Digital Loudspeaker Box 70DSS930

/00S/05S/17S

Service
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Service Manual

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PHILIPS

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PCS 57 702

H.C.

SPECIFICATION

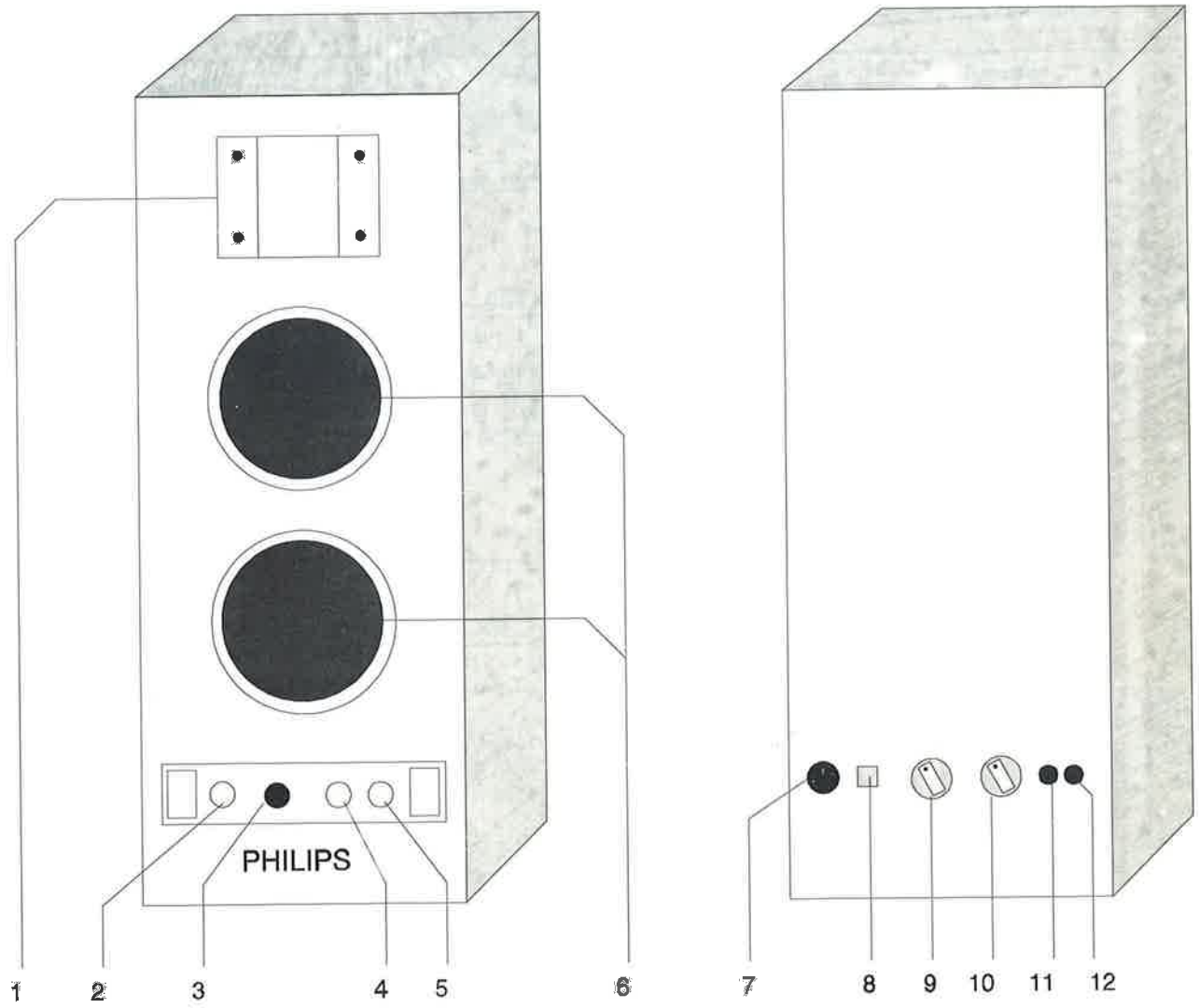
General:

Mains voltage	:220V	50Hz	for/00
	:240V	50Hz	for/05
	:120V	60Hz	for/17
Power consumption	:≤170W at 80W output power		
	:≤15W at stand by		
Dimensions:(wxhxd)	:220x565x330 mm		
System	:2 way closed, digital, active		
Speakers	:2 x 5 1/4" woofer/midrange		
	:1 x Isophase tweeter		
Connectors	:1 x cinch coaxial digital input (500mV 75Ω digital format)		
	:1 x cinch coaxial digital output (500mV 75Ω digital format)		
Controls	:Left/Right/Mono	Rotary	
	:System A/B/C	Rotary	
Leds indications	:Red/Green	On/Standby/RC-Acknowledge	
	:Red	Overload high	
	:Yellow	Phase compensation on/off	
Maximum combination of DSS	:12		

Amplifier:

Output power woofer	:80W at 8Ω D=≤0,05% (IEC)
tweeter	:10W at 8Ω D=≤0,05% (IEC)
Music power Low	:320W(paek)
High	:40W (paek)
Woofer channel	:G class
Tweeter channel	:AB class
Frequency response	:50Hz -20kHz ≤2dB
Input sensitivity:	
Woofer channel	:170mV for 80W into 8Ω output
Tweeter channel	:60mV for 10W into 8Ω output
Input impedance	:2k2

CONTROLS & CONNECTIONS



		Pos.nr.
1	Tweeter	
2	ON/Standby led	D6411
3	I.R.Eye	D6414
4	Protect tweeter led	D6413
5	Phase compensation on/off	D6412
6	Woofer 1 - 2	

		Pos.nr.
7	Fixed mainscord	
8	Power on/off	1409
9	Switch system A/B/C rotory	1402
10	Switch L/R/mono rotory	1401
11	DSS ~~OUT~~ IN connector	1405
12	DSS ~~OUT~~ IN connector	1405

CIRCUIT DESCRIPTION

DSS - LINK

The purpose of the DSS-link is to send digital control information as well as digital audio information over only one line.
The digital audio - information or EBU signal is uni-directional, i.e. from the DSS-link IN to the DSS-link OUT, while the digital control information is bidirec-tional.
zie fig. 15
Both signals (EBU and control) are frequency multiplexed. The control information is a low frequency signal, while the audio information is a high frequency signal. By means of a high-pass filter (C2401, R3402 and C2402) the audio information can be extracted from this composed signal, while the control information can be extracted with a low-pass filter (R3408, C2404 and R3414). The host controller (IC7507) puts controle information on the bus, via a low-pass filter (R3409, C2405 and R3415)

The digital audio information (EBU) is extracted by a passive high-pass filter, restored by the non buffered inverters (IC7401) and so mixed by the control informa-tion to the DSS link OUT. For the control information you have to see the bus as one long wire. Each buscircuit hangs on this wire and can transmit as well as receive control information. Via the opamp LM324 and the diode BAV74 the control information of the bus is filtered out and passed on to the Host controller. The information coming from the Host is then placed on the bus via the opamp LM324. The circuit build round the transistor 7416 provides a sharp descending ramp of the control information.

ADIC

zie fig. 22
ADIC stands for Audio Digital Input Circuit. This circuit (IC7500) provides the decoding and the separation of the EBU-format into audio information and sub-code information. The sub-code information that is generated by an EBU source, e.g. a CD player, contains information about this source, like sample frequency, serial copy management . The PLL-circuit, build around a LC-oscillator (5500,7502,6500,2509) sees to it that the ADIC is synchronised with the incoming EBU signal. Depending on the sample frequency the freqneucy of the LC oscillator varies from 8,192MHz at 32kHz sample frequency till 12,288MHz at 48kHz sampling frequency . The ADIC generates all necessary clock signals so that the whole DSP motherboard is synchronised.
In this configuration, the ADIC gives the decoded information directly to the Host controller. The subcode information that is decoded, is the sample frequency and deëmphasis ON/OFF.

DSP ADD-ON

The DSP Add-ON board consists of the DSP processor (7550) and an Eprom (7551).
The Eprom contains the program for the DSP processor as well as all coefficients for the digital filtering.
The DSP processor is the heart of the DSS930. The functions described below are processed by the processor:
- channel selection : on the back of the DSS930 there is a rotary switch you can put in three positions, left, right or mono.The position of this switch is read by the Host controller, which passes this information to the DSP. Depending on the swith position, the DSP takes only the left or right channel or adds both channels and divides this result by two to reproduce a mono signal.
-compensation on: when the compensation is on (the compensation led lights up), the DSP processes the signal in such a way that the overall amplitude-curve, acoustically measured, stays in a margine of +/- 2dB and the phase-characteristic remains linear within +/- 20°.
-compensation out (tone regulation): when the compensation is switched off (only possible via DSC950) the DSP processor loads other coefficients to use simple tone regulations, +/-5dB for bass as well as treble.
-digitale silence: when there is a 'silence' in the audio signal that is below a fixed treshold level and lasts longer than 8 seconds, the DSP activates the analoge mute line.

UPSAMPLE FILTER AND BITSTREAM DIGITAL-ANALOG COVERTOR

The upsample filter (7503) fullfills the following functions:
-eight times oversampling, digital deëmphasis filtering on three sample frequencies and (fine tuning of the) volume regulation.
-The bitstream DAC (7504) converts the digital audio data into analoge signals.

VOLUME CONTROL AND TWEETER PROTECT

zie fig. 24
The analoge attenuators (3450,3456,3452,3458, 3454 and 3460 for woofer channel and 3451, 3457,3453,3459 3455 and 3461 for tweeter channel) on the end of the DSP motherboard, provides a rough volume control in steps of 8dB. The three attenuators are weighed binairy, this means that the first attenuator (3450 and 3456 for the woofer) attenuates 8dB, the second (3452 and 3458 for the woofer) 16dB and the third (3454 and 3460 for the woofer) 24dB.
Combinations of these three attenuators gives attenuation between 8dB and 56dB in steps of 8dB.The fine steps of 2dB between these rough steps are regulated by the upsample filter.
The tweeter protect circuit sees that the isofase tweeter can not be damaged.
-This circuit limites the amplitude and provides soft clipping. The second opamp 7508 is a level comparator that continiously looks at the signal. When the amplitude of the signal rises above the reference voltage the transistor 7521 is switched off, where as the first opamp 7808 gets the signal and antiphase limits and soft clippes the output signal.

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.

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 i pezzi di ricambiago identici a quelli specificati.

F

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

Pour votre sécurité, ces documents doivent etre utilisés par des specialistes agrées, seuls habilités à réparer votre appareil en panne.

WARNINGS

GB WARNING

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

NL WAARSCHUWING

Alle ICs en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD)
Onzorgvuldig behandelen tijden 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.

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber electrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan 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.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrair étre considérablement écourtée par le fait qu'aucune precaution n'est prise à leur manipulation. Lors de réparations, s'assurer de bien étre relié au meme potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller á ce que les composants ainsi que les outils que l'on utilise soient également á ce potentiel.

