

MODEL NO. AF-5300E,K

≡ AF-S600K

AIWA®

[SERVICE MANUAL]



Cord No.: 05-530-000-18

DATE OF ISSUE 11/1978

SPECIFICATIONS

Model type: Stereo cassette system
Semiconductors: 8 IC's, 1 FET, 61 transistors
 31 diodes, 5 LED's
Power supply: AC 120V/220V
 switchable 50/60 Hz (E model)
 AC 120V/240V
 switchable 50/60 Hz (K model)
Power consumption: 170W
Dimensions: 591(W) x 168(H) x 469(D) mm
 (w/dust cover)
Weight: 13 kg (w/dust cover)
Accessories: Indoor FM antenna 1
 Head cleaning stick 1
 Cassette tape 1

< Tuner Section >

Frequency range: FM: 87.5~108 MHz
 (3.4~2.8 m)
 SW: 5.7~16.7 MHz
 (53~18 m)
 MW: 515~1650 kHz
 (582~182 m)
 LW: 145~350 kHz
 (2069~857 m)

Sensitivity: (IHF, THD 3%) FM: 6±2 dB (at 88, 98, 108 MHz)
 (S/N 20 dB) SW: 27±5 dB (at 6 MHz)
 25±3 dB (at 10 MHz)
 24±3 dB (at 16 MHz)
 (S/N 20 dB) MW: 50±3 dB (at 600 kHz)
 49±3 dB (at 1000, 1600 kHz)
 (S/N 20 dB) LW: 62±3 dB (at 150 kHz)
 60±3 dB (at 240, 340 kHz)

FM Frequency response: 30~15,000 Hz
FM Signal to noise ratio: 70±5 dB
 (Weighted)
FM distortion: 0.1±0.05%
 17±3 dB
Muting level: FM: 300 ohms (balanced)
 75 ohms (unbalanced)
Antennas: AM: Built-in antenna, terminal for
 external antenna

< FM Multiplex Section >

Separation: 43±3 dB (at 1 kHz)
Distortion: Less than 0.5%
Two signal selectivity: Less than 60 dB

< Turntable Section >

Model type: Belt drive automatic turntable
Motor: FG servo motor
Speeds: 33-1/3 and 45 rpm
Signal to noise ratio: More than 60 dB
 (Weighted, DIN B)
Wow and flutter: Less than 0.12% (DIN)
Cartridge type: Moving magnet (MM)
Separation: 19 dB (33-1/3 rpm, 1 kHz)
Tracking force: 2±0.3g

< Cassette Tape Deck Section >

Track format: 4 tracks 2 channel

Tape speed: 4.76 cm/sec. ±1.5%
Recording time: 60 minutes (C-60)
Recording system: AC bias
Erasing system: AC erase
Record bias frequency: 61 kHz
Frequency response: Normal (LH) tape: 30~12,500 Hz
 Fe-Cr tape: 30~16,000 Hz
 CrO₂ tape: 30~16,000 Hz
 According to DIN 45500 Blatt 8
 Normal (LH) tape: 30~12,500 Hz
 Fe-Cr tape: 30~15,000 Hz
 CrO₂ tape: 30~15,000 Hz
 Normal (LH), 1.0 +1.0%
 Fe-Cr tape: -0.5%
 CrO₂ tape: 1.5 +1.0%
 -0.5%

Distortion:

Signal to noise ratio: Normal (LH) tape: 43±2 dB
 (Un-weighted, REC/PB) Fe-Cr, CrO₂ tape: 44±3 dB
Erase ratio: 65±5 dB
Wow and Flutter: Less than 0.07% (WRMS)
 According to DIN 45500 Blatt 8
 Less than 0.18%

Pinch roller pressure: 275±25g
Take-up torque: 50±10g-cm
FF torque: 100±10g cm
Rewind torque: 95 +10
 - 5g-cm
FF & rewind time: 80±10 sec. (C-60)

< Audio Section >

Circuitry: Pure complementary SEPP OTL
Continuous output power: 18W+18W (8 ohms)
 (20 Hz~40 kHz/THD 1%) 20W+20W (4 ohms)
 20W+20W (8 ohms)
 25W+25W (4 ohms)
 35W +35W (8 ohms)
Music output power: 40W+40W (4 ohms)
 40W+40W (8 ohms)
Loudness response: +8 ±2 dB (at 100 Hz)
 -6 ±2 dB (at 10 kHz)
 (With volume at -40 dB)
Tone controls: Bass: 100 Hz ±8 dB
 Treble: 10 kHz ±9 dB

Gain and input impedance: MIC: 1 mV (200 ohms~
 10 k-ohms)
 DIN IN: 200 mV (500 k-ohms)
 (TAPE PLAY)

Output level and impedance: DIN OUT: 0.45 mV/k-ohm
 (TAPE REC)
SPEAKERS: 4~8 ohms
PHONES: 8 ohms

- Specifications and design are subject to change without notice due to product improvements.
- Dolby Noise Reduction Circuit under License from Dolby Laboratories Incorporated.
- The word "Dolby" and "Double-D" symbol are trademarks of Dolby Laboratories Incorporated.

DISASSEMBLY INSTRUCTIONS

1. To Remove Turntable

- 1) Remove the platter
- 2) Loosen 2 turntable frame securing screws and slide in directions shown by arrows.
- 3) Disconnect 3 turntable connectors. (Refer to Fig. 1)

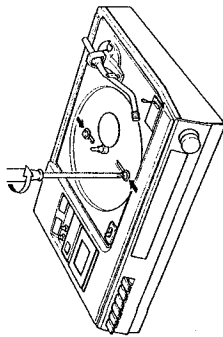


Fig. 1

2. To Remove Main Cabinet

- 1) Pull out the 2 knobs.
- 2) Remove 8 screws. (Refer to Fig. 2, 3)

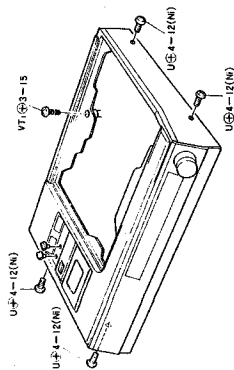


Fig. 2

5. To Remove Front Panel

- 1) Pull out the control knobs.
2. Remove 6 screws. (Refer to Fig. 7)

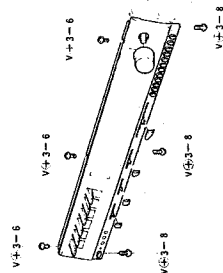


Fig. 3

3. To Remove Tuner Circuit Board

- 1) Remove the dial drum. (Refer to Fig. 4)
- 2) Remove 2 stoppers and 5 screws. (Refer to Fig. 5)

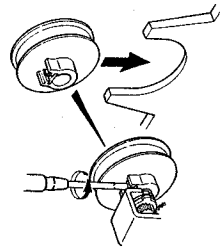


Fig. 4

Fig. 5

4. To Remove Main Amp. Circuit Board

- 1) Remove 3 screws. (Refer to Fig. 6)

