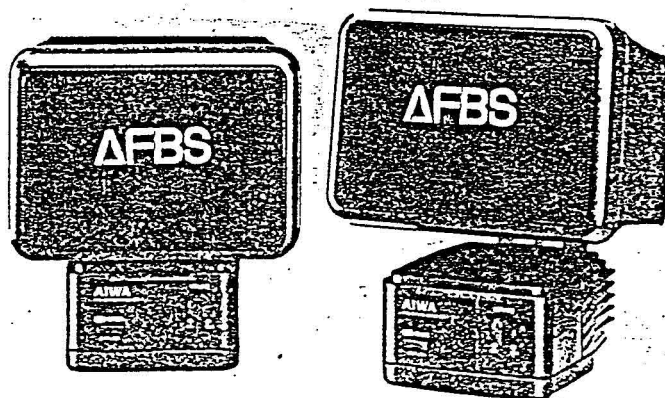


SERVICE MANUAL

MODEL NO. AFB-7

■AFBS SPEAKER SYSTEM

■TYPE. HB, UB, EB, KB



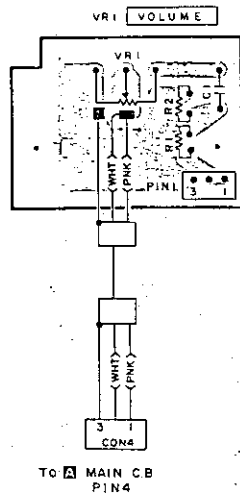
SPECIFICATIONS

Speaker type: Full-range enclosed type, AFBS method
Speaker unit: 100 mm cone type (magnetic shield type)
Frequency response: 65 to 20,000 Hz (10 dB damped)
Maximum output sound pressure level: 96 dB/m (at 1 kHz)
Rated input: AFB-7H, E, K 0.65V (PEAK, 1 kHz)
 AFB-7U 0.65V (1 kHz)
Rated output: 6W 4 ohm load, 1 kHz, 10% T.H.D.
 FTC Rule
 5 watts per channel, Min. RMS at 4 ohms, from 100 Hz to 20 kHz, with no more than 20% Total Harmonic Distortion.
Input terminals: 1 x pin-type input jack
Input impedance: 50k ohms or greater (1 kHz)
Power source: AFB-7H AC110-120V/220-240 switchable, 50/60 Hz
 AFB-7E AC220V, 50/60 Hz
 AFB-7K AC240V, 50/60 Hz
 AFB-7U AC120V, 60 Hz

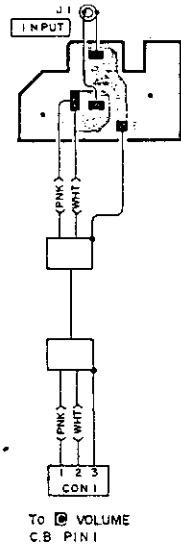
Power consumption: AFB-7H 11W
 AFB-7E 13W
 AFB-7K 15W
 AFB-7U ~ 7W
Dimensions: 170(W) x 185(H) x 161(D) mm
Weight: Approx. 2 kg

• Design and specifications are subject to change without notice.