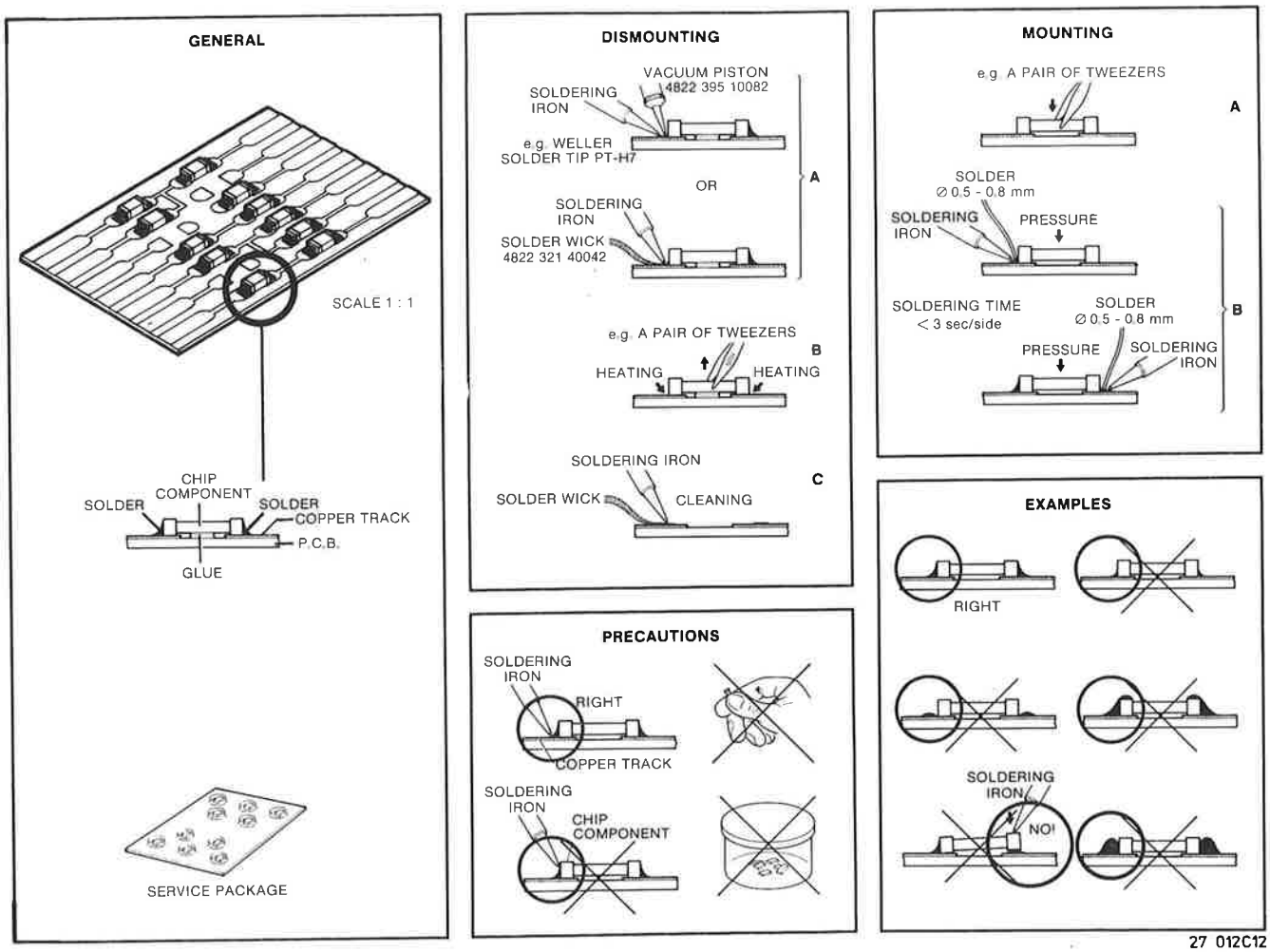
I AVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche. (ESD)
La loro longevità potrebbe essere fortemente ridatta 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.

SERVICE HINTS

In the set chip components have been applied.

For disassembly of chip components see the figure bellow.



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SERVICING HINTS

Servicing the speakers:

Take off the front grill from the loudspeakerbox.

Tweeter:

Remove the four screw protections by using a point.
Prick the screw protection in the middle and pull it out.
Unscrew the tweeter and replace it.
Remark: You need four new screwprotections!

Woofers:

Pull the ornamental ring off and clear him from the old glue rests.
Unscrew the woofer and take it apart.
Remove also the gluerests on the front of the box.
A woodchisel could be helpfull but, beware for scratches and damages.
Replace the woofer and cleave the ornamental ring back on his place, use there for rectavit-glue.

The coil:

To have acces to the ferrite coil, you need to remove the isophase tweeter.
The coil is mounted in the box by a PZD headed screw.

Led unit and frontplate:

Remove the two screwcaps. Pull it out using a flat screwdriver but beware for scratches on the frontplate.
Unscrew and you will have acces to the led unit.
We remark that in case a full disconnection or replacement of it is needed, the bottemplate aswell as the backplate of the loudspeakerbox must be demounted.
Laying the box on his side could be helpfull in this action.
When you assemble the backplate in to the loudspeakerbox beware that the cables are well positioned.

Explanation of the abbreviations

ADIC	= Audio Digital Input Circuit
BCLK	= Bit Clock
BS DAC	= Bitstraem Digital to Analog converter
BIC	= Bus Interface Circuit
DATA IN	= Data in
DATA OUT	= Data out
DIG CONTROL	= Digital control
DSP HOST BUS	= Digital Signal Processor to Host processor Bus
EBU	= European Broadcast Union
EBU DISABLE	= European Broadcast Union Disable
FRAME SYNC	= Frame Synchronisation
HOST DSP BUS	= Host processor to Digital Signal processor Bus
IR EYE	= Infra Red Eye
MUTE	= Mute (active low)
Ph COMP LED	= Phase Compensation led
PWR FAILURE	= Power Failure
RESET	= Reset (active low)
STBY	= Standby (active low)
STBY/ON LED	= Standby on Led
STEREO R	= Stereo Right
STEREO L	= Stereo Left
TW PROT LED	= Tweeter Protect Led
WCLK	= Word Clock
+5 S	= +5 Volt switched

SERVICE TEST PROGRAM

GENERAL

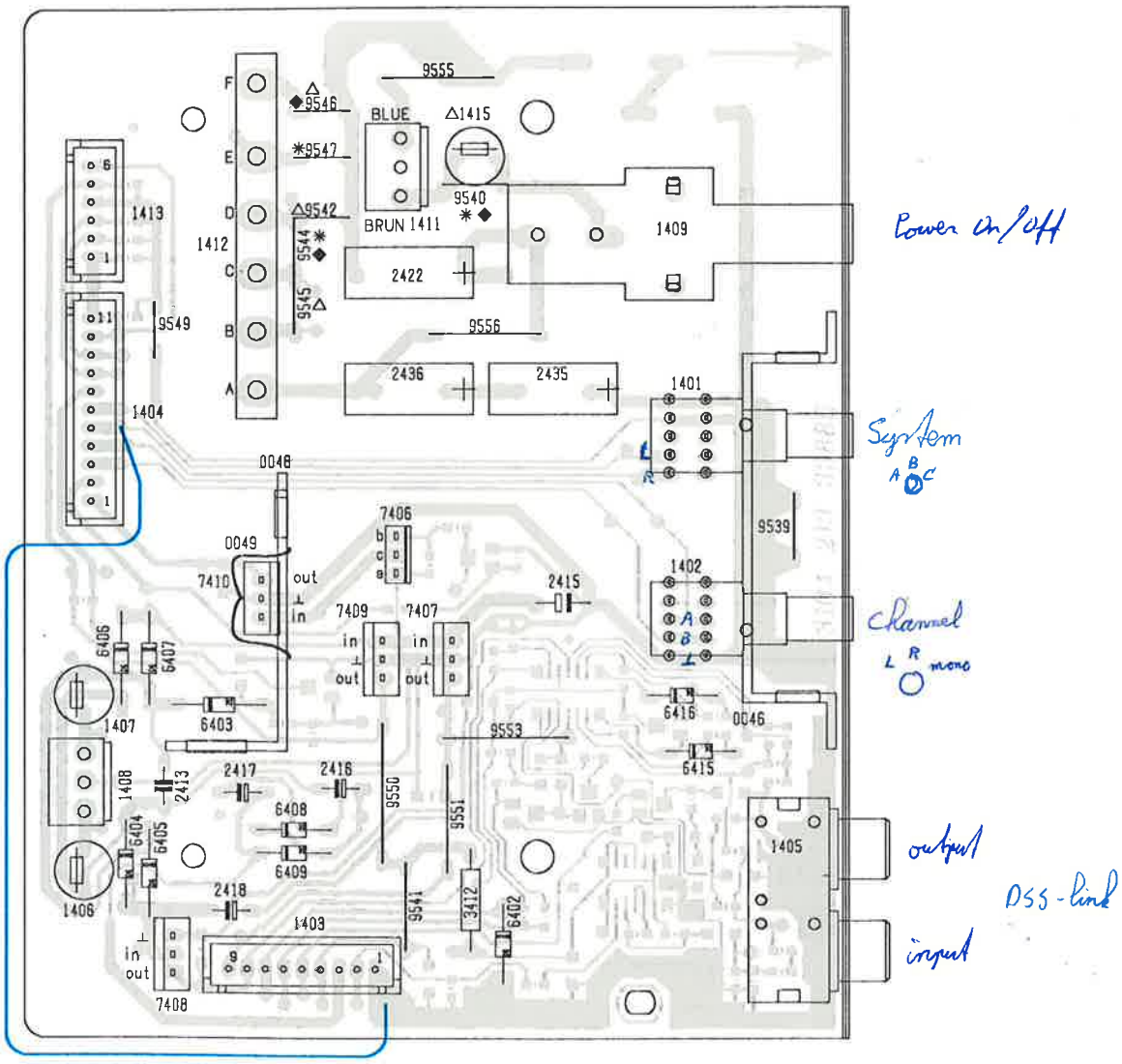
With this testprogram we can generate two sinuses,one from 5,12kHz for the tweeter circuit and one from 170Hz for the woofer circuit

To go on the testmode we have to connect first on the interface and power suppy board (see fig 1) on plug 1404 pin 4 and pin 5 to massa,and put the speakers switch 1402 in position B and channel switch 1401 in position Left. When this is done put the power on.

To go out of this mode switch power off,and disconnect the pins 4 and 5 on plug 1404 from massa and put power back on.

