

SERVICE MANUAL

AM/FM STEREO TUNER

TX-5300

FV

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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1. SPECIFICATIONS

SEMICONDUCTOR

- FET 1
- ICs 3
- Transistors 5
- Diodes 6

FM SECTION

Circuitry 1 FET, 1-stage RF Amplifier, 3-gang Variable Capacitor, 5-stage Limiter, PLL MPX Circuit

Sensitivity

IHF 1.9µV

50dB Quieting 4.5µV (mono), 50µV (stereo)

Signal-to-Noise Ratio 70dB (mono), 68dB (stereo)

Total Harmonic Distortion

100Hz 0.2% (mono), 0.4% (stereo)

1kHz 0.2% (mono), 0.4% (stereo)

10kHz 0.2% (mono), 0.6% (stereo)

Capture Ratio 1.0dB

Selectivity ±40kHz 60dB

Frequency Response 50Hz ~ 10kHz +0.2 dB

..... 20Hz ~ 15kHz +0.5 dB

..... -2.0 dB

Separation

1kHz 35dB

50Hz ~ 10kHz 30dB

Image Rejection 60dB

IF Rejection 90dB

Spurious Rejection 75dB

AM Suppression 50dB

Sub Carrier Suppression 40dB

Muting Threshold 2.2µV

Stereo Threshold 2.2µV

De-emphasis 25µs/50µs/75µs switchable

AM SECTION

Circuitry 1-stage RF Amplifier, 2-gang Variable Capacitor

Sensitivity (IHF, Ferrite antenna) 300µV/m

(IHF, Ext. antenna) 15µV

Selectivity 35dB

Signal-to-Noise Ratio 50dB

Image Rejection 40dB

IF Rejection 50dB

AUDIO SECTION

Output level/Impedance

OUTPUT 750mV/5kΩ

MISCELLANEOUS

Power Requirements AC 110V, 120V, 130V, 220V, and 240V 50Hz/60Hz

Power Consumption 12W

Dimensions 350(W) x 125(H) x 303(D) mm

..... 13-3/4 x 4-15/16 x 11-15/16 in

Weight Without Package 4.8kg (10 lb 9 oz)

With Package 5.9kg (13 lb)

FURNISHED PARTS

FM T-type Antenna 1

Connection Cord with Pin Plugs 1

Operating Instructions 1

Fuse 0.5A 1

Fuse 1A 1

NOTE:

Specifications and the design subject to possible modification without notice due to improvements.

2. FRONT PANEL FACILITIES

FUNCTION SWITCH

Switch for selecting type of broadcast reception.

AM: To receive AM broadcasts
FM AUTO: (MUTING ON) To receive FM stereo broadcasts. When an FM monophonic signal is being received, tuner automatically switches to monophonic operation. FM STEREO indicator lights during stereo reception.
FM MONO: (MUTING OFF) To receive FM monophonic broadcasts. Recommended also when FM AUTO reception is noisy and when receiving extremely weak stations.

NOTE:

In the FM MUTING ON position, inter-station noise is suppressed when tuning FM stations.

POWER SWITCH

Switch for turning AC power ON and OFF.

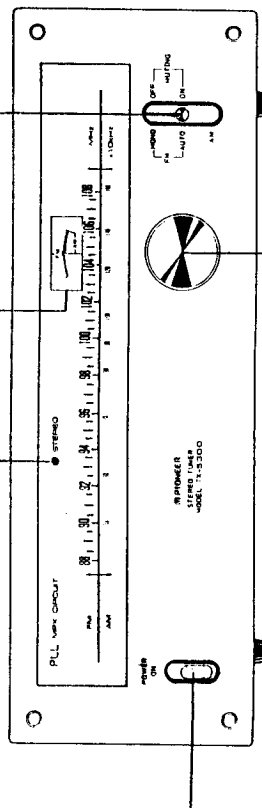
AM/FM METER

Meter for indicating proper station tuning.

AM: Tune for maximum deflection toward the right.
FM: Tune for center of scale indication.

FM STEREO INDICATOR

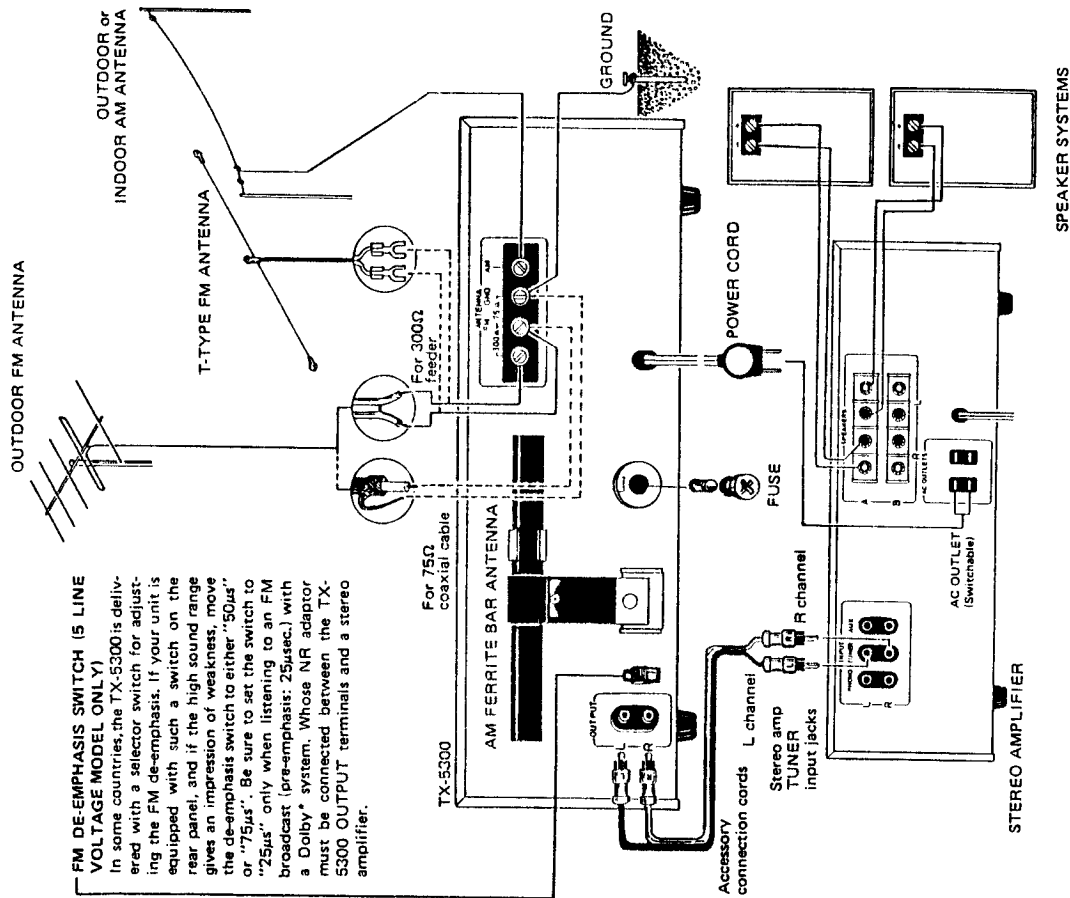
With the FUNCTION switch set to FM AUTO, red lamp lights when stereo broadcast is being received.



TUNING KNOB

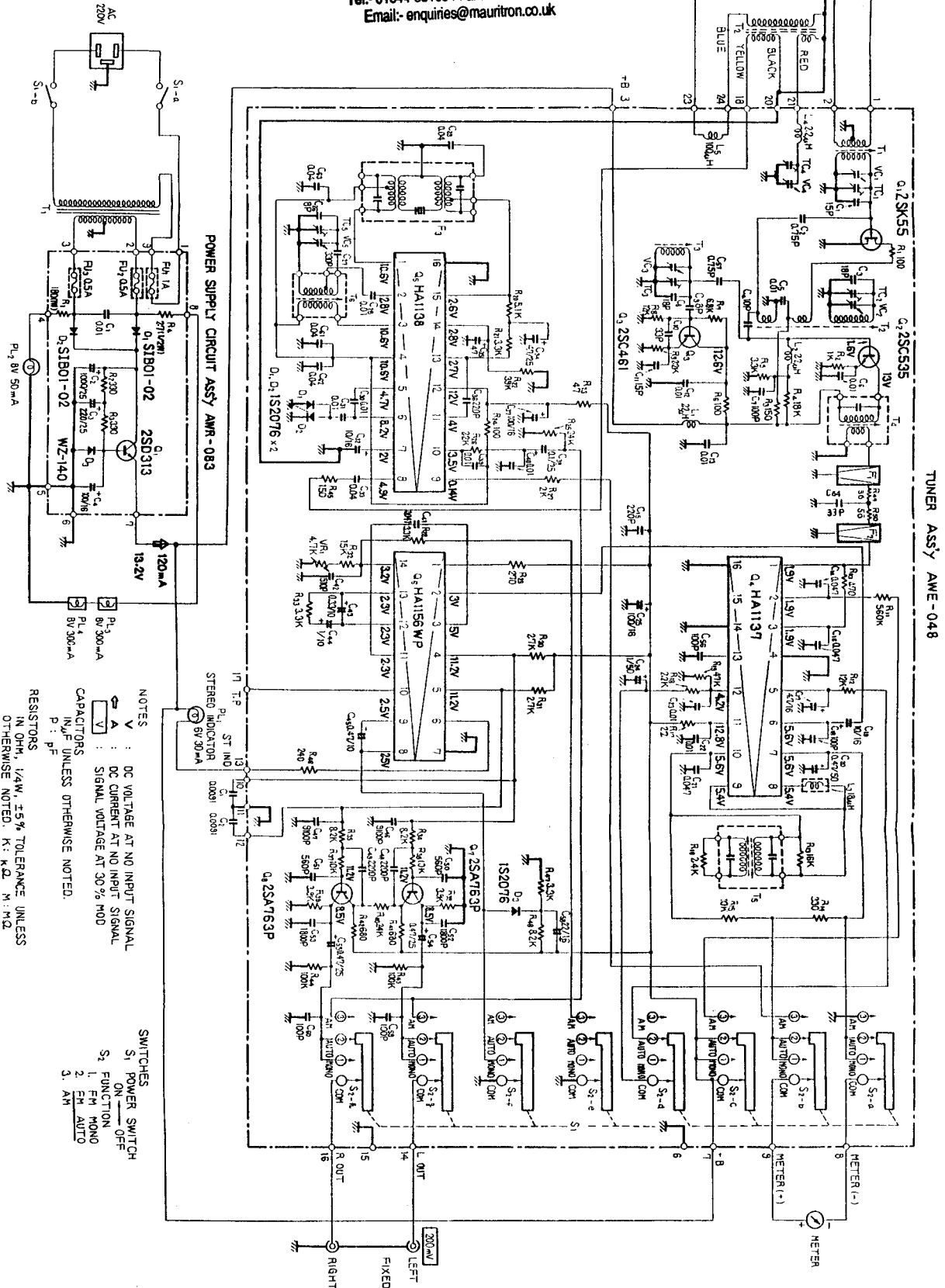
Employ for selecting stations. Observe AM/FM meter when tuning.

