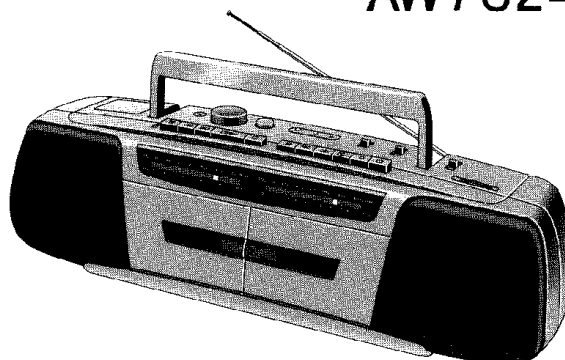


Service
Service
Service

AW7324 /00 /05 /14



This manual superseded 4822 725 24065

Service Manual

For repair information of the cassette mechanism
see Service Manual of Tape Transport
RDR-9 for AW7324
RDN-9 for AW7224

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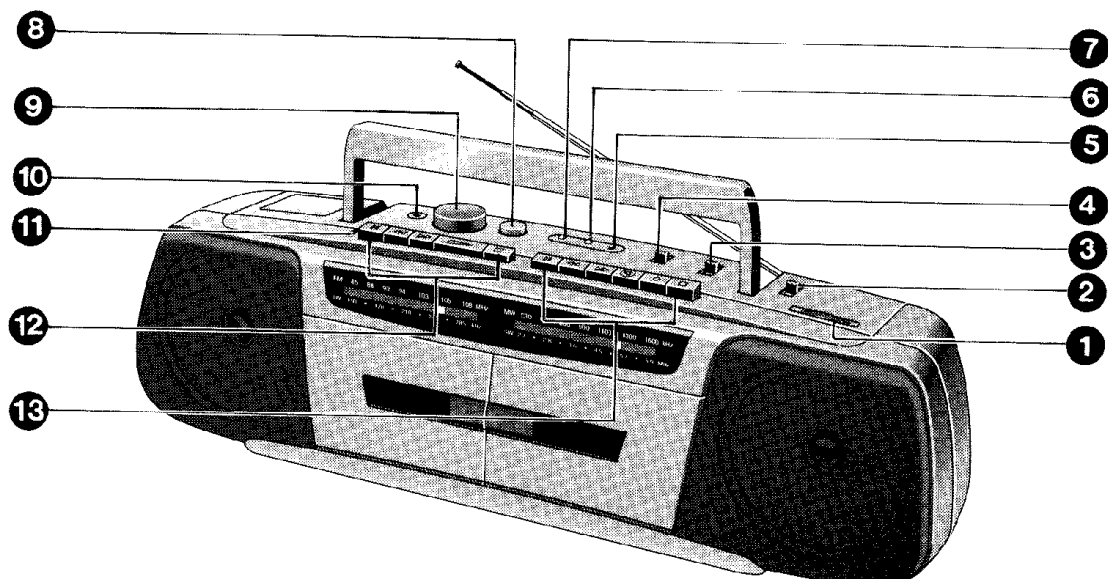
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PHILIPS

CONNECTION AND CONTROLS



- | | | |
|----|------------------------------|---------------|
| 1 | Tuning knob | |
| 2 | Band selector | |
| 3 | Mode selector | |
| 4 | Bubbing switch | |
| 5 | Mic-mixing socket | |
| 6 | High speed dubbing indicator | (AW7224) |
| | Deck 1 direction indicator < | (AW7324) |
| 7 | Power indicator | (AW7224) |
| | Deck 1 direction indicator > | (AW7324) |
| 8 | DBB button | |
| 9 | Volume knob | |
| 10 | Headphone socket | |
| 11 | Deck 1 tape mode selector | (AW7324 only) |
| 12 | Deck 1 buttons | |
| 13 | Deck 2 buttons | |

(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD



(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilier le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).

Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione.

Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

SPECIFICATIONS

GENERAL

Mains voltage	:	220V (for -/00 & -/14)
	:	240V (for -/05)
Mains frequency	:	50 Hz
Battery	:	9V (R20 x 6)
Power Consumption	:	20W
Dimension	:	550 x 155 x 150 (mm)
Weight	:	2.9 Kgs

AUDIO/CASSETTE

Output power	mains	:	2 x 1.4 W
	battery	:	2 x 2.2 W
Speaker impedance	:		2 x 3.2 ohm
Tape speed	:		4.76cm/s $\pm$ 2%
Wow & flutter	:		< 0.5% (weight)
Fast-wind time (C60)	:		< 130 sec.
Frequency response	:		250 - 6,300 Hz
High speed dubbing	:		250 - 5,000 Hz
S/N ratio	:		> 40dB
High speed dubbing	:		> 37dB
Bias/erase system	FM	:	AC 78 $\pm$ 10 kHz
	AM	:	DC

TUNER - FM section

Tuning range	:	87.5 - 108 MHz
	:	65 - 108 MHz (for -/14)
IF frequency	:	10.7MHz
Sensitivity	:	< 24dbf at 26dB S/N
Selectivity	:	> 20dB at 600kHz B.W.
IF rejection	:	> 50dB
Image rejection	:	> 20dB

TUNER - AM section

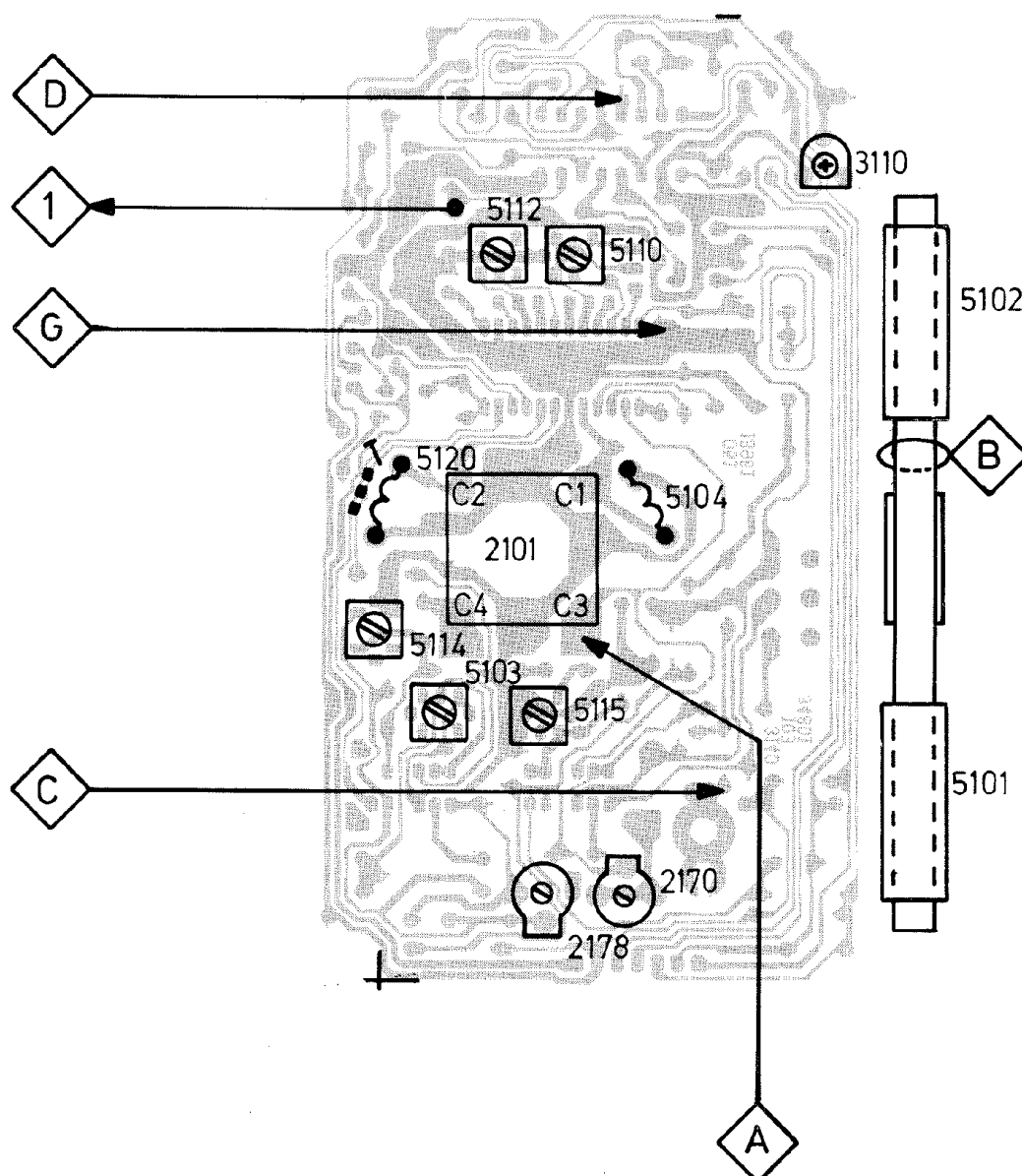
Tuning range	MW	:	520 - 1607 kHz
	LW	:	148.5 - 283.5 kHz
	SW	:	5.95 - 17.9 MHz
IF frequency	:		468 $\pm$ 3 kHz
Sensitivity	MW	:	< 3500 μ V/m 26dB S/N
	LW	:	< 6000 μ V/m
	SW	:	< 210 / 85 μ V
Selectivity	MW	:	> 16dB
	LW	:	> 20dB
	SW	:	> 16dB
IF rejection	MW	:	> 24dB
	LW	:	> 26dB
	SW	:	> 40dB
Image rejection	MW	:	> 28dB
	LW	:	> 30dB
	SW	:	> 10 / 6 dB