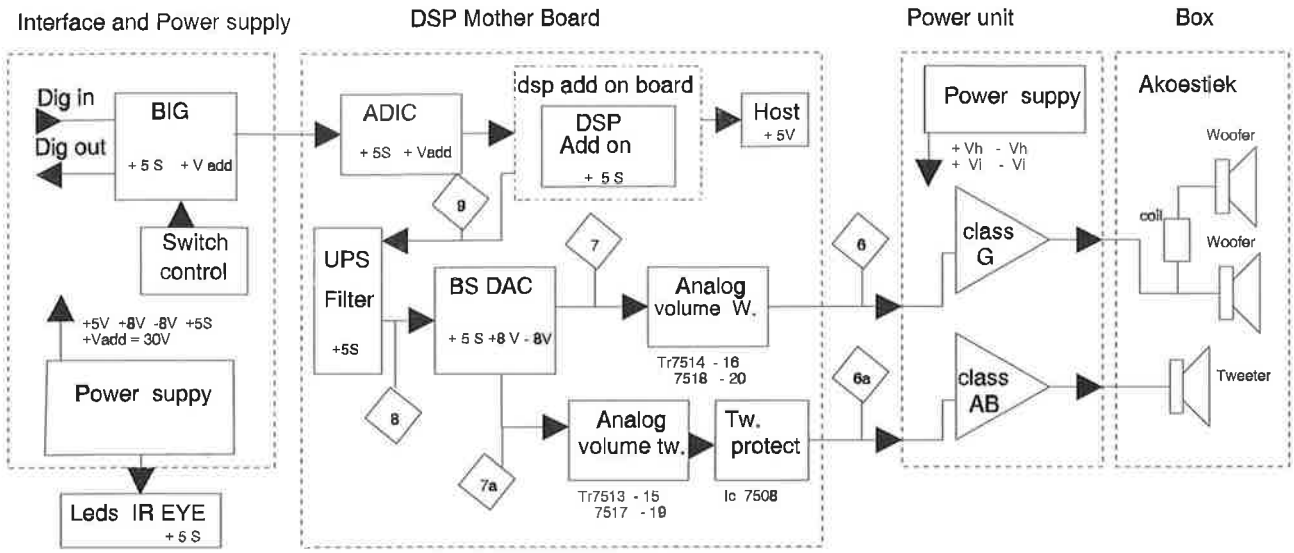
Out of the service test program we can let the box work with out the DSP board.Connect on plug 1504 pin 3 and pin 9 so that we can let the box work without the DSP board.
When the box works with out the DSP board then you must be careful with the high frequency for the tweeter not to be damaged.