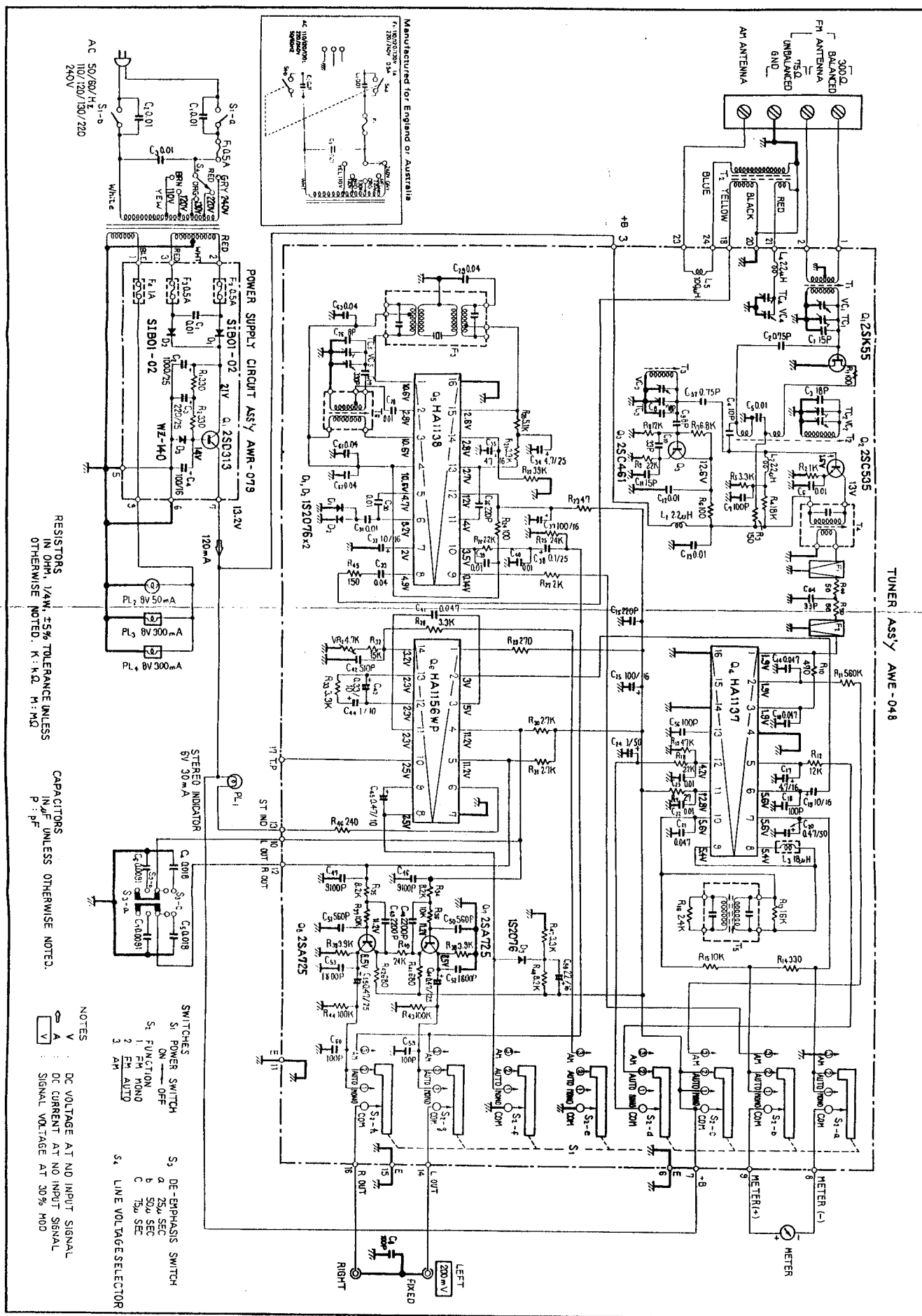
3. CONNECTION DIAGRAM



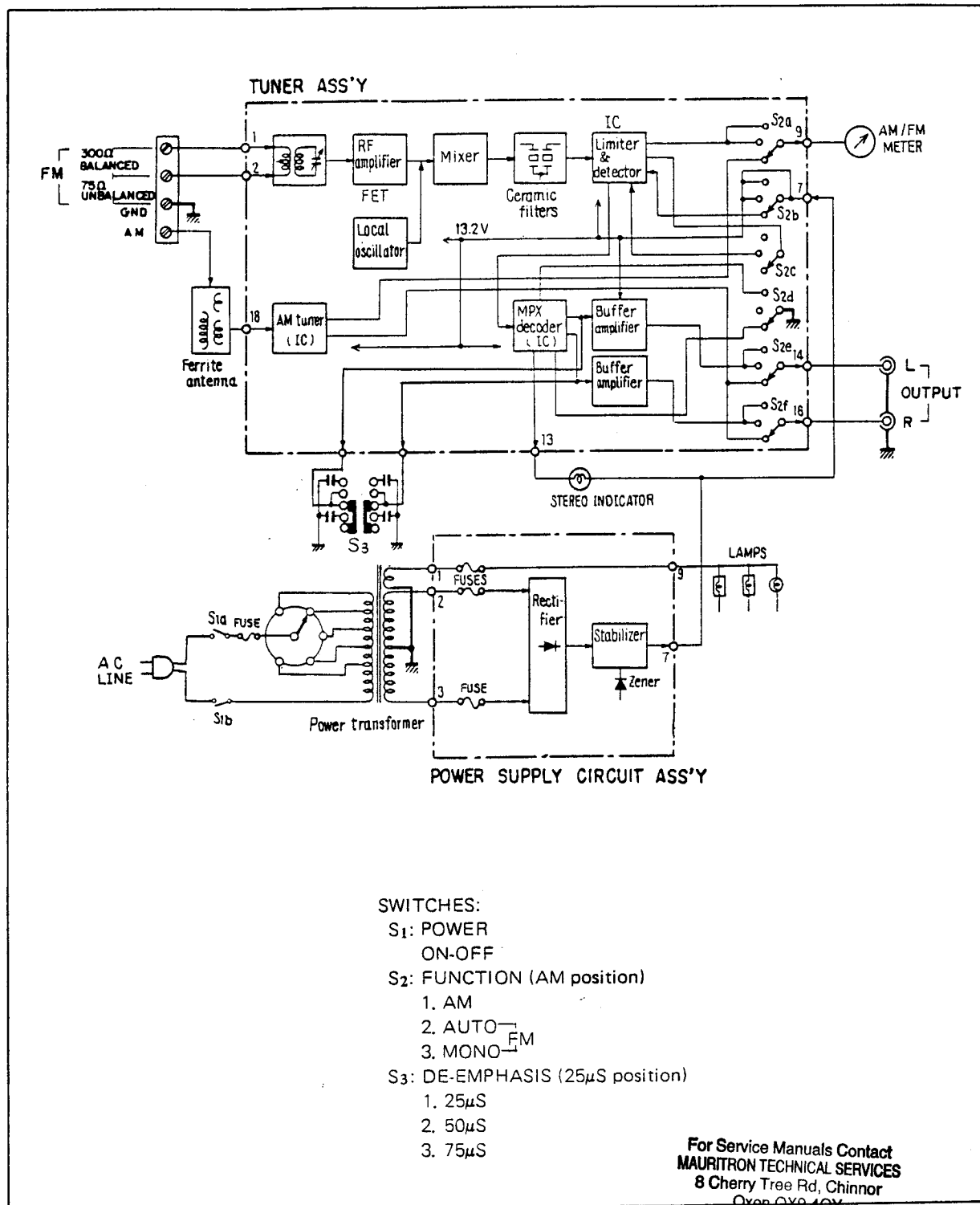
* The word "Dolby" is a trademark of Dolby Laboratories Inc.