CASSETTE ADJUSTMENT

Adjustment	Cassette	Recorder position		Measure on	Read on	Adjust with	Adjust to
		SK...	Deck				
R/P Head azimuth	8 KHz of SBC420 *	TAPE	PLAY FORWARD	1253	mV meter	R. screw of R/P head	Maximum L = R
		AUTO REVERSE	PLAY REVERSE	1253	mV meter	L. screw of R/P head	Maximum L = R
R/P Head azimuth	8 kHz of SBC420*	TAPE	PLAY	1253	mV meter	L. screw of R/P head	Maximum L = R
Motor speed	3150Hz of SBC420 *	TAPE	PLAY	1253	Wow and flutter meter	Preset in motor	3150 Hz +3/-2%

* SBC420 : 4822 397 30071

** The Wow & Flutter value can be read. This value should not exceed 0.3%.



RADIO ALIGNMENT

SK....	FREQUENCY	I/P	VARICON	ADJUST	O/P	SCOPE/METER
AM IF						
MW #	468 KHz	$\diamond A$	Min.	5110 5112	$\diamond 1$	$\updownarrow$ Max.
AM RF						
MW (520 - 1606 kHz)	1635 KHz > 507 KHz	$\diamond B$	Min. Max.	2178	$\diamond 1$	$\updownarrow$ Max.
	550 KHz 1500 KHz		550 KHz 1500 KHz	5101 2170		$\updownarrow$ Max.
LW (148.5 - 283.5 kHz)	147 KHz > 283.5 KHz	$\diamond B$	Max. Min.	5103	$\diamond 1$	$\updownarrow$ Max.
	155 KHz		155 KHz	5102		$\updownarrow$ Max.
SW # (5.95 - 17.9 MHz)	5.82 MHz 18.2 MHz	$\diamond C$	Max. Min.	5114 C4	$\diamond 1$	$\updownarrow$ Max.
	6.2 MHz 17.0 MHz		6.2 MHz 17.0 MHz	5115 C3		$\updownarrow$ Max.
FM IF						
FM	10.7 MHz		Min.		$\diamond 1$	$\updownarrow$ Symmetrical
FM RF						
FM #	* 87.35 MHz * 108.25 MHz	$\diamond C$	Max. Min.	5120 C2	$\diamond 1$	$\updownarrow$ Max.
	ϕ 88 MHz 106 MHz		ϕ 88 MHz 106 MHz	5104 C1		$\updownarrow$ Max.
STEREO DECODER						
FM STEREO	98 MHz	$\diamond C$	98 MHz	3110	$\diamond D$	19 $\pm$ 0.1 KHz

via 10nF + 15E

* For /05 : 87.0 ± 0.5 MHz - 108.5 ± 0.5 MHz

For /14 : 64.7 ± 0.3 MHz - 108.5 ± 0.5 MHz

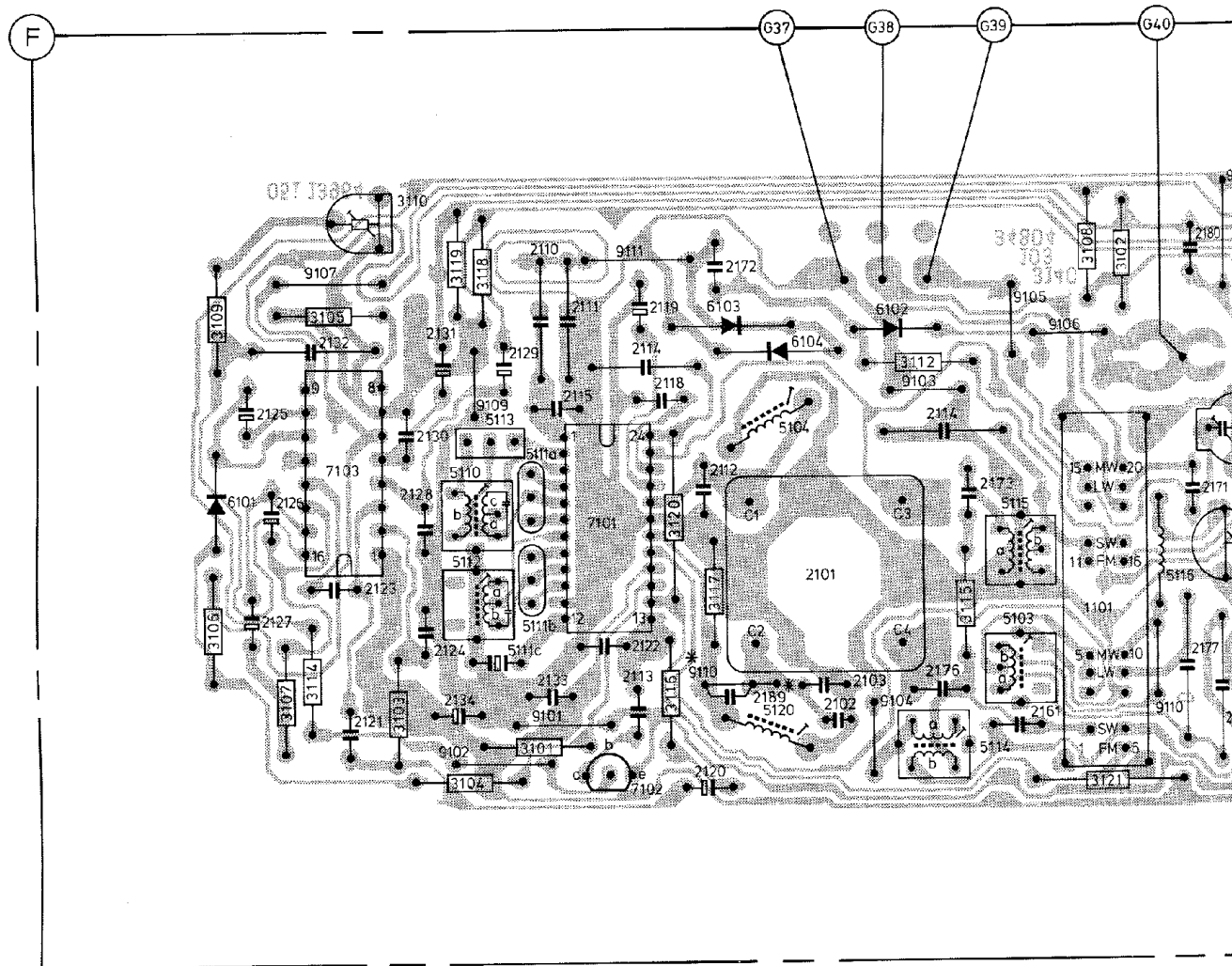
ϕ For /14 : L.T.P. = 68 MHz

[illegible]

FM
FM MENG

COMPONENTS LAYOUT - TUNER PCB

MISC.	6101	7103		5113 5112 5111c 5111a 9110 9100 7102										5104	6102	9103	9105	5117	1101	5116
	9107			9109		5110	9102	9101	5111b	9111	7101	6103	6104	5120	9104	5114	5102	5115	5103	9106
C.	2125	2132	2121	2123	2130	2131	2115	2129	2110	2111	2115	2118	2172	2112	2101	2174	2173	2161		21
	2127	2126		2124	2128	2124	2134	2133	2122	2113	2189	2119	2120	2102	2103	2176	2114			21
R.	3109		3107		3110	3119	3118	3101		3120	3116					3112	3115	3108	3102	
	3106		3105	3114		3103	3104			3117									3121	



7101			
1 = 0V	V7	13 = V5	V6
2 = 1V44	1V4	14 = 1V3	0V
3 = 1V44	1V4	15 = V09	4V5
4 = 0V	1V	16 = 5V	5V
5 = 1V44	1V4	17 = 0V	0V
6 = 1V2	V7	18 = 0V	0V
7 = 1V47	1V4	19 = 0V	0V
8 = 1V11	V7	20 = 0V	0V
9 = 1V48	1V4	21 = V46	V6
10 = 1V06	V7	22 = 2V13	2V1
11 = 0V	0V	23 = 0V	0V
12 = 0V	1V	24 = 0V	0V