Fig 1



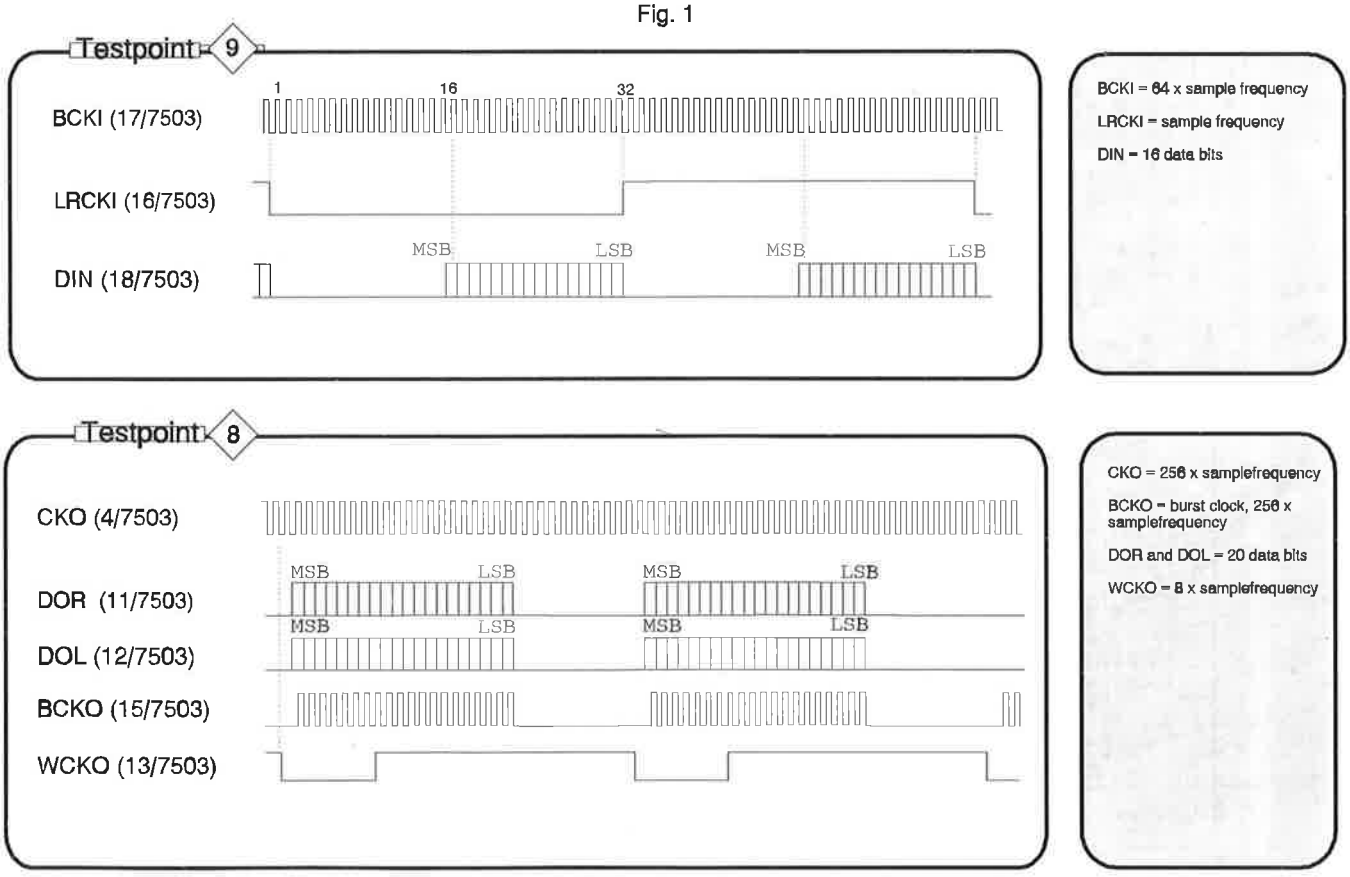
Connection for Service mode

BLOCK DIAGRAM



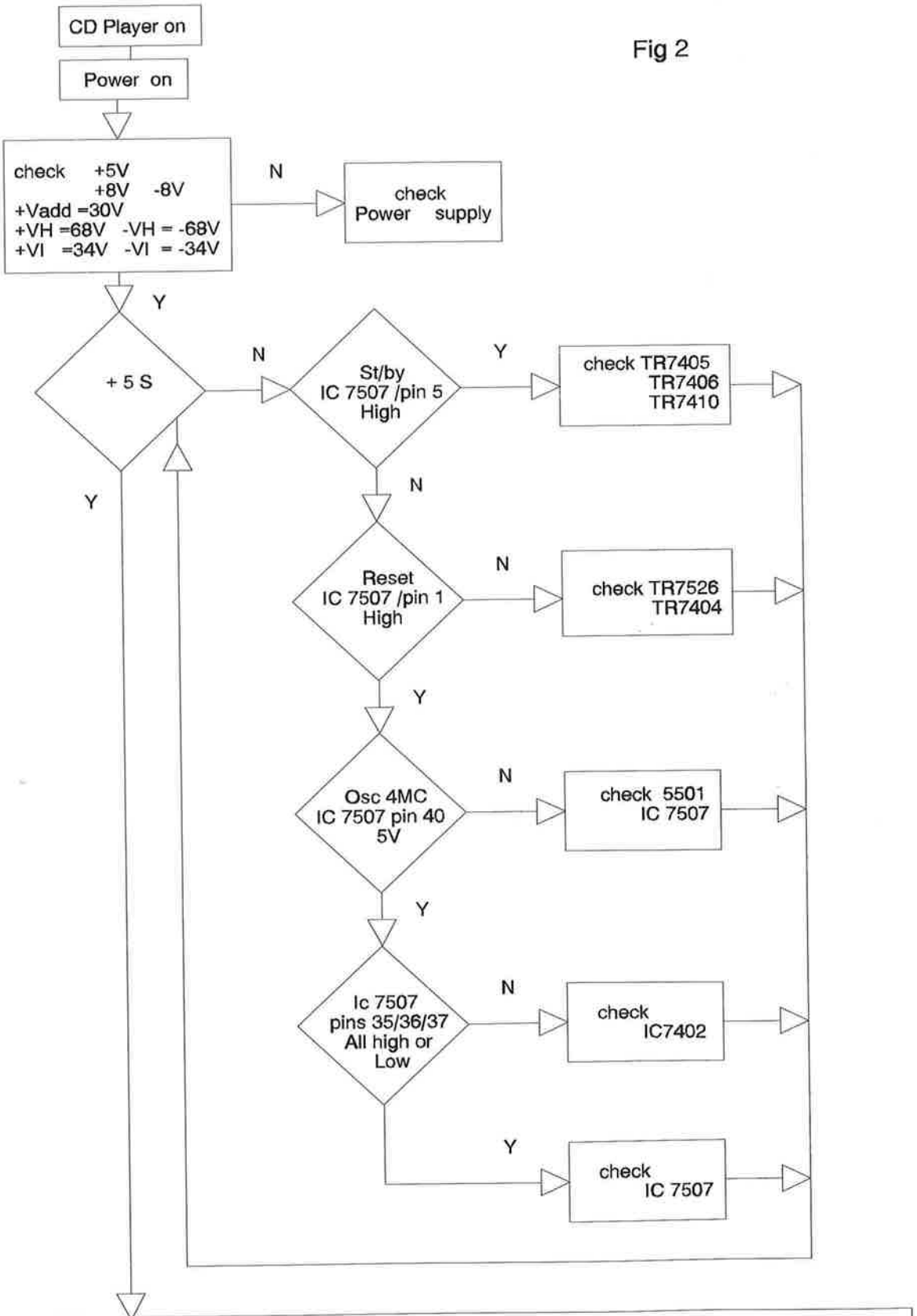
Test point 8 and 9 see fig 1

Fig. 1



FAULTFINDING TREE

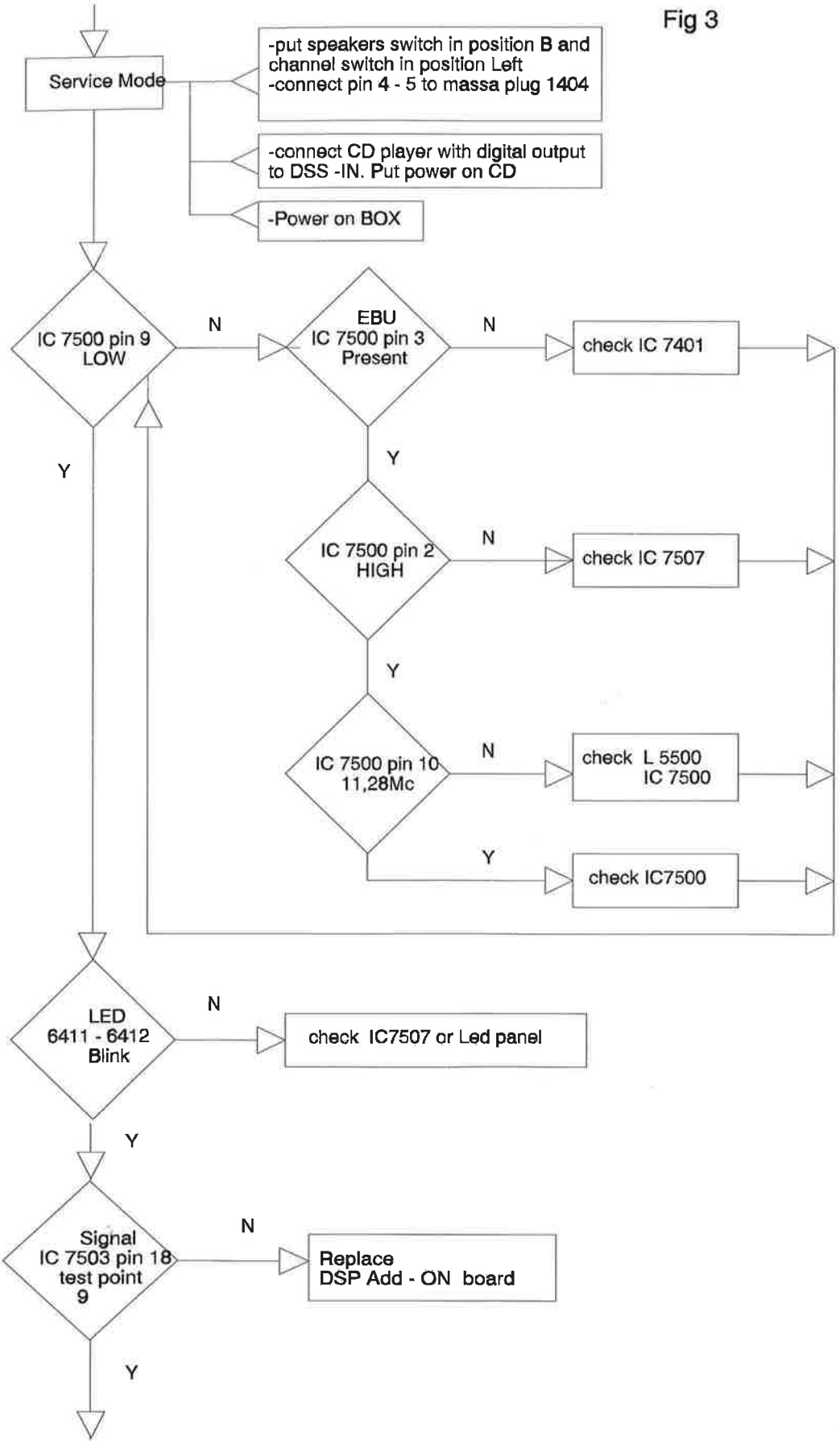
Fig 2



Goto fig 3

FAULTFINDING TREE

Fig 3



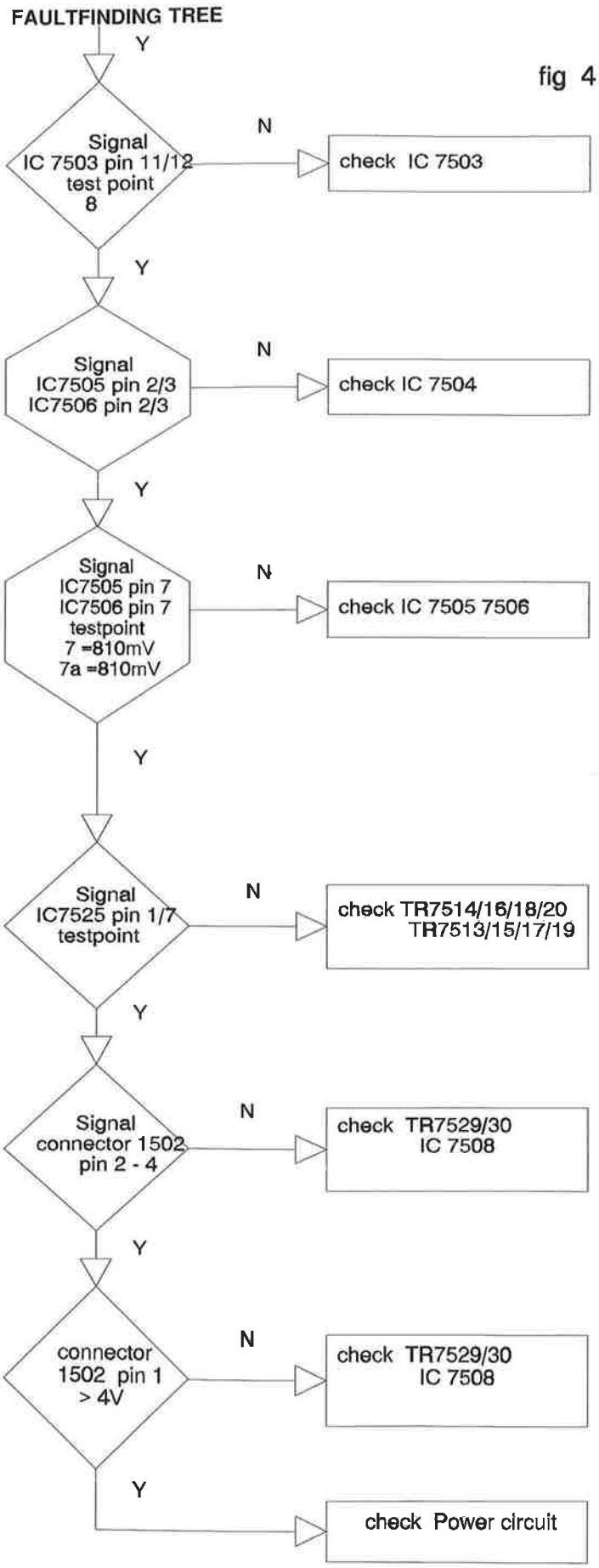
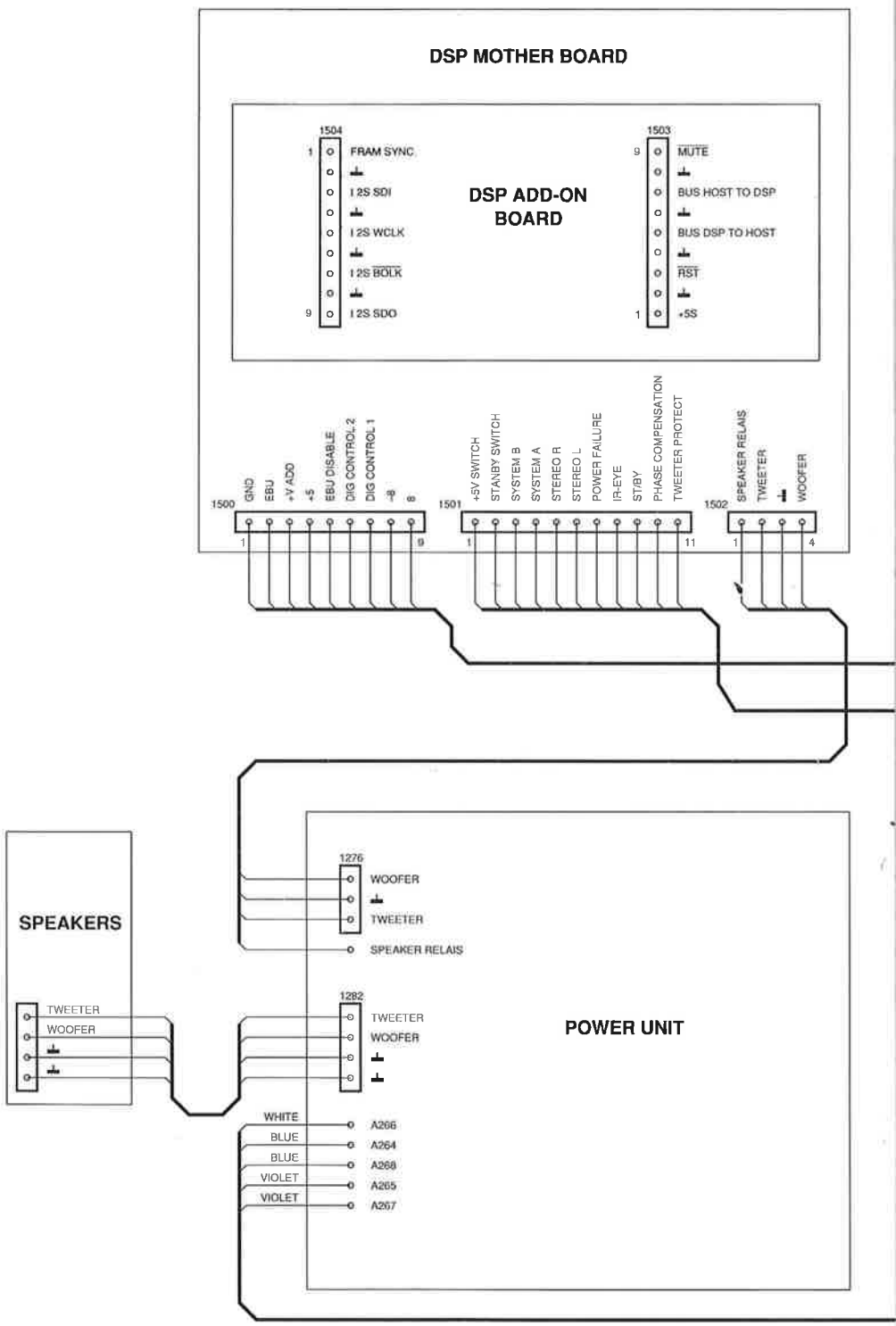
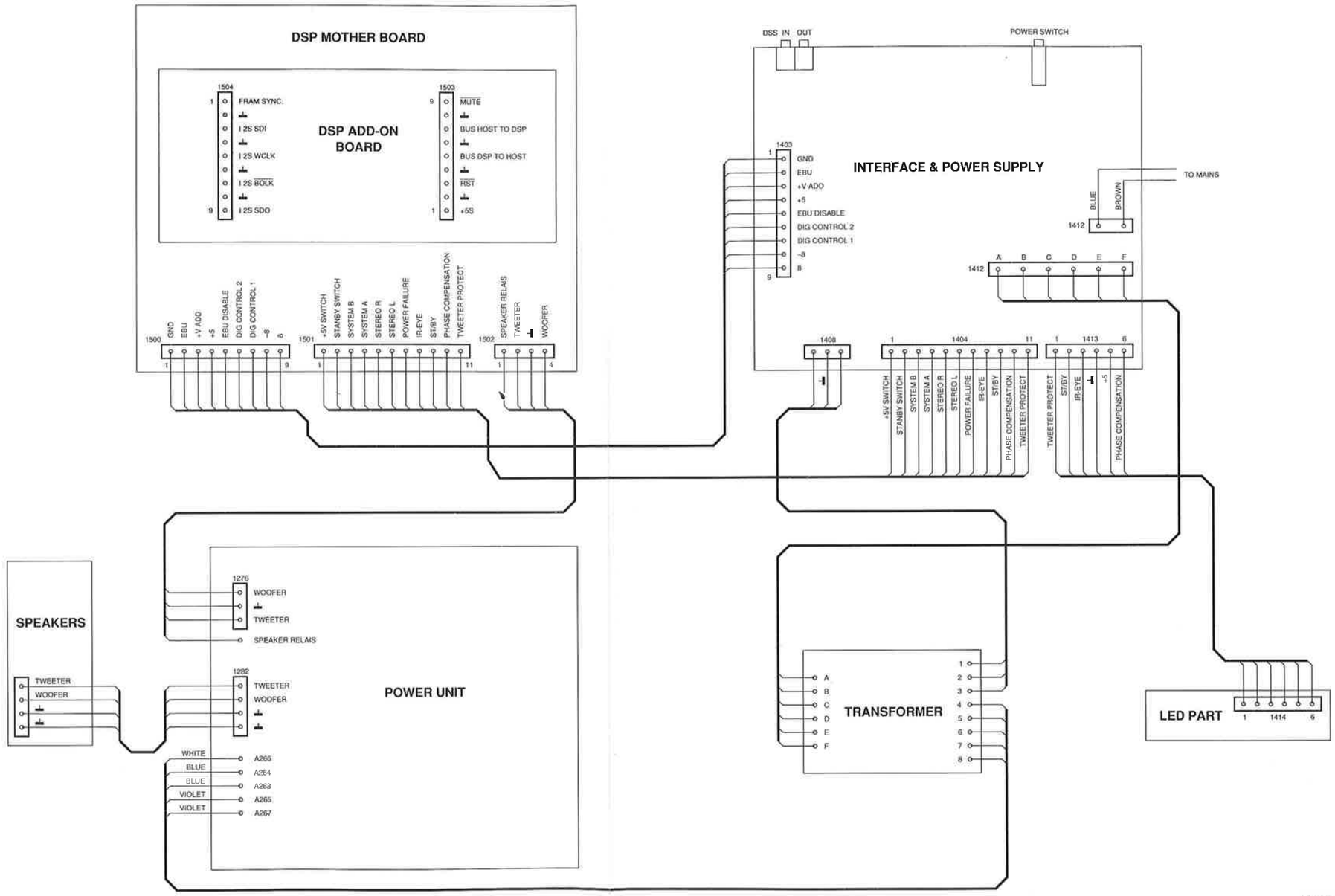