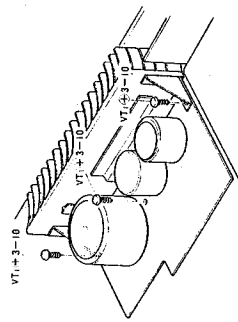


Fig. 6

7. To Remove Pre Amp./Switch Circuit Board

- 1) Remove 11 screws. (Refer to Fig. 9)

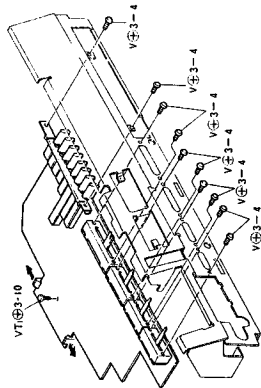


Fig. 9

9. To Remove Cassette Grille

- 1) Remove 7 screws. (Refer to Fig. 10, 11)

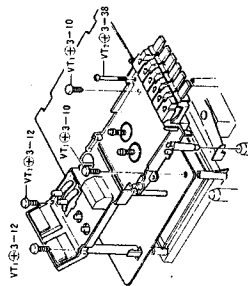


Fig. 11

8. To Remove Rec./Pb. Circuit Board

- 1) Remove the rec./pb. circuit board. (Refer to Fig. 10)

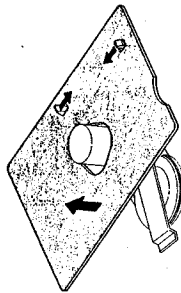
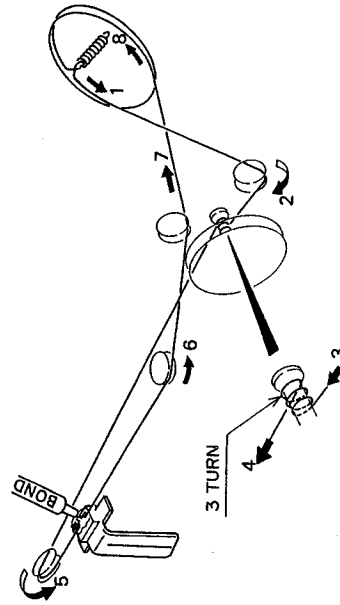
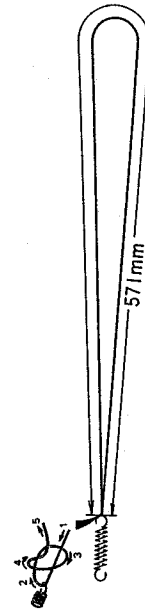


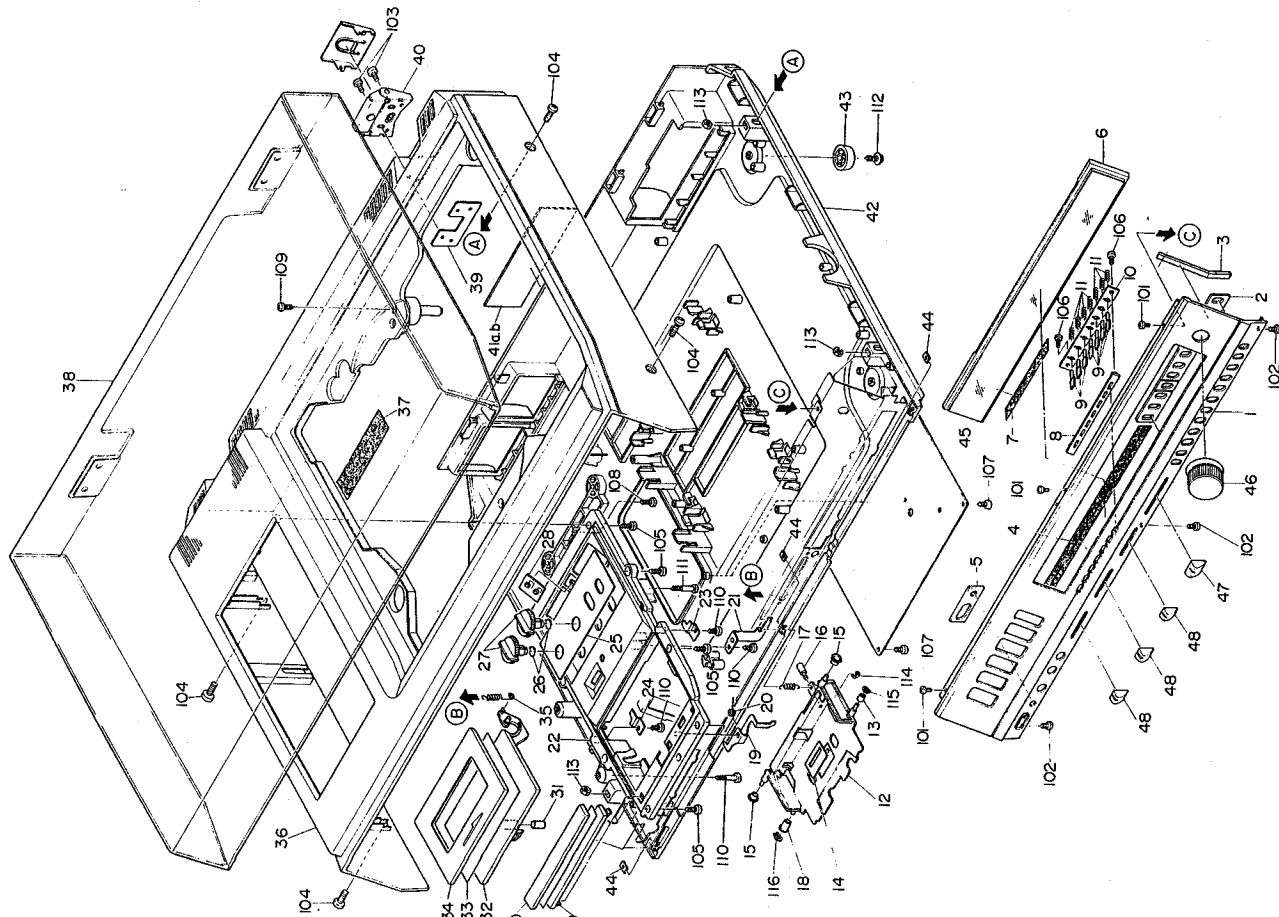
Fig. 10

DIAL CORD STRINGING



For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
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EXPLODED VIEW-1



