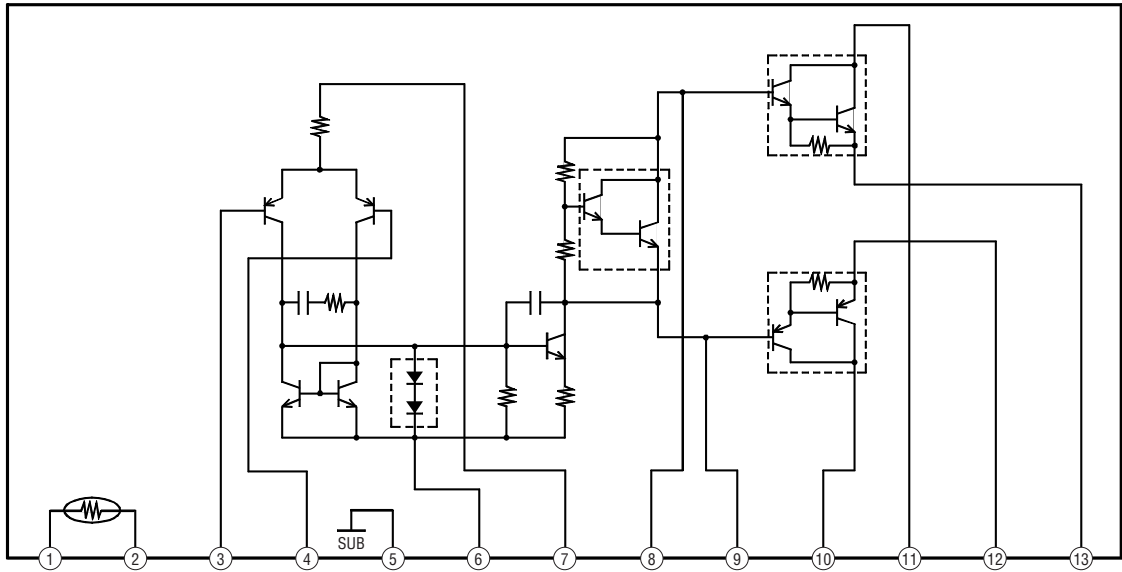
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. p: pF. 50 WV or less are not indicated except for electrolytics and tantalums.
- ⎓ : nonflammable resistor.
- ⎓ : fusible resistor.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- : panel designation.

The components identified by mark $\Delta$ or dotted line with mark $\Delta$ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque $\Delta$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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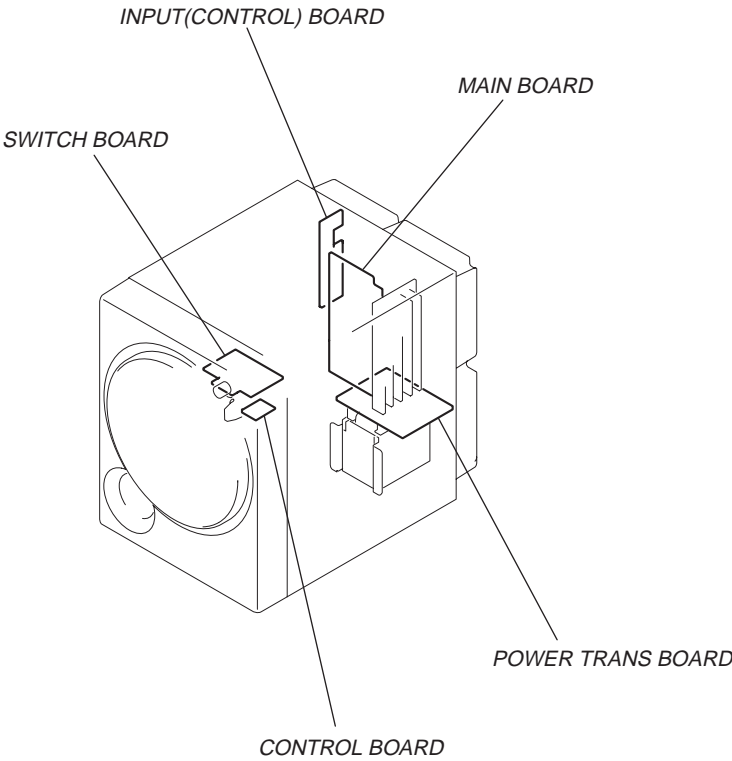
- : B+ Line.
- : B- Line.
- Voltages are dc with respect to ground under no-signal conditions.  
no mark : Power on
- Voltages are taken with a VOM (Input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- ⇒ : AUDIO
- Abbreviation  
CND : Canadian model.  
E2 : 120V AC Area in E model.  
MX : Mexican model.

