

ST-S110

SERVICE MANUAL

*Canadian Model
AEP Model
UK Model
E Model*



SPECIFICATIONS

Tuner

Circuit system FM stereo, FM/AM superheterodyne tuner
Quartz-locked PLL digital synthesizer system

FM tuner

Frequency range 87.5–108 MHz
Antenna terminals 75 ohms unbalanced
300 ohms balanced
AEP, UK models: 75 ohms unbalanced

Intermediate frequency
10.7 MHz

Sensitivity (at 46 dB quieting)
18.0 dBf, 4.4 μ V (mono)
40.0 dBf, 49 μ V (stereo)
AEP, UK models:
18.0 dBf, 2.2 μ V (mono)
40.0 dBf, 24.5 μ V (stereo)

Signal-to-noise ratio (at 40 kHz deviation)
74 dB (mono)
69 dB (stereo)

Harmonic distortion
0.3% (mono), 0.5% (stereo) (at 1 kHz)

Separation 40 dB (at 1 kHz)

Frequency response
30 Hz–15 kHz ± 0.5 dB
AEP, UK models:
40 Hz–12.5 kHz ± 0.5 dB

Selectivity
West German and Italian models:
65 dB (at 300 kHz)
E model:
65 dB (at 400 kHz)

Capture ratio 1.0 dB

AM suppression ratio
65 dB

Image response ratio
70 dB

IF response ratio 70 dB

Spurious response ratio

80 dB

Muting threshold 30 dBf

Automatic tuning threshold
30 dBf

775 mV, 4.7 k ohms (at 75 kHz deviation)

Output
AEP, UK models: 410 mV, 4.7 k ohms
(at 40 kHz deviation)

AM tuner

Frequency range Italian model:
MW: 522–1,611 kHz
LW: 144–288 kHz

AEP, UK models:
MW: 531–1,602 kHz
LW: 153–281 kHz

Canadian model:
AM: 530–1,710 kHz at 10 kHz step
(531–1,710 kHz at 9 kHz step)

E model:
AM: 531–1,602 kHz at 9 kHz step
(530–1,710 kHz at 10 kHz step)

Antenna
AM loop antenna
External antenna terminal

Intermediate frequency
450 kHz

Usable sensitivity (with AM loop antenna)
300 μ V/m (999 kHz)
1 mV/m (216 kHz)

Signal-to-noise ratio
54 dB (50 mV/m) (999 kHz)
50 dB (50 mV/m) (216 kHz)

Harmonic distortion
0.5% (50 mV/m, 400 Hz)

Selectivity 32 dB

— Continued on next page —

FM STEREO/FM-AM TUNER
SONY®

General

Power requirements

U.K. model: 240 V AC (or 220 V AC adjustable by authorized Sony personnel), 50/60 Hz

AEP model: 220 V AC (or 240 V AC adjustable by authorized Sony personnel), 50/60 Hz

Canadian model: 120 V AC, 60 Hz

E model: 110–120 V or 220–240 V AC adjustable, 50/60 Hz

Power consumption

10 W

Dimensions

Approx. 430×80×295 mm (w/h/d)
(17×3¹/₄×11⁵/₈ inches)

Weight

Approx. 2.8 kg (6 lb 3 oz)

Accessories supplied

Remote control cord (1)

Connecting cord (1)

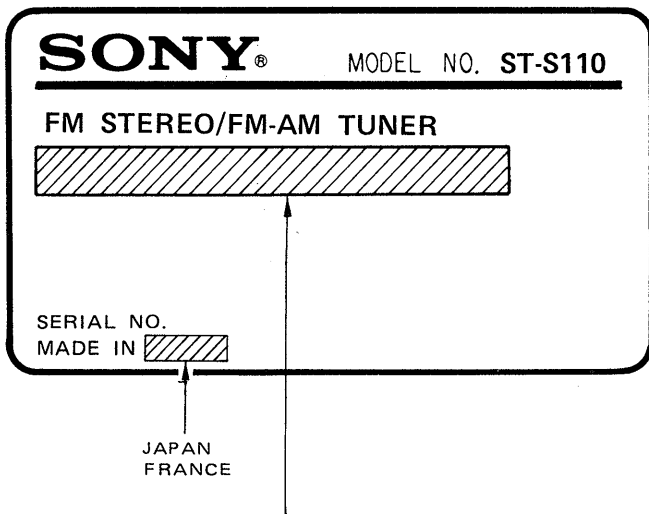
FM antenna (1) (Except West Germany model)

AM loop antenna

Design and specifications subject to change without notice.

MODEL IDENTIFICATION

— Specification Label —



Canadian Model: AC: 120 V 60 Hz 10 W

AEP Model: AC: 220 V 50/60 Hz 10 W

UK Model: AC: 240 V 50/60 Hz 10 W

E Model: AC: 110–120 V/220–240 V 50/60 Hz 10 W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  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.

On safety

- Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power line voltage.

Where purchased	Operating voltage
Canadian Model	120 V AC, 60 Hz
UK Model	240 V AC, 50/60 Hz
AEP Model	220 V AC, 50/60 Hz (240 V AC, adjustable by authorized Sony personnel)
E Model	110–120 or 220–240 V AC, 50/60 Hz (Adjustable using the voltage selector at the rear)

VOLTAGE SELECTOR
110-120V 220-240V



- Should any solid object or liquid fall into the unit, unplug the unit and have it checked by qualified personnel before operating it an further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Do not pull the cord itself.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  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 GENERAL

Receiving Broadcasts

Tuning in Automatically

Before reception, be sure to connect the AM and FM antenna.

Réception d'une émission

Accord automatique

Avant la réception, s'assurer de connecter l'antenne AM et l'antenne FM.

Radiorecepción

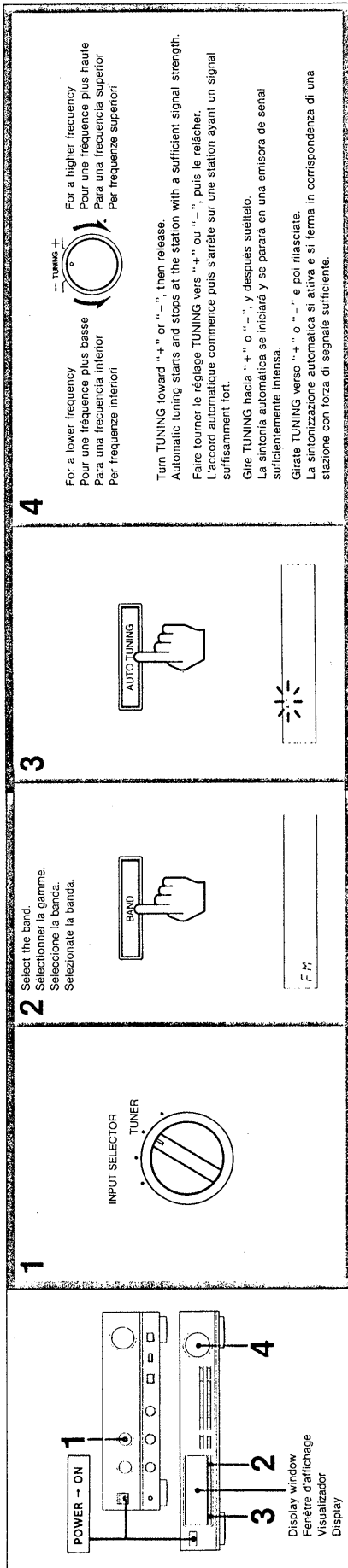
Sintonía automática

Antes de la recepción, asegúrese de conectar las antenas de AM y FM suministradas.

Ricezione radiofonica

Sintonia automatica

Prima di usare la radio, assicuratevi di collegare le antenne AM e FM.



To receive other stations
When the received station is not the one you want, turn TUNING again.

Indications in the display window

- The STEREO indication appears when an FM stereo program of sufficient signal strength is received.
- The SIGNAL meter indicates the signal strength of a station tuned in.

To change the AM tuning interval (except European and U.K. models)
The AM tuning interval is preset at the factory to 10 kHz or to 9 kHz to match the frequency allocation system of your country. To change the interval, proceed as follows.