FAULTFINDING TREE
Y
Signal
IC 7503 pin 11/12
test point
8
N
check IC 7503
Y
Signal
IC7505 pin 2/3
IC7506 pin 2/3
N
check IC 7504
Y
Signal
IC7505 pin 7
IC7506 pin 7
testpoint
7 =810mV
7a =810mV
N
check IC 7505 7506
Y
Signal
IC7525 pin 1/7
testpoint
N
check TR7514/16/18/20
TR7513/15/17/19
Y
Signal
connector 1502
pin 2 - 4
N
check TR7529/30
IC 7508
Y
connector
1502 pin 1
> 4V
N
check TR7529/30
IC 7508
Y
check Power circuit

fig 4

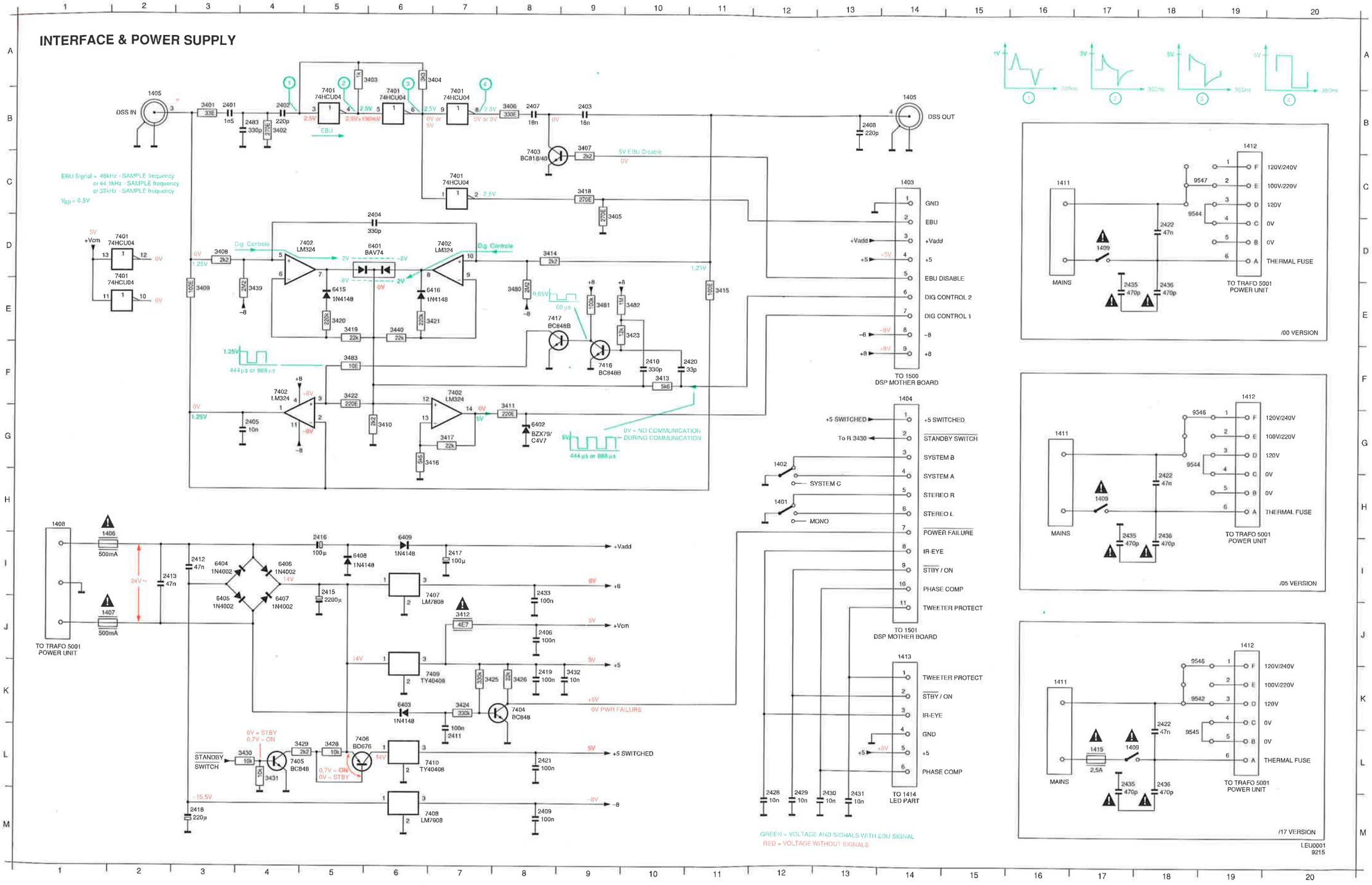
WIRING DIAGRAM

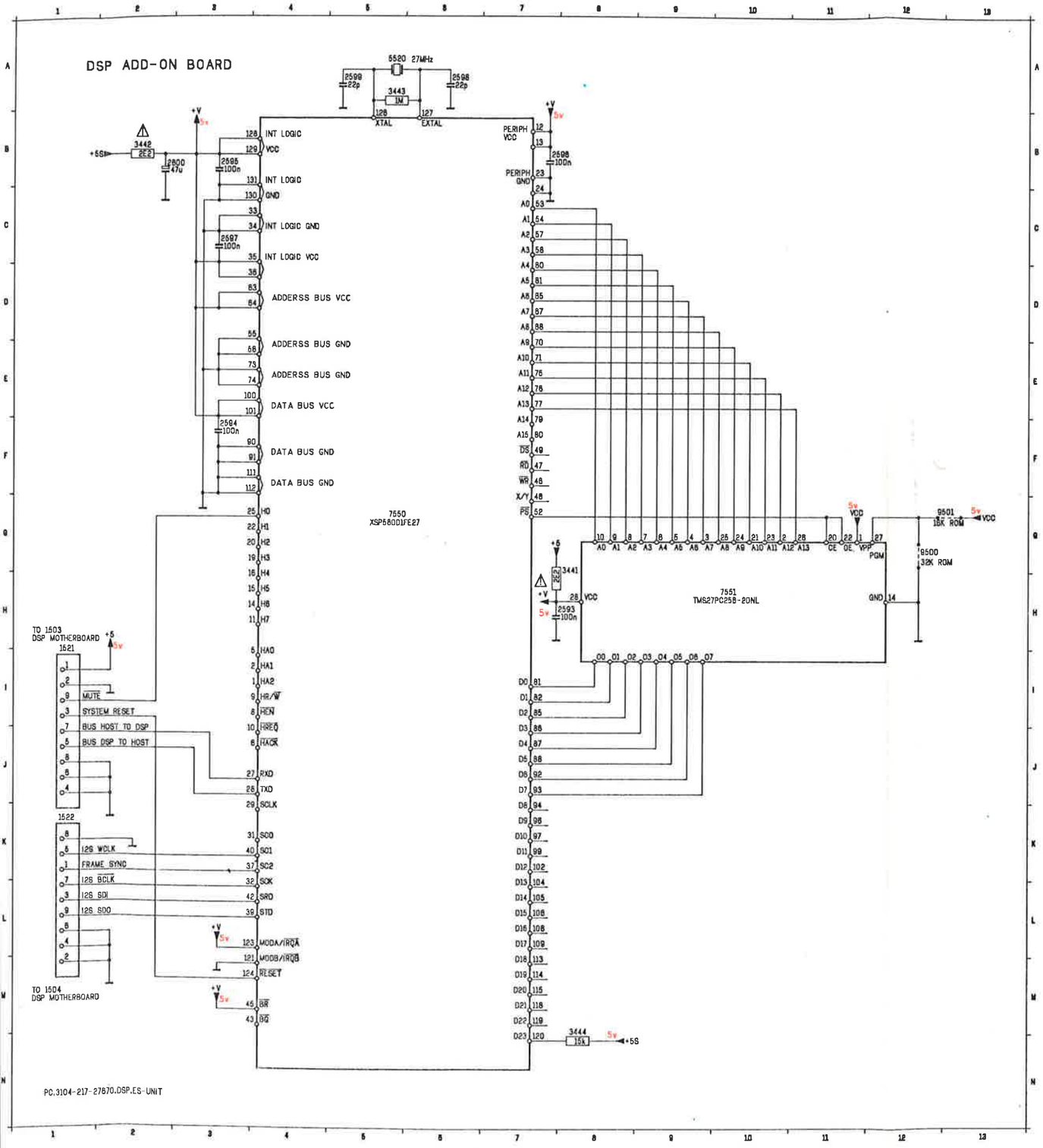


WIRING DIAGRAM



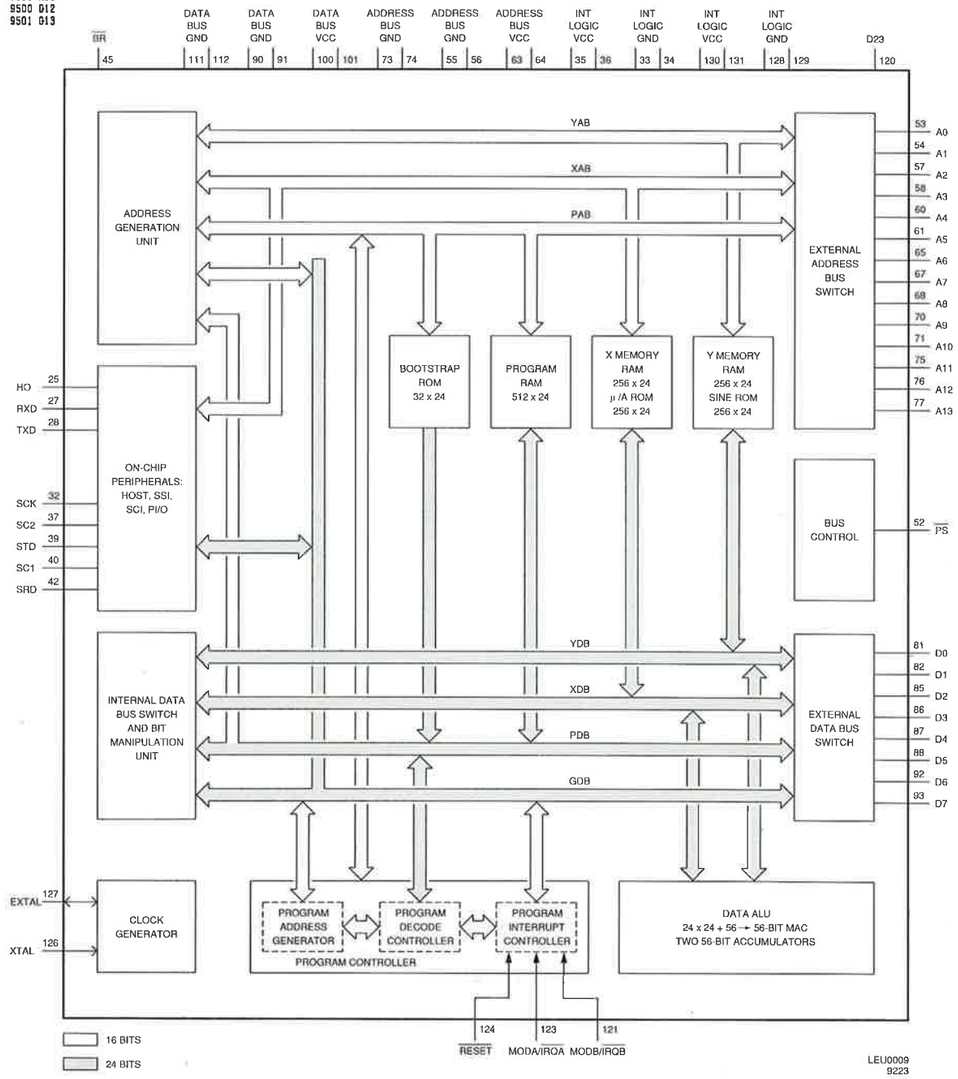
1401	H12	1405	B14	1408	H1	1411	G16	1412	B19	2401	B3	2405	G4	2409	M8	2413	I2	2418	M3	2422	H18	2429	M12	2435	H17	2436	E18	3402	B4	3406	B8	3410	G6	3414	D8	3418	C9	3422	F5	3426	K8	3431	L4	3480	E8	6402	G8	6406	I4	6415	E5	7406	L5	7410	L6
1402	G12	1405	B2	1409	H17	1411	C16	1412	J19	2402	B4	2406	J8	2410	F10	2415	I5	2419	K8	2422	D18	2430	M13	2435	E17	2436	L18	3403	A5	3407	B9	3411	G8	3415	E11	3419	E5	3423	E10	3428	L5	3432	K9	3481	E9	6403	K6	6407	J4	6416	E6	7407	I6	7416	F9