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4. BLOCK DIAGRAM

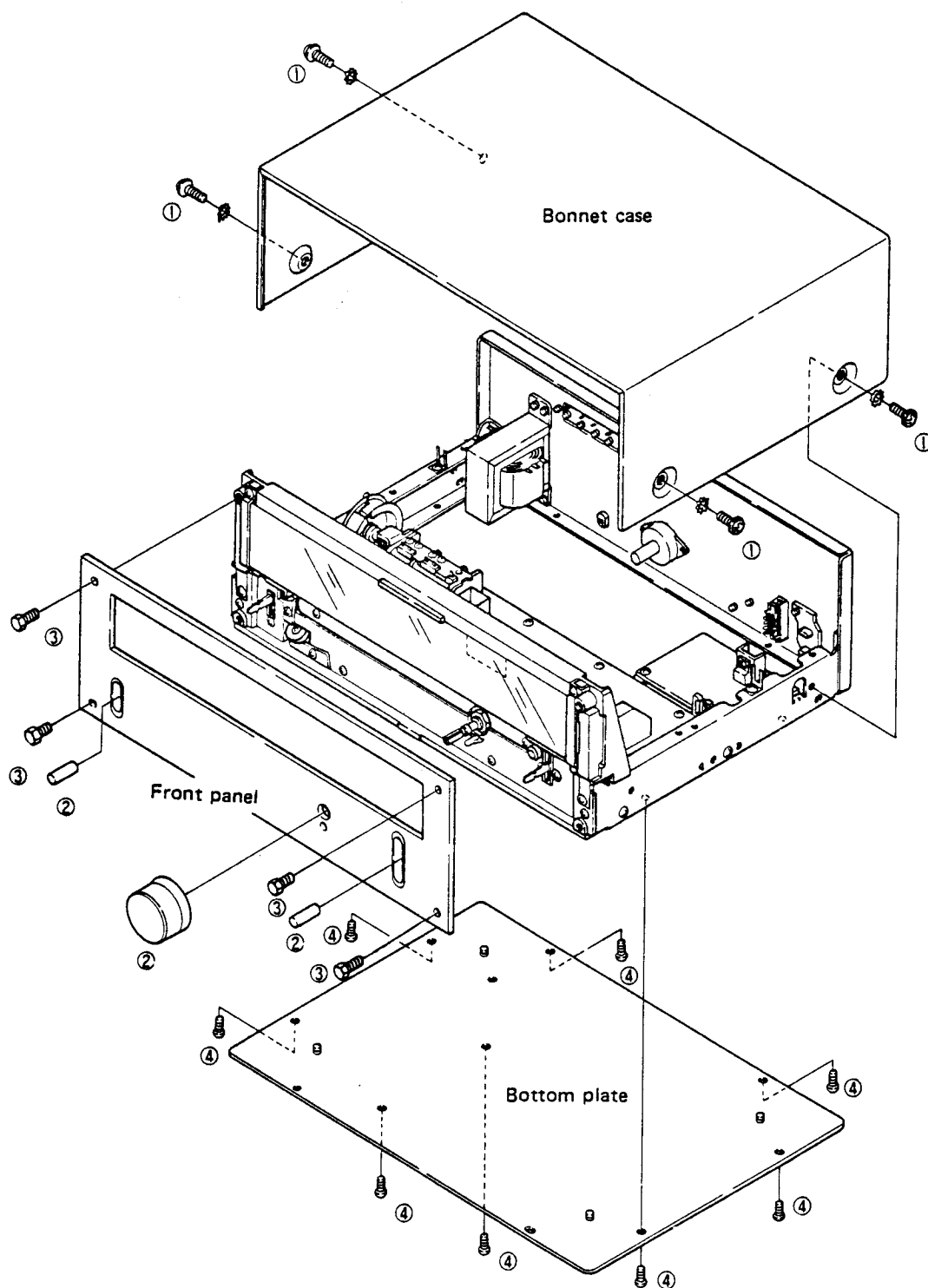


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5. DISASSEMBLY

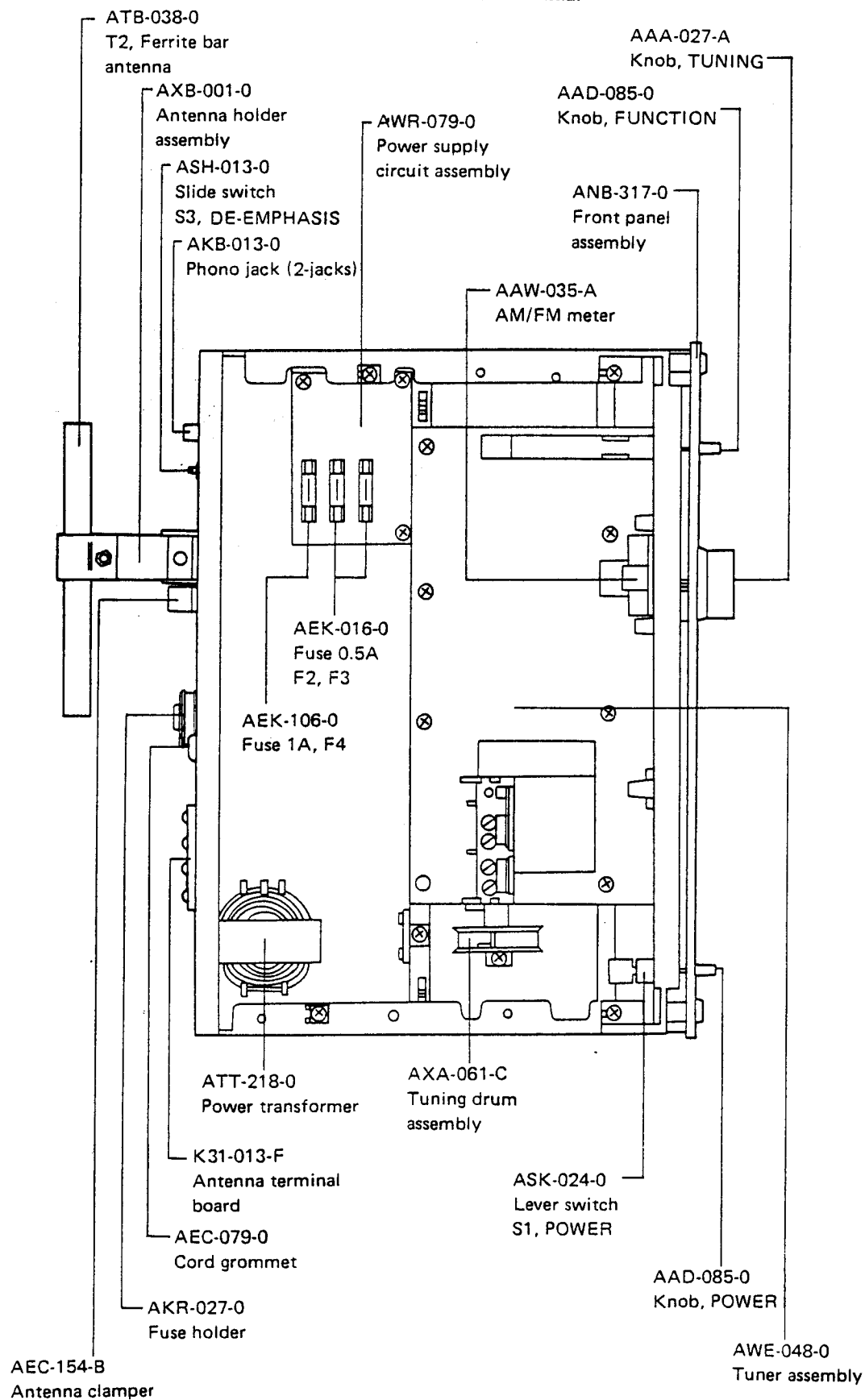
1. To remove the bonnet case, remove 2 screws each fastening either side and lift the bonnet case.
2. Pull off all the knobs.
3. To remove the front panel, remove 4 screws.
4. To remove the bottom plate, remove a total of 8 screws.



6. PARTS LOCATION

Top View

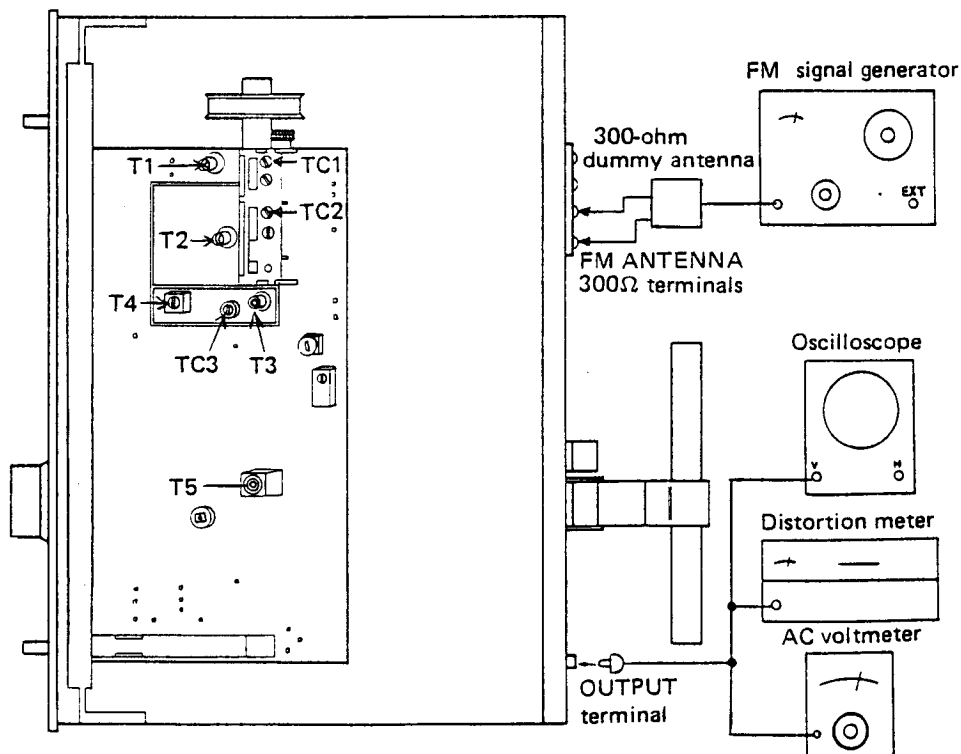
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7. ADJUSTMENTS

FM Section

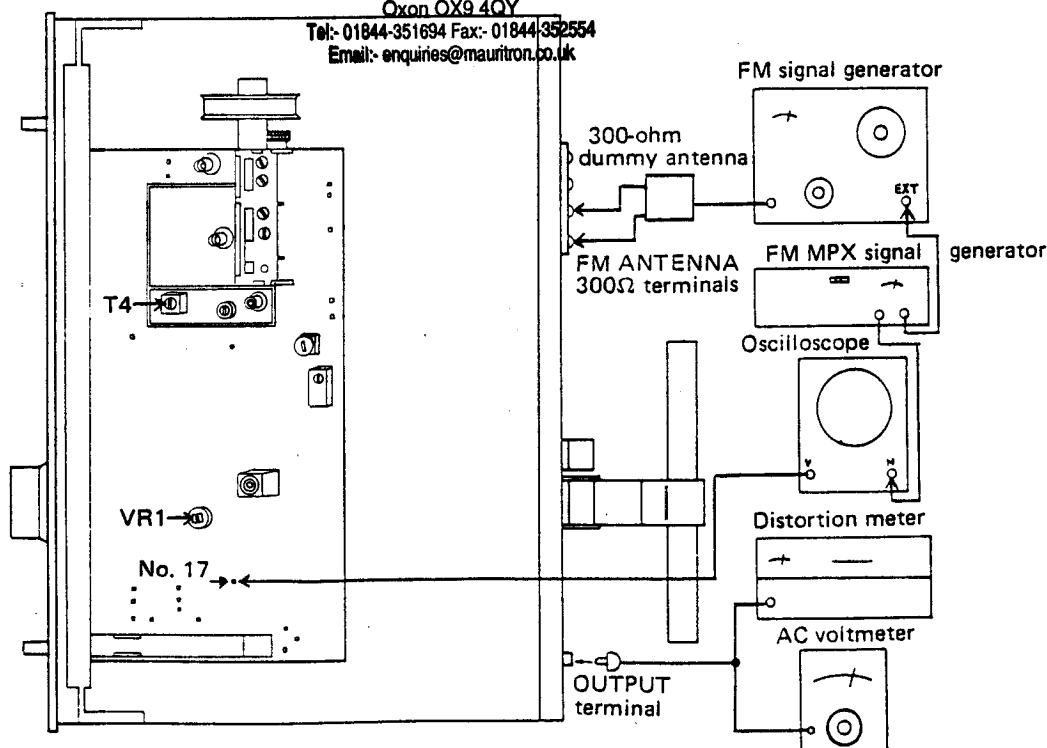
1. Switch positions on the TX-5300:
 FUNCTION FM MONO
 POWER ON
2. Connection of instruments:
 FM Signal Generator (FM SG).... Connect to FM ANTENNA terminals through 300 Ω dummy antenna.
 AC Voltmeter } Connect in parallel to OUTPUT
 Distortion meter } jack.
 Oscilloscope }
3. Set FM SG to 100% modulation (± 75 kHz deviation) at 400Hz and 100dB output.
4. Tune FM SG and TX-5300 to dial readings of 87.4MHz (left scale end).
5. Adjust T5 (lower core) so that AM/FM meter points to the center.
6. Set FM SG output to 8 ~ 10dB and adjust T1, T2 and T3 to maximize audio frequency output level.
7. Tune FM SG and TX-5300 to dial readings of 106MHz.
8. Set FM SG output to 8 ~ 10dB and adjust TC1, TC2 and TC3 to maximize audio frequency output level.
- Repeat steps 4 through 8 so that output is maximized when the dial indicates the given frequencies.
9. Tune FM SG and TX-5300 to dial readings of 87.4MHz and adjust T4 to maximize audio frequency output level when FM SG output is 8 ~ 10dB.
10. Detune TX-5300 so that only noise is received.
11. Adjust T5 (lower core) so that AM/FM meter points to the center.
12. Tune FM SG and TX-5300 to dial readings of 98MHz. Fine tune TX-5300, observing AM/FM meter.
13. Set FM SG output to 60dB and adjust T5 (upper core) to minimize distortion.