- 1 Depress the POWER switch to turn on the system.
- 2 Press the BAND selector to select AM.
- 3 Press the POWER switch to turn off the system.
- 4 While turning the TUNING knob fully toward "+", press the POWER switch to turn on the system stored.

To reset the interval, follow the same procedure.

Note

When the interval is changed, all stored stations will be erased.
After changing the interval, be sure to store the stations again.

Réception d'autres stations
Lorsque la station accordée n'est pas celle désirée, appuyer de nouveau sur TUNING.

Témoins dans la fenêtre d'affichage

- Le témoin STEREO apparaît lorsqu'un programme stéréo avec un signal suffisamment fort est reçu.
- L'intensité du signal de la station accordée est indiquée par l'indicateur SIGNAL.

Changement de l'intervalle d'accord AM (excepté les modèles pour l'Europe continentale et le Royaume-Uni)
L'intervalle d'accord AM a été préétabli en usine sur 10 ou 9 kHz pour coïncider avec l'allocation des fréquences dans la région d'utilisation. Pour modifier l'intervalle, procéder comme suit.

- 1 Appuyer sur le commutateur POWER pour mettre le système sous tension.
- 2 Appuyer sur le sélecteur FM/AM BAND pour sélectionner AM.
- 3 Appuyer de nouveau sur le commutateur POWER pour mettre le système hors tension.
- 4 Tout en tournant le réglage TUNING vers "+", appuyer sur le commutateur POWER pour reformer l'alimentation. Pour réinitialiser l'intervalle, répéter les mêmes démarches.

Remarque

Lorsque l'intervalle est modifié, toutes les stations mémorisées sont effacées.
Après avoir changé l'intervalle, s'assurer de mémoriser les stations.

Para recibir otras emisoras
Cuando la emisora recibida no es la deseada, vuelva a girar TUNING.

Indicaciones en el visualizador

- Cuando reciba un programa de FM estereó de señal suficientemente intensa, aparecerá la indicación STEREO.
- En el indicador SIGNAL aparecerá la intensidad de señal de la emisora recibida.

Para cambiar el intervalo de sintonía de AM (excepto los modelos para Europa continental y el Reino Unido)
El intervalo de sintonía de AM ha sido ajustado en fábrica a 10 kHz o 9 kHz para ajustarse al sistema de asignación de frecuencias de su país. Para cambiar el intervalo, realice lo siguiente.

- 1 Presione el interruptor POWER a fin de conectar la alimentación del sistema.
- 2 Presione el selector BAND para seleccionar AM.
- 3 Presione el interruptor POWER para desconectar la alimentación del sistema.
- 4 Mientas el mando TUNING esté completamente girado hacia "+", presione el interruptor POWER a fin de conectar la alimentación del sistema. Para reajustar el intervalo, realice los mismos procedimientos.

Nota

Cuando cambie el intervalo, se borrarán todas las emisoras almacenadas.
Después de cambiar el intervalo, vuelva a almacenar las emisoras.

Per ricevere altre stazioni
Se la stazione sintonizzata non è quella desiderata, girate di nuovo TUNING.

Indicazioni sul display

- L'indicazione STEREO appare sul display quando viene ricevuta una trasmissione FM stereo con sufficiente forza di segnale.
- Il misuratore SIGNAL indica la forza di segnale della stazione ricevuta.

Per cambiare l'intervallo di sintonia AM (tranne i modelli per l'Europa e il Regno Unito)
L'intervallo di sintonia AM è stato preregolato in fabbrica su 10 kHz o 9 kHz in corrispondenza all'allocazione delle frequenze in uso nel vostro paese. Per cambiare l'intervallo procedete come segue.

- 1 Premete POWER per accendere l'apparecchio.
- 2 Premete il selettore BAND per selezionare AM.
- 3 Premete di nuovo POWER per spegnere l'apparecchio.
- 4 Mentre girate completamente la manopola TUNING verso "+", premete POWER per accendere l'apparecchio.

Per riportare l'intervallo alla regolazione originale seguite lo stesso procedimento.

Nota

Quando cambiate l'intervallo, tutte le stazioni memorizzate vengono cancellate dalla memoria.
Assicuratevi di memorizzare di nuovo le stazioni dopo aver cambiato l'intervallo.

SECTION 2

ELECTRICAL ADJUSTMENTS

2-1. FM SECTION

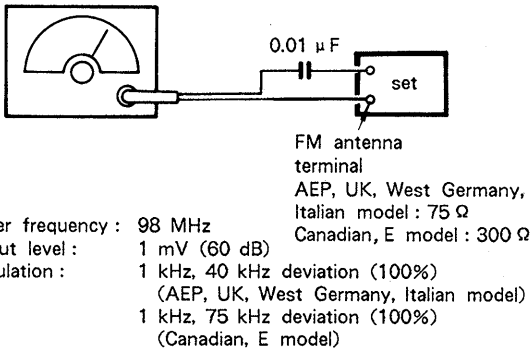
FM NULL Adjustment

Setting :

BAND switch : FM

Procedure :

FM RF signal generator

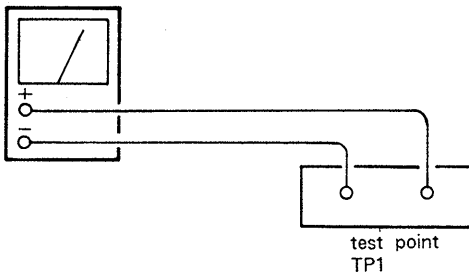


Carrier frequency : 98 MHz
Output level : 1 mV (60 dB)
Modulation : 1 kHz, 40 kHz deviation (100%)
(AEP, UK, West Germany, Italian model)
1 kHz, 75 kHz deviation (100%)
(Canadian, E model)

1. Tune the set to 98 MHz.
2. Adjust T21 for a 0 V reading on the VOM.

Note : When the ceramic filter is replaced, these adjustments should be made.

VOM
(range : 2.5 V DC)



STEREO Indication Lighting Level Adjustment

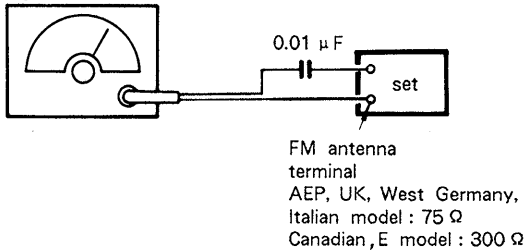
Setting :

STEREO/MUTE switch : OFF

BAND switch : FM

Procedure :

FM RF signal generator



Carrier frequency : 98 MHz
Output level : 17.9 μ V (25 dB)
Mode : Stereo
Modulation :
Audio (1 kHz) : 33.75 kHz deviation (45%)
Pilot (19 kHz) : 7.5 kHz deviation (10%) } Canadian, E model
Sub-channel (38 kHz) : 33.75 kHz deviation (45%)
Audio (1 kHz) : 16.25 kHz deviation (40.625%)
Pilot (19 kHz) : 7.5 kHz deviation (18.75%) } AEP, UK
Sub-channel (38 kHz) : 16.25 kHz deviation (40.625%) } West Germany, Italian model

1. Tune the set to 98 MHz.
2. Adjust RV24 so that the STEREO indicator goes on.

FM Stereo Separation Adjustment

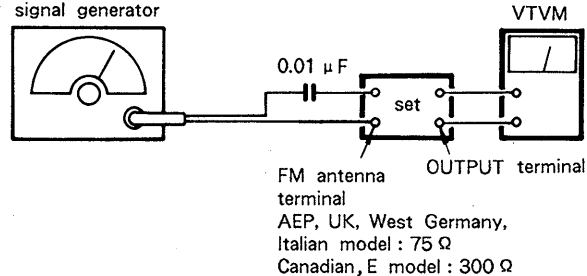
Setting :

STEREO/MUTE switch : ON (STEREO)

BAND switch : FM

Procedure :

FM RF stereo signal generator



Carrier frequency : 98 MHz
Output level : 1 mV (60 dB)
Mode : Stereo

Modulation :

Audio (1 kHz) : 33.75 kHz deviation (45%)
Pilot (19 kHz) : 7.5 kHz deviation (10%) } Canadian, E model
Sub-channel (38 kHz) : 33.75 kHz deviation (45%)
Audio (1 kHz) : 16.25 kHz deviation (40.625%)
Pilot (19 kHz) : 7.5 kHz deviation (18.75%) } AEP, UK
Sub-channel (38 kHz) : 16.25 kHz deviation (40.625%) } West Germany, Italian model

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RV21 for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RV21 for minimum reading.