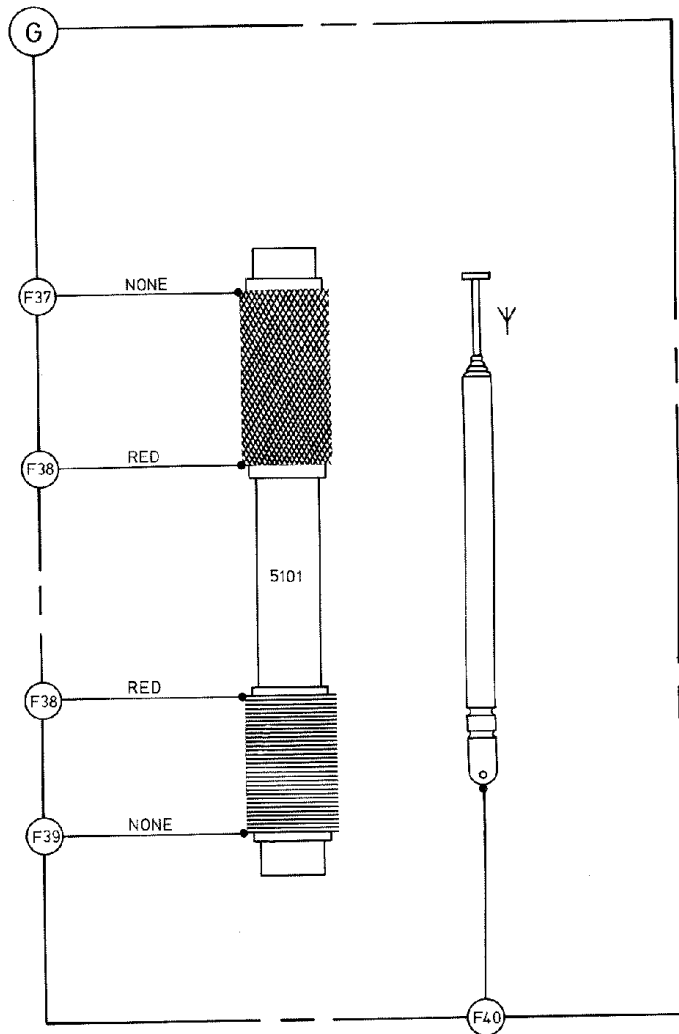
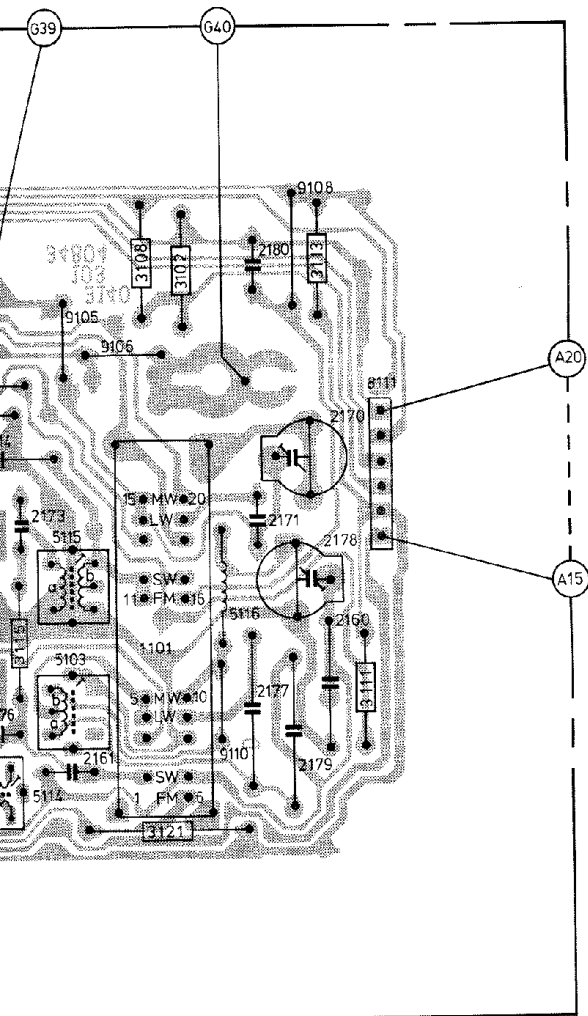
7103			
1 = 5V	5V	9 = 1V5	0V [1V5]
2 = 1V47	1V46	10 = 1V33	1V27
3 = 1V43	1V43	11 = 1V33	2V14
4 = 2V46	2V45	12 = 1V14	1V14
5 = 2V5	2V5	13 = 1V34	1V43
6 = 5V	5V	14 = 1V35	1V36
7 = 0V	0V	15 = 1V35	1V36
8 = V4	V39	16 = 1V8	1V8

7102	
e = 0V	0V
b = V7	0V
c = 0V	0V

* ITEM	VERSION	/00/05
9110		✓
2189		X

...V AM
 ...V FM
 ...V FM MONO

03	9105	5117	1101	5115	9108	5101
14	6102	5115	5103	9106	8111	
74	2173	2161			2180	2179
76	2114				2171	2177
	3115	3108	3102		3113	3111
			3121			



7102

e = 0V	0V
b = V7	0V
c = 0V	0V

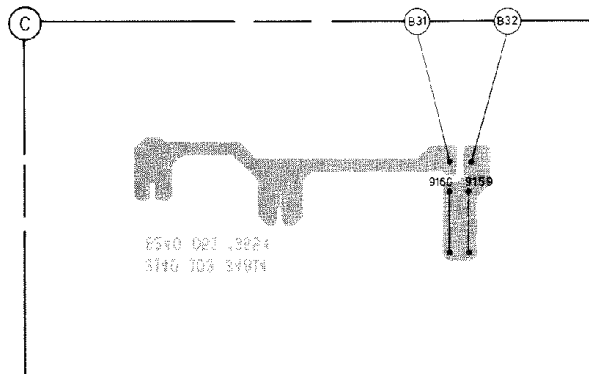
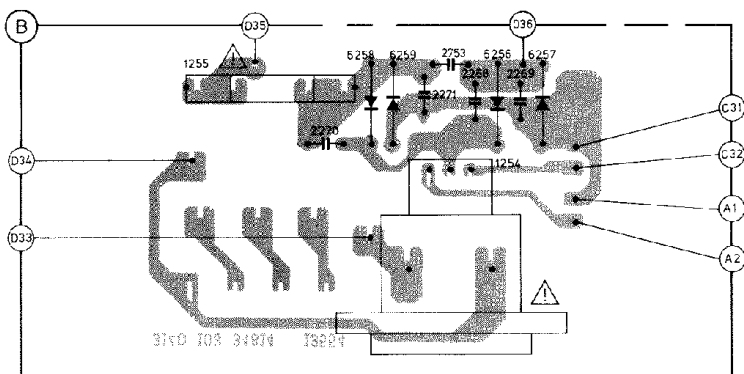
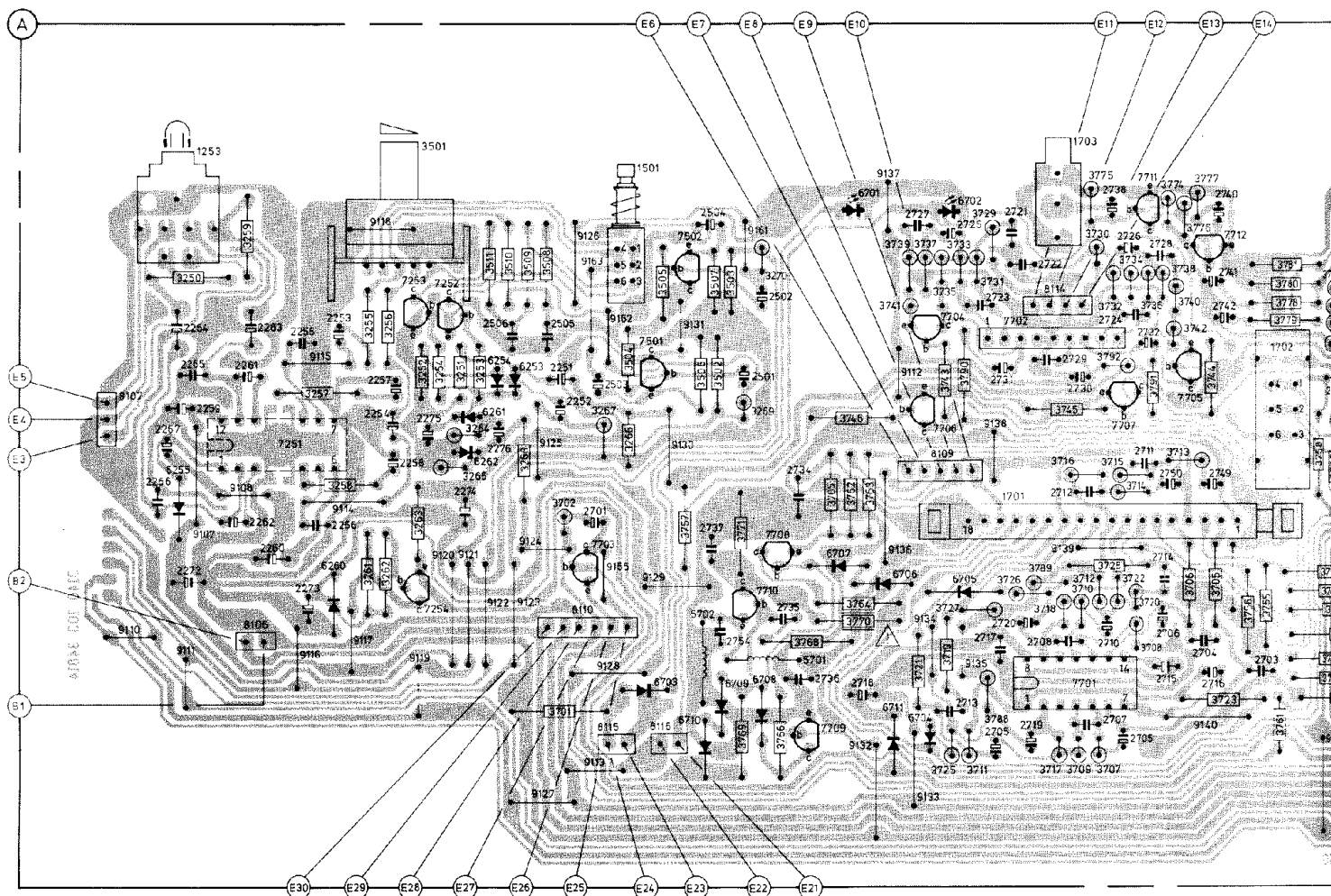
*ITEM	VERSION	/00/05	/14
9110		✓	X
2189		X	✓