1403	C14	1406	I1	1409	D17	1411	K16	1413	J14	2403	B9	2407	B6	2411	L7	2416	I5	2420	F10	2422	K18	2431	M13	2435	L17	2483	B4	3404	A6	3408	D3	3412	J7	3416	G6	3420	E5	3424	K7	3429	L4	3439	E4	3482	E10	6404	I3	6408	I5	7404	K8	7408	M6	7417	E8
1404	F14	1407	J1	1409	L17	1412	F19	1415	L17	2404	D6	2408	B13	2412	I3	2417	I7	2421	L8	2428	M12	2433	I8	2436	H18	3401	B3	3405	D9	3409	E3	3413	F10	3417	G7	3421	E6	3425	K7	3430	L4	3440	E6	3483	F5	6405	J3	6409	I6	7405	L4	7409	K6		

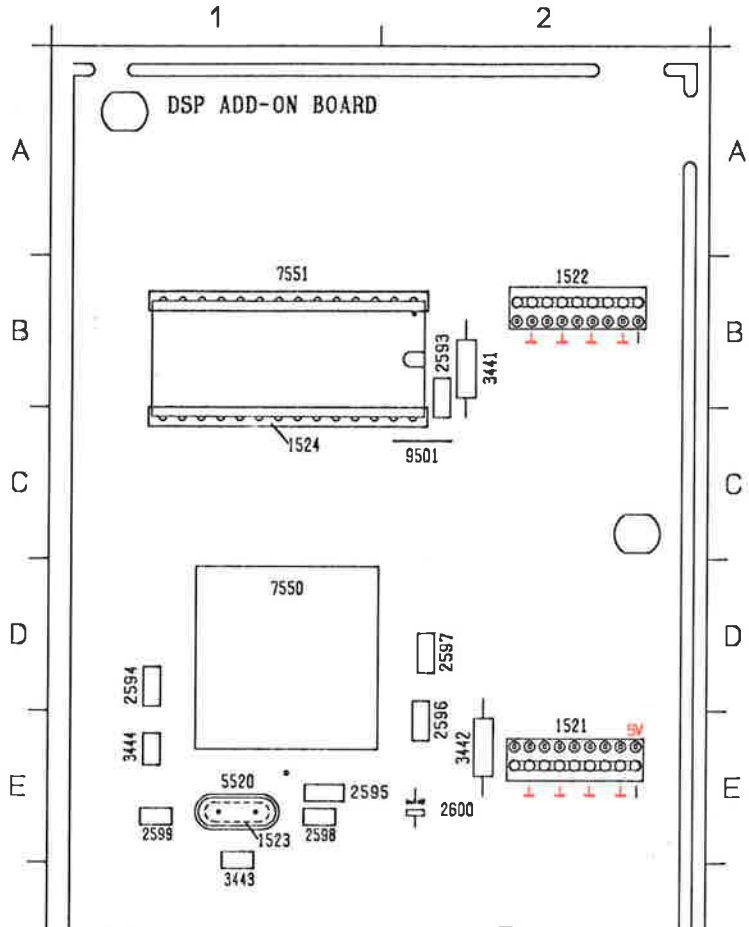




1521 I1
1522 K1
2593 H8
2594 F3
2595 B3
2596 B7
2597 C3
2598 A6
2599 A5
2600 B2
3441 G8
3442 B2
3443 A5
3444 H8
5520 A5
7550 D5
7551 H10
9500 D12
9501 D13

IC7550
XSDSP56001

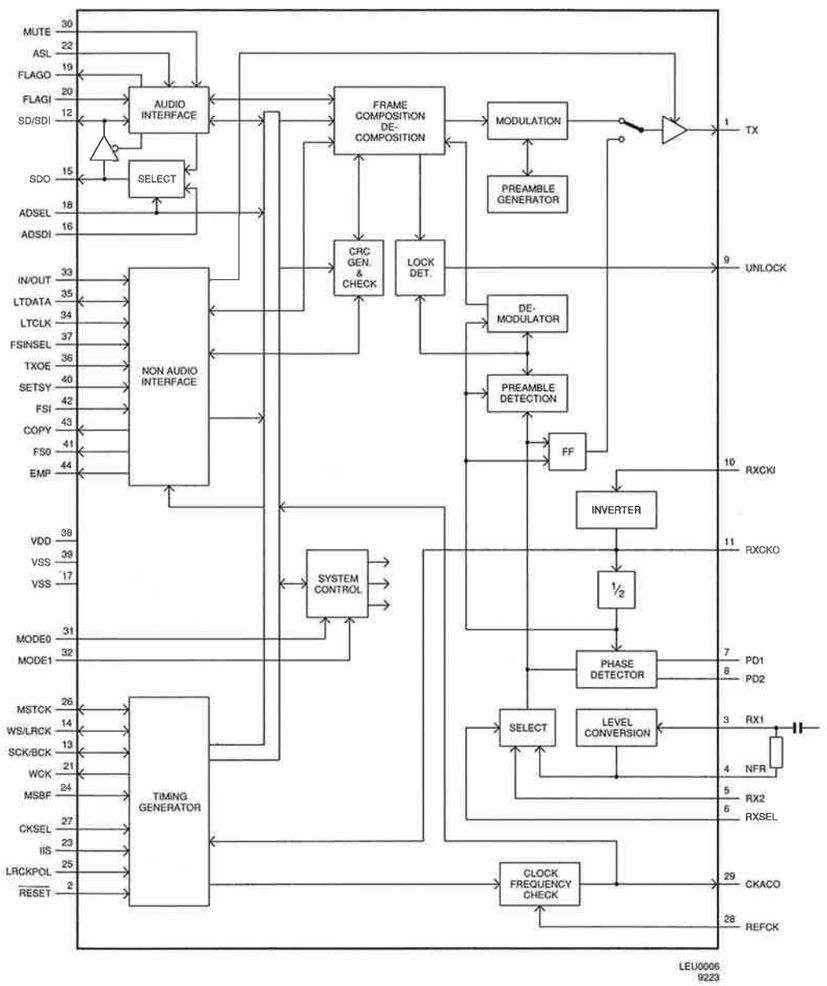




1521 E2
1522 B2
1523 E1
1524 C1
2593 B2
2594 D1
2595 E1
2596 E2
2597 D2
2598 E1
2599 E1
2600 E2
3441 B2
3442 E2
3443 F1
3444 E1
5520 E1
7550 D1
7551 B1
9501 C2

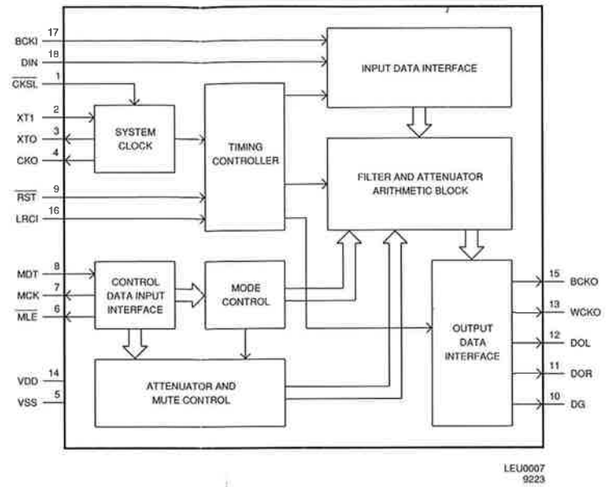
E2
B2
E1
C1
B2
D1
E1
E2
D2
E1
E1
E2
B2
E2
F1
E1
E1
D1
B1
C2

IC7500
M51581FP



LEU0006
9223

IC7503
SM5840AP



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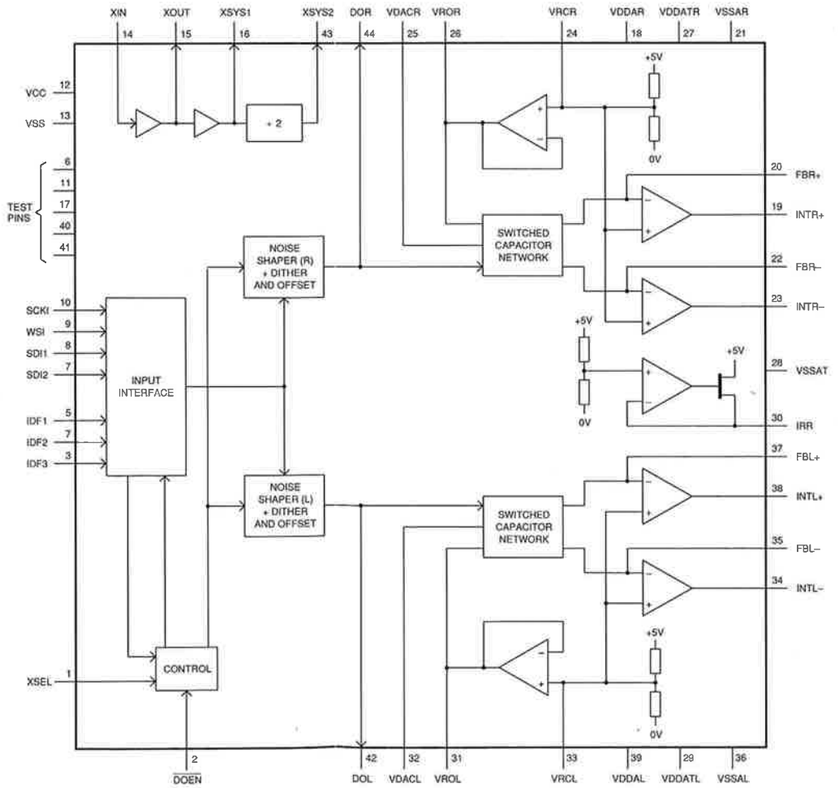
IC7504
SAA7350