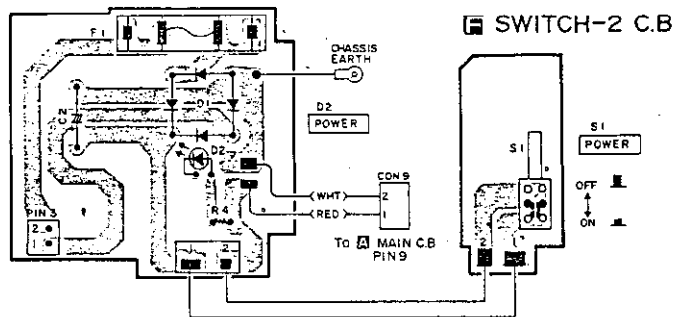
C VOLUME C.B



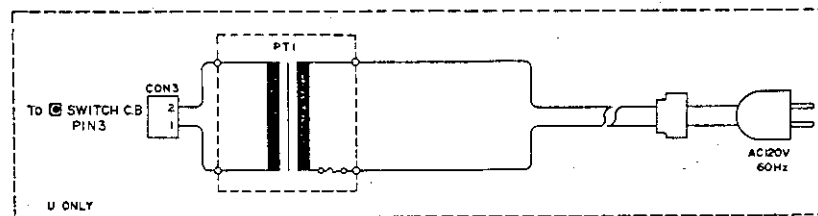
D INPUT C.B



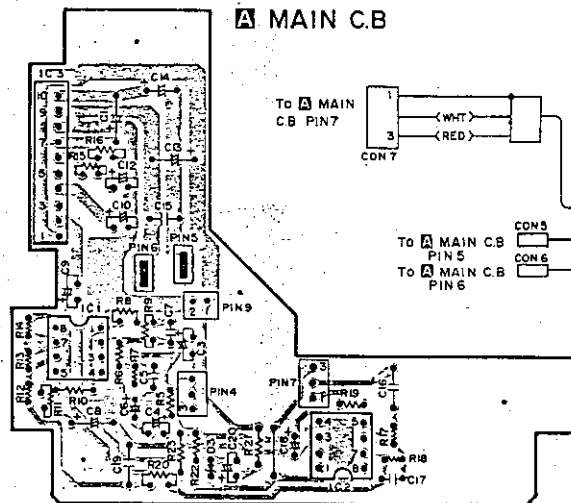
B SWITCH-1 C.B



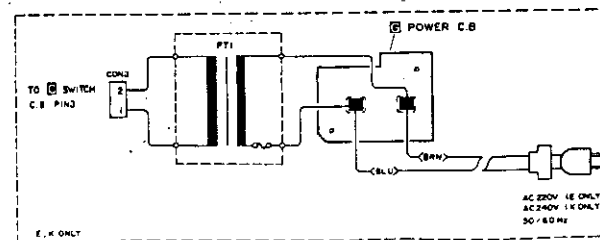
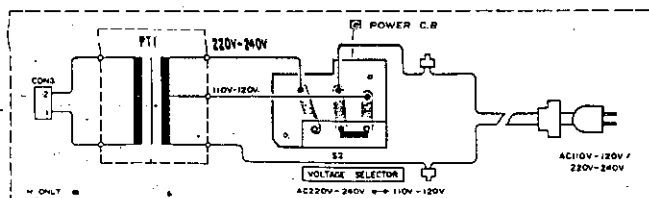
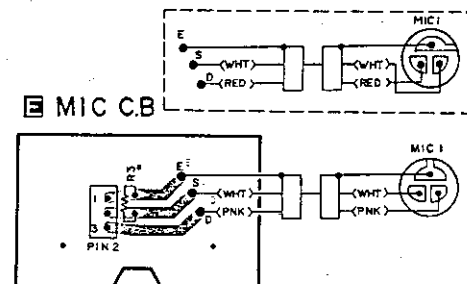
SWITCH-2 C.B