L-CH Stereo separation : (A) - (B)
R-CH Stereo separation : (C) - (D)

The separations of both channels should be equal.

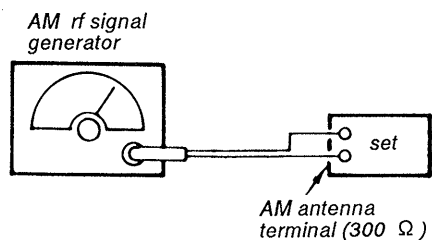
2-2. AM SECTION

1. SIGNAL LEVEL METER Lighting Level Adjustment

Setting:

BAND switch: AM (Canadian, E model)
LW (AEP, UK, West Germany, Italian model)

Procedure:



Carrier frequency: 999 KHz
216KHz

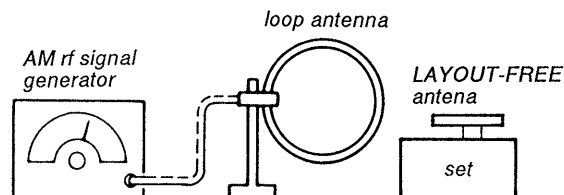
Output Level: 94 dB μ /m

Modulation: 400 Hz, 30% modulation

1. Tune the set to 216 kHz.
2. Adjust RV23 until the scale-4 on SIGNAL METER indicator lights up.
3. Tune the set to 999 kHz and confirm that the SIGNAL METER indicator lights up is scale-4.

2. AM TUNING Level Adjustment

Setting:



Output level: 94 dB

Modulation: 400 Hz, 30% modulation

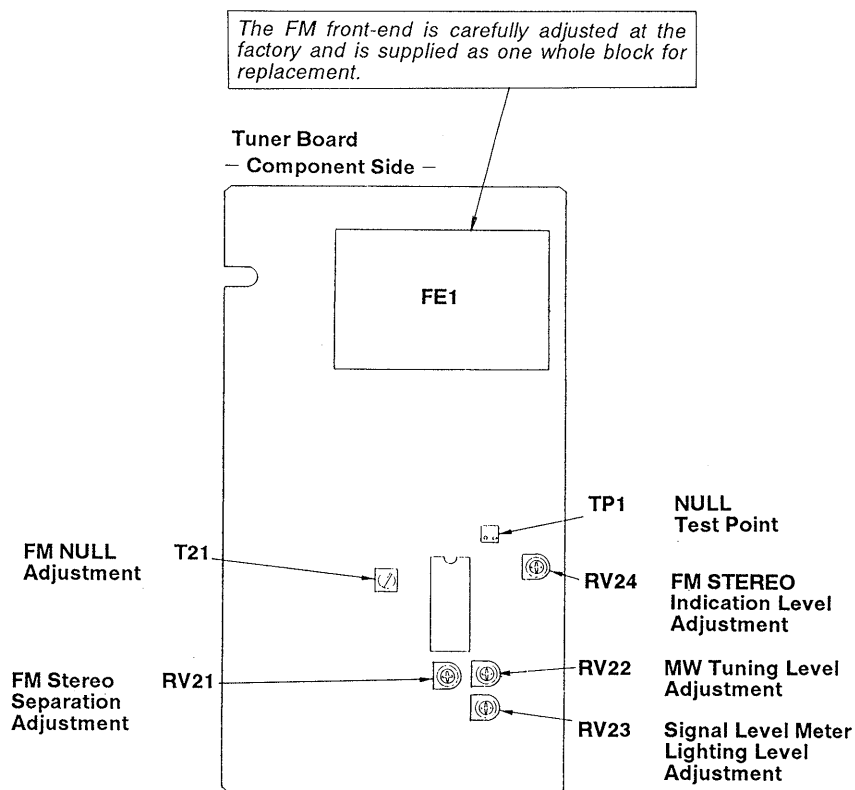
Carrier frequency: 1,050 KHz, 58 dB μ /m (Canadian model)

999 kHz, 58 dB μ /m (E model)

216 kHz, 68 dB μ /m (AE, UK, WG, IT model)

1. Tune the set to each carrier frequency.
2. Adjust RV22 so that the TUNED LED goes on.

2-3. ADJUSTING PARTS LOCATION

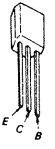
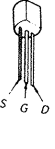
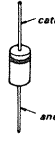