1-2. IC Block Diagrams

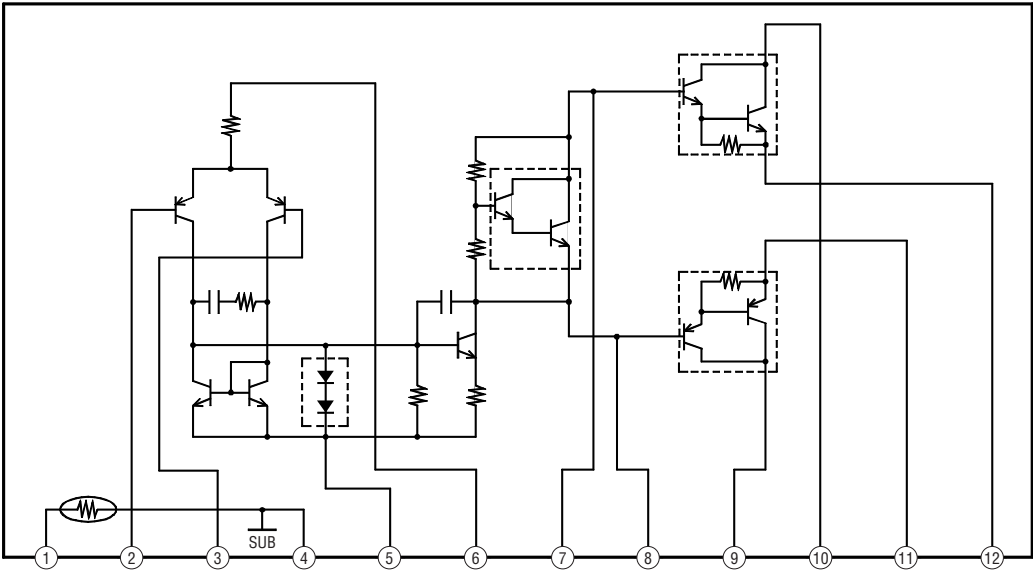
IC301 STK404-130S (MAIN Board)

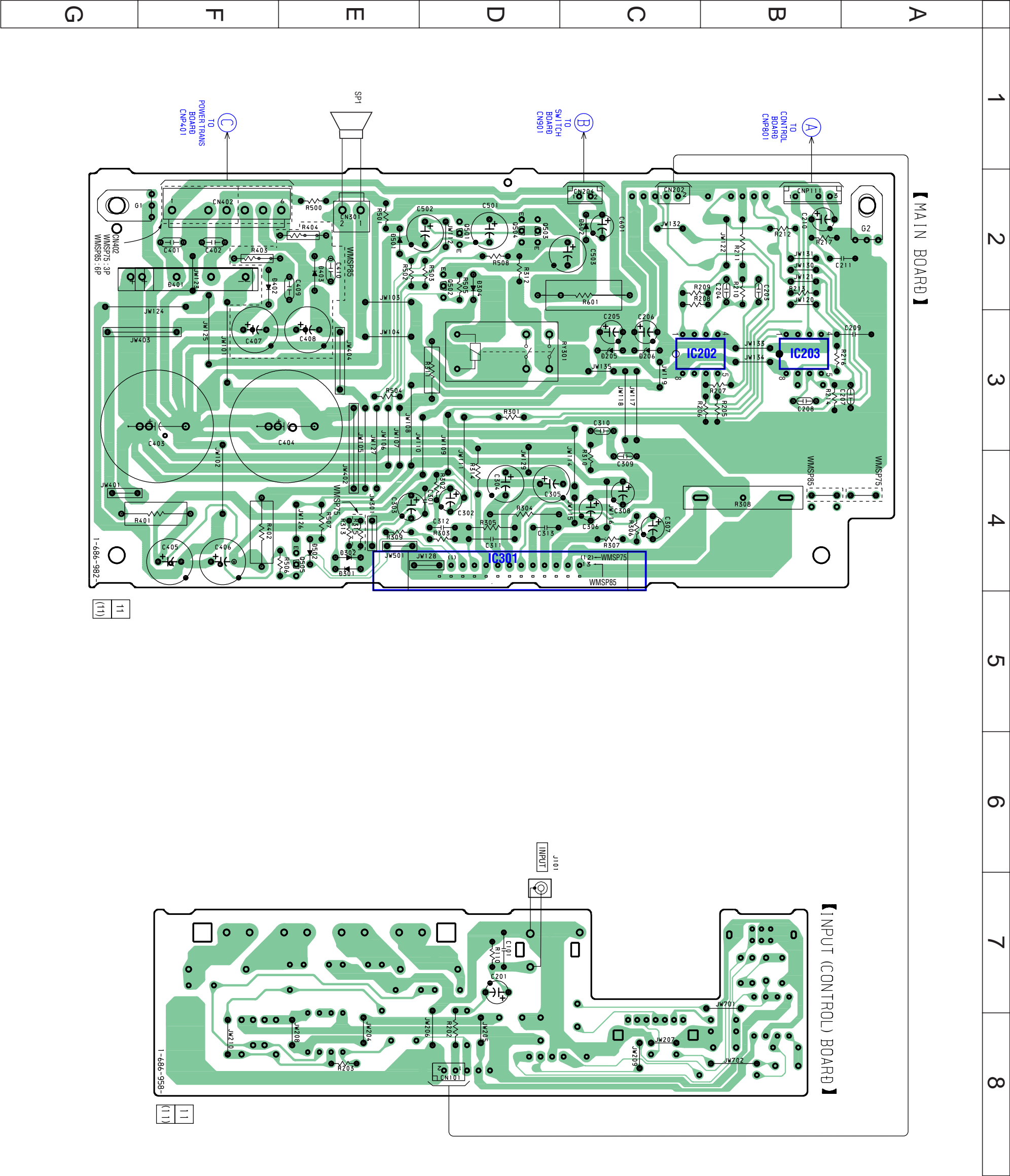


1-1. Circuit Board Location



IC301 STK-404-100S (MAIN Board)