LEU0010
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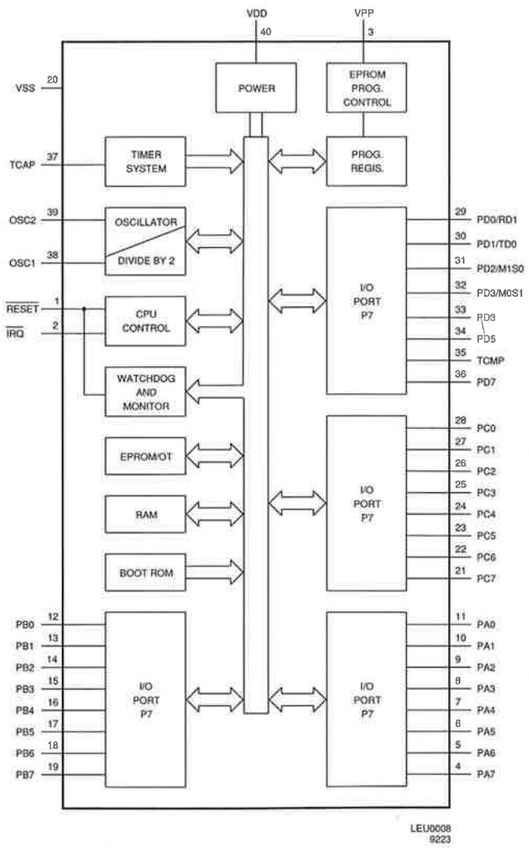
IC7507
MCM68HC05C4



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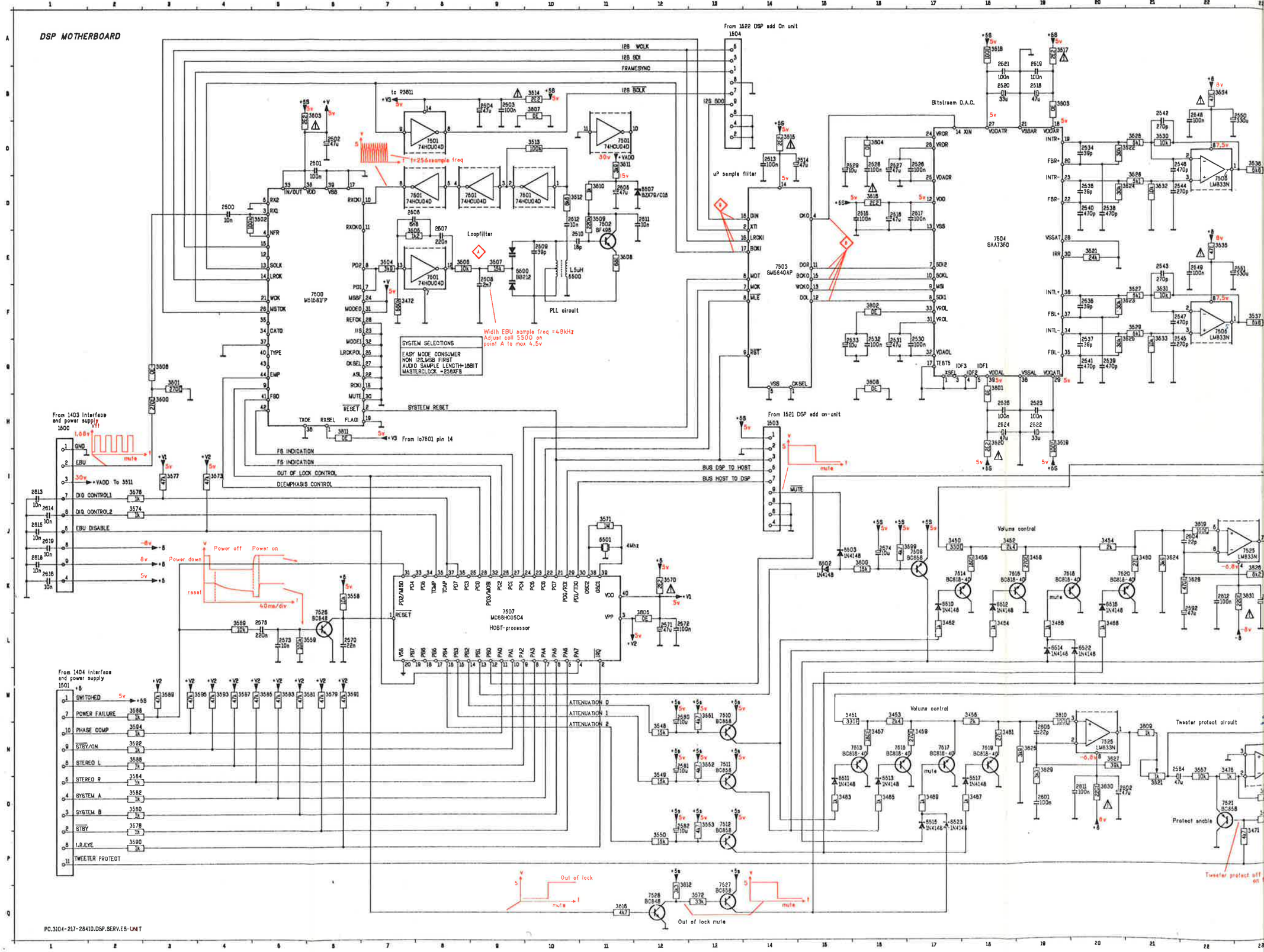
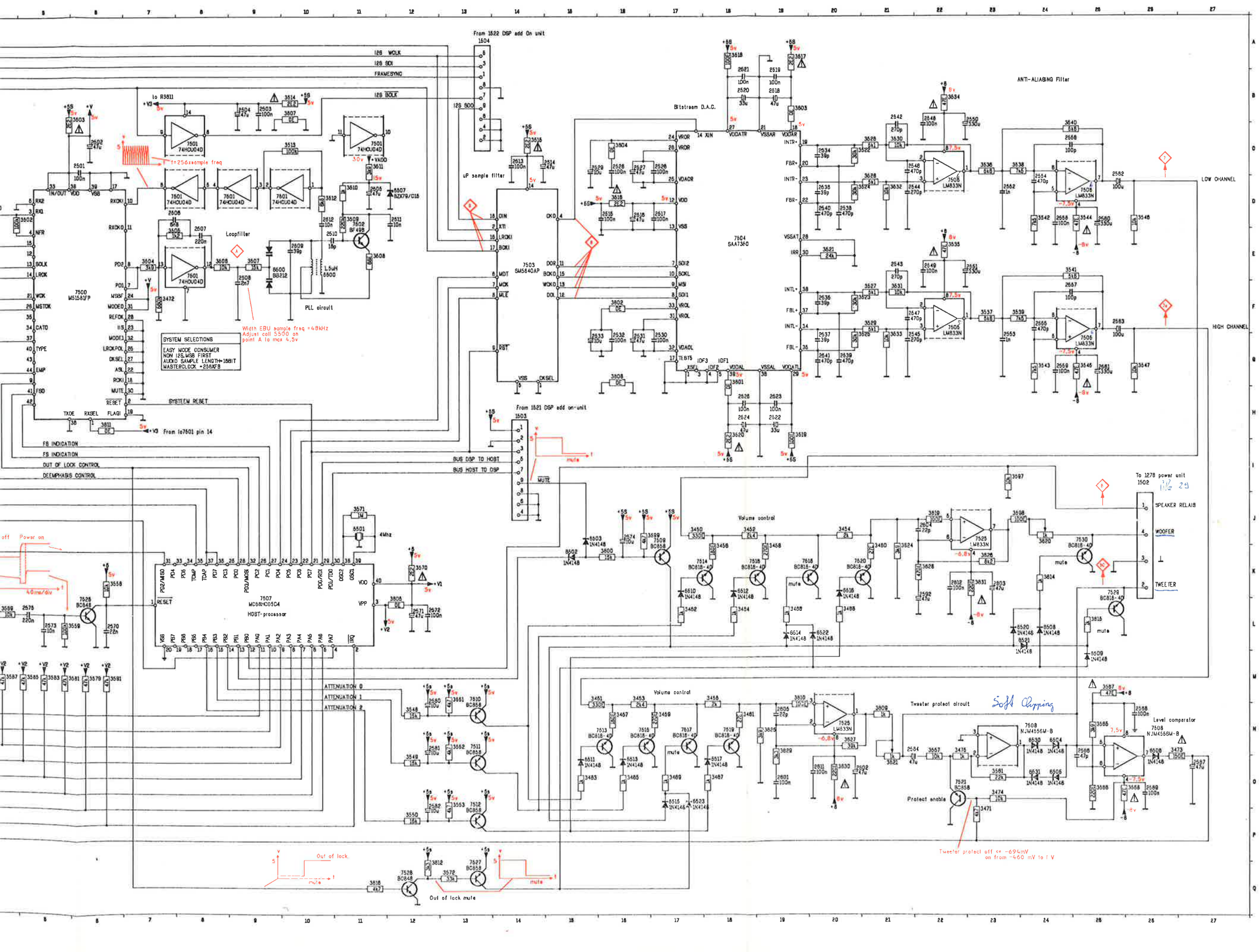

DSP MOTHERBOARD
From 1522 DSP add On unit
1504
I2S WCLK
I2S SDI
FRAMESYNC
I2S BCLK
I2S SDO
to R3811
Bitstream D.A.C.
7504
SAA7340
uP sample filter
7503
SM5640AP
7500
M51681FP
Loopfilter
PLL circuit
SYSTEM SELECTIONS
EASY MODE CONSUMER
NON I2S,MSB FIRST
AUDIO SAMPLE LENGTH=18BIT
MASTERCLOCK =256XFS
With EBU sample freq =48kHz
Adjust coil 5500 on
point A to max 4,5v
SYSTEM RESET
From 1403 interface
and power supply
1600
From 1521 DSP add on-unit
1503
BUS DSP TO HOST
BUS HOST TO DSP
MUTE
FS INDICATION
FS INDICATION
OUT OF LOCK CONTROL
DEEMPHASIS CONTROL
EBU DISABLE
Power off
Power on
Power down
reset
40ms/div
7507
MC68HC05C4
HOST-processor
4Mhz
From 1404 interface
and power supply
1501
SWITCHED
POWER FAILURE
PHASE COMP
STBY/ON
STEREO L
STEREO R
SYSTEM A
SYSTEM B
STBY
I.R.EYE
TWEETER PROTECT
ATTENUATION 0
ATTENUATION 1
ATTENUATION 2
Volume control
Tweeter protect circuit
Protect enable
Tweeter protect off
Out of lock
Out of lock mute
PC.3104-217-28410.DSP.SERV.ES-UNIT