CS 58 594

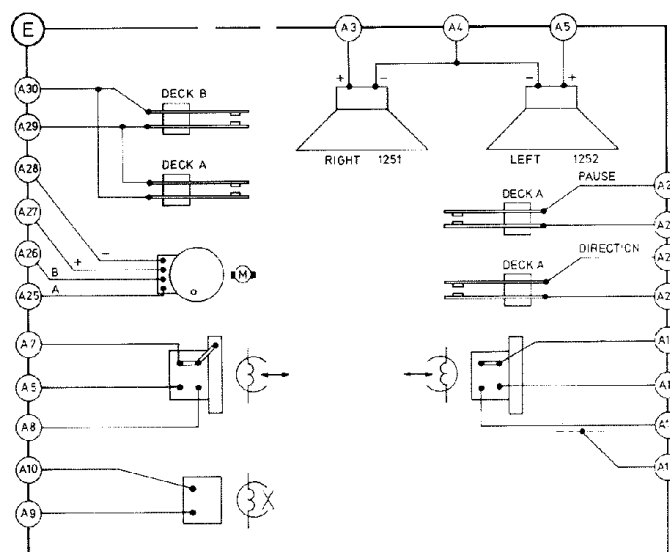
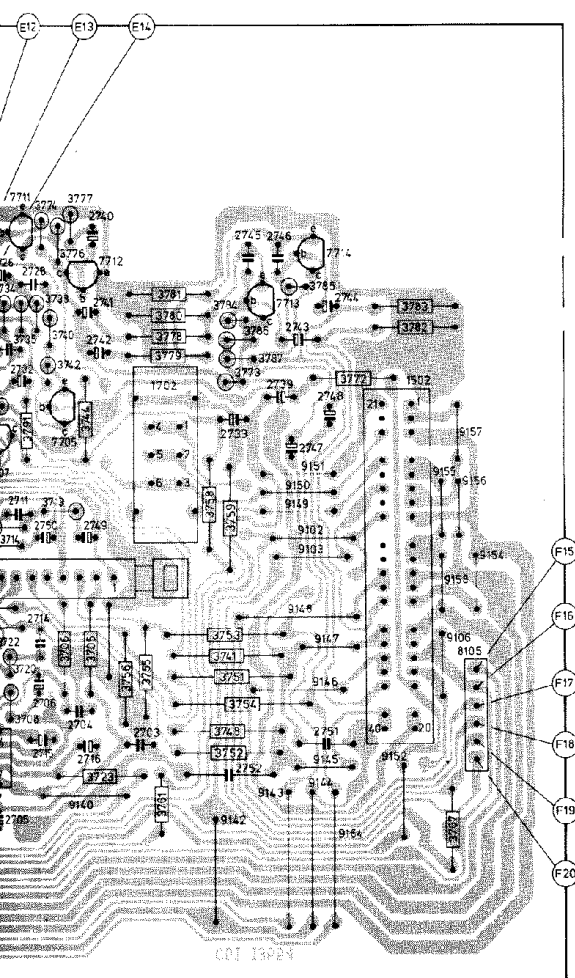


COMPONENTS LAYOUT - AUDIO PCB (AW7324)

MISC.	9110	1253	9107	9115	9114	9118	6261	6257	9124	9126	9162	1501	7502	5702	6701	6707	9137	6702	7704	6704	1701	1703	7711	7705		
	6255	9111	7251	6260	7253	7252	6262	6254	9123	8110	7703	7501	9131	6710	7708	9132	9112	7706	6705	7702	7701	7707	9160	9159	7712	
	1255	9108	9116	9117	7254	9120	9121	9122	9125	8115	9128	9165	9130	6703	7710	9161	5701	8109	9136	9134	9138	8114	9135	9139	9140	
	8017	8016	6258	6259	9119	6256	1254	6253	9127	9163	9113	9129	8116	6709	6708	7709	6706	6711	9133	9135	9139					
C.	2264	2272	2255	2253	2275	2274	2506	2505				2737	2502		2718	2727	2713				2738	2724	2728	2749	2740	
	2265	2263	2256	2257	2268	2269	2276	2251	2701					2501				2725	2723	2721	2726	2750	2704			
	2259	2261	2273	2254		2753		2252				2754	2735						2731	2722	2712	2711	2714	2716		
	2267	2262		2258				2503				2504							2736	2717	2720	2729	2710	2732	2706	2740
R.	2266	2260	2270		2271														2734	2705	2708	2719	2707	2705	2715	2761
	3250	3259	3257	3258	3256	3252	3264	3511	3509	3508		3505	3507	3503	3766	3763	3735	3719	3731	3725	3712	3734	3736	3777		
				3255	3262	3254	3265	3510	3268	3267		3757	3506	3502	3765	3762	3743	3727	3788	3730	3720	3710	3714	3713	3774	
				3261	3263	3251			3702	3504				3771	3270	3768	3739	3721	3725	3726	3745	3716	3732	3715	3722	3776
						3253			3701	3266				3769	3269		3764	3741	3733	3711	3789	3792	3728	3708	3738	
								3501								3766	3770	3737	3790	3729	3718	3717	3709	3707	3742	3791
																									3740	



3	7711	1702	9142	7714	1502	9145	9157	5251	1251	1252
7701	7705		9143	7213	9149	9148	9144	9156		
7707	9160	9159	7712	9154	9151	9102	9147	9152	9155	8105
		9140		9150	9103	9146	9158	9106	9154	
	2724	2728	2749	2703	2745	2751	2746			
30	2726	2750	2704	2733	2752	2746				
2712	2711	2714	2716		2743					
9	2710	2732	2706	2740	2739					
1	2707	2705	2715	2741	2742	2747	2748			
3	3712	3734	3736	3777	3781	3784	3786	3751	3772	
720	3710	3714	3713	3774	3723	3780	3758	3787	3754	3783
3716	3732	3715	3722	3776	3744	3778	3779	3759	3748	3782
3792	3728	3708	3738	3706	3761	3773	3753	3752	3767	
7	3708	3707	3742	3791	3740	3705	3756	3755	3741	3785



7251	
1 = 8V	9 = V56
2 = 4V4	10 = 8V6
3 = 8V6	11 = 4V4
4 = V56	12 = 8V8
5 = V02	
6 = 8V7	
7 = 0V	
8 = V02	

7252	
b = 0V	
c = 0V	
e = 0V	

7704	
b = V09 [3V2]	
c = 2V5	
e = 2V5	

7710	
b = V53 0V3	
c = 8V9 8V9	
e = V17 V1	

7701	
1 = 0V	8 = 2V5
2 = 2V5	9 = 0V
3 =	10 = 2V4
4 = 2V4	11 = 2V4
5 = 2V4	12 =
6 = 0V	13 = 2V5
7 = 0V	14 = 4V9

7254	
b = 6V2	
c = 8V9	
e = 5V5	

7705	
b = V09 [3V2]	
c = 0V [0V]	
e = 0V [0V]	

7711	
b = V58	
c = 2V6	
e = 0V	

7702	
1 = 1V3	
2 = 0V	
3 = 2V5	
4 = 0V	
5 = 0V	
6 = 5V2	
7 = 2V5	
8 = 0V	
9 = 1V3	

7501	
b = 3V3	
c = 5V3	
e = 2V7	

7707	
b = 0V [V65 PAUSE]	
c = 0V [0V]	
e = 0V [0V]	

7712	
b = 2V6	
c = 0V	
e = 3V3	

7502	
b = 3V3	
c = 5V3	
e = 2V7	

7703	
b = 7V9 [7V9]	
c = 8V4 [8V3]	
e = 8V4 [5V8]	