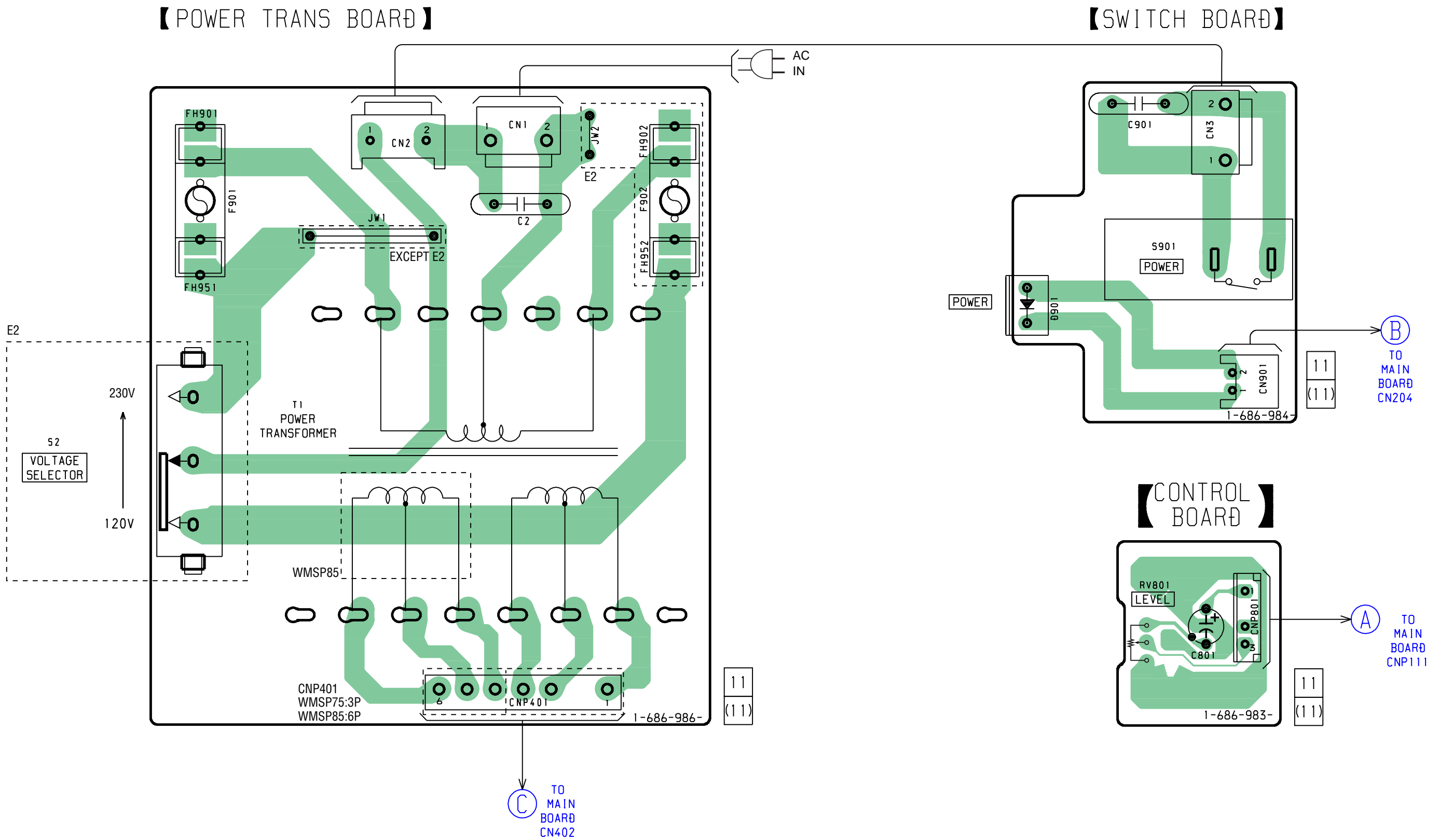




• Semiconductor Location

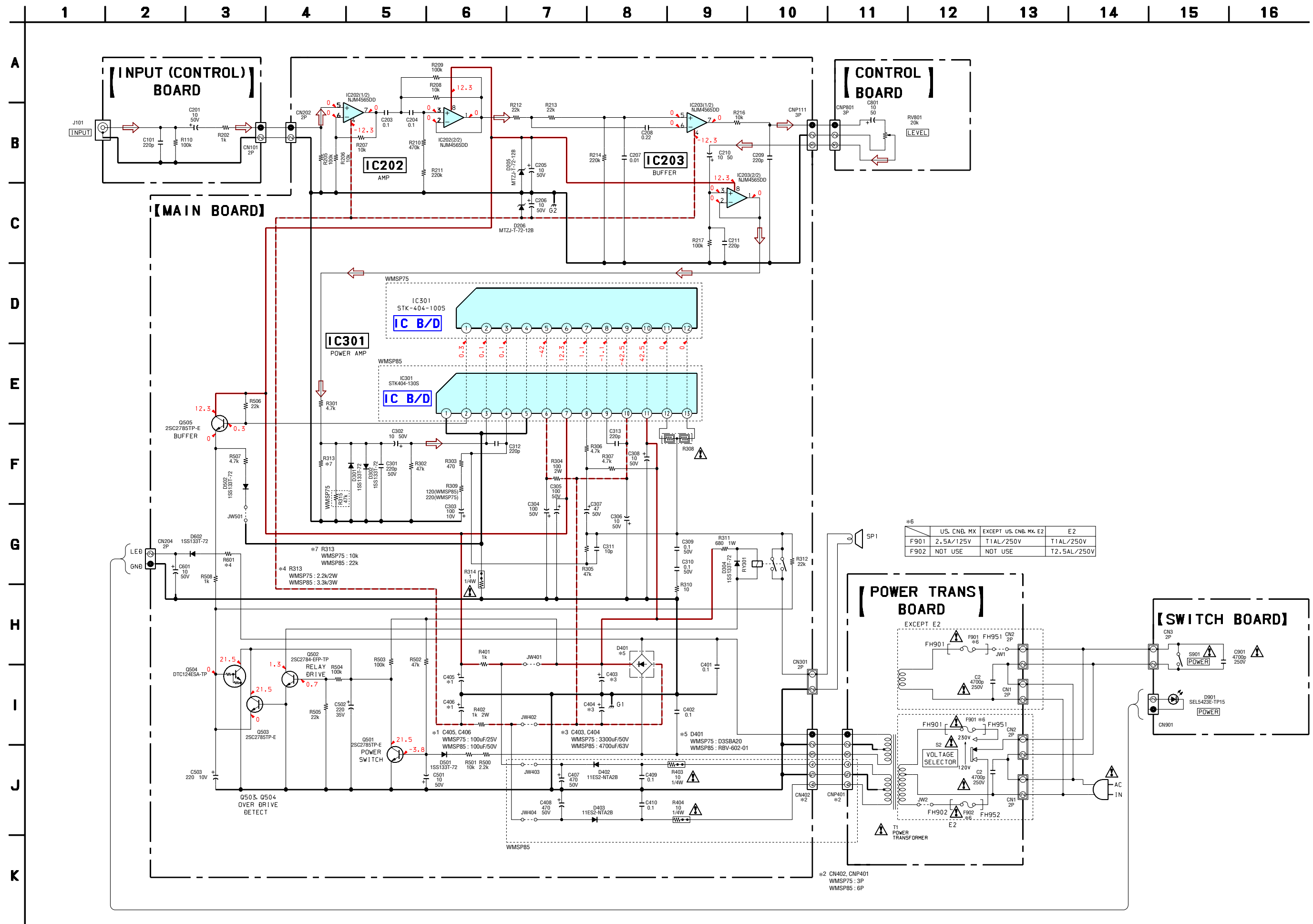
Ref. No.	Location
D205	C-3
D206	C-3
D301	E-4
D302	E-4
D304	D-2
D401	F-2
D402	F-2
D403	E-2
D501	E-2
D502	E-4
D602	C-2
IC202	B-3
IC203	B-3
IC301	D-4
Q501	D-2
Q502	D-2
Q503	D-2
Q504	D-2
Q505	E-4

1-4. Printed Wiring Board – POWER Section – • See page 3 for Circuit Boards Location. •  : Uses unleaded solder.



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**1-5. Schematic Diagrams** • See page 3 for IC Block Diagrams.