FM MPX Section

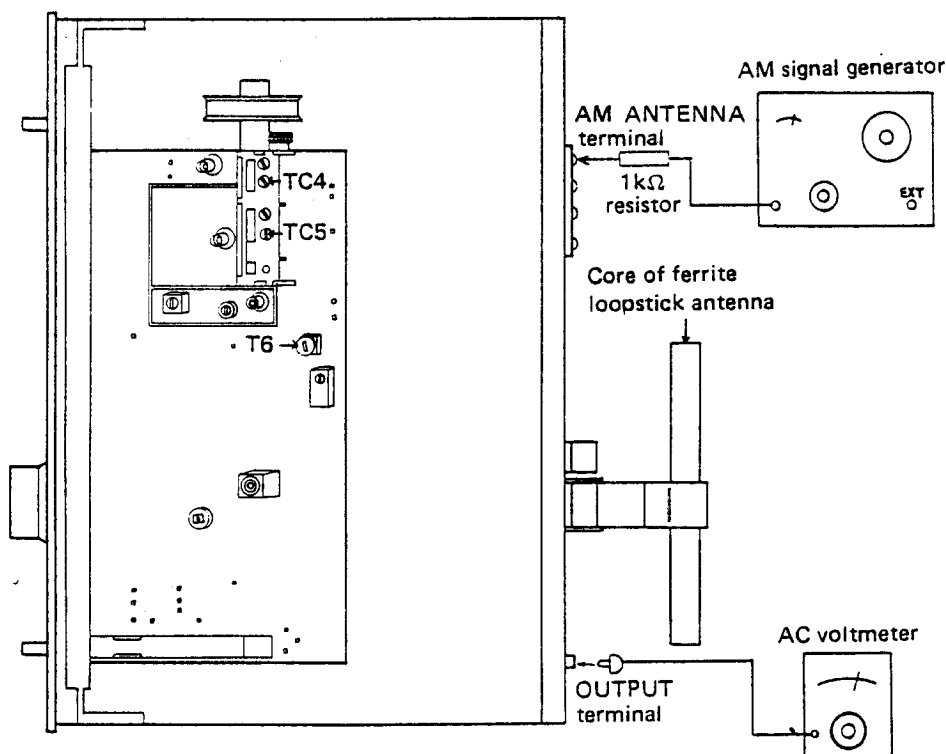
- The TX-5300 incorporates a PLL demodulator circuit. This adjustment should only be made when MPX IC has been replaced.
 - This adjustment should be made after completion of FM section adjustment.
1. Switch positions on the TX-5300:
 FUNCTION FM AUTO
 POWER ON
 2. Connection of instruments:
 FM Signal Generator (FM SG) ... Connect to FM ANTENNA terminals through 300 Ω dummy antenna.
 MPX Signal Generator (MPX SG) . Connect to FM SG's external modulator terminals.
 Oscilloscope Connect horizontal input to MPX SG's PILOT OUT terminals and vertical input to No. 17 terminal of tuner assembly.
 Distortion meter Connect to OUTPUT jack.
 3. Tune FM SG and TX-5300 to dial readings of 98MHz.
 4. Set MPX SG to ± 67.5 kHz deviation at 1kHz for left and right channels and FM SG output to 60dB.
 5. Produce a Lissajous pattern on oscilloscope and adjust VR1 to make the pattern still.
 6. Set MPX SG to ± 67.5 kHz deviation at 1kHz for left and right channels and to ± 7.5 kHz deviation for 19kHz pilot signal. Set FM SG output to 60dB.
 7. Adjust T4 to minimize distortion of audio frequencies for left or right channel.

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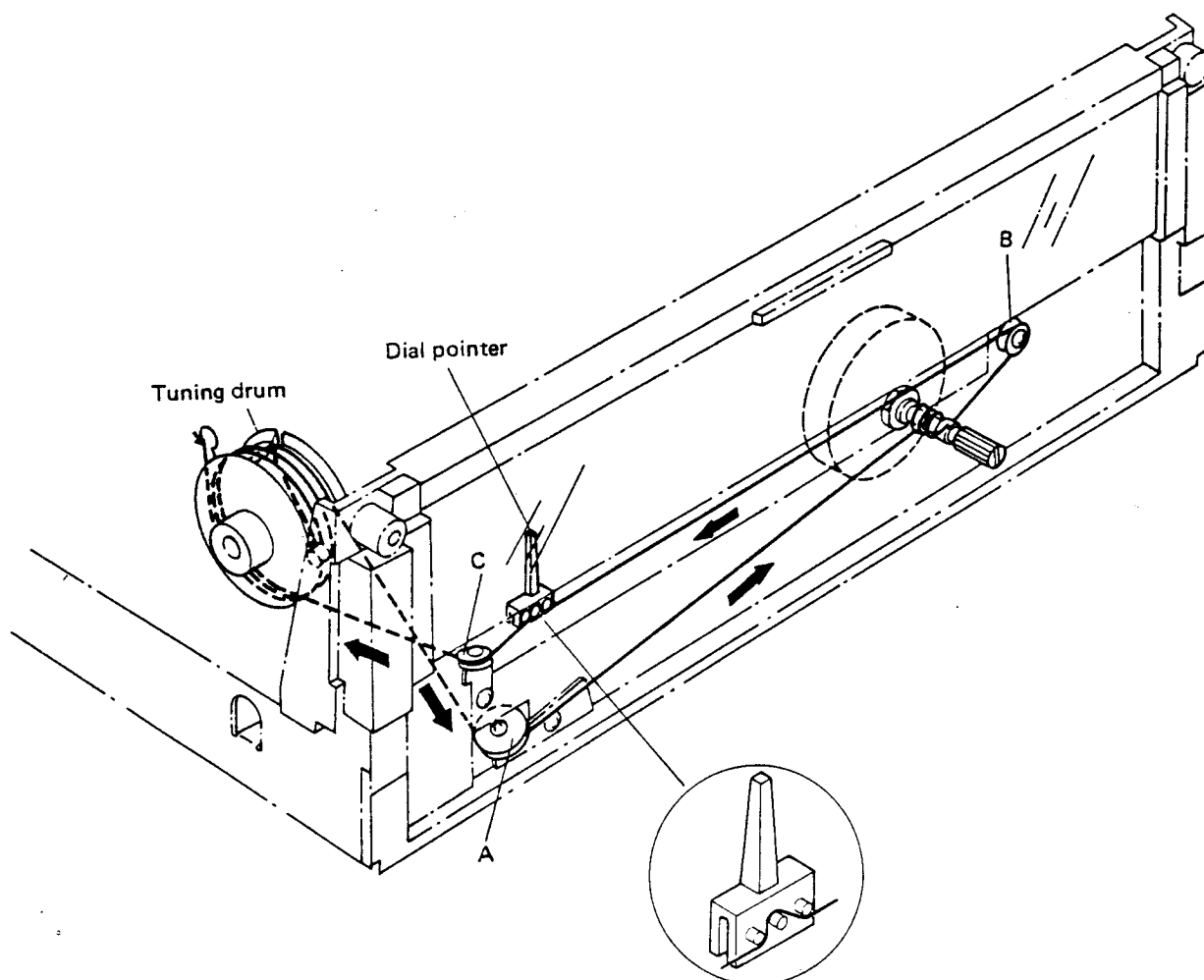
AM Section

1. Switch positions on the TX-5300:
 FUNCTION AM
 POWER ON
2. Connection of instruments:
 AM Signal Generator (AM SG) ... Connect to AM ANTENNA terminals in series with dummy antenna (1k Ω resistor).
 AC Voltmeter Connect to OUTPUT jack.
3. Set AM SG to 30% modulation at 400Hz and 30dB output.
4. Tune AM SG and TX-5300 to dial readings of 600kHz and adjust T6 to maximize audio frequency output level. (Adjust core of ferrite loopstick antenna at the same time.)
5. Tune AM SG and TX-5300 to dial readings of 1,400kHz and adjust TC4 and TC5 to maximize audio frequency output level.
- Repeat steps 4 and 5 so that output is maximized when the dial indicates these frequencies.