PARTS LIST

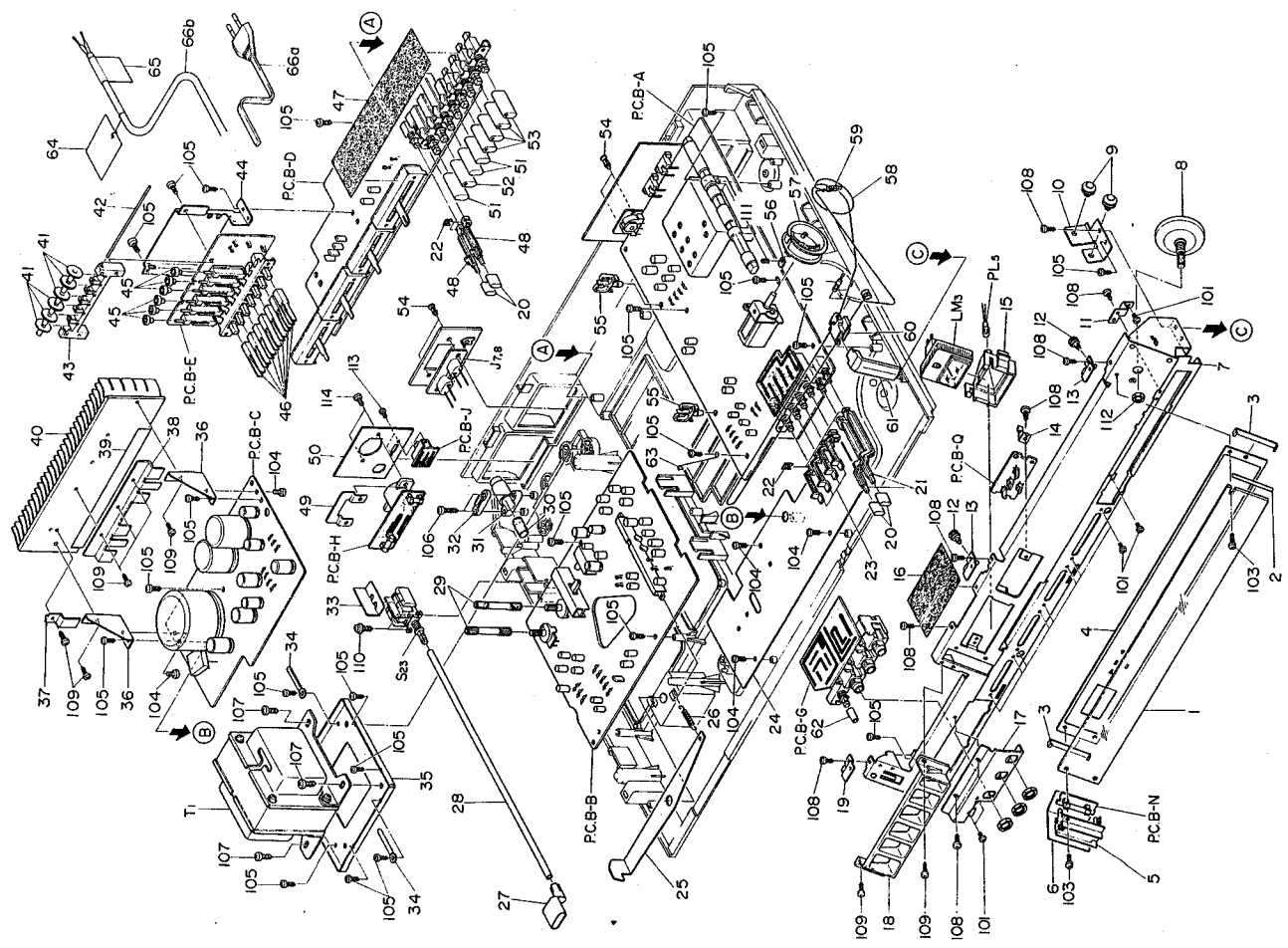
MECHANICAL PARTS

* mark in this part list shows exclusive part (which is used) for only Model AF-5300.

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1-7	09-047-131-01		Panel Assembly		1
1-1	82-493-008-01		Front panel		1
1-2	82-493-217-01		Push-button guide A		1
1-3	82-493-255-01		Scushion		1
1-4	82-493-042-01		Blind himeron cloth		1
1-5	82-493-219-01		Power button guide		1
1-6	82-493-007-01		Dial window		1
1-7	82-493-252-01		Himeron cloth, Pre-set		1
1-8	82-493-218-01		Push-button guide B		1
1-9	82-493-039-01		Pre-set button		7
1-10	82-493-210-01		Holder, Pre-set button		7
1-11	82-493-242-01		C spring		7
1-12	82-474-229-01		Up-spring ass'y		1
1-13	82-386-211-11		Collar, Up-plate	AF-5050	1
1-14	82-474-072-01		Label, Tape indication	AD-1250	1
1-15	82-470-224-01		Push gear	AF-5050	1
1-16	82-474-260-01		C/O, shaft	AF-3030	2
1-17	82-474-240-01		H spring, Up-plate	AF-5050	1
1-18	82-386-258-01		Gear, Up-plate	AF-5050	1
1-19	82-474-221-01		Cassette lock lever	AD-1250	1
1-20	82-474-288-01		T spring, Cassette lock lever	AF-5050	1
1-21	82-474-225-01		Holder N	AF-5050	1
1-22	82-493-005-01		Cassette grille A	AF-5050	1
1-23	82-493-236-01		Holder, Cassette lid R		1
1-24	82-493-237-01		Holder, Cassette lid L		1
1-25	82-493-020-01		Plate, Rec. volume		1
1-26	82-493-256-01		Knob spring		2
1-27	82-541-025-01		Knob	TPR-950	2
1-28	82-493-046-01		Rec. plate E		1
1-29	82-493-029-01		Head cover		1
1-30	82-493-030-01		Decorative plate, Head cover		1
1-31	82-474-303-01		Cushion P, Cassette holder	AF-5050	1
1-32	82-474-012-01		Cassette lid	AF-5050	1
1-33	82-470-282-01		Adhesive paper, Cassette lid	AF-3030	1
1-34	82-493-045-01		Decorative plate, Head cover		1
1-35	82-474-239-01		H spring		1
1-36	82-493-001-01		Main cabinet	AF-5050	1
1-37	82-493-003-01		Himeron cloth 20 x 63		1
1-38	82-493-055-01		Dust cover ass'y		1
1-39	82-493-211-01		Holder, Hinge		1
1-40	87-064-090-01		Hinge ass'y		2
1-41a	82-493-040-01		Name plate, Spec. (E model only)		2
1-41b	82-493-048-01		Name plate, Spec. (K model only)		2
1-42	87-493-002-01		Rear cabinet		1
1-43	87-085-161-01		Foot		1
1-44	82-461-378-01		Leaf nut	TPR-930	4
1-45	82-493-202-01		Bottom plate		3
1-46	82-494-031-01		Knob, Tuning	AF-5600	1
1-47	82-474-042-01		Slide knob B	AF-5050	1
1-48	82-474-041-01		Slide knob A	AF-5050	3