7708	
b = 2V7 9V	
c = 6V2 V1	
e = 8V5 9V2	

7709	
b = V65 V01	
c = V05 9V2	
e = 0V 0V	

7713	
b = 1V5	
c = 4V2	
e = 1V	

7714	
b = 1V5	
c = 4V2	
e = 1V	

7715	
b = 1V5	
c = 4V2	
e = 1V	

7716	
b = 1V5	
c = 4V2	
e = 1V	

7717	
b = 1V5	
c = 4V2	
e = 1V	

7718	
b = 1V5	
c = 4V2	
e = 1V	

7719	
b = 1V5	
c = 4V2	
e = 1V	

7720	
b = 1V5	
c = 4V2	
e = 1V	

7721	
b = 1V5	
c = 4V2	
e = 1V	

7722	
b = 1V5	
c = 4V2	
e = 1V	

7723	
b = 1V5	
c = 4V2	
e = 1V	

7724	
b = 1V5	
c = 4V2	
e = 1V	

7725	
b = 1V5	
c = 4V2	
e = 1V	

7726	
b = 1V5	
c = 4V2	
e = 1V	

7727	
b = 1V5	
c = 4V2	
e = 1V	

7728	
b = 1V5	
c = 4V2	
e = 1V	

7729	
b = 1V5	
c = 4V2	
e = 1V	

7730	
b = 1V5	
c = 4V2	
e = 1V	

7731	
b = 1V5	
c = 4V2	
e = 1V	

7732	
b = 1V5	
c = 4V2	
e = 1V	

7733	
b = 1V5	
c = 4V2	
e = 1V	

7734	
b = 1V5	
c = 4V2	
e = 1V	

7735	
b = 1V5	
c = 4V2	
e = 1V	

7736	
b = 1V5	
c = 4V2	
e = 1V	

7737	
b = 1V5	
c = 4V2	
e = 1V	

7738	
b = 1V5	
c = 4V2	
e = 1V	

7739	
b = 1V5	
c = 4V2	
e = 1V	

7740	
b = 1V5	
c = 4V2	
e = 1V	

7741	
b = 1V5	
c = 4V2	
e = 1V	

7742	
b = 1V5	
c = 4V2	
e = 1V	

7743	
b = 1V5	
c = 4V2	
e = 1V	

7744	
b = 1V5	
c = 4V2	
e = 1V	

7745	
b = 1V5	
c = 4V2	
e = 1V	

7746	
b = 1V5	
c = 4V2	
e = 1V	

7747	
b = 1V5	
c = 4V2	
e = 1V	

7748	
b = 1V5	
c = 4V2	
e = 1V	

7749	
b = 1V5	
c = 4V2	
e = 1V	

7750	
b = 1V5	
c = 4V2	
e = 1V	

7751	
b = 1V5	
c = 4V2	
e = 1V	

7752	
b = 1V5	
c = 4V2	
e = 1V	

7753	
b = 1V5	
c = 4V2	
e = 1V	

7754	
b = 1V5	
c = 4V2	
e = 1V	

7755	
b = 1V5	
c = 4V2	
e = 1V	

7756	
b = 1V5	
c = 4V2	
e = 1V	

7757	
b = 1V5	
c = 4V2	
e = 1V	

7758	
b = 1V5	
c = 4V2	
e = 1V	

7759	
b = 1V5	
c = 4V2	
e = 1V	

7760	
b = 1V5	
c = 4V2	
e = 1V	

7761	
b = 1V5	
c = 4V2	
e = 1V	

7762	
b = 1V5	
c = 4V2	
e = 1V	

7763	
b = 1V5	
c = 4V2	
e = 1V	

7764	
b = 1V5	
c = 4V2	
e = 1V	

7765	
b = 1V5	
c = 4V2	
e = 1V	

7766	
b = 1V5	
c = 4V2	
e = 1V	

7767	
b = 1V5	
c = 4V2	
e = 1V	

7768	
b = 1V5	
c = 4V2	
e = 1V	

7769	
b = 1V5	
c = 4V2	
e = 1V	

7770	
b = 1V5	
c = 4V2	
e = 1V	

7771	
b = 1V5	
c = 4V2	
e = 1V	

7772	
b = 1V5	
c = 4V2	
e = 1V	

7773	
b = 1V5	
c = 4V2	
e = 1V	

7774	
b = 1V5	
c = 4V2	
e = 1V	

7775	
b = 1V5	
c = 4V2	
e = 1V	

7776	
b = 1V5	
c = 4V2	
e = 1V	

7777	
b = 1V5	
c = 4V2	
e = 1V	

7778	
b = 1V5	
c = 4V2	
e = 1V	

7779	
b = 1V5	
c = 4V2	
e = 1V	

7780	
b = 1V5	
c = 4V2	
e = 1V	

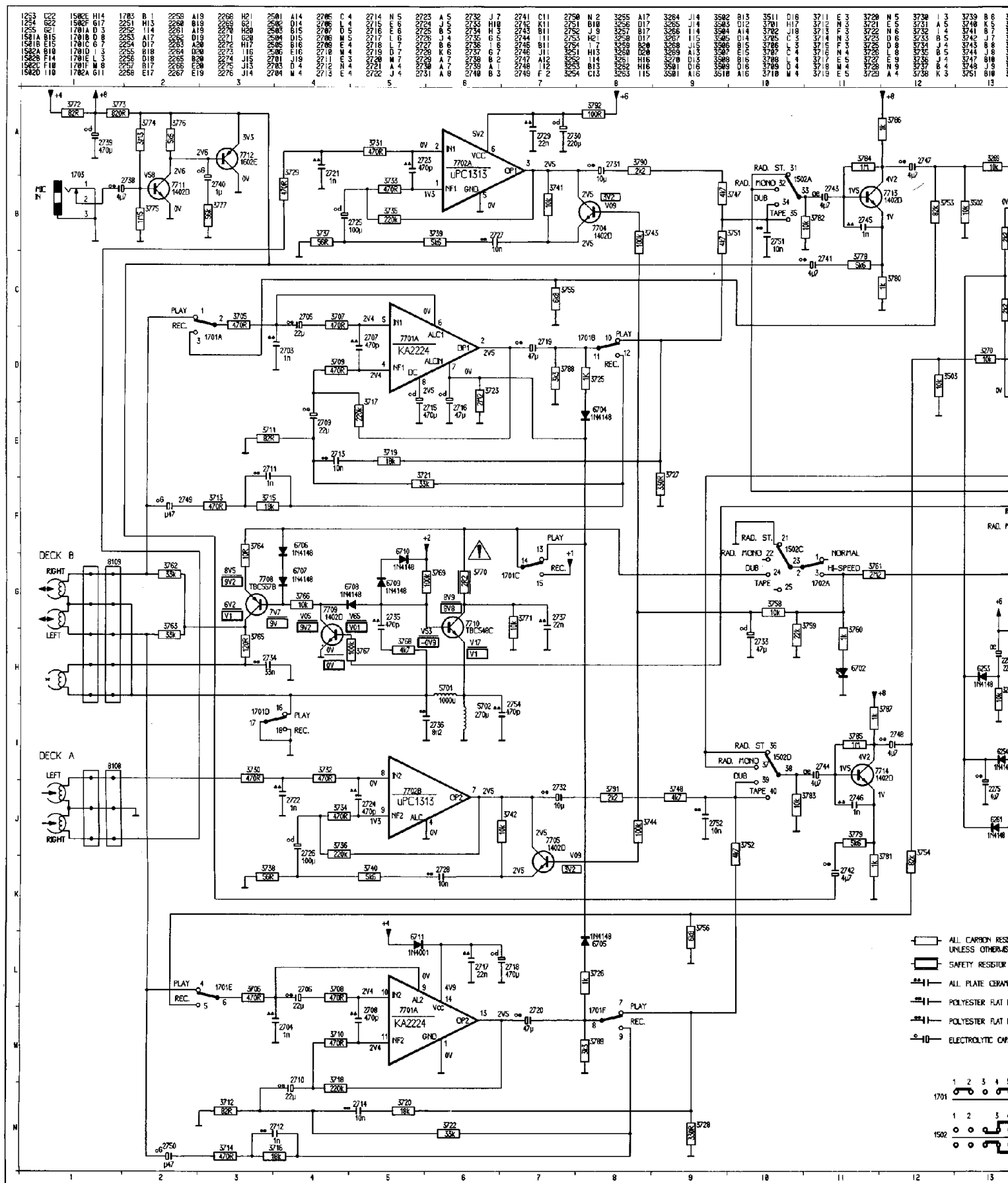
7781	
b = 1V5	
c = 4V2	
e = 1V	

7782	
b = 1V5	
c = 4V2	
e = 1V	

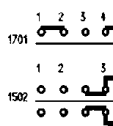
7783	
b = 1V5	
c = 4V2	
e = 1V	

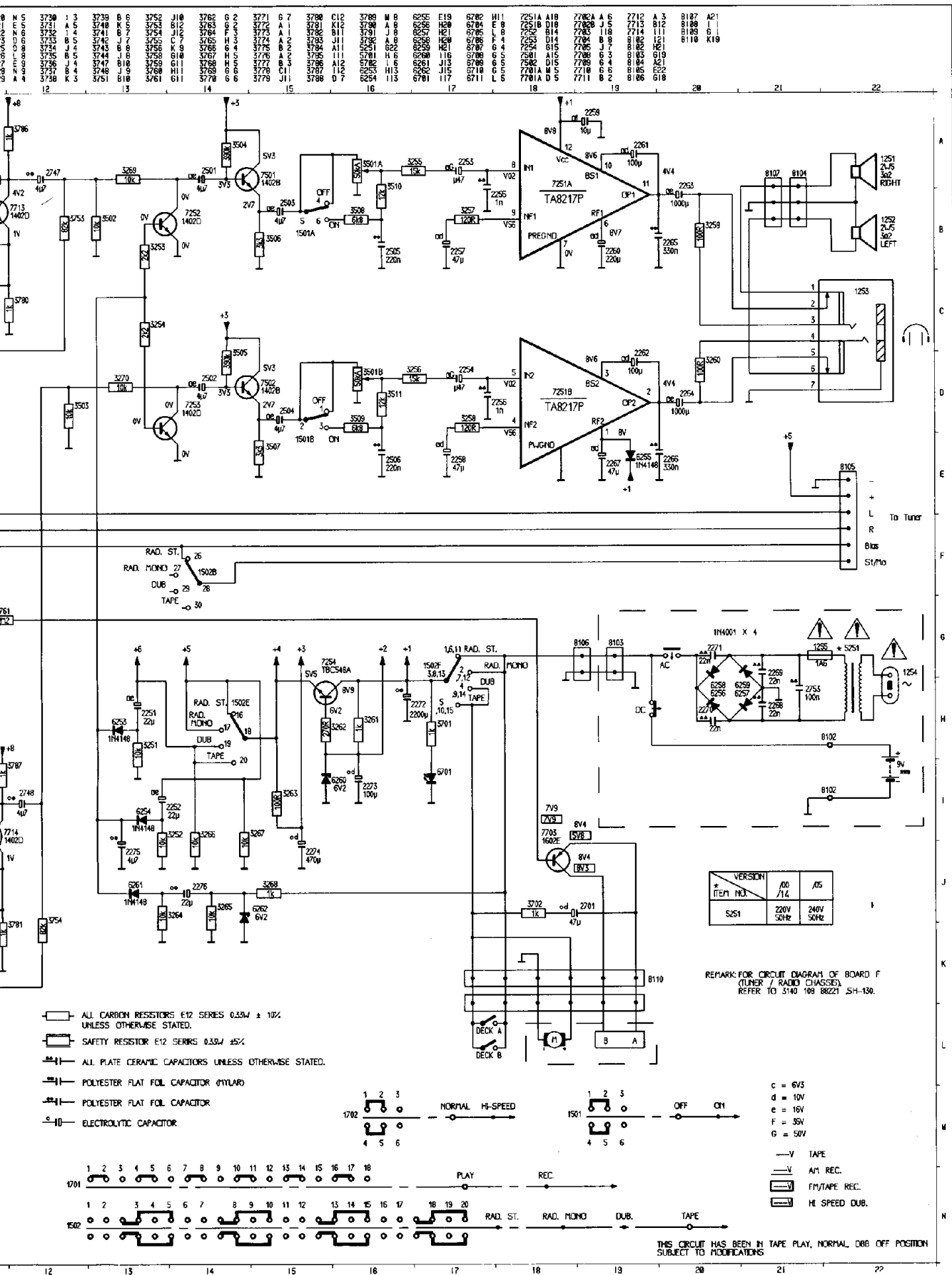
7784	
b = 1V5	
c = 4V2	
e = 1V	

SCHEMATIC DIAGRAM - AUDIO (AW7224)