A MAIN C.B

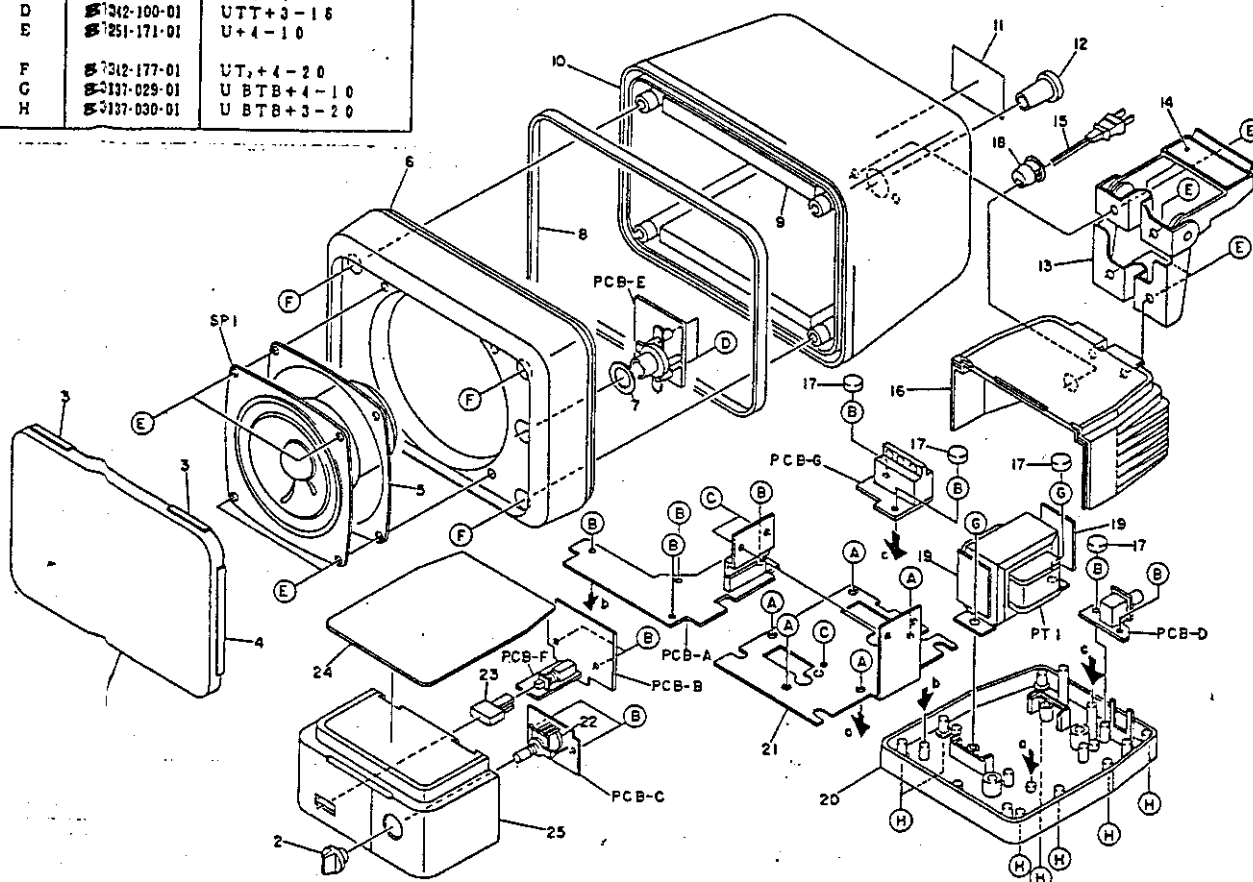


MIC C.B



EXPLODED VIEW

Ref. No.	Part No.	Description
A	*83-094-01	OTT+3-6
B	*83-096-01	UTT+3-10
C	*83-092-01	U+3-4
D	*83-100-01	UTT+3-16
E	*83-171-01	U+4-10
F	*83-177-01	UT+4-20
G	*83-137-029-01	U BTB+4-10
H	*83-137-030-01	U BTB+3-20