## SECTION 2 EXPLODED VIEWS

### NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

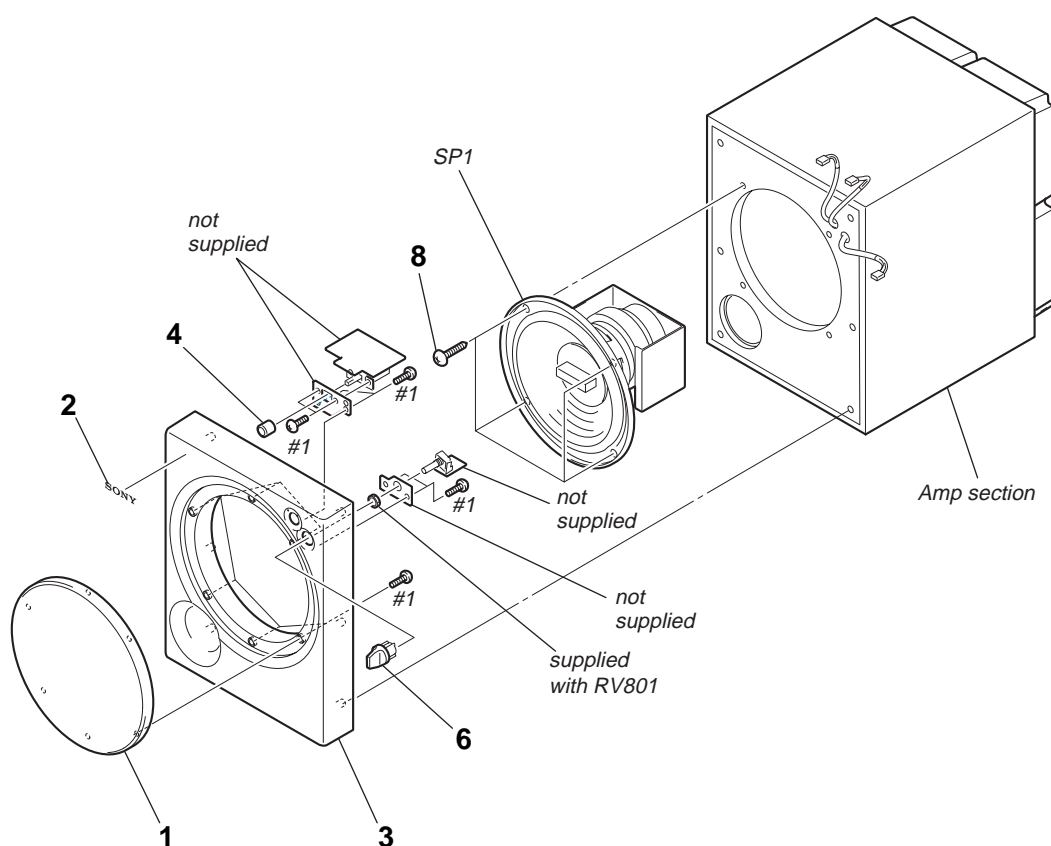
### Abbreviation

AUS	: Australian model
E2	: 120V AC Area in E model
CND	: Canadian model
MX	: Mexican model
SP	: Singapore model