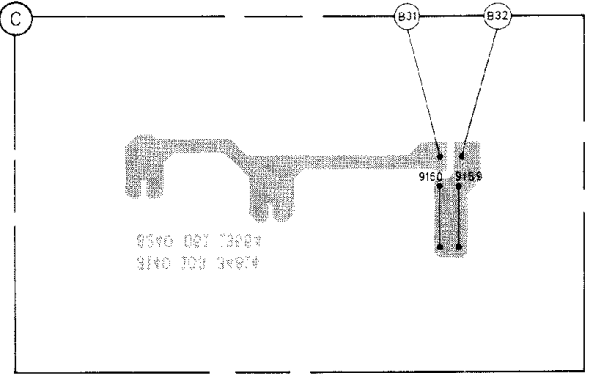
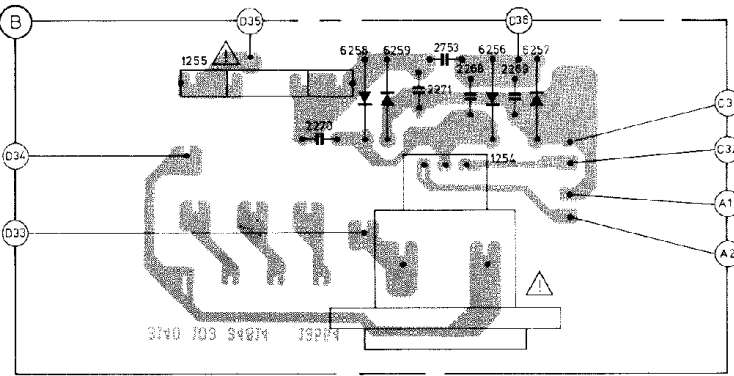
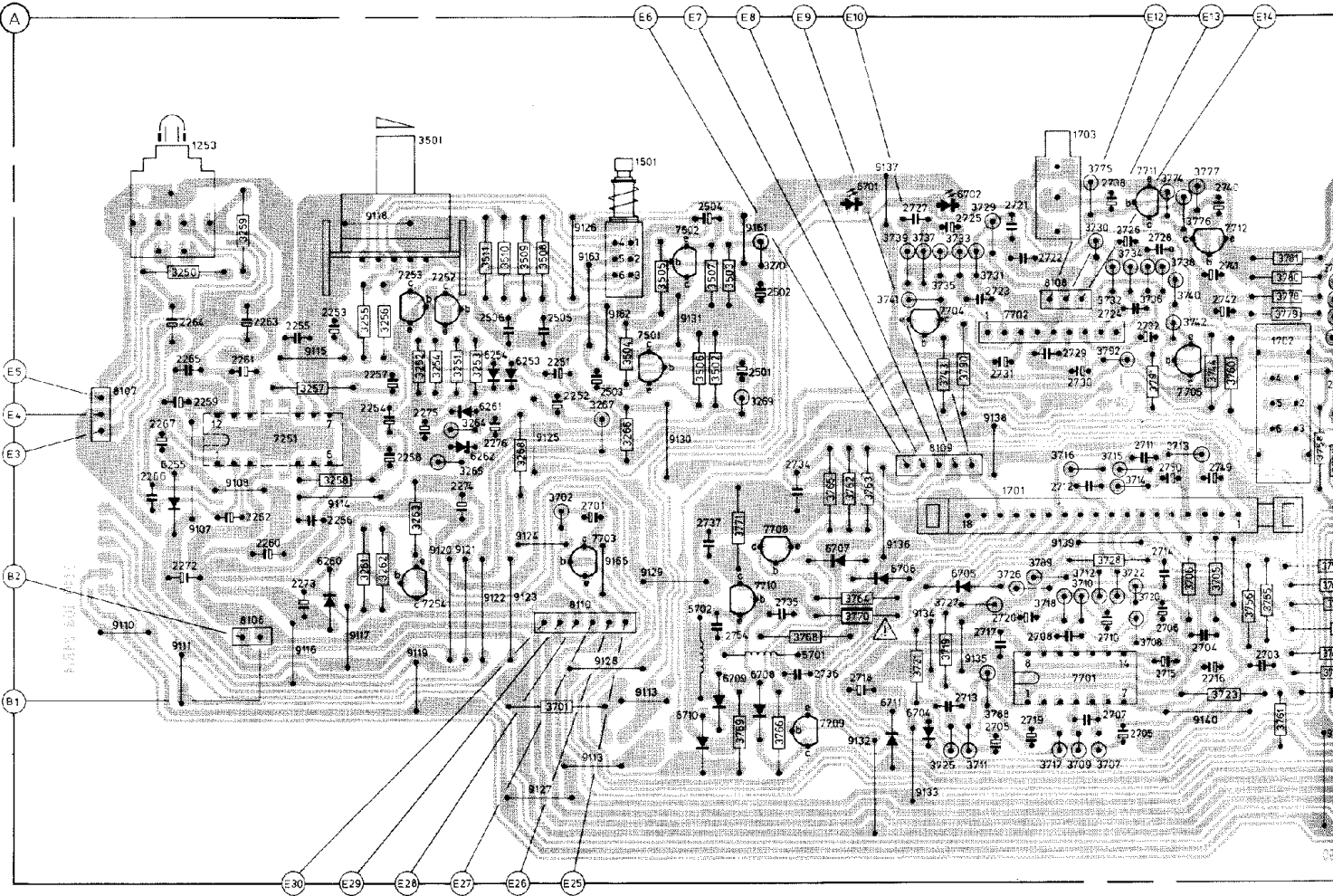
- ALL CARBON RES.
- UNLESS OTHERWISE SPECIFIED
- SAFETY RESISTOR
- ALL PLATE CAPACITORS
- POLYESTER FILM CAPACITORS
- POLYESTER FILM CAPACITORS
- ELECTROLYTIC CAPACITORS



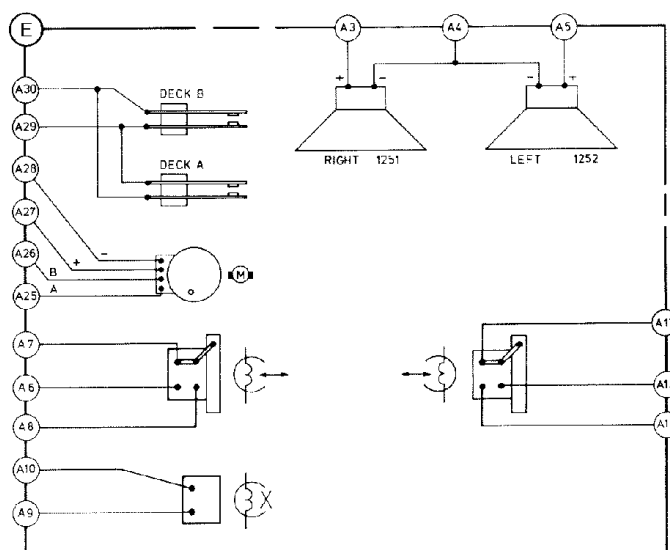
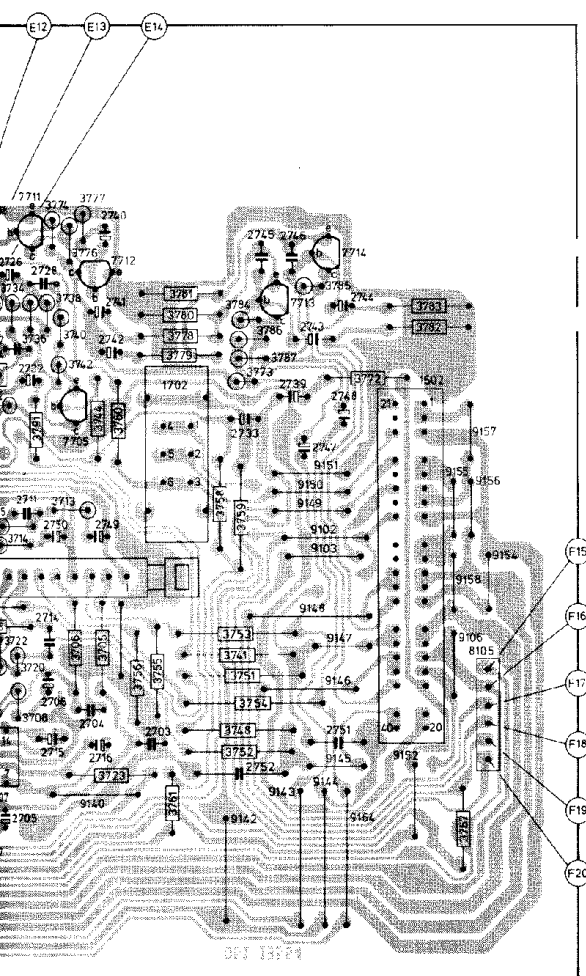


COMPONENTS LAYOUT - AUDIO PCB (AW7224)

	9110	1253	9107	9115	9114	9118	6261	6257	9124	9126	9162	1501	7502	5702	6701	6707	9137	6702	7704	6704	1701	1703	7711	1705
MISC.	6255	9111	7251	6260	7253	7252	6262	6254	9123	8110	7703	7501	9131	6710	7708	9132			6705	7702		7701	7705	
	1255	9108	9116	9117	7254	9120	9121	9122	9125	9163	9128	9130	9161	7710	5701	8109	9136	9134	9138	8108		5160	9159	7712
	8017	8016	6258	6259	9119	6256	1254	6253	9127	9165	9113	9129	6709	6708	7709	6706	6711	9133	9135	9139			9140	
C.	2264	2272	2255	2253	2275	2274	2506	2505				2737	2502		2718	2727	2713		2738	2724	2728	2749		
	2265	2263	2256	2257	2268	2289	2276	2251	2701				2501				2725	2723	2721	2730	2726	2750	2704	
	2259	2261	2273	2254	2753			2252				2754	2735					2731	2722	2712	2711	2714	2716	
	2267	2262							2503				2504		2736			2717	2720	2723	2710	2732	2705	2740
	2266	2260	2270	2271											2734			2705	2708	2719	2707	2705	2715	2741
	3250	3259	3257	3258	3256	3252	3264	3511	3509	3508		3505	3507	3503		3763	3735	3719	3731	3775	3712	3734	3735	3777
R.				3255	3252	3254	3265	3510	3268	3267		3506	3502	3765	3762	3743	3727	3788	3730	3720	3710	3714	3713	3774
				3261	3263	3251			3702	3504			3771	3768	3738	3721	3725	3726		3716	3732	3715	3722	3776
						3253			3701	3266			3769	3270	3764	3741	3733	3711	3789	3760	3792	3728	3708	3738
						3501							3269	3766	3770	3737	3790	3729	3718	3717	3709	3707	3742	3791