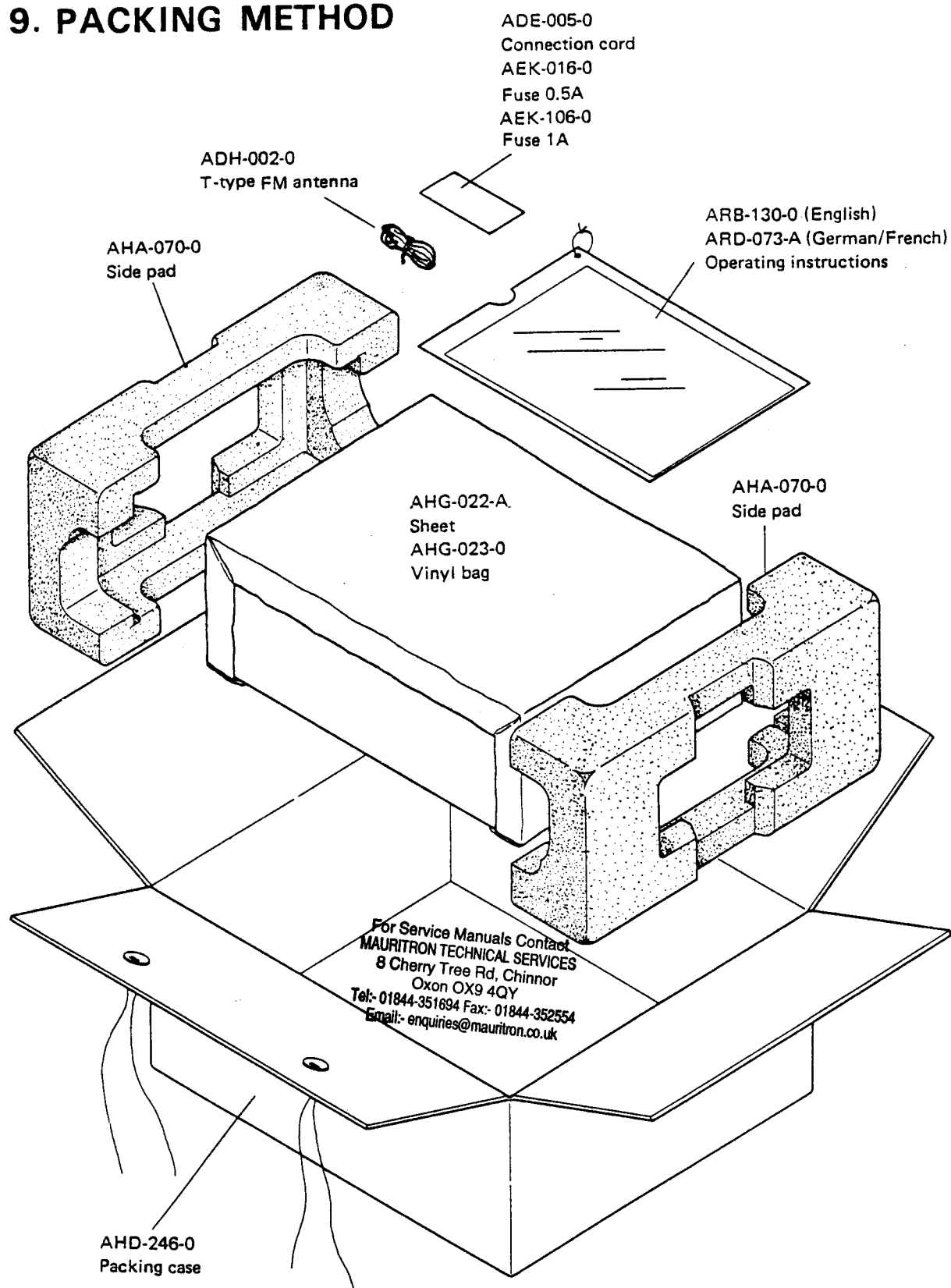
8. DIAL CORD STRINGING

1. Set the tuning capacitor to maximum capacitance, fully counterclockwise.
2. Fasten one end of the cord to the protrusion on the tuning drum and lead it round pulley A.
3. Wind the cord 3 turns round the tuning shaft and run it round pulleys B and C.
4. Wind the cord 2 turns round the dial pulley and tie the end to the spring while tensioning the spring slightly.
5. Confirm that dial stringing moves smoothly. If so, cut the unnecessary portion of string.
6. Turn the tuning knob fully counterclockwise and fix the dial pointer to string so that it indicates low end on the dial scale.



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9. PACKING METHOD



10. EXPLODED VIEW AND PARTS LIST

NOTE:

Parts number is subject to change for the purpose of improvement with notice of a service bulletin.

Service bulletin will be furnished whenever necessary and you are requested to amend parts number in this manual according to the instructions.

Parts List of Exploded View

NOTICE: Any parts asterisked (*) are subject to being not supplied.

Key No.	Description	Part No.	
1	Tuning drum assembly	AXA-061-C	
2	Tuner assembly	AWE-048-0	
3*	Dial scale plate holder	AEB-066-A	
4*	Rubber clasper	ANF-273-0	
5	Dial scale	AAG-090-0	
6	Lamp holder	AKK-002-0	
7	Lamp 8V, 300mA, dial scale (PL3~4)	E22-032-0	bar type
8*	Insulator (L)	AEC-170-B	
9	Front panel	ANB-317-0	Including 35, 36
10			
11	Screw, front panel	ABA-021-A	
12	Knob (FUNCTION, POWER)	AAD-085-0	
13	Knob (TUNING)	AAA-027-A	
14	Power transformer (T1)	ATT-218-0	
15	Terminal strip 2P	AKC-030-0	
16	Wire clip (B)	AEC-005-0	
17*	Side frame	ANF-270-C	
18	Lever switch (S1, POWER)	ASK-024-0	
19	Lamp 8V, 50mA (PL2, meter)	AEL-026-0	with leads
20	Rubber tube	AEB-065-0	
21	AM/FM meter	AAW-035-A	
22	Tuning shaft assembly	AXA-066-0	
23*	Center frame	ANF-272-A	
24*	Front frame	ANF-271-A	
25	Lamp 6V, 30mA (PL1, stereo ind.)	AEL-017-A	
26	Flat washer	B 22-012-0	
27*	Panel stay	AEC-163-B	
28	Pulley shaft	M49-025-E	
29	Pulley (small)	AEC-017-0	
30	Pulley-held metal	ANG-109-0	
31	Pulley (large)	AEC-101-0	
32	Pulley-held metal	ANG-110-0	
33	Dial pointer guide plate	AND-078-0	
34	Dial pointer	AAF-032-0	
35	Spacer	AEC-166-0	attached 9
36	Spacer	AEC-168-0	attached 9
37	Insulator (R)	AEC-173-B	
38	Bonnet	ANE-082-0	
39	Screw, bonnet, M4x8	ABA-079-A	
40	Claw washer	B21-011-0	

Continued on the Next Page

NOTICE: Any parts asterisked (*) are subject to being not supplied.

Key No.	Description	Part No.	
41	Antenna terminal board	K31-013-F	
42*	Rear panel	ANC-156-0	
43	Cord grommet	AEC-079-0	
44	AC power cord	ADG-004-0	
45	Antena clamper	AEC-154-B	
46	Power supply circuit assembly	AWR-079-0	
47*	Ground terminal strip (2P)	K13-048-0	
48	Phono jack (2-jacks)	AK8-013-0	
49*	Bottom plate	ANE-061-0	
50	Foot	AEC-083-A	
51	Antenna holder assembly	AXB-001-0	
52	Ferrite bar antenna (T2)	ATB-038-0	
53	Slide switch (S3, DE-EMPHASIS)	ASH-013-0	
54	Lock plate	AEC-199-0	
55	Fuse holder (line voltage selector)	AKR-027-0	
56			
57	Pulley shaft	ALA-017-0	
58	Washer (t = 1 mm)	M45-086-0	
59	Nut (9φ)	B71-004-0	

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Exploded View

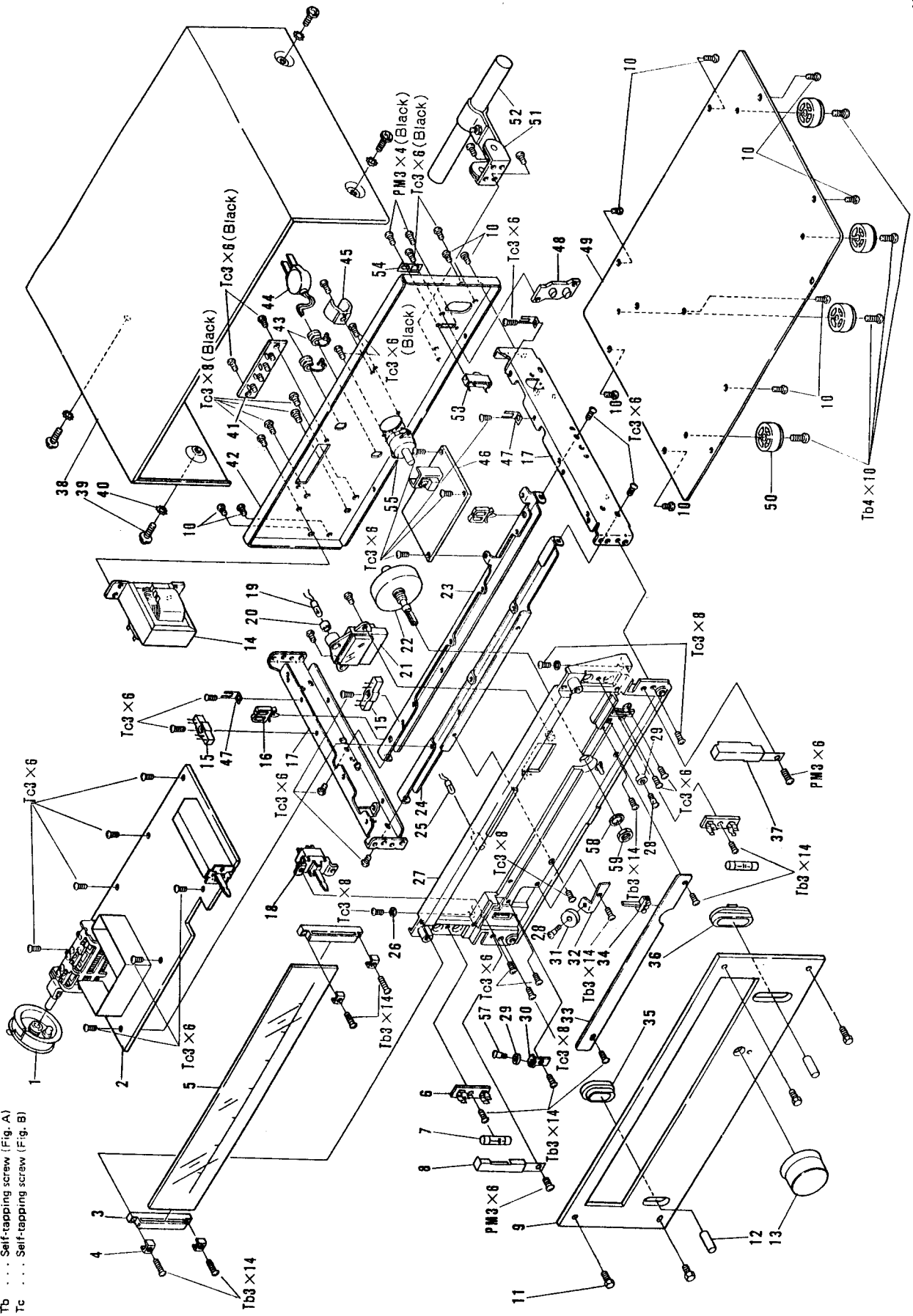
NOTE:

The following Symbols Stand for Screws.