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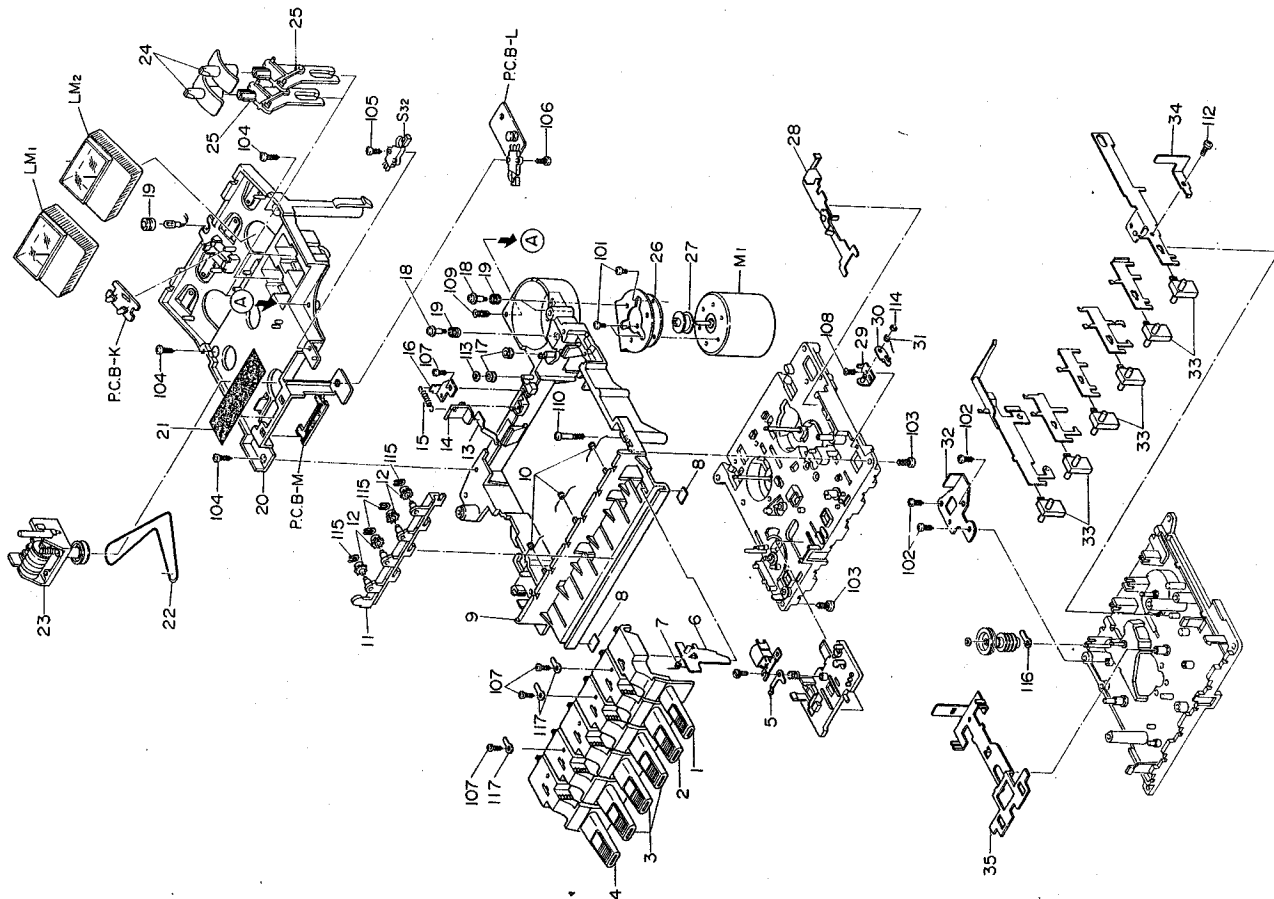
EXPLODED VIEW-2



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-493-015-01		Back plate, Tuning dial	.	1
2-2	82-493-253-01		Sheet 3.5 x 4.2	.	1
2-3	82-493-241-01		Clamp, Dial plate	.	2
2-4	82-493-010-01		Dial plate	.	1
2-5	82-493-250-01		Lamp holder	.	1
2-6	82-493-257-01		Sheet fibre	.	1
2-7	82-493-244-01		Front chassis ass'y	.	1
2-8	82-493-234-01		Tuning shaft ass'y	.	1
2-9	87-071-020-01		Holder, Pulley	.	1
2-10	82-493-209-01		Holder, Push-switch	.	2
2-11	82-493-213-01		Holder, Front panel A	.	1
2-12	87-071-019-01		Holder, LED circuit board	.	1
2-13	82-493-248-01		Reflector plate, Meter	.	2
2-14	82-493-243-01		Himeron cloth 45 x 90	.	1
2-15	82-493-215-01		Holder, MIC jack	.	1
2-16	82-493-254-01		Push-key guide	.	1
2-17	82-493-206-01		Holder, Front panel	.	1
2-18	82-493-017-01		Push-button C	.	1
2-19	82-493-251-01		Rod A	.	4
2-20	82-493-023-01		Stopper, Rod	.	2
2-21	82-493-223-01		Rod B	AD-6300	8
2-22	82-385-383-01		Shield plate, Pulley	.	4
2-23	82-493-224-01		Rec. lever	.	1
2-24	82-493-664-01		E spring	.	1
2-25	82-493-214-01		Power button	.	1
2-26	82-493-238-01		Switch joint, Power	.	1
2-27	82-493-051-01		Shaft, Rec. volume	.	1
2-28	82-493-222-01		Tube 66 x 50 (E model only)	.	2
2-29	82-493-220-01		AC cord holder A	.	1
2-30	87-830-605-01		AC cord holder B	.	1
2-31	87-085-094-01		Shield plate, AC	.	1
2-32	87-493-632-01		Wire binder	.	2
2-33	87-038-039-01		Holder, Transformer	.	1
2-34	82-493-204-01		Holder, Heat sink	.	1
2-35	82-493-230-01		Transistor clamp	AF-5050	2
2-36	82-474-211-01		Insulation film	.	1
2-37	82-493-606-01		Heat sink	.	1
2-38	82-493-607-01		Knob, Pre-set	.	1
2-39	82-493-605-01		Shaft, Pre-set	.	1
2-40	82-493-022-01		Holder, Pre-set knob	.	6
2-41	82-493-229-01		Holder, Pre-set	.	1
2-42	82-493-212-01		Gear, Pre-set	.	1
2-43	82-493-205-01		Rod D	.	1
2-44	82-493-227-01		Himeron cloth	.	6
2-45	82-493-226-01		Rod C	.	7
2-46	82-493-225-01		Holder, Voltage selector	.	1
2-47	82-488-234-01		AC cord plate	AX-7400	2
2-48	82-493-013-01		Push-button B	.	1
2-49	82-485-036-01		Push-button B (orange)	AF-5090	1
2-50	82-485-038-01		Push-button B (green)	AF-5090	3
2-51	82-495-037-01		Nylon rivet	.	1
2-52	87-094-053-01		Cable clip	.	4
2-53	87-084-089-01		Leaf nut	.	4
2-54	82-461-378-01		Dial drum	TPR-330	2
2-55	82-470-240-01		Dial string	AF-3030	1
2-56	87-496-086-01		Drum spring	.	1
2-57	82-439-359-01		Holder, Dial pointer	TPR-300	1
2-58	82-474-053-01		Tuning pointer	AF-5050	1
2-59	82-493-012-01		Speaker selector knob	.	1
2-60	82-493-012-01		Dial wire guide	.	1
2-61	82-471-212-01		Tag, Voltage selector (K model only)	AF-5080	1
2-62	87-056-014-01		Label, AC power cord (K model only)	.	1
2-63	87-034-877-01		AC power cord (E model only)	.	1
2-64	87-056-008-01		AC power cord (K model only)	.	1
2-65	87-034-877-01		AC power cord (K model only)	.	1
2-66a	87-034-872-01		AC power cord (K model only)	.	1
2-66b					1