7703	7711	1702	9142	9164	7714	1502	9145	9157	5251	1251	1252
7701	7705		9143	7713	9149	9148	9144	9156			
	9150	9159	7712		9151	9102	9147	9152	9155	8105	
		9140			9150	9103	9146	9158	9106	9154	
8	2724	2726	2749	2703	2745	2751	2744				
2730	2726	2750	2704	2733	2752	2746					
2712	2711	2714	2716		2743						
2729	2710	2732	2706	2740	2739						
18	2707	2705	2715	2741	2742	2747	2748				
75	3712	3734	3736	3777	3781	3784	3786	3751	3772		
3720	3710	3714	3713	3774	3723	3780	3758	3787	3754	3783	
3716	3732	3715	3722	3776	3744	3778	3773	3759	3748	3782	
3760	3752	3728	3708	3738	3706	3761	3773	3753	3752	3767	
717	3703	3707	3742	3791	3740	3705	3756	3755	3741	3785	

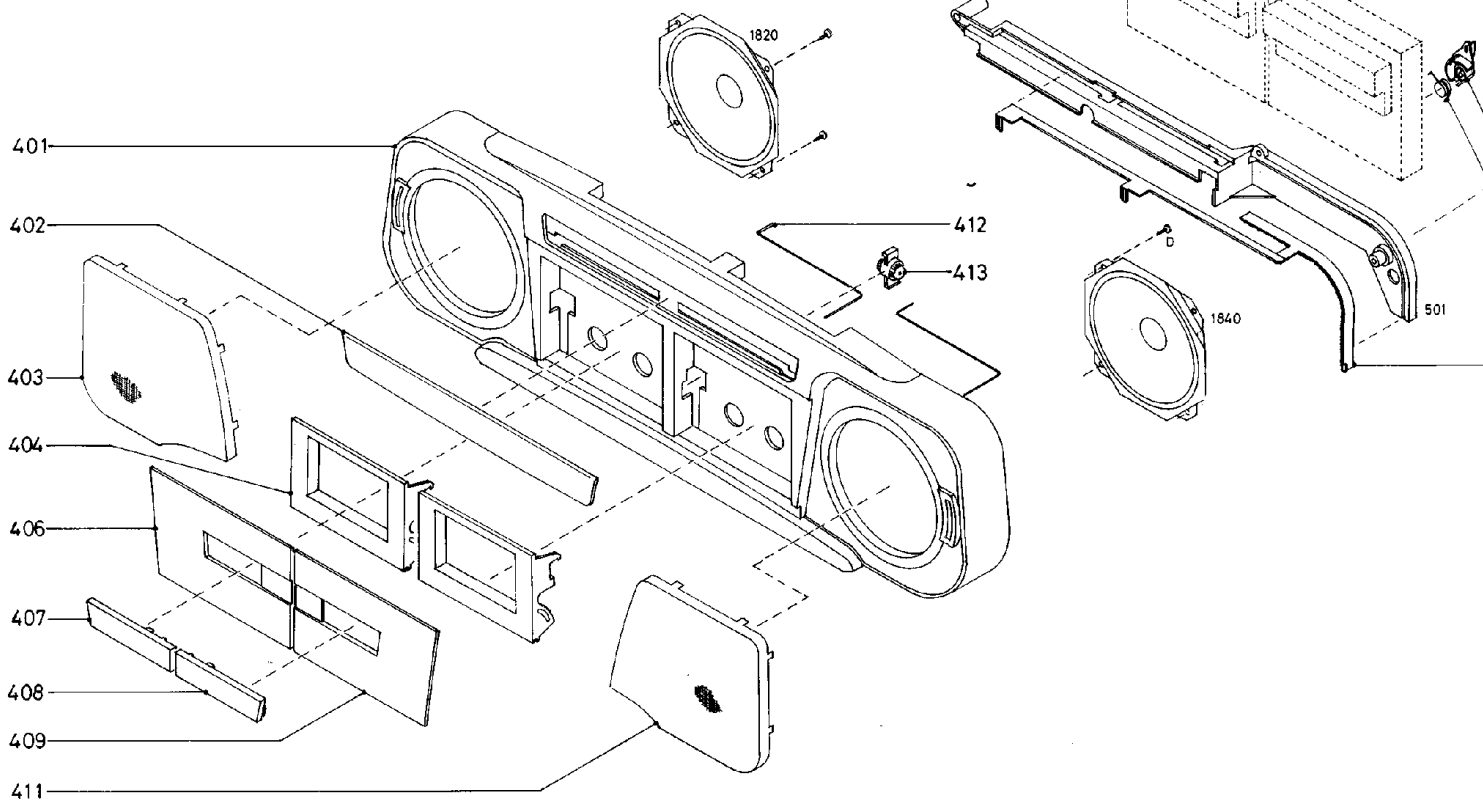


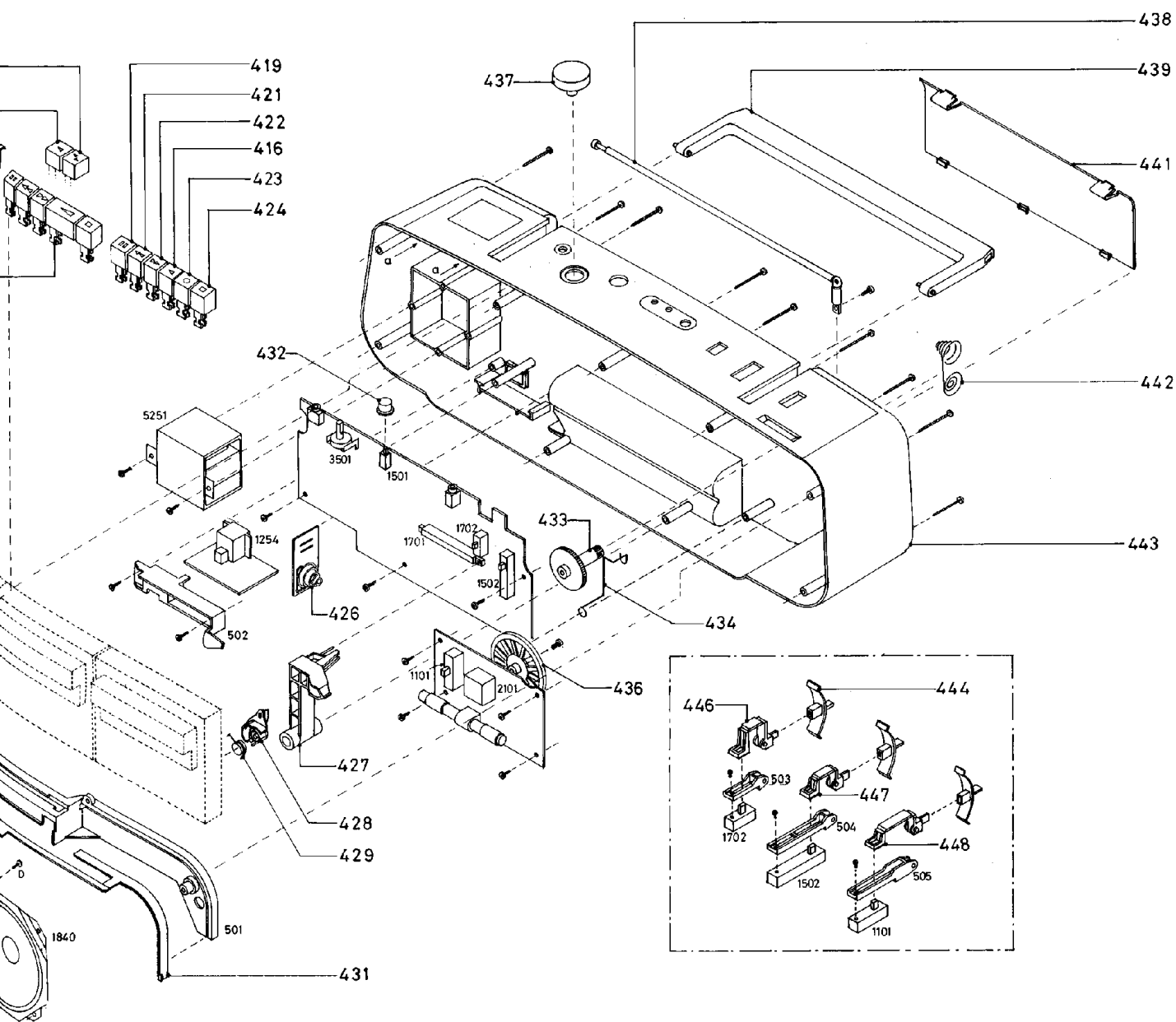
7251 1 = 8V 2 = 4V4 3 = 8V6 4 = V56 5 = V02 6 = 6V7 7 = 0V 8 = V02 9 = V55 10 = 8V5 11 = 4V4 12 = 8V8	7252 b = 0V c = 0V e = 0V	7704 b = V09 <u>3V2</u> c = 2V5 e = 2V5	7710 b = V53 <u>0V9</u> c = 8V9 <u>8V8</u> e = V17 <u>V1</u>
7253 b = 0V c = 0V e = 0V	7705 b = V09 <u>3V2</u> c = 2V5 e = 2V5	7711 b = V58 c = 2V6 e = 0V	
7731 1 = 0V 2 = 2V5 3 = <u>—</u> 4 = 2V4 5 = 2V4 6 = 0V 7 = 0V 8 = 2V5 9 = 0V 10 = 2V4 11 = 2V4 12 = <u>—</u> 13 = 2V5 14 = 4V9	7254 b = 6V2 c = 8V9 e = 5V5	7708 b = 7V7 <u>9V</u> c = 5V2 <u>V1</u> e = 8V5 <u>9V2</u>	7712 b = 2V6 c = 0V e = 3V3
7702 1 = 1V3 2 = 0V 3 = 2V5 4 = 0V 5 = 0V 6 = 5V2 7 = 2V5 8 = 0V 9 = 1V3	7501 b = 3V3 c = 5V3 e = 2V7	7709 b = V65 <u>V01</u> c = V05 <u>9V2</u> e = 0V <u>0V</u>	7713 b = 1V5 c = 4V2 e = 1V
	7502 b = 3V3 c = 5V3 e = 2V7	7714 b = 1V5 c = 4V2 e = 1V	
	7703 b = 7V9 <u>7V9</u> c = 8V4 <u>8V3</u> e = 8V4 <u>5V6</u>		

—V TAPE
 —V AM REC.
 —V FM / TAPE REC.
 —V HI SPEED DUB.