PM . . . Pan head machine screw

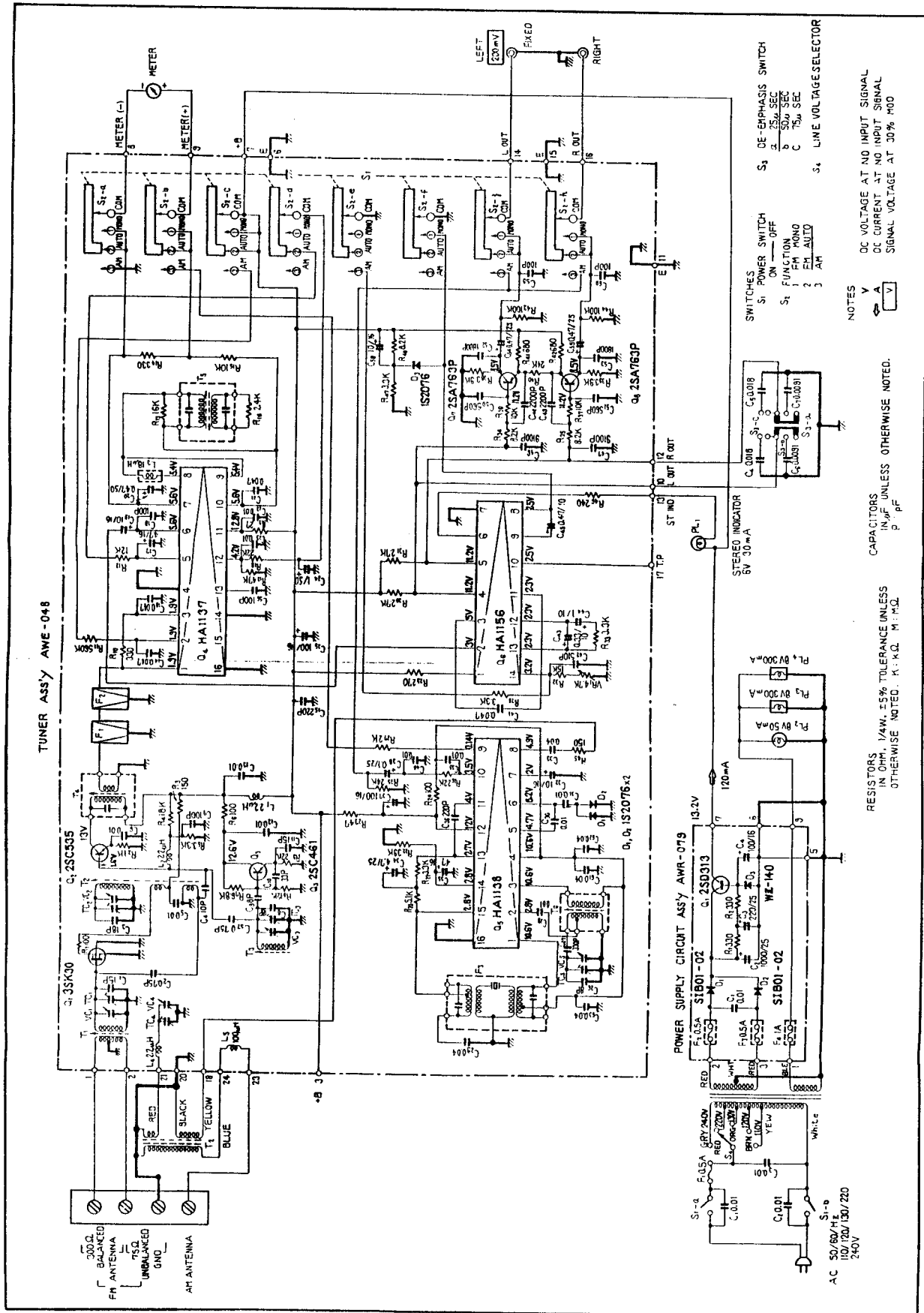
Tb . . . Self-tapping screw (Fig. A)

Tc . . . Self-tapping screw (Fig. B)



11. SCHEMATIC DIAGRAMS, P.C. BOARD PATTERNS AND PARTS LIST

11.1 SCHEMATIC DIAGRAM



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11.2 ELECTRO-PARTS LIST

- CAPACITORS: IN μ F UNLESS OTHERWISE NOTED μ pF
- RESISTORS: IN Ω , 1/4W UNLESS OTHERWISE NOTED k: Ω , M: Ω

CAPACITORS

Symbol	Description	Part No.
C1	Ceramic	ACG-001-0
C2	Ceramic	ACG-001-0
C3	Ceramic	ACG-001-0
C4	MyIar	QOMA 183J 50
C5	MyIar	QOMA 183J 50
C6	MyIar	QOMA 912J 50
C7	MyIar	QOMA 912J 50

LAMPS, FUSES

Symbol	Description	Part No.
PL1	Lamp, 6V 30mA (STEREO IND.)	AEL-017-A
PL2	Lamp, 8V 50mA (AM/FM meter)	AEL-026-0
PL3	Lamp, 8V 300mA (dial scale)	E22-032-0
PL4	Lamp, 8V 300mA (dial scale)	E22-032-0
F1	Fuse 0.5A (primary)	AEK-016-0
F2	Fuse 0.5A (secondary)	AEK-016-0
F3	Fuse 0.5A (secondary)	AEK-016-0
F4	Fuse 1 A (lamps)	AEK-106-0

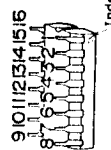
OTHERS

Symbol	Description	Part No.
S1	Lever switch (POWER)	ASK-024-0
S3	Slide switch (D.E. EMPHASIS)	ASH-013-0
T1	Power transformer	ATT-218-0
T2	Ferrite bar antenna	ATB-038-0

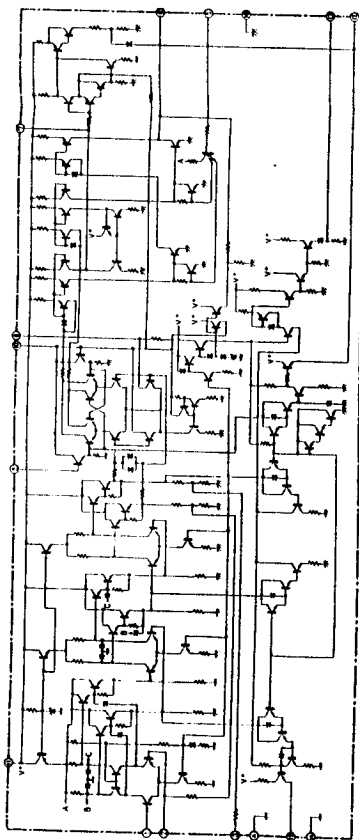
HA1137

HA1138

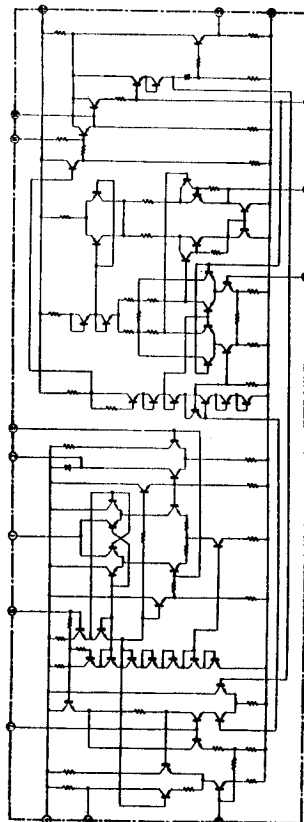
HA1156



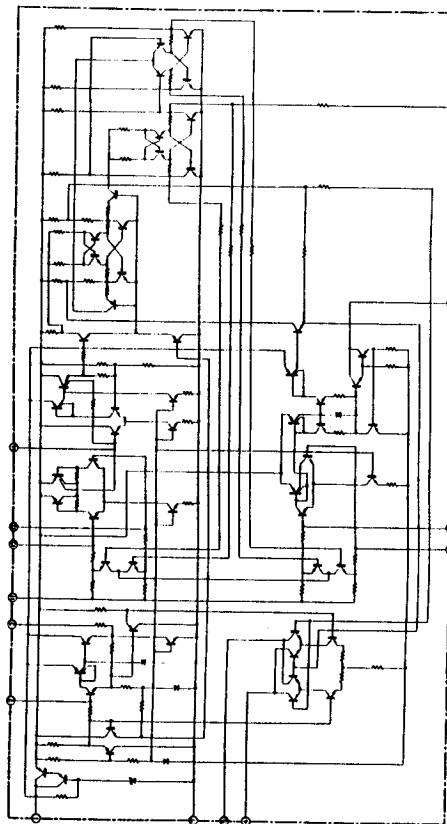
HA1137 (FM IF IC)



HA1138 (AM IC)