EXPLODED VIEW-3

As this is a PM-1 mechanism, the exploded view is omitted (see the supplement PM-1 mechanism adjustment manual). The exploded view below shows the additional mechanism of the PM-1. Also shown are the attachments of the motor and a list of such.



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Qty
3-1	82-493-028-01		Pause key	.	1
3-2	82-493-026-01		Push-key (blue)	.	1
3-3	82-493-025-01		Push-key	.	3
3-4	82-493-027-01		Push-key (red)	.	1
3-5	82-539-206-01		Earth plate, Erase head	TPR-905	1
3-6	82-474-209-01		Push-lever	AF-5050	6
3-7	82-474-234-01		Spring, Push-key	AF-5050	6
3-8	82-385-342-01		Spacer, Chassis	AD-6300	2
3-9	82-290-201-01		Sub-chassis		1
3-10	82-474-236-01		Spring, Push-key	AF-5050	3
3-11	82-474-211-01		Shaft, Gear	AF-5050	1
3-12	82-470-224-01		Gear	AF-5050	4
3-13	82-474-318-01		P spring	AF-5050	1
3-14	82-474-316-01		Cassette holder	AF-5050	1
3-15	82-474-320-01		E spring	AF-5050	1
3-16	82-474-317-01		Spring, Holder	AF-5050	1
3-17	82-474-321-01		Roller, Counter	AF-5050	2
3-18	87-081-483-01		Motor screw M2.6	AF-5050	3
3-19	82-439-319-01		Rubber cushion B	TPR-300	4
3-20	82-493-203-01		Holder, Counter	.	1
3-21	82-493-055-01		Holder, Counter	.	1
3-22	82-493-232-01		Holder, Counter	.	1
3-23	87-040-105-01		Himeron cloth 20 x 63	.	1
3-24	82-493-050-01		Counter	.	1
3-25	82-493-249-01		Selector knob	.	2
3-26	82-474-224-01		Selector lever	.	2
3-27	82-541-279-01		Holder M	.	1
3-28	82-474-305-01		Motor pulley	AF-5050	1
3-29	82-439-455-01		Up-plate lock lever ass'y	TPR-950	1
3-30	82-439-457-01		Holder lock plate ass'y	AF-5050	1
3-31	82-439-275-01		Lock plate	TPR-300	1
3-32	82-493-246-01		Spring, Lock plate	TPR-300	1
3-33	82-290-222-01		Auxiliary metal fitting, Motor	TPR-300	1
3-34	82-474-245-01		Knob	.	6
3-35	82-439-269-01		Rec. plate spring	AF-5050	1
			Brake plate	TPR-300	1

The following is the part number list of the cross marked parts of the PM-1 mechanism.

Ref. No.	Part No.	Description	Qty	Ref. No.	Part No.	Description	Qty
1-13	82-385-332-11	Spring B, Head adjusting	1	2-49	82-493-247-01	Main belt	1
1-14	87-046-130-01	Rec./Pb head	1	2-50	82-439-489-01	Flywheel ass'y	1
1-31	87-046-127-01	Erase head	1	2-51	82-385-314-21	Rubber belt	1
2-33	82-439-228-31	Mounting screw	1	2-52	82-385-311-01	Screw for thrust bearing plate	1
		REC plate spring		2-53	82-474-219-11	Lower shaft	1
				2-60	82-385-309-21	Worm gear B ass'y	1

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Ref. No.	Part No.	Description	Q'ty
1-101	87-261-094-21	V + 3-6	3
1-102	87-261-095-21	V + 2-8	3
1-103	87-261-096-21	V + 3-10	8
1-104	87-265-172-11	U + 4-12	4
1-105	87-351-074-21	UT ₁ + 2.6-8	8
1-106	87-351-094-21	VT ₁ + 3-6	2
1-107	87-351-096-21	VT ₁ + 3-10	5
1-108	87-351-097-21	VT ₁ + 3-12	1

Ref. No.	Part No.	Description	Q'ty
2-101	87-261-092-21	V + 3-4	12
2-102	87-261-094-21	V + 3-6	2
2-103	87-261-096-21	V + 3-8	2
2-104	87-351-094-21	VT ₁ + 3-6	3
2-105	87-351-096-21	VT ₁ + 3-10	25
2-106	87-351-102-21	VT ₁ + 3-20	2

Ref. No.	Part No.	Description	Q'ty
3-101	87-251-070-21	U + 2.6-3	3
3-102	87-351-096-21	VT ₁ + 3-8	3
3-103	87-351-096-21	VT ₁ + 3-10	5
3-104	87-351-097-21	VT ₁ + 3-12	4
3-105	87-341-037-21	UT ₁ + 2-10	1
3-106	87-341-038-21	UT ₁ + 2-12	1
3-107	87-341-075-21	UT ₁ + 2.6-8	4
3-108	87-321-075-21	QT ₁ + 2.6-8	1
3-109	87-321-096-21	QT ₁ + 3-8	1

HARDWARE NOMENCLATURE

- V: Pan head screw
U: Binding head screw
VT₁: Pan head tapping screw
UT₁: Binding head tapping screw
VT₂: Pan head tapping screw
QT₁: Flat countersunk head tapping screw
VTF: Flange and Pan head tapping screw
VS: Pan head screw with spring washer
UTT: Pan head tap-tight screw
VTT₂: Pan head tap-tight screw
VTF₂: Flange and Pan head tapping screw

- STP: Powerful stop ring
STE: E ring
FW: Fiber washer
LB: Lug terminal plate
N: Nut
SS: Set screw
- Example: V + 3 - 6
Length in mm
Diameter in mm
Type of Slot
- Example: Q + 3 - 6
Length in mm
Diameter in mm
Type of Slot