EXPLODED VIEW DIAGRAM

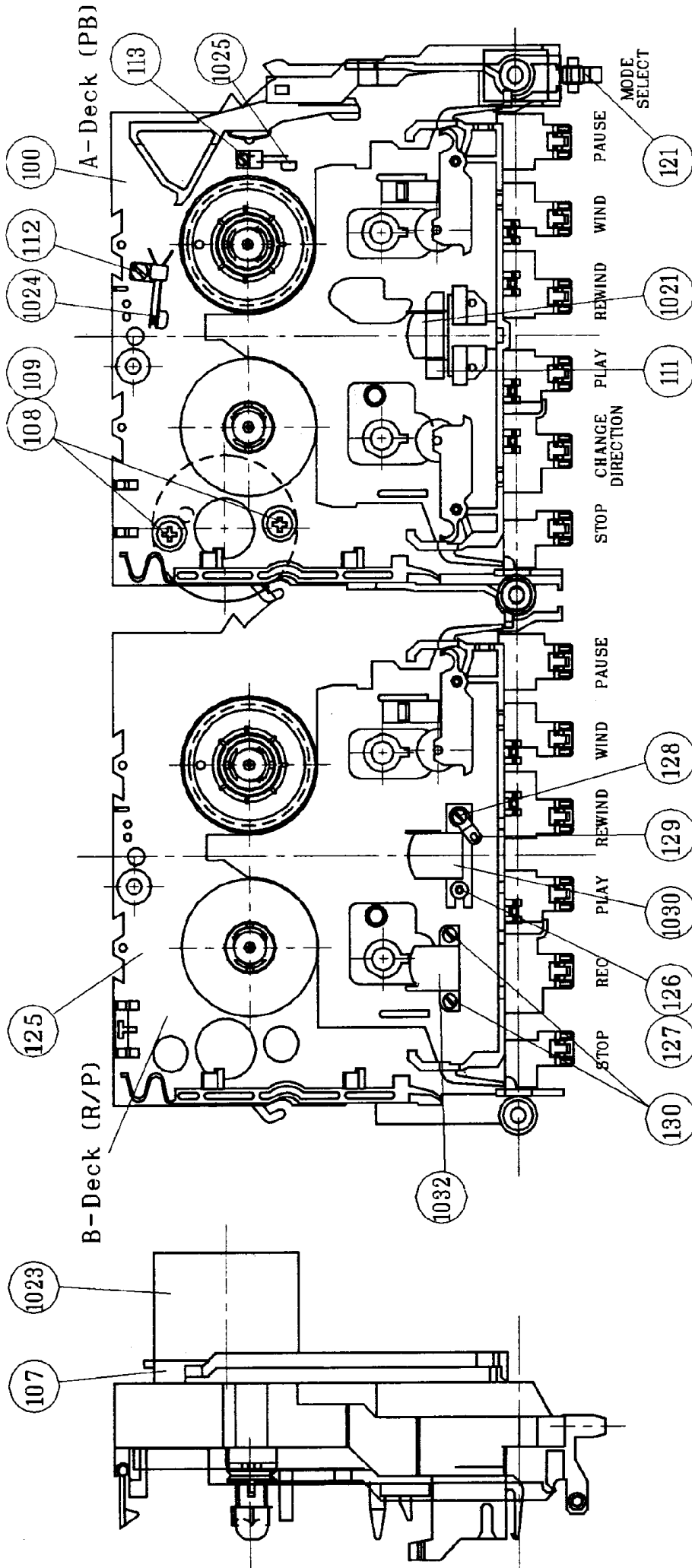
401	4822	423	51099	AW7324	428	4822	403	30762
401	4822	423	51098	AW7224	429	4822	492	70368
402	4822	381	11314	-/00/05	431	4822	450	81198
402	4822	333	40469	-/14	432	4822	410	61799
403	4822	458	50395		433	4822	413	31692
404	4822	443	62942		434	4822	492	42592
406	4822	443	63584	AW7324	436	4822	522	33224
406	4822	443	63583	AW7224	437	4822	413	31691
407	4822	450	61847		438	4822	303	30298
408	4822	450	61846		439	4822	498	10441
409	4822	443	63582		441	4822	423	41171
411	4822	458	50394		442	4822	492	51733
412	4822	492	42608		443	4822	421	60181
413	4822	529	10251		443	4822	421	60179
414	4822	410	61801	AW7324	443	4822	421	60197
416	4822	410	61795		443	4822	421	60198
417	4822	410	61804	AW7324	444	4822	411	50612
418	4822	410	61798	AW7224	446	4822	404	10859
419	4822	410	61792		447	4822	404	10858
421	4822	410	61793		448	4822	404	10857
422	4822	410	61794					
423	4822	410	61796					
424	4822	410	61797					
426	4822	492	52299					
427	4822	404	10862					





Only those parts of which a service code
is stated are normal service parts

DECK MECHANISM PARTSLIST



AW7324

100	4822	691	10294	RRO
125	4822	691	10296	RNO
1021	4822	249	30156	
1023	4822	361	21285	
1024	4822	271	30598	
1025	4822	278	90624	
1030	4822	249	10397	
1032	4822	249	20072	

AW7224

100	4822	691	10296	RNO
125	4822	691	10296	RNO
1021	4822	249	10397	
1023	4822	361	21285	
1024	4822	271	30598	
1030	4822	249	10397	
1032	4822	249	20072	

ELECTRICAL PARTS LIST

- IC -					- Capacitor -				
7101	4822	209	31065	TEA5713/N1	2101	4822	125	50597	Polyvaricon
7103	4822	209	71321	AN7411	#2101	4822	125	40052	Polyvaricon
7251	4822	209	63783	TA8217P	2170	4822	125	50045	Trim cap 22pF
7701	4822	209	72491	KA2224	2178	4822	125	50045	Trim cap 22pF
7702	4822	209	70288	μPC1313HA					
- Transistors -					- Coils -				
7102	4822	130	40937	1402D	5101	4822	158	60626	MW/LW ant assy
7252,7253	4822	130	40937	1402D	5103	4822	157	70034	Coil-AM osc
7254	4822	130	40948	TBC548A	5104	4822	157	53789	Coil-FM RF
7501,7502	4822	130	62741	1402B	#5104	4822	156	21671	Coil-FM RF
7703	4822	130	41457	1602E	5110	4822	156	11147	IFT-FM
7704,7705	4822	130	40937	1402D	5111	4822	242	81154	Filter 10.7MHz
*7706,7707	4822	130	40937	1402D	5112	4822	156	11146	IFT-AM
7708	4822	130	44568	TBC557B	5113	4822	242	71139	Filter 468kHz
7709,7711	4822	130	40937	1402D	5114	4822	156	30811	Coil-SW osc
7710	4822	130	44196	TBC548C	5115	4822	156	30811	Coil-SW ant
7712	4822	130	41457	1602E	5116	4822	157	70044	Coil 18μH
7713,7714	4822	130	40937	1402D	5120	4822	156	30947	Coil-FM osc
- Diodes -					#5120	4822	157	70033	Coil-FM osc
6101	4822	130	30621	1N4148	5701	4822	157	53473	Coil 1mH
6102	4822	130	32214	BA484	5702	4822	157	53518	Coil 270μH
6103,6104	4822	130	30621	1N4148	- Miscellaneous -				
6253-6255	4822	130	30621	1N4148	1101	4822	277	21589	Sw-slide BAND
6256-6259	4822	130	31438	1N4001	1501	4822	276	10991	Sw-Push DBB
6260,6262	4822	130	34167	BZX79-C6V2	1502	4822	277	21588	Sw-slide Fun.
6261	4822	130	30621	1N4148	1701	4822	277	20594	Sw-slide R/P
6701,6702	4822	130	31274	TLR124 LED	1702	4822	277	21587	Sw-slide Dubb.
6704-6710	4822	130	30621	1N4148	1251	4822	240	30613	Spkr. 4" 3.2Ω
6711	4822	130	31438	1N4001	1252	4822	240	30613	Spkr. 4" 3.2Ω
*6703	4822	130	30621	1N4148	1703	4822	267	30332	Socket-mic
- Resistors -					1253	4822	267	31468	Socket-phone
3110	4822	105	11078	Preset 10K	1254	⚠ 4822	265	20287	Socket-mains
3501	4822	101	21163	Potm-rot 50KA	1255	⚠ 4822	070	31602	Fuse T1.6A
3770	⚠ 4822	052	10228	Rst-fuse 2.2R	5251	⚠ 4822	146	31064	Tx-mains /00/14
					5251	⚠ 4822	146	31065	Tx-mains /05

* for AW7324 only

for -/14 only

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(SF)

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio identici a quelli specificati.

(S)

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskider gränsen för laserklass 1.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.