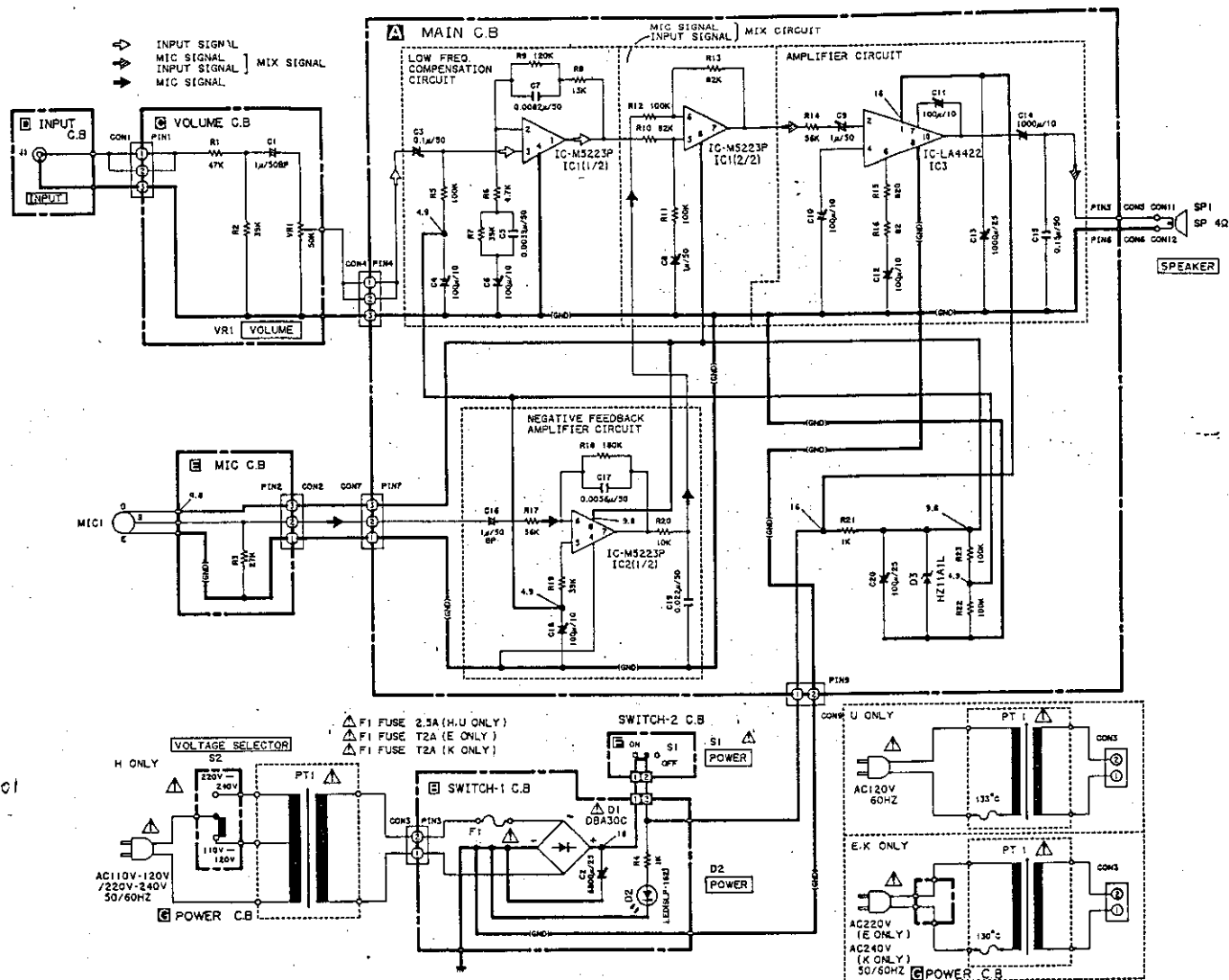
MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY	NO
1		*83-137-107	PANCHING NET ASSY	*	1	
2		83-009-020	KNOB, VOLUME	*	1	
3		*83-137-026	SPACER, PANCHING (30 mm)	*	4	
4		*83-137-025	SPACER, PANCHING (60 mm)	*	2	
5		---	UNIT PACKING		1	
6		---	SPEAKER BOX FRONT ASSY		1	
7		---	MIC PACKING		1	
8		---	RUBBER RING		1	
9		---	SOUND ABSORPTION MATERIAL		1	
10		---	SPEAKER BOX, REAR		1	
11		---	NAME PLATE, SPEC.		1	
12		*83-137-010	RUBBER BUSHING	*	1	
13		83-137-011	JOINT HINGE	*	1	
14		---	SHEET, JOINT HINGE		1	
15		*87-034-732	AC CORD ASSY (H ONLY)		1	
15		*87-034-578	AC CORD (U ONLY)		1	
15		*87-034-736	AC CORD (E ONLY)		1	
15		*87-034-734	AC CORD (K ONLY)		1	
16		---	ADAPTER CASE, REAR		1	
17		*82-752-206	NUT COVER (H, E, K ONLY)		1	
18		*87-085-184	AC CORD BUSHING (H, U ONLY)		1	
18		*87-085-185	AC CORD BUSHING (E, K ONLY)		1	
19		---	INSULATION SHEET		1	
20		*87-037-017	CASE, CIRCUIT BOARD (H, E, K ONLY)	*	1	
20		*87-037-125	CASE, CIRCUIT BOARD (U ONLY)	*	1	
21		---	PLATE, EARTH		1	
22		---	SPACER, VOLUME		1	
23		*83-137-020	KNOB, SWITCH		1	
24		---	SHEET ADAPTER		1	
25		---	ADAPTER CASE, FRONT		1	