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

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

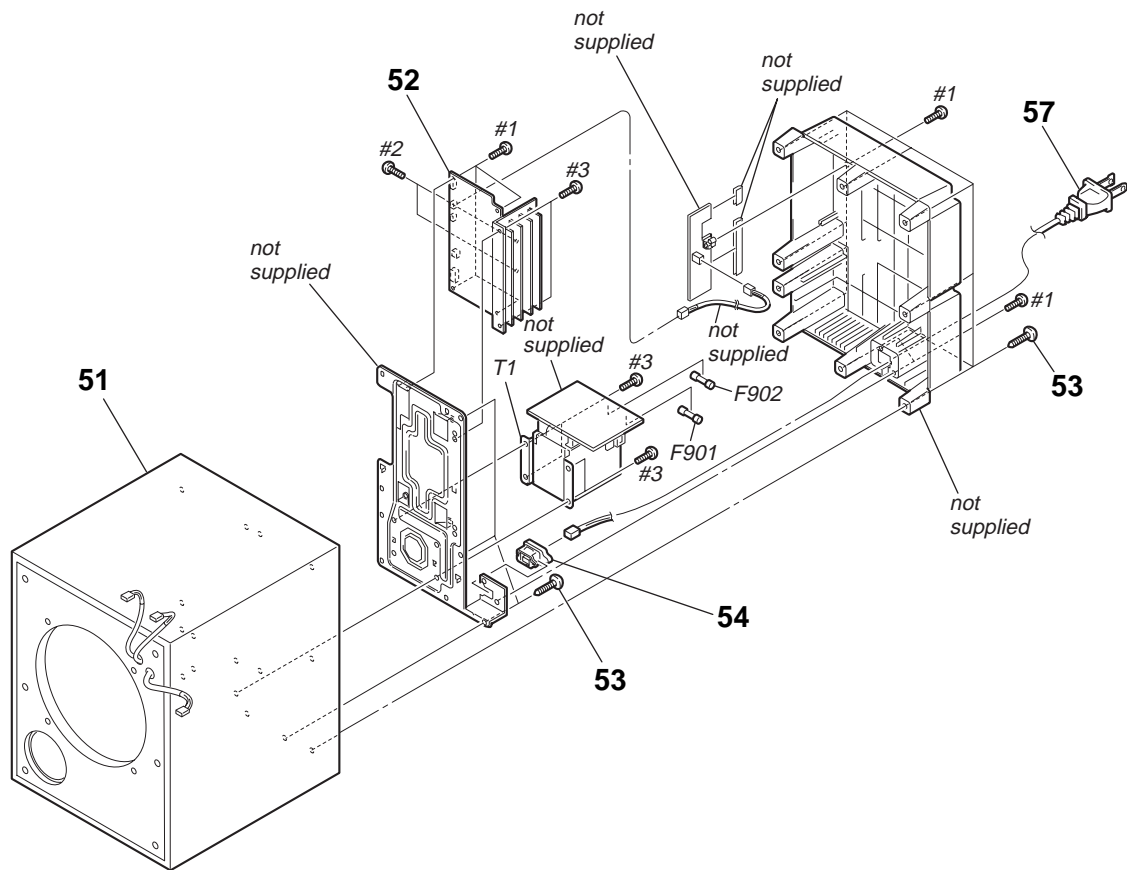
### 2-1. Front Section



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	4-243-842-01	NET, GRILLE (SILVER)		6	4-999-482-01	KNOB (VOL)(SILVER)	
1	4-243-842-11	NET, GRILLE (BLACK)		6	4-999-482-11	KNOB (VOL)(BLACK)	
2	4-998-417-02	EMBLEM (No.5), SONY		8	4-235-677-01	SCREW (4X20)(TYPE1), +BVTP	
3	4-243-834-01	PANEL, FRONT (SILVER)(US,CND)		SP1	1-529-995-12	SPEAKER (20cm)(WMSP75)	
3	4-243-834-11	PANEL, FRONT (BLACK)(WMSP75 : US)		SP1	1-825-004-13	SPEAKER (20cm)(WMSP85)	
3	4-243-834-21	PANEL, FRONT (SILVER)(EXCEPT US,CND)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
4	4-973-938-83	KNOB (A), PUSH					



2-2. Amp Section



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	A-4723-991-A	CABINET ASSY, SPEAKER (SILVER) (US,CND,E2,MX,AUS)		△ F901	1-533-450-11	FUSE, GLASS TUBE 2.5A/125V (US,CND,MX)	
				△ F901	1-532-463-51	FUSE T1A/250V (EXCEPT US,CND,MX)	
51	A-4725-995-A	CABINET ASSY, SPEAKER (BLACK) (WMSP75 : US)		△ F902	1-532-464-31	FUSE T2.5A/250V (E2)	
				△ T1	1-439-625-11	POWER TRANSFORMER (WMSP85 : US,CND,MX)	
51	A-4723-998-A	CABINET ASSY, SPEAKER (SILVER)(AEP,UK,SP)					
52	A-4731-189-A	MAIN BOARD,COMPLETE (WMSP75)		△ T1	1-439-628-11	POWER TRANSFORMER (WMSP75 : US,CND	
52	A-4731-195-A	MAIN BOARD,COMPLETE (WMSP85)					
				△ T1	1-439-623-11	POWER TRANSFORMER (E2)	
				△ T1	1-439-624-11	POWER TRANSFORMER (AEP,UK,SP,AUS)	
* 54	3-703-244-00	BUSHING (2104), CORD		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
△ 57	1-696-847-11	CORD, POWER (AUS)		#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
△ 57	1-769-744-11	CORD, POWER (AEP,UK,SP)		#3	7-685-881-09	SCREW +BVTT 4X8 (S)	
△ 57	1-783-532-11	CORD, POWER (US,CND,MX)					
△ 57	1-792-823-12	CORD, POWER (TRACKING)(E2)		<div>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</div> <div>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</div>			



# SECTION 3 ELECTRICAL PARTS LIST

## CONTROL

### INPUT(CONTROL)

### MAIN

#### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:  
uF:  $\mu$ F
- COILS  
uH:  $\mu$ H

- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...,  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...
- Abbreviation  
AUS : Australian model  
E2 : 120V AC Area in E model  
CND : Canadian model  
MX : Malaysia model  
SP : Singapore model