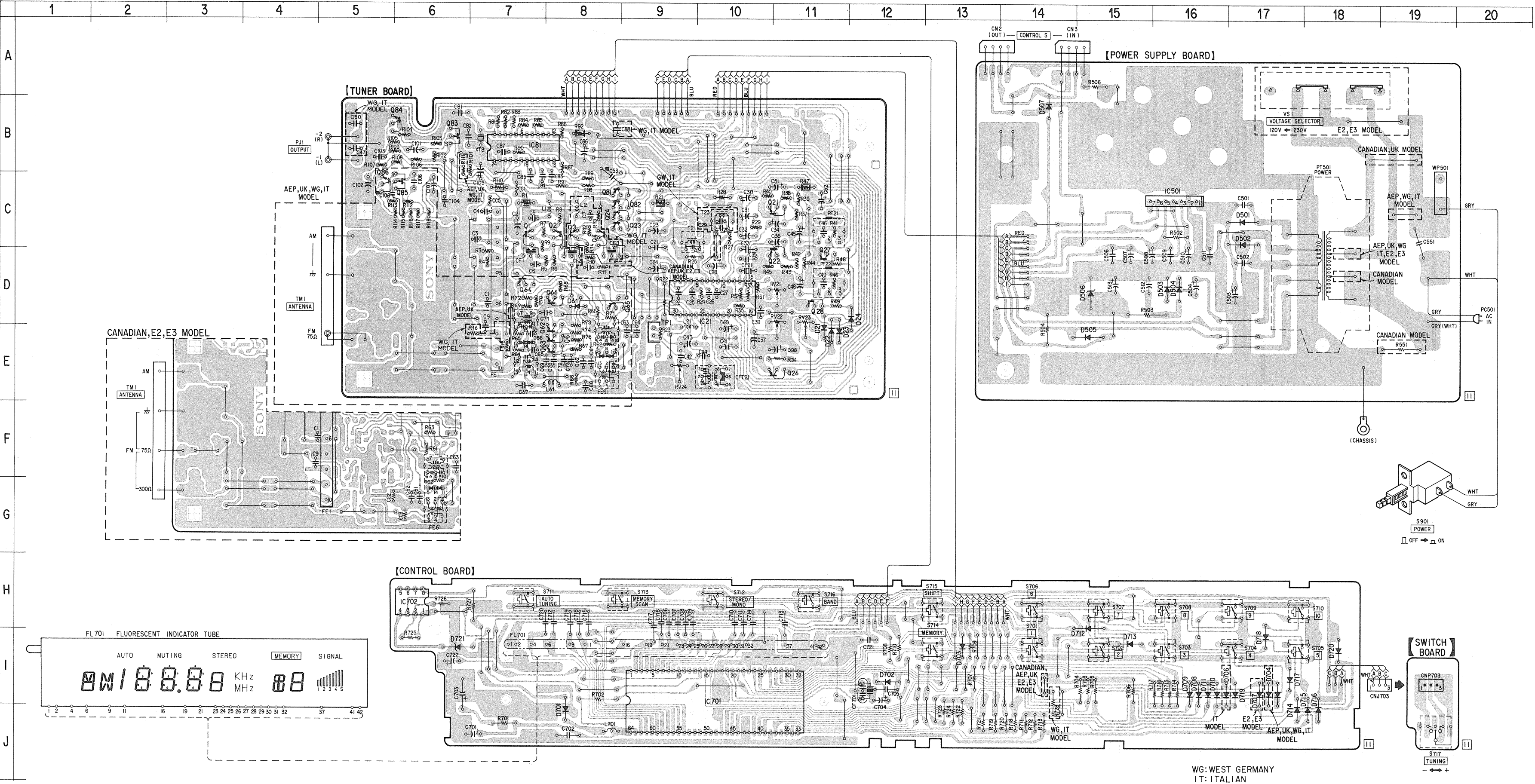
SECTION 3
DIAGRAMS

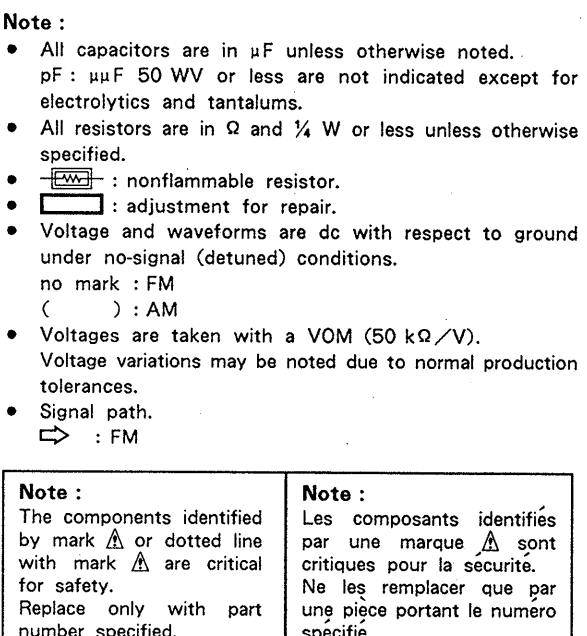
Refer page 18 for the replacement of ceramic filters (CF1, CF2)
and connection of diodes (D708, D709).

3-1. PRINTED WIRING BOARDS

Note :
• ○ : parts extracted from the component side.
• ■ : parts mounted on the conductor side.

Semiconductor Lead Layouts	Semiconductor Location	
	Ref. No.	Location
 DTC114ES 2SA1348 2SC2669 2SC3113A	D21	E-10
	D22	E-10
	D23	E-10
	D24	D-12
	D61	D-8 (AEP, UK, WG, IT)
	D501	C-17
	D502	C-17
	D503	D-16
	D504	D-16
	D505	E-15
	D506	D-15
	D507	B-14
	D701	J-8
	D702	I-12
	D703	I-13
	D704	I-17 (AEP, UK, WG, IT)
 2SA1175HFE 2SC2785HFE	D706	I-17 (IT)
	D707	I-17 (E2, E3)
	D708	I-16
	D709	I-16
	D710	I-16
	D711	I-16
	D712	H-15
	D713	I-15
	D714	J-17
	D715	J-18
	D716	J-18
	D717	I-17
	D718	I-17
	D719	I-17
	D720	I-18
	D721	I-6
 2SK246GR3	IC21	D-10
	IC81	B-7
	IC501	C-16
	IC701	I-10
	IC702	H-6
	Q1	C-7
	Q2	C-8
	Q3	C-8 (WG, IT)
	Q4	C-8 (WG, IT)
	Q21	C-11
	Q22	D-11
	Q23	C-8
	Q24	C-8
	Q26	E-11
	Q27	D-11
	Q28	D-11
 EQA02-17A EQA02-30B US1060M 10E2N	Q61	E-8 (AEP, UK, WG, IT)
	Q62	E-8 (AEP, UK, WG, IT)
	Q63	E-8 (AEP, UK, WG, IT)
	Q64	D-7
	Q65	D-8 (AEP, UK, WG, IT)
	Q66	D-8 (AEP, UK, WG, IT)
	Q81	C-8
	Q82	C-8
	Q83	B-6
	Q84	B-6
	Q85	C-6 (AEP, UK, WG, IT)
	Q86	C-5 (AEP, UK, WG, IT)
 RD5.6ES-B2 1SS120		





SECTION 4 EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- //F : Applicable to the model made in France.
- ABBREVIATION
WG: West German model
IT: Italian model

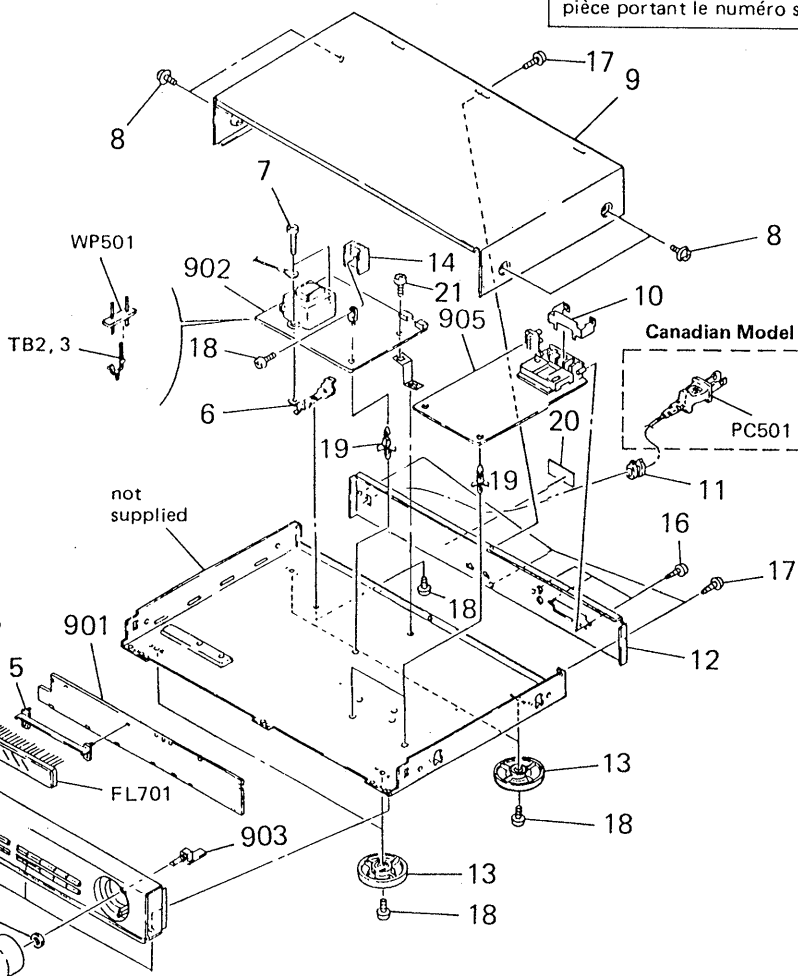
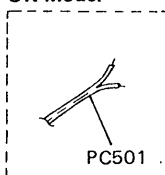
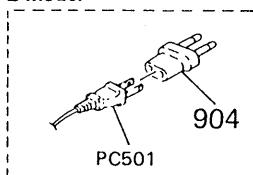
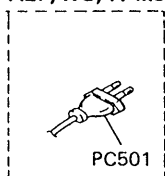
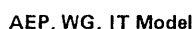
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)

↑
Cabinet's Color

↑
Parts' Color

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

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



No.	Part No.	Description	Remarks
1	4-923-458-01	KNOB (TUNING)	
2	X-4886-037-1	PANEL (BASE) ASSY	
3	4-917-460-01	KNOB, POWER	
5	*4-925-125-01	HOLDER, FL TUBE	
6	*4-917-044-01	BRACKET (PT)	
7	7-682-550-04	SCREW +BVTT 3X12 (S)	
8	3-704-366-01	SCREW (CASE) (M3X8)	
9	4-923-457-01	CASE	
10	*4-924-988-11	PLATE (ST), GROUND	
11	*3-703-244-00	(AEP,UK,WG,IT)...BUSHING (2104), CORD	
	*3-703-571-00	(Canadian,E)...BUSHING (S)(4516), CORD	
12	*4-923-452-01	(WG).....PANEL, BACK	
	*4-923-452-11	(AEP).....PANEL, BACK	
	*4-923-452-21	(AEP//F).....PANEL, BACK	
	*4-923-452-31	(UK).....PANEL, BACK	
	*4-923-452-41	(IT).....PANEL, BACK	
	*4-923-452-71	(Canadian)...PANEL, BACK	
	*4-923-452-81	(E).....PANEL, BACK	
	*4-923-453-51	(AEP,IT//F)...PANEL, BACK	
13	X-4885-935-1	(AEP,UK,E,WG,IT)...FOOT ASSY	
14	*4-363-146-31	HEAT SINK, V.OUT	
15	3-703-685-21	SCREW (+BV 3X8)	
16	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
17	7-685-872-09	SCREW +BVTT 3X8 (S)	
18	7-682-548-04	SCREW +BVTT 3X8 (S)	
19	*3-346-265-11	HOLDER, PC BOARD	
20	*4-923-455-01	(AEP,IT//F)...LABEL, MODEL NUMBER	