ELECTRICAL MAIN PARTS LIST

SCHEMATIC DIAGRAM

Ref. No.	Part No.	Description
--- IC ---		
	83-099-626	IC, MS223P
	83-137-626	IC, LA4422
--- MAIN CIRCUIT BOARD SECTION ---		
PCB-A	83-137-655	MAIN CIRCUIT BOARD
C3	* 87-010-067	CAP, ELECT 0.1-50
C4	* 87-010-263	CAP, ELECT 100-10
C6	* 87-010-263	CAP, ELECT 100-10
C8	* 87-010-401	CAP, ELECT 1-50
C9	* 87-010-401	CAP, ELECT 1-50
C10	* 87-010-263	CAP, ELECT 100-10
C11	* 87-010-263	CAP, ELECT 100-10
C12	* 87-010-263	CAP, ELECT 100-10
C13	* 87-010-388	CAP, ELECT 1000-25
C14	* 87-010-236	CAP, ELECT 1000-10
C16	* 87-010-132	CAP, ELECT 1-50
C18	* 87-010-263	CAP, ELECT 100-10
C20	* 87-010-384	CAP, ELECT 100-25
D3	87-027-417	DIODE, ZENER HZ11A1L
--- SWITCH-1 CIRCUIT BOARD SECTION ---		
PCB-B	83-137-665	SWITCH-1 CIRCUIT BOARD
C2	* 83-137-623	CAP, ELECT 6800-25
D1	87-020-285	DIODE DBA30C
D2	83-137-614	LED SLP-162 (POWER)
F1	87-035-254	FUSE 2.5A (H ONLY)
F1	87-035-301	FUSE 2.5A (U ONLY)
F1	87-035-365	FUSE T2A (E, K ONLY)
--- VOLUME CIRCUIT BOARD SECTION ---		
PCB-C	83-137-662	VOLUME CIRCUIT BOARD
C1	* 87-010-132	CAP, ELECT 1-50
VR1	83-137-628	VOLUME 50K A (VOLUME)
--- INPUT CIRCUIT BOARD SECTION ---		
PCB-D	83-137-660	INPUT CIRCUIT BOARD
J1	87-049-448	PIN JACK 1P (INPUT)
--- MIC CIRCUIT BOARD SECTION ---		
PCB-E	83-137-657	MIC CIRCUIT BOARD
--- SWITCH-2 CIRCUIT BOARD SECTION ---		
PCB-F	83-137-664	SWITCH-2 CIRCUIT BOARD
S1	83-137-671	PUSH SWITCH (POWER) (U ONLY)
S1	83-137-629	PUSH SWITCH (POWER) (H, E, K ONLY)
--- POWER CIRCUIT BOARD SECTION ---		
PCB-G	83-137-651	POWER CIRCUIT BOARD (H ONLY)
PCB-G	83-137-712	POWER CIRCUIT BOARD (E, K ONLY)
S2	* 87-031-780	SLIDE SWITCH (VOLTAGE SELECTOR) (H ONLY)
	* 82-304-743	1P TERMINAL (E, K ONLY)
--- MISCELLANEOUS ---		
	* 87-034-732	AC CORD H ASSY (H ONLY)
	* 87-034-727	AC CORD U (U ONLY)
	* 87-034-877	AC CORD C (C ONLY)
	* 87-034-975	AC CORD K (K ONLY)
PT1	* 87-085-184	AC CORD BUSHING
PT1	* 83-137-652	POWER TRANSFORMER (H ONLY)
PT1	* 83-137-670	POWER TRANSFORMER U (U ONLY)
PT1	* 83-137-710	POWER TRANSFORMER (E ONLY)
PT1	* 83-137-730	POWER TRANSFORMER (K ONLY)
SP1	83-137-601	SPEAKER UNIT



ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q. TY
	1	*83-137-904	INSTRUCTION BOOKLET H		1
	2	*83-137-620	MINI PIN CORD		1
	3	*87-032-845	SIEMENS PLUG (H ONLY)		2
	4	*83-137-013	METAL FITTING		2
	5	*87-349-099	UT3-TS		5