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

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

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

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		CONTROL BOARD *****		C208	1-131-696-11	FILM	0.22uF 5% 50V
		< CAPACITOR >		C209	1-128-813-11	CERAMIC	220PF 5% 50V
C801	1-126-964-11	ELECT	10uF 20.00% 50V	C210	1-126-964-11	ELECT	10uF 20.00% 50V
		< CONNECTOR >		C211	1-128-813-11	CERAMIC	220PF 5% 50V
CNP801	1-691-765-11	PLUG (MICRO CONNECTOR) 3P		C301	1-128-813-11	CERAMIC	220PF 5% 50V
		< VARIABLE RESISTOR >		C302	1-126-964-11	ELECT	10uF 20.00% 50V
RV801	1-227-511-11	RES, VAR, CARBON 20K (LEVEL)		C303	1-104-665-11	ELECT	100uF 20.00% 10V
*****				C304	1-126-968-11	ELECT	100uF 20.00% 50V
		INPUT (CONTROL) BOARD *****		C305	1-126-968-11	ELECT	100uF 20.00% 50V
		< CAPACITOR >		C306	1-126-964-11	ELECT	10uF 20.00% 50V
C101	1-128-813-11	CERAMIC	220PF 5% 50V	C307	1-126-967-11	ELECT	47uF 20.00% 50V
C201	1-126-964-11	ELECT	10uF 20.00% 50V	C308	1-126-964-11	ELECT	10uF 20.00% 50V
		< CONNECTOR >		C309	1-136-165-00	FILM	0.1uF 5% 50V
* CN101	1-506-944-11	PIN, CONNECTOR 2P		C310	1-136-165-00	FILM	0.1uF 5% 50V
		< JACK >		C311	1-162-199-31	CERAMIC	10PF 5% 50V
J101	1-815-025-11	JACK, PIN 1P (INPUT)		C312	1-128-813-11	CERAMIC	220PF 5% 50V
		< RESISTOR >		C313	1-128-813-11	CERAMIC	220PF 5% 50V
R110	1-249-441-11	CARBON	100K 5% 1/4W	C401	1-136-165-00	FILM	0.1uF 5% 50V
R202	1-249-417-11	CARBON	1K 5% 1/4W F	C402	1-136-165-00	FILM	0.1uF 5% 50V
*****				C403	1-126-974-11	ELECT	3300uF 20.00% 50V (WMSP75)
A-4731-189-A	MAIN BOARD, COMPLETE (WMSP75) *****			C403	1-104-482-11	ELECT	4700uF 20.00% 63V (WMSP85)
A-4731-195-A	MAIN BOARD, COMPLETE (WMSP85) *****			C404	1-126-974-11	ELECT	3300uF 20.00% 50V (WMSP75 )
		< CAPACITOR >		C404	1-104-482-11	ELECT	4700uF 20.00% 63V (WMSP85)
C203	1-136-165-00	FILM	0.1uF 5% 50V	C405	1-104-665-11	ELECT	100uF 20.00% 25V (WMSP75)
C204	1-136-165-00	FILM	0.1uF 5% 50V	C405	1-126-968-11	ELECT	100uF 20.00% 50V (WMSP85)
C205	1-126-964-11	ELECT	10uF 20.00% 50V	C406	1-104-665-11	ELECT	100uF 20.00% 25V (WMSP75)
C206	1-126-964-11	ELECT	10uF 20.00% 50V	C406	1-126-968-11	ELECT	100uF 20.00% 50V (WMSP85)
C207	1-131-679-31	FILM	0.01uF 5% 50V	C407	1-126-971-11	ELECT	470uF 20.00% 50V (WMSP85)
				C408	1-126-971-11	ELECT	470uF 20.00% 50V (WMSP85)
				C409	1-136-165-00	FILM	0.1uF 5% 50V (WMSP85)
				C410	1-136-165-00	FILM	0.1uF 5% 50V (WMSP85)
				C501	1-126-964-11	ELECT	10uF 20.00% 50V
				C502	1-126-949-11	ELECT	220uF 20.00% 35V

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MAIN

POWER TRANS

Ref. No.	Part No.	Description	Remarks		
C503	1-126-934-11	ELECT	220uF	20.00%	10V
C601	1-126-964-11	ELECT	10uF	20.00%	50V
< CONNECTOR >					
* CN202	1-506-944-11	PIN, CONNECTOR 2P			
CN204	1-564-505-11	PLUG, CONNECTOR 2P			
CN301	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN402	1-785-101-11	PIN, CONNECTOR (3.96mm PITCH) 3P			
					(WMSP75)
CN402	1-785-104-11	PIN, CONNECTOR (3.96mm PITCH) 6P			
					(WMSP85)
< CONNECTOR >					
CNP111	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
< DIODE >					
D205	8-719-110-31	DIODE	MTZJ-T-72-12B		
D206	8-719-110-31	DIODE	MTZJ-T-72-12B		
D301	8-719-911-19	DIODE	1SS133T-72		
D302	8-719-911-19	DIODE	1SS133T-72		
D304	8-719-911-19	DIODE	1SS133T-72		
D401	8-719-500-56	DIODE	D3SBA20 (WMSP75)		
D401	8-719-302-38	DIODE	RBV-602-01 (WMSP85)		
D402	8-719-024-99	DIODE	11ES2-NTA2B (WMSP85)		
D403	8-719-024-99	DIODE	11ES2-NTA2B (WMSP85)		
D501	8-719-911-19	DIODE	1SS133T-72		
D502	8-719-911-19	DIODE	1SS133T-72		
D602	8-719-911-19	DIODE	1SS133T-72		
< EARTH TERMINAL >					
* G1	1-537-738-21	TERMINAL, EARTH			
* G2	1-537-738-21	TERMINAL, EARTH			
< IC >					
IC202	8-759-636-74	IC	NJM4565DD		
IC203	8-759-636-74	IC	NJM4565DD		
IC301	6-600-091-01	IC	STK404-130S (WMSP85)		
IC301	6-600-181-01	IC	STK-404-100S (WMSP75)		
< TRANSISTOR >					
Q501	8-729-119-78	TRANSISTOR	2SC2785TP-E		
Q502	8-729-178-42	TRANSISTOR	2SC2784-EFP-TP		
Q503	8-729-119-78	TRANSISTOR	2SC2785TP-E		
Q504	8-729-029-86	TRANSISTOR	DTC124ESA-TP		
Q505	8-729-119-78	TRANSISTOR	2SC2785TP-E		
< RESISTOR >					
R205	1-249-441-11	CARBON	100K	5%	1/4W
R206	1-249-429-11	CARBON	10K	5%	1/4W
R207	1-249-429-11	CARBON	10K	5%	1/4W
R208	1-249-429-11	CARBON	10K	5%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-247-895-00	CARBON	470K	5%	1/4W
R211	1-247-887-00	CARBON	220K	5%	1/4W
R212	1-249-433-11	CARBON	22K	5%	1/4W
R213	1-249-433-11	CARBON	22K	5%	1/4W
R214	1-247-887-00	CARBON	220K	5%	1/4W