<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
901	*A-4333-525-A (E).....MOUNTED PCB, CONTROL *A-4333-527-A (IT).....MOUNTED PCB, CONTROL *A-4333-528-A (Canadian)...MOUNTED PCB, CONTROL *A-4333-530-A (AEP,UK).....MOUNTED PCB, CONTROL *A-4333-740-A (WG).....MOUNTED PCB, CONTROL	
902	*1-630-710-11 PC BOARD, POWER	
903	*1-630-711-11 PC BOARD, SWITCH	
904	Δ.1-526-565-12 (E)...AC PLUG ADAPTOR	
905	*A-4303-216-A (Canadian)...MOUNTED PCB, TUNER *A-4303-217-A (E).....MOUNTED PCB, TUNER *A-4303-218-A (WG,IT).....MOUNTED PCB, TUNER *A-4303-226-A (AEP,UK).....MOUNTED PCB, TUNER	
FL701	1-519-513-11 INDICATOR TUBE, FLUORESCENT	
PC501Δ.1-551-188-XX	(E).....CORD, POWER	
PC501Δ.1-555-750-00	(AEP,WG,IT)...CORD, POWER	
PC501Δ.1-558-945-11	(Canadian)...CORD, POWER (POLAR,SPT-1)	
PC501Δ.1-558-946-11	(UK)...CORD, POWER	
PC501Δ.1-574-127-11	(AEP,IT//F)...CORD, POWER	
S901 Δ.1-554-920-21	SWITCH, PUSH (AC POWER)(1 KEY)	
TB2 1-535-416-00	TERMINAL	
TB3 1-535-416-00	TERMINAL	
WP501 *1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
21 4-886-821-11	SCREW M3, CASE (+PTTWH3X6)	

SECTION 5

ELECTRICAL PARTS LIST

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.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.
- ABBREVIATION
WG: West German model
IT: Italian model

CAPACITORS:

MF: μ F, PF: μ μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:

UA...: μ A..., UPA...: μ PA...,

UPC...: μ PC, UPD...: μ PD...

- //F : Applicable to the model made in France.

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

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

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*A-4333-525-A	(E).....MOUNTED PCB, CONTROL	C39	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
	*A-4333-527-A	(IT).....MOUNTED PCB, CONTROL	C40	1-124-463-00	ELECT 0.1MF 20% 50V
	*A-4333-528-A	(Canadian)....MOUNTED PCB, CONTROL	C41	1-124-927-11	ELECT 4.7MF 20% 16V
	*A-4333-530-A	(AEP,UK)....MOUNTED PCB, CONTROL	C42	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
	*A-4333-740-A	(WG).....MOUNTED PCB, CONTROL			
902	*1-630-710-11	PC BOARD, POWER	C43	1-126-176-11	ELECT 220MF 20% 10V
903	*1-630-711-11	PC BOARD, SWITCH	C44	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
904	Δ 1-526-565-12	(E)...AC PLUG ADAPTOR	C45	1-123-382-00	ELECT 3.3MF 20% 50V
905	*A-4303-216-A	(Canadian)...MOUNTED PCB, TUNER	C46	1-162-524-11	CERAMIC CHIP 0.0022MF 20% 25V
	*A-4303-217-A	(E).....MOUNTED PCB, TUNER	C47	1-162-294-31	(WG,IT)...CERAMIC CHIP 0.001MF 20% 25V
	*A-4303-218-A	(WG,IT).....MOUNTED PCB, TUNER	C48	1-123-382-00	ELECT 3.3MF 20% 50V
	*A-4303-226-A	(AEP,UK).....MOUNTED PCB, TUNER			
C1	1-162-294-31	CERAMIC CHIP 0.001MF 20% 25V	C49	1-162-524-11	CERAMIC CHIP 0.0022MF 20% 25V
C2	1-124-474-11	ELECT 47MF 20% 16V	C50	1-162-294-31	(WG,IT)...CERAMIC CHIP 0.001MF 20% 25V
C3	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V	C51	1-124-474-11	ELECT 47MF 20% 16V
C4	1-162-294-31	CERAMIC CHIP 0.001MF 20% 25V	C52	1-124-252-00	ELECT 0.33MF 20% 50V
C5	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V	C53	1-162-211-11	CERAMIC 33PF 5% 50V
C6	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V	C61	1-163-063-00	CERAMIC MELF 0.022MF 25V
C7	1-163-059-00	(WG,IT)...CERAMIC MELF 0.01MF 20% 16V	C62	1-163-063-00	CERAMIC MELF 0.022MF 25V
C8	1-163-059-00	(WG,IT)...CERAMIC MELF 0.01MF 20% 16V	C63	1-163-063-00	CERAMIC MELF 0.022MF 25V
C9	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V	C64	1-163-063-00	CERAMIC MELF 0.022MF 25V
C21	1-101-006-00	CERAMIC 0.047MF 50V	C65	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V
C22	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V	C66	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V
C23	1-124-474-11	ELECT 47MF 20% 16V	C67	1-102-120-00	(AEP,UK,WG,IT) ...CERAMIC 0.0018MF 10% 50V
C24	1-123-382-00	ELECT 3.3MF 20% 50V			
C25	1-163-059-00	(Canadian,E) ...CERAMIC MELF 0.01MF 20% 16V	C68	1-162-523-11	(AEP,UK,WG,IT) ...CERAMIC CHIP 0.0015MF 20% 25V
C25	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V	C69	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V
C26	1-162-527-11	CERAMIC CHIP 0.0068MF 20% 12V	C70	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V
C27	1-162-521-11	(WG,IT)...CERAMIC CHIP 680PF 20% 50V			
C28	1-124-499-11	ELECT 1.0MF 20% 50V	C71	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V
C29	1-162-521-11	(WG,IT)...CERAMIC CHIP 680PF 20% 50V	C72	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V
C30	1-124-499-11	ELECT 1.0MF 20% 50V	C73	1-163-063-00	(AEP,UK,WG,IT) ...CERAMIC MELF 0.022MF 25V
C31	1-124-902-00	ELECT 0.47MF 20% 50V			
C32	1-124-463-00	ELECT 0.1MF 20% 50V	C81	1-102-961-00	CERAMIC 27PF 5% 50V
C33	1-130-481-00	(AEP,UK,E,WG,IT) ...PE TEREPHTHALATE 0.0068MF 5% 50V	C82	1-102-961-00	CERAMIC 27PF 5% 50V
C35	1-130-482-00	(Canadian) ...PE TEREPHTHALATE 0.0082MF 5% 50V	C83	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
C34	1-123-382-00	ELECT 3.3MF 20% 50V	C84	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
C35	1-130-481-00	(AEP,UK,E,WG,IT) ...PE TEREPHTHALATE 0.0068MF 5% 50V	C85	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
C35	1-130-482-00	(Canadian) ...PE TEREPHTHALATE 0.0082MF 5% 50V	C86	1-124-474-11	ELECT 47MF 20% 16V
C36	1-123-382-00	ELECT 3.3MF 20% 50V	C87	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
C37	1-123-875-11	ELECT 10MF 20% 50V	C88	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
C38	1-123-875-11	ELECT 10MF 20% 50V	C101	1-124-925-11	ELECT 2.2MF 20% 50V
			C102	1-124-463-00	ELECT 0.1MF 20% 50V
			C103	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V
			C104	1-163-059-00	CERAMIC MELF 0.01MF 20% 16V