Description of special circuitry

Preset tuning circuit

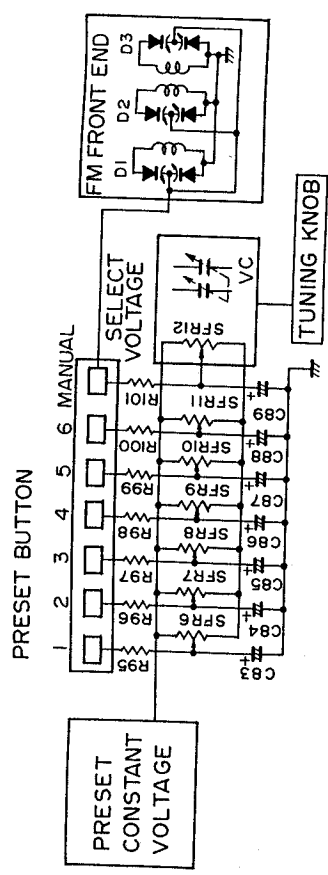


Fig. 1

LC resonance circuits, which are composed of coils (L) and capacitors (C), are almost always used in the front end circuitry of FM tuners commonly employed today. This tuning circuit features variable capacitors which are used to select the desired reception frequency by varying the capacitance. However, this model features a preset tuning circuit system. It is an electronic tuning circuit which substitutes varactor diodes for the capacitors of the LC resonance circuit and which allows the supplied voltage to be varied in order to achieve the same effect as the LC resonance circuit.

By varying the reverse bias voltage, which is a characteristic of varactor diodes, the junction capacitance (C) is made to change. In other words, the voltage-dependency characteristics of the diodes are used to produce the desired effect. (See Fig. 2)

[Reference]

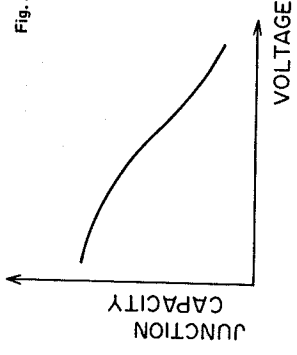
$$\frac{C_{\text{max}} + C_D}{C_{\text{min}} + C_D} = \left(\frac{f_{\text{max}}}{f_{\text{min}}} \right)^2 = k$$

C_{max} C_{min} : Maximum and minimum values of varactor diode capacitance
 C_D : Stray capacitance, trimmer capacitance
 f_{max} : Maximum reception frequency
 f_{min} : Minimum reception frequency

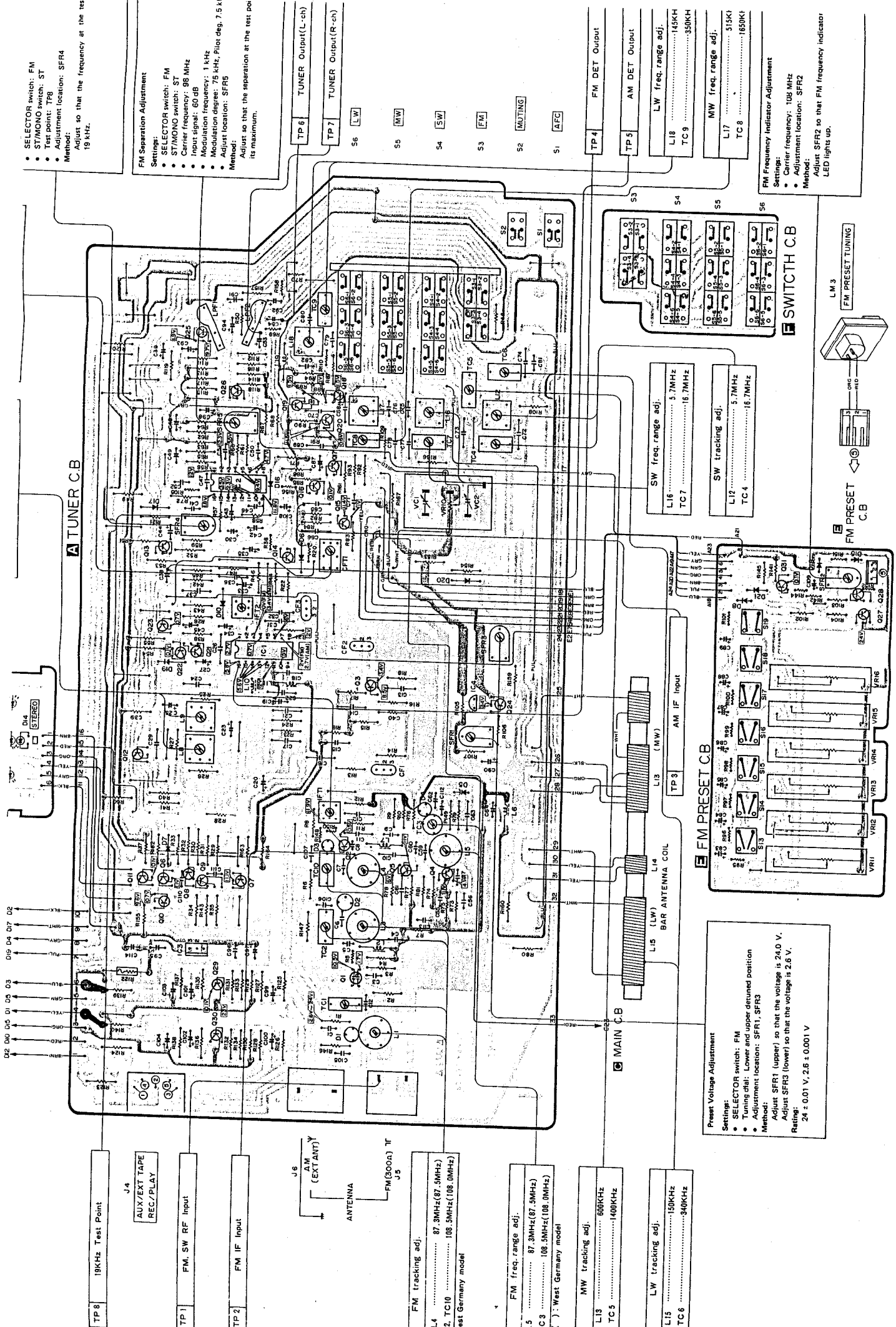
Since tough demands are placed on the selectivity of FM tuners, devices with as high a Q factor as possible are required. For this reason, epitaxial planar devices which allow devices with a low resistance to be used, are employed.

In Fig. 1 each of the preset buttons is provided with a variable resistor (VR through VR) for each of the broadcasting stations (six with this model). Once the resistances of these resistors are preset to the reception frequency of the corresponding broadcasting station, the voltage, which is supplied from the preset regulated power supply to the position at which the desired broadcasting station is tuned with the preset button, is supplied to the varactor diodes (D1, D2, D3, 1SV55) via the variable resistors, the required capacitance is provided, and the resonance frequency of the resonance circuit composed of the diodes and coils is determined. This circuit system, which connects the varactor diodes displaying the two characteristics alternately in the reverse direction and which supplies the voltage at the midpoint, displays commendable values with respect to the dynamic range for high input signals, intermodulation distortion and others. As has already been mentioned, the control voltage is an important factor with the preset tuning circuit, and it is essential that the control voltage be stabilized and that the frequency drift be improved by the AFC circuit. If, in an electronic preset tuning circuit, the resistance is set beforehand to correspond to the required broadcasting stations with the variable resistors, there is no need to rotate a tuning knob and all that has to be done in order to tune a station and receive the program is to depress the corresponding preset button. However, in the manual mode, the system can be made to function in the same way as a conventional tuner since the broadcasting station is tuned in with the tuning knob.