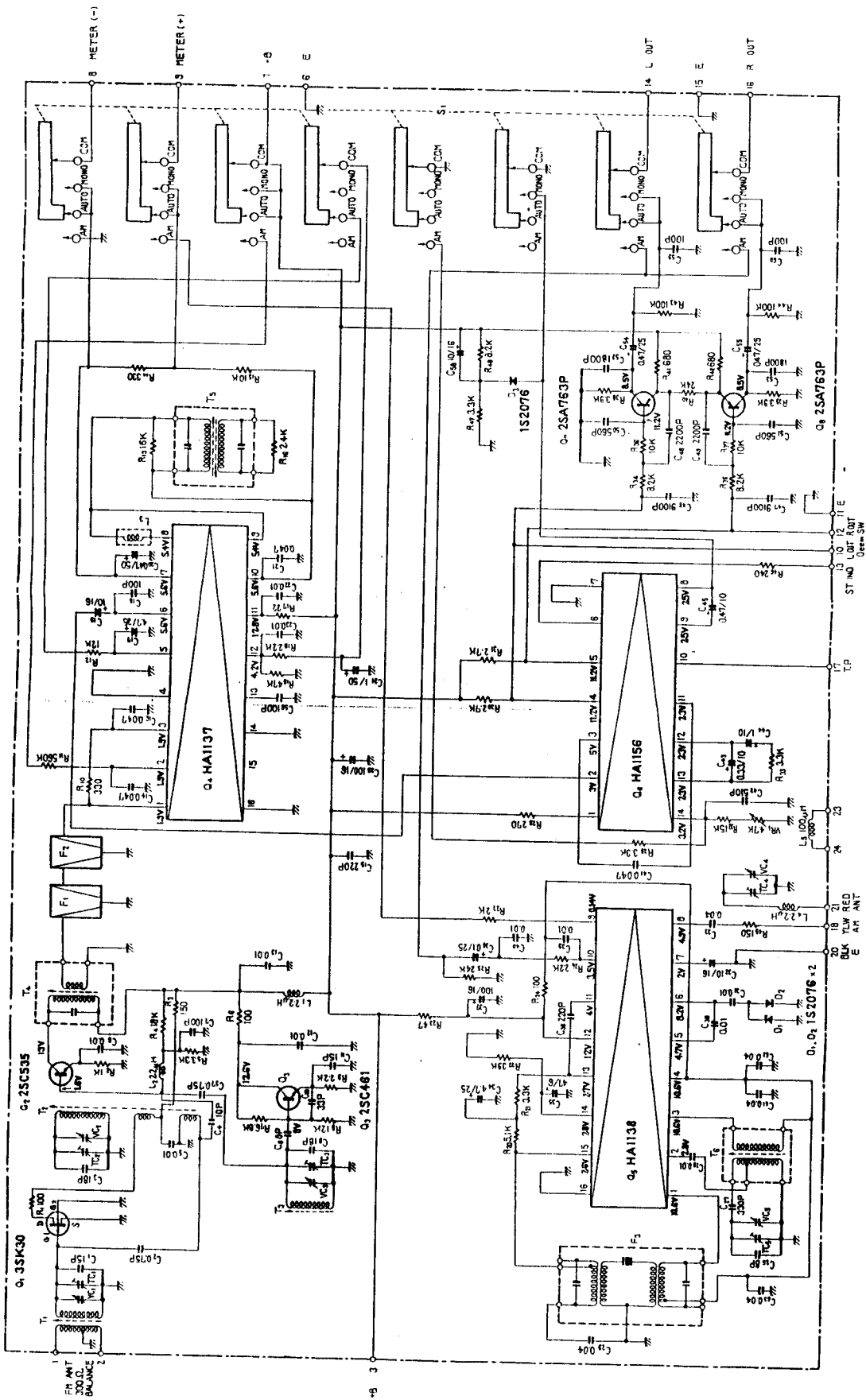


HA1156 (FM MPX IC)



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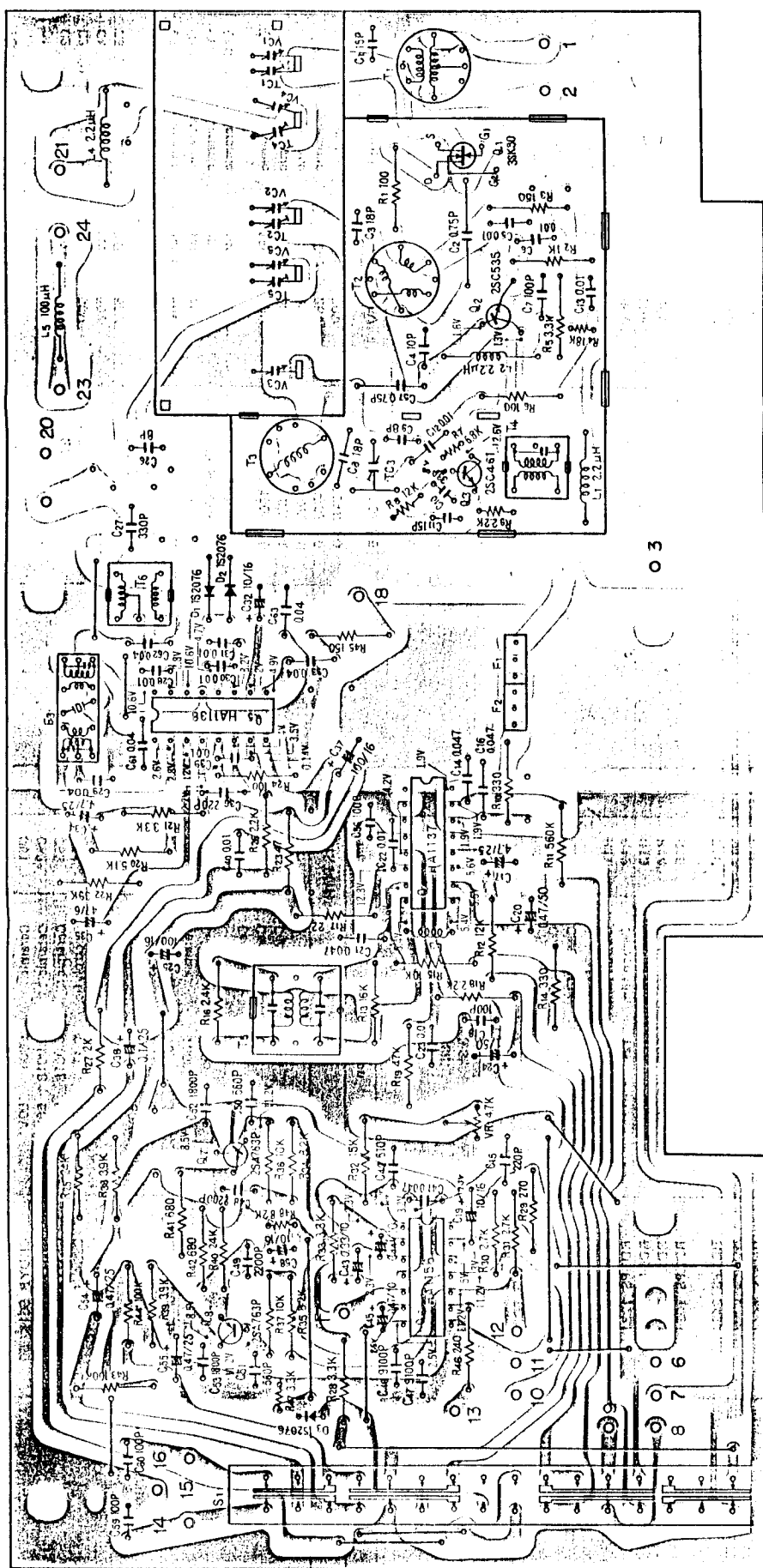
11.3 TUNER ASSEMBLY (AWE-048-0)



TOTAL CURRENT	(TYP 75 mA) (MAX 98 mA)
FM POSITION	(TYP 65 mA) (MAX 88 mA)
AM POSITION	

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Foil Side



- 3SK30  G2 G1
- 2SC535  B C E
- 2SC461  B C E
- HA1137  Index
- HA1138  Index
- HA1156  Index
- 890112B14  Index
- 2SA763P  B C E
- (2SA725)  E C B
- (2SK55)  G S D

Part List of Tuner Assembly (AWE-048-0)

CAPACITORS

Symbol	Description	Part No.
VC	Tuning capacitor	ACK-012-0
TC3	Ceramic trimmer	C43-007-A
C1	Ceramic 15p	CCDTH 150K 50
C2	Ceramic 0.75p	CGB R75K 500
C3	Ceramic 18p	CCDTH 180K 50
C4	Ceramic 10p	CCDSL 100K 50
C5	Ceramic 0.01	CKDYF 103Z 50
C6	Ceramic 0.01	CKDYF 103Z 50
C7	Ceramic 100p	CCDSL 101K 50
C8	Ceramic 18p	CCDTH 180K 50
C9	Ceramic 8p	CCDCH 080F 50
C10	Ceramic 33p	CCDCH 330K 50
C11	Ceramic 15p	CCDCH 150K 50
C12	Ceramic 0.01	CKDYB 103K 50
C13	Ceramic 0.01	CKDYF 103Z 50
C14	Ceramic 0.047	CKDBC 473Z 25
C15	Ceramic 220p	CCDSL 221K 50
C16	Ceramic 0.047	CKDBC 473Z 25
C17	Electrolytic 4.7	CEA 4R7P 25
C18	Ceramic 100p	CCDSL 101K 50
C19	Electrolytic 10	CEA 100P 16
C20	Electrolytic 0.47	CEA R47P 50
C21	Ceramic 0.047	CKDBC 473Z 25
C22	Ceramic 0.01	CKDYF 103Z 50
C23	Ceramic 0.01	CKDYF 103Z 50
C24	Electrolytic 1	CEA 010P 50
C25	Electrolytic 100	CEA 101P 16
C26	Ceramic 8p	CCDXL 080F 50
C27	Styrol 330p	CQSA 331J 50
C28	MyIar 0.01	CQMA 103K 50
C29	Ceramic 0.04	CKDYF 403Z 50
C30	Ceramic 0.01	CKDYF 103Z 50
C31	Ceramic 0.01	CKDYF 103Z 50
C32	Electrolytic 10	CEA 100P 16
C33	Ceramic 0.04	CKDYF 403Z 50
C34	Electrolytic 4.7	CEA 4R7P 25
C35	Electrolytic 47	CEA 470P 6
C36	Ceramic 220p	CCDSL 221K 50
C37	Electrolytic 100	CEA 101P 16
C38	Electrolytic 0.1	CSSA 0R1M 25
C39	Ceramic 0.01	CKDYB 103K 50
C40	Ceramic 0.01	CKDYB 103K 50
C41	MyIar 0.047	CQMA 473K 50
C42	Styrol 510p	CQSH 511J 50
C43	Electrolytic 0.33	CSSA R33M 10
C44	Electrolytic 1	CSSA 010M 10
C45	Electrolytic 0.47	CSSA R47M 10

Symbol	Description	Part No.
C46	MyIar 0.0091	CQMA 912J 50
C47	MyIar 0.0091	CQMA 912J 50
C48	Ceramic 0.0022	CKDYB 222K 50
C49	Ceramic 0.0022	CKDYB 222K 50
C50	Ceramic 560p	CKDYB 561K 50
C51	Ceramic 560p	CKDYB 561K 50
C52	Ceramic 0.0018	CKDYB 182K 50
C53	Ceramic 0.0018	CKDYB 182K 50
C54	Electrolytic 0.47	CSSA R47M 25
C55	Electrolytic 0.47	CSSA R47M 25
C56	Ceramic 100p	CCDSL 101K 50
C57	Ceramic 0.75p	CGB R75K 500
C58	Electrolytic 10	CEA 100P 16
C59	Ceramic 100p	CCDSL 101K 50
C60	Ceramic 100p	CCDSL 101K 50
C61	Ceramic 0.04	CKDYF 403Z 50
C62	Ceramic 0.04	CKDYF 403Z 50
C63	Ceramic 0.04	CKDYF 403Z 50
C64	Ceramic 0.04	CKDYF 403Z 50