Ref.No.	Part No.	Description
C105	1-124-474-11	ELECT 47MF 20% 50V
C106	1-136-173-00	(AEP,UK,WG,IT)... METALIZED FILM 0.47MF 5% 50V
C107	1-124-463-00	(AEP,UK,WG,IT)...ELECT 0.1MF 20% 50V
C108	1-101-005-00	CERAMIC 0.022MF 50V
C501	1-101-004-00	CERAMIC 0.01MF 50V
C502	1-101-004-00	CERAMIC 0.01MF 50V
C503	1-126-105-11	ELECT 1000MF 20% 35V
C504	1-124-910-11	ELECT 47MF 20% 50V
C506	1-101-005-00	CERAMIC 0.022MF 50V
C507	1-123-875-11	ELECT 10MF 20% 50V
C508	1-123-875-11	ELECT 10MF 20% 50V
C509	1-101-005-00	CERAMIC 0.022MF 50V
C510	1-124-925-11	ELECT 2.2MF 20% 50V
C511	1-101-005-00	CERAMIC 0.022MF 50V
C512	1-124-910-11	ELECT 47MF 20% 50V
C513	1-124-911-11	ELECT 220MF 20% 50V
C551	1-161-744-00	CERAMIC 0.01MF 400V
C701	1-126-157-11	ELECT 10MF 20% 16V
C702	1-161-379-00	CERAMIC 0.01MF 30% 16V
C703	1-125-486-11	DOUBLELAYERS 0.22F 5.5V
C704	1-126-094-11	ELECT 4.7MF 20% 25V
C705	1-161-379-00	CERAMIC 0.01MF 30% 16V
C706	1-162-286-31	CERAMIC 220PF 10% 50V
C707	1-162-286-31	CERAMIC 220PF 10% 50V
C708	1-162-286-31	CERAMIC 220PF 10% 50V
C709	1-162-286-31	CERAMIC 220PF 10% 50V
C710	1-162-286-31	CERAMIC 220PF 10% 50V
C711	1-162-286-31	CERAMIC 220PF 10% 50V
C712	1-162-286-31	CERAMIC 220PF 10% 50V
C713	1-162-286-31	CERAMIC 220PF 10% 50V
C714	1-162-286-31	CERAMIC 220PF 10% 50V
C715	1-162-286-31	CERAMIC 220PF 10% 50V
C716	1-162-286-31	CERAMIC 220PF 10% 50V
C717	1-162-286-31	CERAMIC 220PF 10% 50V
C718	1-162-286-31	CERAMIC 220PF 10% 50V
C719	1-162-286-31	CERAMIC 220PF 10% 50V
C720	1-162-286-31	CERAMIC 220PF 10% 50V
C721	1-136-165-00	FILM 0.1MF 5% 50V
C722	1-124-910-11	ELECT 47MF 20% 50V
CC1	1-249-366-11	CARBON MELF 0 5% 1/5W
CC2	1-249-366-11	(Canadian,E) ...CARBON MELF 0 5% 1/5W
CC3	1-249-366-11	(Canadian,E) ...CARBON MELF 0 5% 1/5W
CC5	1-249-997-11	(AEP,UK)...CARBON MELF 0 5% 1/8W
CF1	1-567-389-11	FILTER, CERAMIC
CF2	1-567-389-11	FILTER, CERAMIC
CF3	1-567-389-11	(WG,IT)...FILTER, CERAMIC
CF21	1-577-075-11	OSCILLATOR, CERAMIC
CF701	1-577-359-21	VIBRATOR, CERAMIC
CFT21	1-404-853-11	TRANSFORMER,IF(CERAMIC FILTER)
CN1	*1-568-284-11	SOCKET, CONNECTOR 9P
CN2	1-564-980-11	PIN, CONNECTOR 4P
CN3	1-564-980-11	PIN, CONNECTOR 4P
CN702	*1-568-281-11	SOCKET, CONNECTOR 6P
CN703	*1-564-337-00	PIN, CONNECTOR 3P

Ref.No.	Part No.	Description
CNJ1	*1-506-503-11	PIN, CONNECTOR 9P
CNJ2	*1-568-273-11	SOCKET, CONNECTOR 7P
CNJ3	*1-568-275-11	SOCKET, CONNECTOR 9P
D21	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D21	8-719-000-26	DIODE US1060M
D22	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D22	8-719-000-26	DIODE US1060M
D23	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D23	8-719-000-26	DIODE US1060M
D24	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D24	8-719-000-26	DIODE US1060M
D61	8-719-912-20	(AEP,IT//F).....DIODE 1SS120
D61	8-719-000-26	(AEP,UK,WG,IT)...DIODE US1060M
D501	8-719-200-77	DIODE 10E2N
D501	8-719-200-82	(AEP,IT//F)...DIODE 11ES2
D502	8-719-200-77	DIODE 10E2N
D502	8-719-200-82	(AEP,IT//F)...DIODE 11ES2
D503	8-719-000-26	DIODE US1060M
D503	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D504	8-719-000-26	DIODE US1060M
D504	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D505	8-719-109-89	DIODE RD5.6ES-B2
D506	8-719-904-93	DIODE EQA02-30B
D507	8-719-000-26	DIODE US1060M
D507	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D701	8-719-000-26	DIODE US1060M
D701	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D702	8-719-000-26	DIODE US1060M
D702	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D703	8-719-000-26	DIODE US1060M
D703	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D704	8-719-000-26	(AEP,UK,WG,IT)...DIODE US1060M
D704	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D706	8-719-000-26	(IT).....DIODE US1060M
D706	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D707	8-719-000-26	(E)...DIODE US1060M
D708	8-719-000-26	DIODE US1060M
D708	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D709	8-719-000-26	DIODE US1060M
D709	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D710	8-719-000-26	DIODE US1060M
D710	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D711	8-719-000-26	DIODE US1060M
D711	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D712	8-719-000-26	DIODE US1060M
D712	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D713	8-719-000-26	DIODE US1060M
D713	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D714	8-719-000-26	DIODE US1060M
D714	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D715	8-719-000-26	DIODE US1060M
D715	8-719-912-20	(AEP,IT//F)...DIODE 1SS120

Ref.No.	Part No.	Description
D716	8-719-000-26	DIODE U51060M
D716	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D717	8-719-000-26	DIODE U51060M
D717	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D718	8-719-000-26	DIODE U51060M
D718	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D719	8-719-000-27	DIODE U51060M
D719	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D720	8-719-000-27	DIODE U51060M
D720	8-719-912-20	(AEP,IT//F)...DIODE 1SS120
D721	8-719-913-28	DIODE EQA02-17A
FE1	1-463-857-11	(WG,IT).....FRONT END (FM)
FE1	1-463-862-21	(Canadian,AEP,UK,E)...FRONT END, FM
FE61	1-236-462-11	ENCAPSULATED COMPONENT
FE62	1-236-463-11	(AEP,UK,WG,IT)...ENCAPSULATED COMPONENT
FL701	1-519-513-11	INDICATOR TUBE, FLUORESCENT
IC21	8-759-821-45	IC LA1851N
IC81	8-759-820-91	IC LC7218
IC501	8-759-820-09	IC LA5667
IC701	8-759-234-35	IC TMP47C670N-1283
IC702	8-759-945-58	IC RC4558P
L1	1-410-645-31	MICRO INDUCTOR 100UH
L2	1-410-645-31	(WG,IT)...MICRO INDUCTOR 100UH
L21	1-407-500-00	(AEP,UK,WG,IT)...MICRO INDUCTOR 4.7UH
L21	1-410-171-11	(Canadian,E)...MICRO INDUCTOR 1.0MMH
L61	1-410-525-11	(AEP,UK,WG,IT)...MICRO INDUCTOR 220UH
L701	1-410-521-11	INDUCTOR 100UH
LPF21	1-235-164-00	FILTER, LOW PASS
LPF22	1-235-164-00	FILTER, LOW PASS
PT501	1-449-400-11	(AEP,UK,WG,IT)...TRANSFORMER, POWER
PT501	1-449-401-11	(E).....TRANSFORMER, POWER
PT501	1-449-402-11	(Canadian).....TRANSFORMER, POWER
PC501A	1-551-188-XX	(E).....CORD, POWER
PC501A	1-555-750-00	(AEP,WG,IT)...CORD, POWER
PC501A	1-558-945-11	(Canadian)...CORD, POWER (POLAR,SPT-1)
PC501A	1-558-946-11	(UK).....CORD, POWER
PC501A	1-574-127-11	(AEP,IT//F)...CORD, POWER
PJ1	1-565-352-11	JACK, PIN 2P
Q1	8-729-266-93	TRANSISTOR 2SC2669
Q2	8-729-266-93	TRANSISTOR 2SC2669
Q3	8-729-266-93	(WG,IT)...TRANSISTOR 2SC2669
Q4	8-729-266-93	(WG,IT)...TRANSISTOR 2SC2669
Q21	8-729-119-78	TRANSISTOR 2SC2785HFE
Q22	8-729-119-78	TRANSISTOR 2SC2785HFE
Q23	8-729-806-10	TRANSISTOR 2SA1348
Q24	8-729-900-80	TRANSISTOR DTC114ES
Q26	8-729-900-80	TRANSISTOR DTC114ES
Q27	8-729-119-78	TRANSISTOR 2SC2785HFE
Q28	8-729-119-78	TRANSISTOR 2SC2785HFE
Q61	8-729-900-80	(AEP,UK,WG,IT)...TRANSISTOR DTC114ES
Q62	8-729-900-80	(AEP,UK,WG,IT)...TRANSISTOR DTC114ES
Q63	8-729-900-80	(AEP,UK,WG,IT)...TRANSISTOR DTC114ES
Q64	8-729-119-78	TRANSISTOR 2SC2785HFE