Fig. 2



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MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
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Email: enquiries@maurtron.co.uk



• SELECTOR switch: FM
• ST/MONO switch: ST
• Test point: TP8
• Adjustment location: SFR4
Method:
Adjust so that the frequency at the test point is 19 kHz.

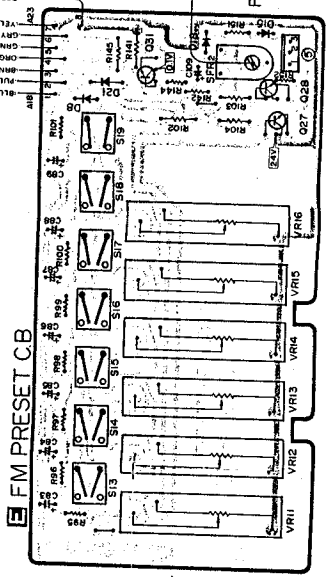
FM Separation Adjustment
Settings:
• SELECTOR switch: FM
• ST/MONO switch: ST
• Carrier frequency: 98 MHz
• Input signal: 60 dB
• Modulation frequency: 1 kHz
• Modulation depth: 75 kHz, Pilot deg. 7.5 kHz
Method:
Adjust so that the separation at the test point is maximum.

TP6 TUNER Output(L-ch)
TP7 TUNER Output(R-ch)
S6 LW
S5 MW
S4 SW
S3 FM
S2 MUTE
S1 AFC

TP4 FM DET Output
TP5 AM DET Output
L18 LW freq. range adj.145KHz
TC9350KHz
L17 MW freq. range adj.515KHz
TC8165KHz

FM Frequency Indicator Adjustment
Settings:
• Carrier frequency: 108 MHz
• Adjustment location: SFR2
Method:
Adjust SFR2 so that FM frequency indicator LED lights up.

SW freq. range adj.
L165.7MHz
TC716.7MHz
SW tracking adj.
L125.7MHz
TC416.7MHz



Preset Voltage Adjustment
Settings:
• SELECTOR switch: FM
• Tuning dial: Lower and upper detuned position
• Adjustment location: SFR1, SFR3
Method:
Adjust SFR1 (upper) so that the voltage is 24.0 V.
Adjust SFR3 (lower) so that the voltage is 2.6 V.
Rating:
24 ± 0.01 V, 2.6 ± 0.001 V

TP8 19kHz Test Point
J4 AUX/EXT TAPE REC/PLAY
TP1 FM SW RF Input
TP2 FM IF Input

J6 AM (EXTANT)
ANTENNA
FM(300n) T J5

FM tracking adj.
L487.3MHz(87.5MHz)
C2, TC10108.5MHz(108.0MHz)
West Germany model

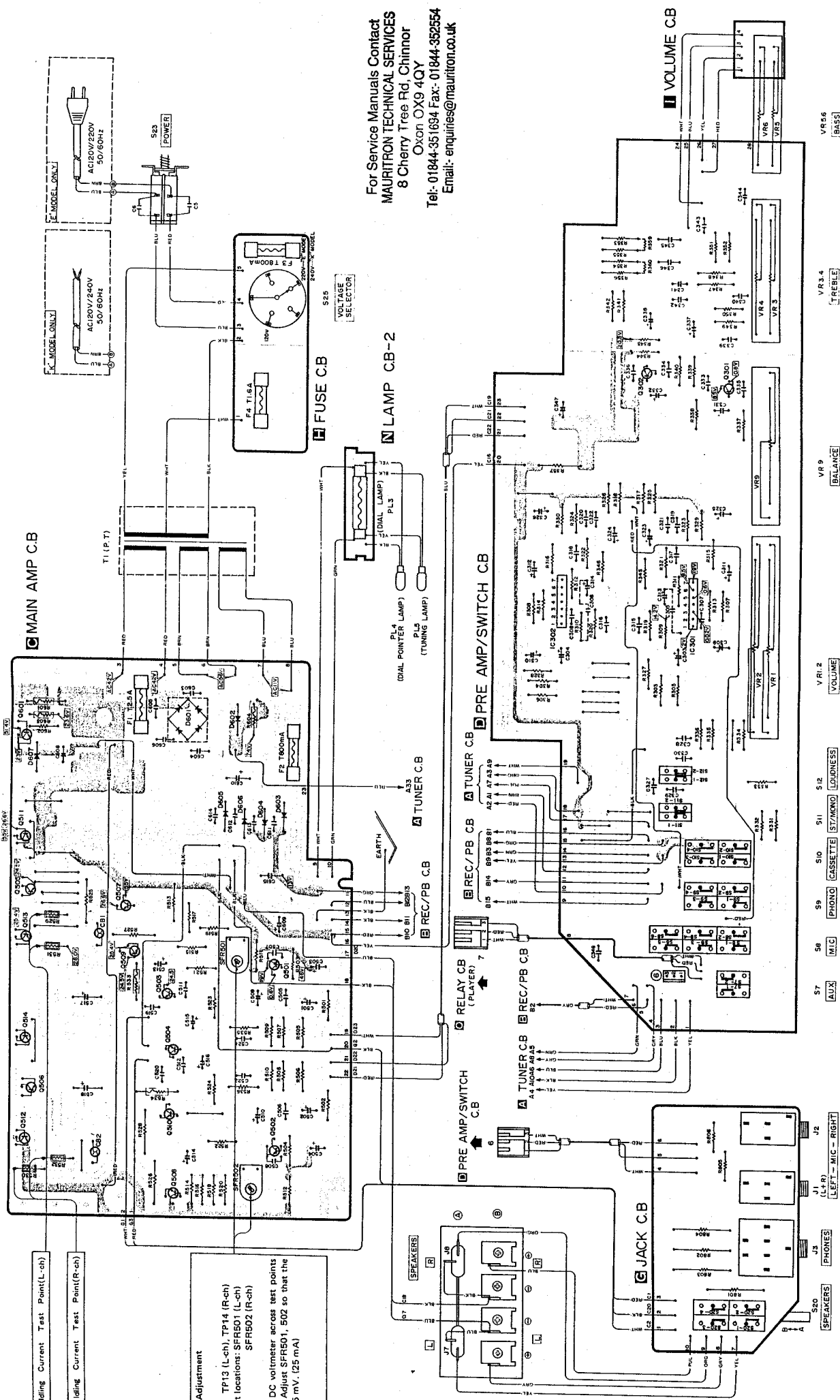
FM freq. range adj.
L587.3MHz(87.5MHz)
TC3108.5MHz(108.0MHz)
() : West Germany model