RESISTORS

Symbol	Description	Part No.
R1	Carbon film 100	RD4PS 101J
R2	Carbon film 1k	RD4PS 102J
R3	Carbon film 15k	RD4PS 151J
R4	Carbon film 18k	RD4VS 183J
R5	Carbon film 3.3k	RD4PS 332J
R6	Carbon film 100	RD4PS 101J
R7	Carbon film 6.8k	RD4VS 682J
R8	Carbon film 12k	RD4VS 123J
R9	Carbon film 2.2k	RD4VS 222J
R10	Carbon film 330	RD4PS 331J
R11	Carbon film 560k	RD4PS 564J
R12	Carbon film 12k	RD4PS 123J
R13	Carbon film 16k	RD4PS 163J
R14	Carbon film 330	RD4PS 331J
R15	Carbon film 10k	RD4PS 103J
R16	Carbon film 2.4k	RD4PS 242J
R17	Carbon film 22	RD4PS 220J
R18	Carbon film 2.2k	RD4PS 222J
R19	Carbon film 47k	RD4PS 473J
R20	Carbon film 5.1k	RD4PS 512J
R21	Carbon film 3.3k	RD4PS 332J
R22	Carbon film 39k	RD4PS 393J
R23	Carbon film 47	RD4PS 470J
R24	Carbon film 100	RD4PS 101J
R25	Carbon film 24k	RD4PS 243J

Symbol	Description	Part No.
R26	Carbon film 2.2k	RD4PS 222J
R27	Carbon film 2k	RD4PS 202J
R28	Carbon film 3.3k	RD4PS 332J
R29	Carbon film 270	RD4PS 271J
R30	Carbon film 2.7k	RD4PS 272J
R31	Carbon film 2.7k	RD4PS 272J
R32	Carbon film 15k	RD4PS 153J
R33	Carbon film 3.3k	RD4PS 332J
R34	Carbon film 8.2k	RD4PS 822J
R35	Carbon film 8.2k	RD4PS 822J
R36	Carbon film 10k	RD4PS 103J
R37	Carbon film 10k	RD4PS 103J
R38	Carbon film 3.9k	RD4PS 392J
R39	Carbon film 3.9k	RD4PS 392J
R40	Carbon film 24k	RD4PS 243J
R41	Carbon film 680	RD4PS 681J
R42	Carbon film 680	RD4PS 681J
R43	Carbon film 100k	RD4PS 104J
R44	Carbon film 100k	RD4PS 104J
R45	Carbon film 150	RD4PS 151J
R46	Carbon film 240	RD4PS 241J
R47	Carbon film 3.3k	RD4VS 332J
R48	Carbon film 8.2k	RD4VS 822J
VR1	Semi-fixed 4.7k-B	C92-051-0

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	FET 3SK30-B (2SK55-D)	For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel: 01844-351694 Fax: 01844-352554 Email: enquiries@mauratron.co.uk
Q2	Transistor 2SC535-A or B	
Q3	Transistor 2SC461-B	
Q4	IC HA1137	
Q5	IC HA1138	
Q6	IC HA1156	
Q7	Transistor 2SA763P-6 or 5 (2SA725-F or G)	
Q8	Transistor 2SA763P-6 or 5 (2SA725-F or G)	
D1	Diode 1S 2076 (1S 2473)	
D2	Diode 1S 2076 (1S 2473)	
D3	Diode 1S 2076 (1S 2473)	

TRANSFORMERS, COILS

Symbol	Description	Part No.
T1	FM antenna coil	ATC-030-0
T2	FM RF coil	ATC-024-0
T3	FM oscillator coil	ATC-031-0
T4	FM matching transformer	ATE-008-A
T5	FM IF transformer	T73-035-A

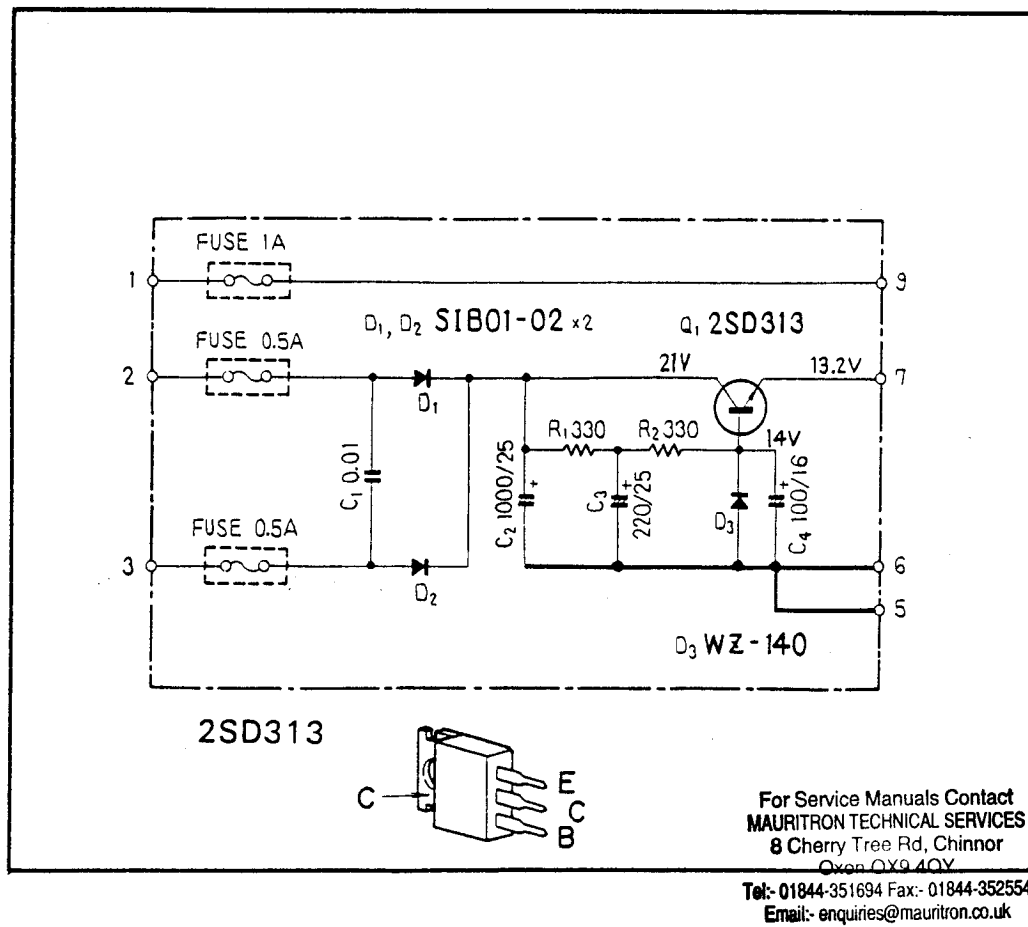
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Symbol	Description	Part No.	
T6	AM oscillator coil	ATB-039-0	
F1	FM ceramic filter	ATF-013-B	
F2	FM ceramic filter	ATF-013-B	
F3	AM ceramic filter	ATF-027-0	
L1	RF choke coil 2.2 μ H	T24-028-A	
L2	RF choke coil 2.2 μ H	T24-028-A	
L3	RF choke coil 18 μ H	ATH-007-0	
L4	RF choke coil 2.2 μ H	T24-028-A	
L5	RF choke coil 100 μ H	T24-030-A	

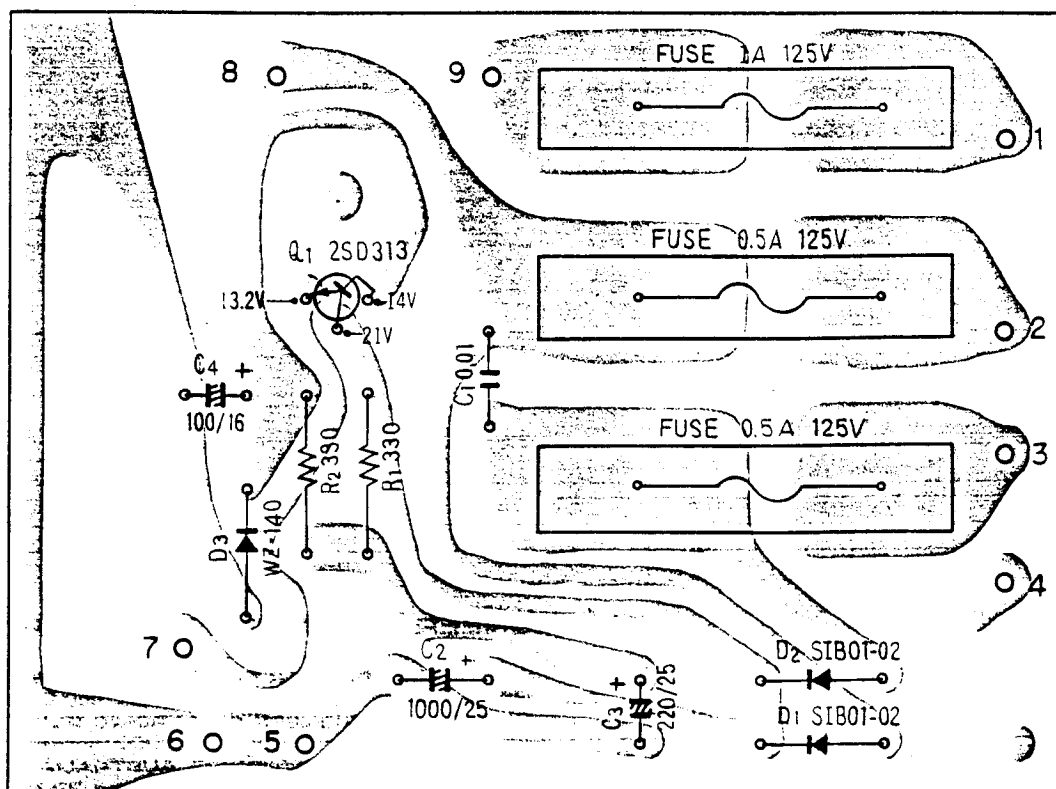
OTHERS

Symbol	Description	Part No.	
	Shield plate	ANH-114-0	
	Lever switch (FUNCTION)	ASK-082-0	

11.4 POWER SUPPLY CIRCUIT ASSEMBLY (AWR-079-0)



Foil Side



Parts List of Power Supply Circuit Assembly (AWR-079-0)

CAPACITORS

Symbol	Description	Part No.	
C1	Ceramic 0.01 150V	ACG-002-0	
C2	Electrolytic 1000 25V	CEA 102P 25	
C3	Electrolytic 220 25V	CEA 221P 25	
C4	Electrolytic 100 16V	CEA 101P 16	

RESISTORS

Symbol	Description	Part No.	
R1	Carbon film 330	RD4PS 331J	
R2	Carbon film 330	RD4PS 331J	

SEMICONDUCTORS

Symbol	Description	Part No.	
D1	Diode S1B01-02		
D2	Diode S1B01-02		
D3	Zener diode WZ-140		
Q1	Transistor 2SD313-E		

OTHERS

Symbol	Description	Part No.	
S1	Heat sink Fuse clip	ANH-117-0 AKR-013-0	

For Service Manuals Contact
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 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

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