Q65	8-729-820-10	TRANSISTOR 2SA1317
Q65	8-729-119-76	(AEP,IT//F)...TRANSISTOR 2SA1175HFE
Q66	8-729-900-80	(AEP,UK,WG,IT)...TRANSISTOR DTC114ES
Q81	8-729-806-10	TRANSISTOR 2SA1348
Q82	8-729-900-80	TRANSISTOR DTC114ES
Q83	8-729-202-67	TRANSISTOR 2SK246GR3
Q84	8-729-203-53	TRANSISTOR 2SC3113A
Q85	8-729-202-67	(AEP,UK,WG,IT)...TRANSISTOR 2SK246GR3
Q86	8-729-203-53	(AEP,UK,WG,IT)...TRANSISTOR 2SC3113A
R1	Δ.1-249-401-11	(Canadian,AEP,UK,E) ...CARBON 47 5% 1/4W F
R1	Δ.1-249-397-11	(WG,IT)...CARBON 22 5% 1/4W F
R3	1-249-329-11	CARBON MELF 330 5% 1/8W
R4	1-249-329-11	CARBON MELF 330 5% 1/8W
R5	1-249-329-11	CARBON MELF 330 5% 1/8W
R6	1-249-350-11	CARBON MELF 18K 5% 1/8W
R7	1-249-329-11	CARBON MELF 330 5% 1/8W
R8	1-249-332-11	CARBON MELF 560 5% 1/8W
R9	1-249-352-11	CARBON MELF 27K 5% 1/8W
R10	1-249-329-11	(WG,IT)...CARBON MELF 330 5% 1/8W
R11	1-249-350-11	(WG,IT)...CARBON MELF 18K 5% 1/8W
R12	1-249-329-11	(WG,IT)...CARBON MELF 330 5% 1/8W
R13	1-249-334-11	(WG,IT)...CARBON MELF 820 5% 1/8W
R14	1-249-352-11	(WG,IT)...CARBON MELF 27K 5% 1/8W
R15	1-249-347-11	(WG,IT)...CARBON MELF 10K 5% 1/8W
R16	1-249-343-11	(WG,IT)...CARBON MELF 4.7K 5% 1/8W
R21	Δ.1-249-404-00	CARBON (SMALL) 82 5% 1/4W F
R22	1-249-428-11	(Canadian)...CARBON 8.2K 5% 1/4W
R22	1-249-433-11	(AEP,UK,E,WG,IT) ...CARBON (SMALL) 22K 5% 1/4W
R23	1-249-335-11	CARBON MELF 1K 5% 1/8W
R24	1-249-353-11	CARBON MELF 33K 5% 1/8W
R25	1-249-428-11	CARBON (SMALL) 8.2K 5% 1/4W
R27	1-249-350-11	CARBON MELF 18K 5% 1/8W
R28	1-249-423-11	CARBON (SMALL) 3.3K 5% 1/4W
R29	1-249-347-11	CARBON MELF 10K 5% 1/8W
R31	1-249-331-11	CARBON MELF 470 5% 1/8W
R32	1-249-347-11	CARBON MELF 10K 5% 1/8W
R33	1-249-347-11	CARBON MELF 10K 5% 1/8W
R34	1-249-425-11	CARBON (SMALL) 4.7K 5% 1/4W
R35	1-249-355-11	CARBON MELF 47K 5% 1/8W
R37	1-249-359-11	CARBON MELF 100K 5% 1/8W
R38	1-249-363-11	CARBON MELF 220K 5% 1/8W
R39	1-249-339-11	CARBON MELF 2.2K 5% 1/8W
R40	1-249-338-11	CARBON MELF 1.8K 5% 1/8W
R41	1-249-344-11	CARBON MELF 5.6K 5% 1/8W
R42	1-249-359-11	CARBON MELF 100K 5% 1/8W
R43	1-249-363-11	CARBON MELF 220K 5% 1/8W
R44	1-249-339-11	CARBON MELF 2.2K 5% 1/8W
R45	1-249-338-11	CARBON MELF 1.8K 5% 1/8W
R46	1-249-344-11	CARBON MELF 5.6K 5% 1/8W
R47	Δ.1-249-409-11	CARBON (SMALL) 220 5% 1/4W F
R48	1-249-359-11	CARBON MELF 100K 5% 1/8W
R49	1-249-359-11	CARBON MELF 100K 5% 1/8W
R61	1-249-359-11	CARBON MELF 100K 5% 1/8W
R62	1-249-355-11	CARBON MELF 47K 5% 1/8W

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.

Ref.No.	Part No.	Description
R63	1-249-315-11	(Canadian,E) ...CARBON MELF 22 5% 1/8W
R64	1-249-351-11	(AEP,UK,WG,IT) ...CARBON MELF 22K 5% 1/8W
R65	1-249-355-11	(AEP,UK,WG,IT) ...CARBON MELF 47K 5% 1/8W
R66	1-215-493-00	(AEP,UK,WG,IT) ...CARBON MELF 1M 5% 1/5W
R67	1-249-359-11	(AEP,UK,WG,IT) ...CARBON MELF 100K 5% 1/8W
R68	1-249-352-11	(AEP,UK,WG,IT) ...CARBON MELF 27K 5% 1/8W
R69	1-249-351-11	(AEP,UK,WG,IT) ...CARBON MELF 22K 5% 1/8W
R70	1-249-331-11	(AEP,UK,WG,IT) ...CARBON MELF 470 5% 1/8W
R71	1-249-339-11	(AEP,UK,WG,IT) ...CARBON MELF 2.2K 5% 1/8W
R72	1-249-351-11	(AEP,UK,WG,IT) ...CARBON MELF 22K 5% 1/8W
R73	1-249-343-11	(AEP,UK,WG,IT) ...CARBON MELF 4.7K 5% 1/8W
R74	1-249-347-11	(AEP,UK,WG,IT) ...CARBON MELF 10K 5% 1/8W
R75	1-249-343-11	(AEP,UK,WG,IT) ...CARBON MELF 4.7K 5% 1/8W
R81	1-249-335-11	CARBON MELF 1K 5% 1/8W
R82	1-249-335-11	CARBON MELF 1K 5% 1/8W
R83	1-249-335-11	CARBON MELF 1K 5% 1/8W
R84	1-249-335-11	CARBON MELF 1K 5% 1/8W
R85	1-249-347-11	CARBON MELF 10K 5% 1/8W
R86	1-249-335-11	CARBON MELF 1K 5% 1/8W
R87	1-249-347-11	CARBON MELF 10K 5% 1/8W
R88	1-249-343-11	CARBON MELF 4.7K 5% 1/8W
R89	1-249-335-11	CARBON MELF 1K 5% 1/8W
R90	1-249-347-11	CARBON MELF 10K 5% 1/8W
R91	1-249-335-11	CARBON MELF 1K 5% 1/8W
R92	△, 1-249-401-11	CARBON (SMALL) 47 5% 1/4W F
R101	1-249-341-11	CARBON MELF 3.3K 5% 1/8W
R102	1-249-332-11	CARBON MELF 560 5% 1/8W
R103	1-249-335-11	CARBON MELF 1K 5% 1/8W
R104	1-249-328-11	CARBON MELF 270 5% 1/8W
R105	1-249-343-11	CARBON MELF 4.7K 5% 1/8W
R106	1-249-339-11	CARBON MELF 2.2K 5% 1/8W
R107	1-249-343-11	CARBON MELF 4.7K 5% 1/8W
R108	1-249-323-11	CARBON MELF 100 5% 1/8W
R109	1-249-343-11	CARBON MELF 4.7K 5% 1/8W
R110	△, 1-249-405-11	CARBON (SMALL) 100 5% 1/4W F
R111	1-249-341-11	(AEP,UK,WG,IT) ...CARBON MELF 3.3K 5% 1/8W
R112	1-249-332-11	(AEP,UK,WG,IT) ...CARBON MELF 560 5% 1/8W
R113	1-249-335-11	(AEP,UK,WG,IT) ...CARBON MELF 1K 5% 1/8W
R114	1-249-328-11	(AEP,UK,WG,IT) ...CARBON MELF 270 5% 1/8W
R115	1-249-351-11	(AEP,UK,WG,IT) ...CARBON MELF 22K 5% 1/8W
R116	1-249-339-11	(AEP,UK,WG,IT) ...CARBON MELF 2.2K 5% 1/8W