MW tracking adj.
L13600KHz
TC51400KHz

LW tracking adj.
L15150KHz
TC6340KHz

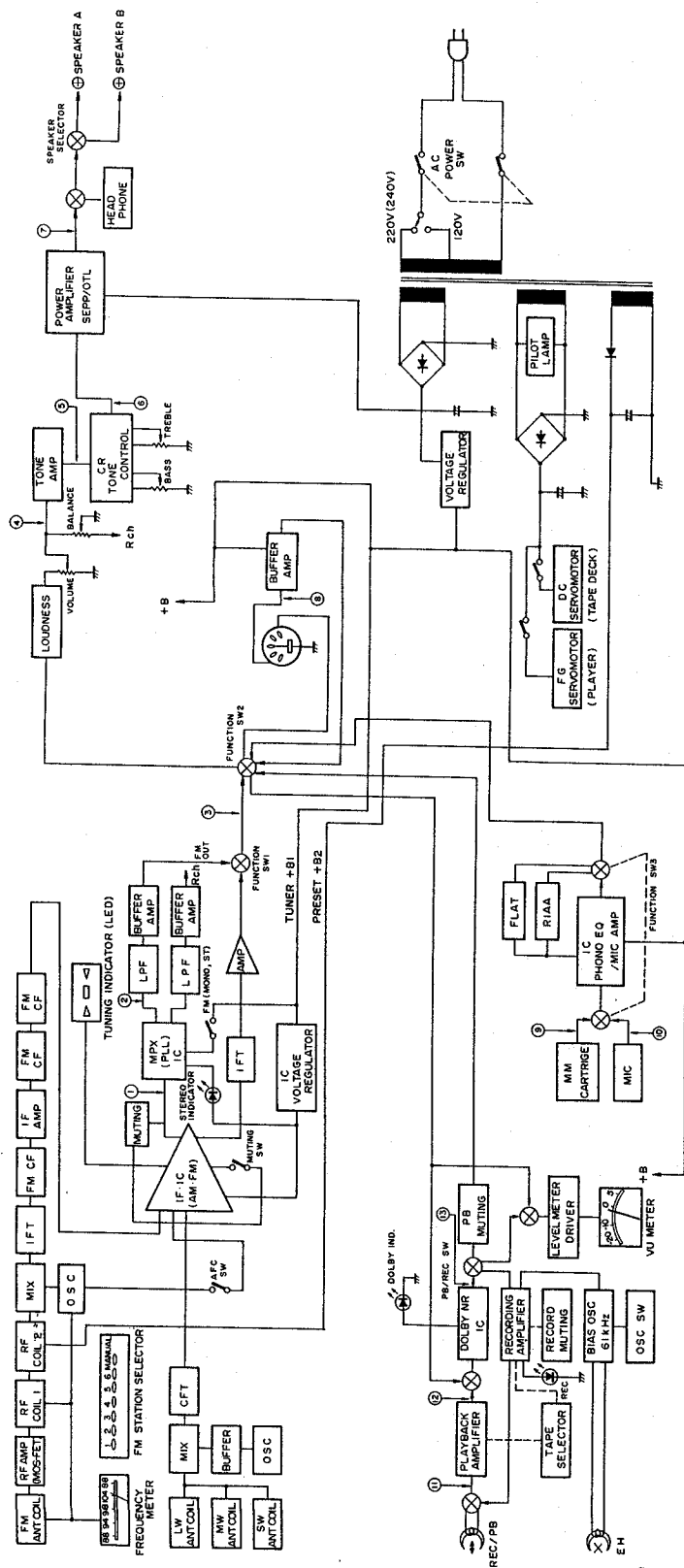
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

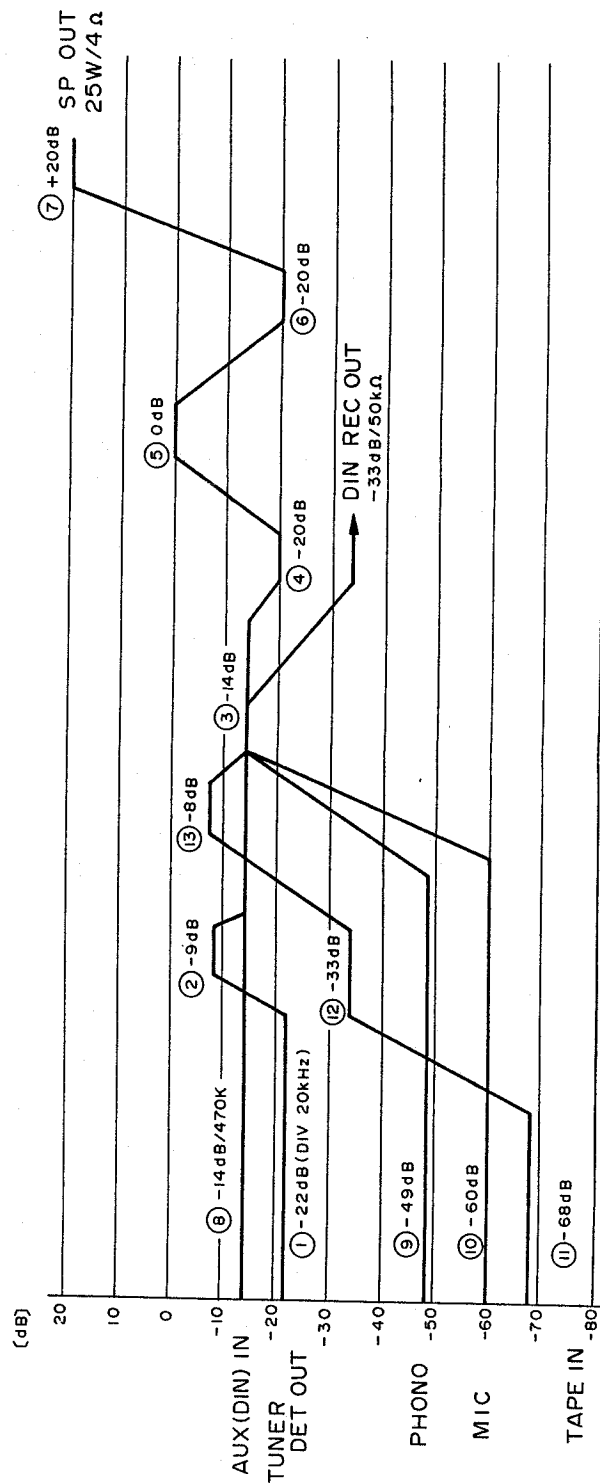


(1) B (+) Pattern Others pattern (2) The voltage is reference value measured with a tester (20K ohms/V DC) when there are no signals.

BLOCK DIAGRAM



LEVEL DIAGRAM



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