Ref. No.	Part No.	Description	Remarks		
R216	1-249-429-11	CARBON	10K	5%	1/4W
R217	1-249-441-11	CARBON	100K	5%	1/4W
R301	1-249-425-11	CARBON	4.7K	5%	1/4W F
R302	1-249-437-11	CARBON	47K	5%	1/4W
R303	1-249-413-11	CARBON	470	5%	1/4W F
R304	1-215-886-11	METAL OXIDE	100	5%	2W
R305	1-249-437-11	CARBON	47K	5%	1/4W
R306	1-249-425-11	CARBON	4.7K	5%	1/4W F
R307	1-249-425-11	CARBON	4.7K	5%	1/4W F
△ R308	1-234-182-11	ENCAPSULATED COMPONENT			
R309	1-247-809-81	CARBON	120	5%	1/4W F
R309	1-249-409-11	CARBON	220	5%	1/4W F
R310	1-249-393-11	CARBON	10	5%	1/4W F
R311	1-215-868-00	METAL OXIDE	680	5%	1W
R312	1-249-433-11	CARBON	22K	5%	1/4W
R313	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-249-433-11	CARBON	22K	5%	1/4W
△ R314	1-217-637-00	FUSIBLE	1	5%	1/4W
R315	1-249-437-11	CARBON	47K	5%	1/4W
R401	1-215-892-11	METAL OXIDE	1K	5%	2W
R402	1-215-892-11	METAL OXIDE	1K	5%	2W
△ R403	1-219-153-11	FUSIBLE	10	5%	1/4W
△ R404	1-219-153-11	FUSIBLE	10	5%	1/4W
R500	1-249-421-11	CARBON	2.2K	5%	1/4W F
R501	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-249-437-11	CARBON	47K	5%	1/4W
R503	1-249-441-11	CARBON	100K	5%	1/4W
R504	1-249-441-11	CARBON	100K	5%	1/4W
R505	1-249-433-11	CARBON	22K	5%	1/4W
R506	1-249-433-11	CARBON	22K	5%	1/4W
R507	1-249-425-11	CARBON	4.7K	5%	1/4W F
R508	1-249-417-11	CARBON	1K	5%	1/4W F
R601	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R601	1-215-920-11	METAL OXIDE	3.3K	5%	3W
< RELAY >					
RY301	1-515-920-11	RELAY			

POWER TRANS BOARD					
*****					
< CAPACITOR >					
△ C2	1-113-924-11	CERAMIC	0.0047uF	20.00%	250V
< CONNECTOR >					
CN1	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN2	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			

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	Remarks
		< FUSE HOLDER >	
FH901	1-533-399-11	FUSE HOLDER	
FH902	1-533-399-11	FUSE HOLDER (E2)	
FH951	1-533-399-11	FUSE HOLDER	
FH952	1-533-399-11	FUSE HOLDER (E2)	
		< SWITCH >	
△ S2	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(E2)	
*****			
		SWITCH BOARD	
		*****	
		< CAPACITOR >	
△ C901	1-113-924-11	CERAMIC 0.0047uF 20.00% 250V	
		< CONNECTOR >	
CN3	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
* CN901	1-564-517-11	PLUG, CONNECTOR 2P	
		< DIODE >	
D901	8-719-058-03	DIODE SEL5423E-TP15 (POWER)	
		< SWITCH >	
△ S901	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)	
*****			
		MISCELLANEOUS	
		*****	
△ 57	1-696-847-11	CORD, POWER (AUS)	
△ 57	1-769-744-11	CORD, POWER (AEP,UK,SP)	
△ 57	1-783-532-11	CORD, POWER (US,CND,MX)	
△ 57	1-792-823-12	CORD, POWER (TRACKING) (E2)	
△ F901	1-533-450-11	FUSE, GLASS TUBE 2.5A/125V (US,CND,MX)	
△ F901	1-532-463-51	FUSE T1AL / 250V (EXCEPT : US,CND,MX)	
△ F902	1-532-464-31	FUSE T2.5AL /250V (E2)	
SP1	1-529-995-12	SPEAKER (20cm)(WMSP75)	
SP1	1-825-004-13	SPEAKER (20cm)(WMSP85)	
△ T1	1-439-625-11	POWER TRANSFORMER (WMSP85 : US,CND,MX)	
△ T1	1-439-628-11	POWER TRANSFORMER (WMSP75 : US,CND)	
△ T1	1-439-623-11	POWER TRANSFORMER (E2)	
△ T1	1-439-624-11	POWER TRANSFORMER (AEP,UK,SP,AUS)	

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.

## REVISION HISTORY

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

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

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