Ref.No.	Part No.	Description
R117	1-249-343-11	(AEP,UK,WG,IT) CARBON MELF 4.7K 5% 1/8W
R118	1-249-323-11	(AEP,UK,WG,IT) CARBON MELF 100 5% 1/8W
R502	1-249-437-11	CARBON 47K 5% 1/4W
R503	△, 1-247-752-11	CARBON 1K 5% 1/2W F
R504	1-249-441-11	CARBON 100K 5% 1/4W
R506	1-249-393-11	CARBON 10 5% 1/4W
R551	1-202-725-00	(Canadian)...SOLID 100 5% 1/4W
R701	1-249-405-11	CARBON 100 5% 1/4W
R702	1-249-441-11	CARBON 100K 5% 1/4W
R703	1-249-441-11	CARBON 100K 5% 1/4W
R704	1-249-441-11	CARBON 100K 5% 1/4W
R705	1-249-441-11	CARBON 100K 5% 1/4W
R706	1-249-441-11	CARBON 100K 5% 1/4W
R707	1-249-423-11	CARBON 3.3K 5% 1/4W
R708	1-249-417-11	CARBON 1K 5% 1/4W
R709	1-249-411-11	CARBON 330 5% 1/4W
R710	1-249-411-11	CARBON 330 5% 1/4W
R711	1-249-429-11	CARBON 10K 5% 1/4W
R712	1-249-429-11	CARBON 10K 5% 1/4W
R713	1-249-429-11	CARBON 10K 5% 1/4W
R714	1-249-429-11	CARBON 10K 5% 1/4W
R715	1-249-429-11	CARBON 10K 5% 1/4W
R716	1-249-429-11	CARBON 10K 5% 1/4W
R717	1-249-429-11	CARBON 10K 5% 1/4W
R718	1-249-423-11	CARBON 3.3K 5% 1/4W
R719	1-249-423-11	CARBON 3.3K 5% 1/4W
R720	1-249-423-11	CARBON 3.3K 5% 1/4W
R721	1-249-423-11	CARBON 3.3K 5% 1/4W
R722	1-249-423-11	CARBON 3.3K 5% 1/4W
R723	1-249-423-11	CARBON 3.3K 5% 1/4W
R724	1-249-423-11	CARBON 3.3K 5% 1/4W
R725	1-249-429-11	CARBON 10K 5% 1/4W
R726	1-249-429-11	CARBON 10K 5% 1/4W
R727	1-249-405-11	CARBON 100 5% 1/4W
R728	1-249-429-11	(WG,IT)...CARBON 10K 5% 1/4W
RV21	1-238-013-11	(Canadian,E,AEP,UK) ...RES, ADJ, CARBON 2.2K
RV21	1-238-015-11	(WG,IT).....RES, ADJ, CARBON 4.7K
RV22	1-238-017-11	RES, ADJ, CARBON 22K
RV23	1-238-021-11	RES, ADJ, CARBON 220K
S701	1-554-303-21	SWITCH, KEY BOARD (1)
S702	1-554-303-21	SWITCH, KEY BOARD (2)
S703	1-554-303-21	SWITCH, KEY BOARD (3)
S704	1-554-303-21	SWITCH, KEY BOARD (4)
S705	1-554-303-21	SWITCH, KEY BOARD (5)
S706	1-554-303-21	SWITCH, KEY BOARD (6)
S707	1-554-303-21	SWITCH, KEY BOARD (7)
S708	1-554-303-21	SWITCH, KEY BOARD (8)
S709	1-554-303-21	SWITCH, KEY BOARD (9)
S710	1-554-303-21	SWITCH, KEY BOARD (0)
S711	1-554-303-21	SWITCH, KEY BOARD (AUTO TUNING)
S712	1-554-303-21	SWITCH, KEY BOARD (STEREO/MUTING)
S713	1-554-303-21	SWITCH, KEY BOARD (MEMORY SCAN)
S714	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S715	1-554-303-21	SWITCH, KEY BOARD (SHIFT)

Note:

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

Note:

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

Ref.No.	Part No.	Description
S716	1-554-303-21	SWITCH, KEY BOARD (BAND)
S717	1-571-327-21	SWITCH, ROTARY (TUNING)
S901	△.1-554-920-21	SWITCH, PUSH (AC POWER)(1 KEY)
T21	1-404-807-11	TRANSFORMER, DISCRIMINATOR
T23	1-236-465-11	(WG,IT)...ENCAPSULATED COMPONENT
TB2	1-535-416-00	TERMINAL
TB3	1-535-416-00	TERMINAL
TM1	*1-536-708-00	(Canadian,E)...TERMINAL BOARD, PUSH 4P
TM1	*1-537-138-21	(AEP,UK)...TERMINAL BOARD (ANT)
TM1	*1-537-138-31	(WG,IT)...TERMINAL BOARD (ANT)
TP1	*1-560-060-00	PIN, CONNECTOR 2P (NULL)
VSI	△.1-571-722-11	(E)...SWITCH, VOLTAGE SELECTION
WP501	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
XT81	1-577-126-11	VIBRATOR, CRYSTAL

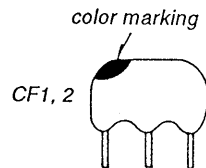
ACCESSORY & PACKING MATERIAL

1-501-369-11	(AEP,UK,IT)...ANTENNA
1-501-351-21	(Canadian,E)...ANTENNA, FEEDER
1-501-374-11	ANTENNA, LOOP
△.1-526-565-12	(E)...AC PLUG ADAPTOR
1-558-233-11	CORD (WITH CONNECTOR)(SIRCS)4P
1-558-543-11	CORD, CONNECTION
3-701-630-00	BAG, POLYETHYLENE
3-750-238-11	(Canadian,UK,E,IT)...MANUAL, INSTRUCTION (ENGL ILSH,FRENCH,SPANISH,ITALIAN)
3-750-238-41	(AEP,WG)...MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,PORTUGUESE)
3-750-238-51	(AEP,IT//F)...MANUAL, INSTRUCTION (ENGL ILSH,FRENCH,SPANISH,ITALIAN)
3-750-238-61	(AEP//F)...MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,PORTUGUESE)
*3-704-343-01	SHEET (STANDARD), PROTECTION
4-915-426-01	CUSHION
*4-923-467-01	(AEP,IT//F)...CUSHION
*4-917-056-01	INDIVIDUAL CARTON
*4-923-466-01	(AEP,IT//F)...INDIVIDUAL CARTON

Note for Printed Wiring Boards (Page 7)

Note on Ceramic Filter (CF1, 2) Replacement and Diode D708, 709 Connection.

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by diodes (D708, 709) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



○ : connect
× : not connect

Ceramic filter		DIODE connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	D708	D709	
White	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i.e., of same color coding should be used for CF1 and CF2.

When replacing the ceramic filters, perform the FM Discriminator Adjustment.

Note:

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

Note:

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