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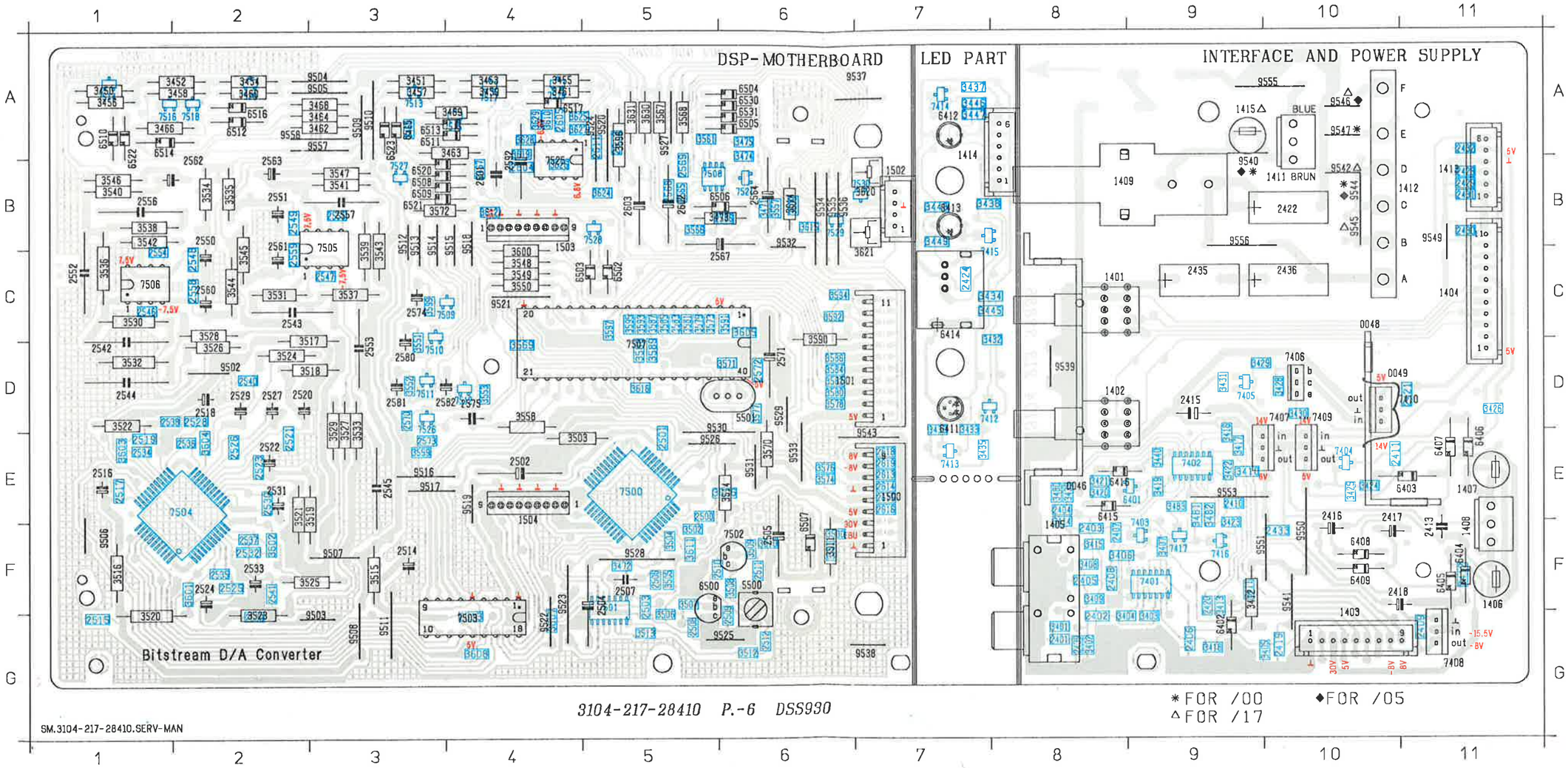

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SM.3104-217-28410.SERV-MAN

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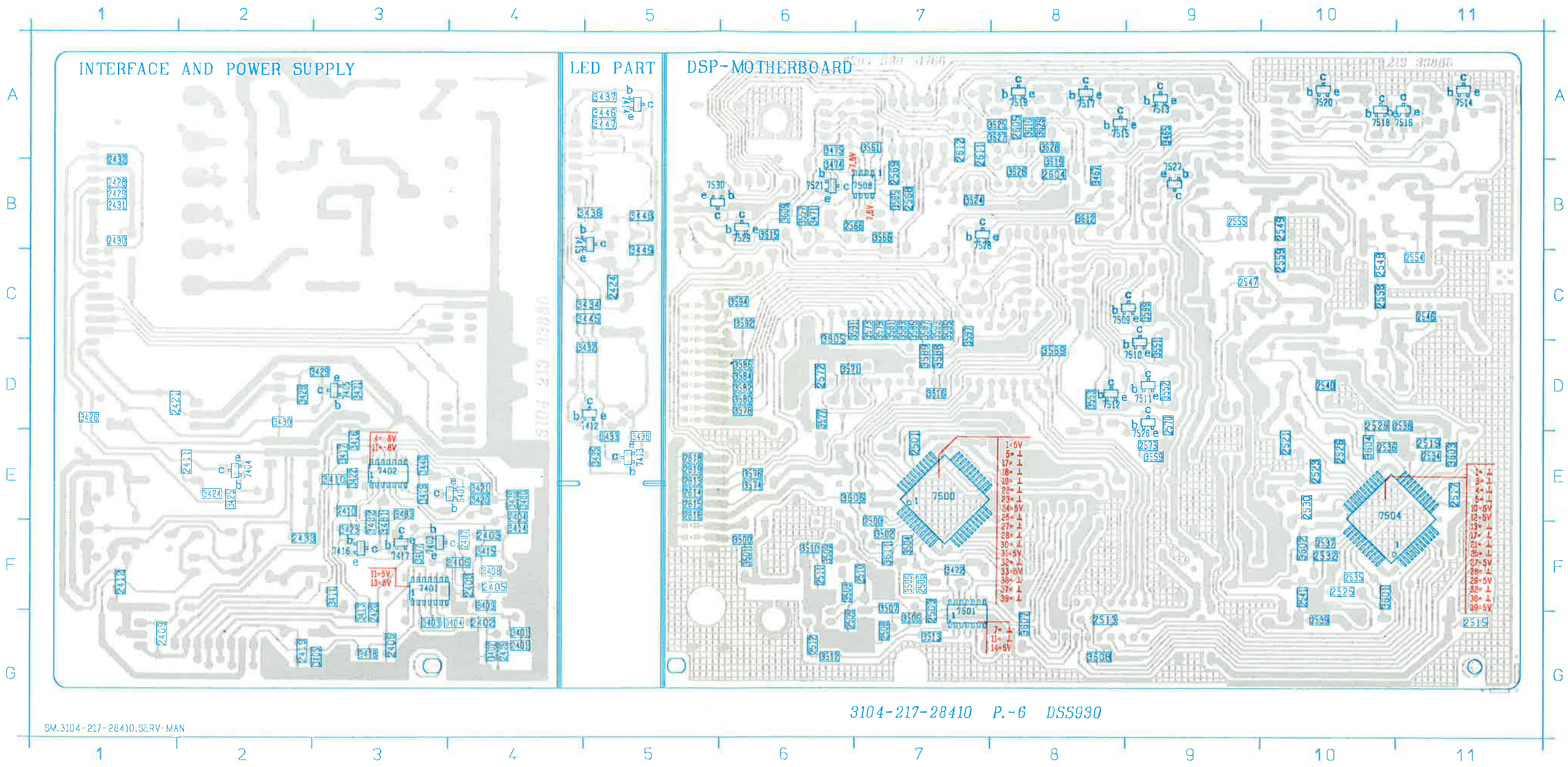

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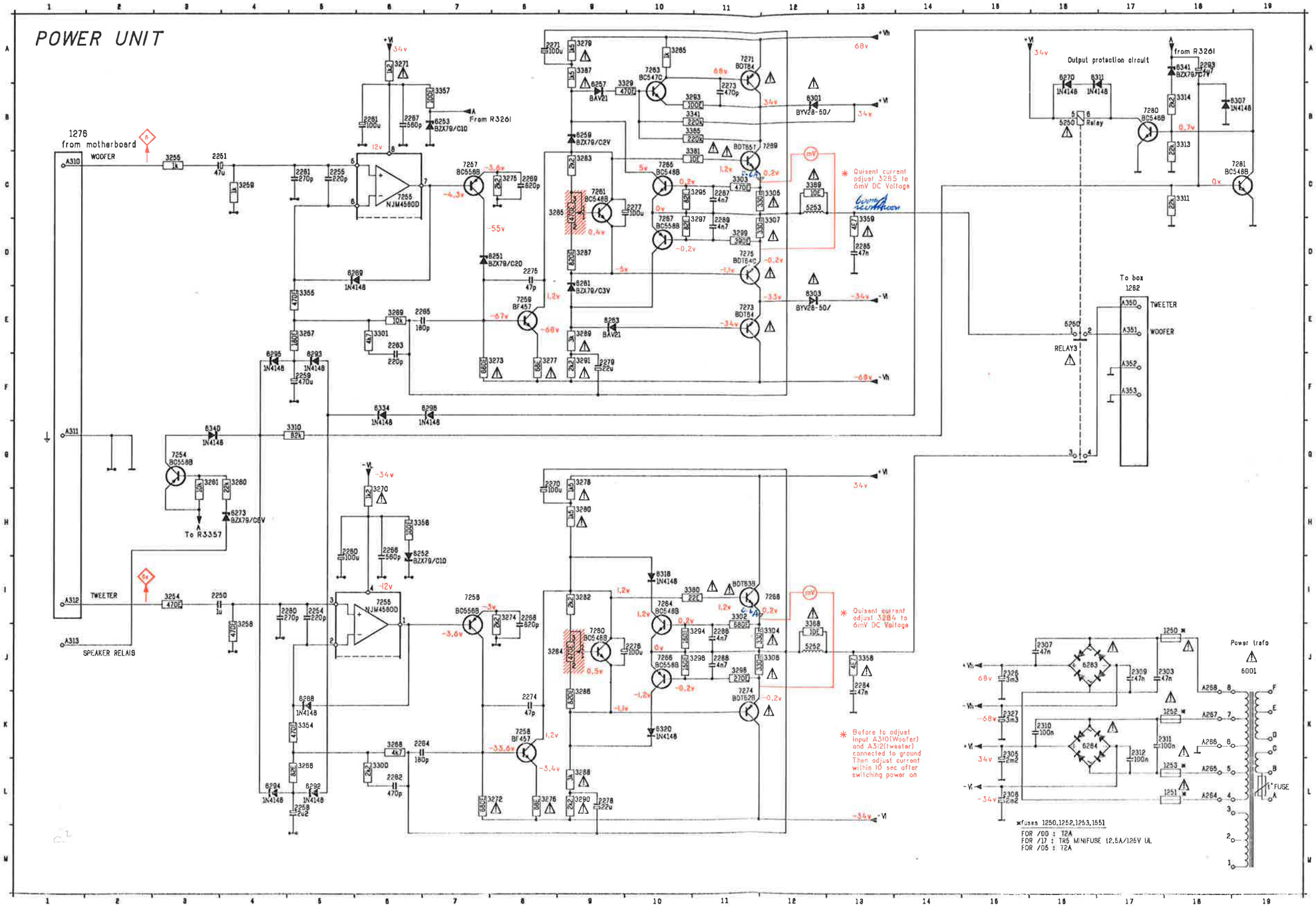

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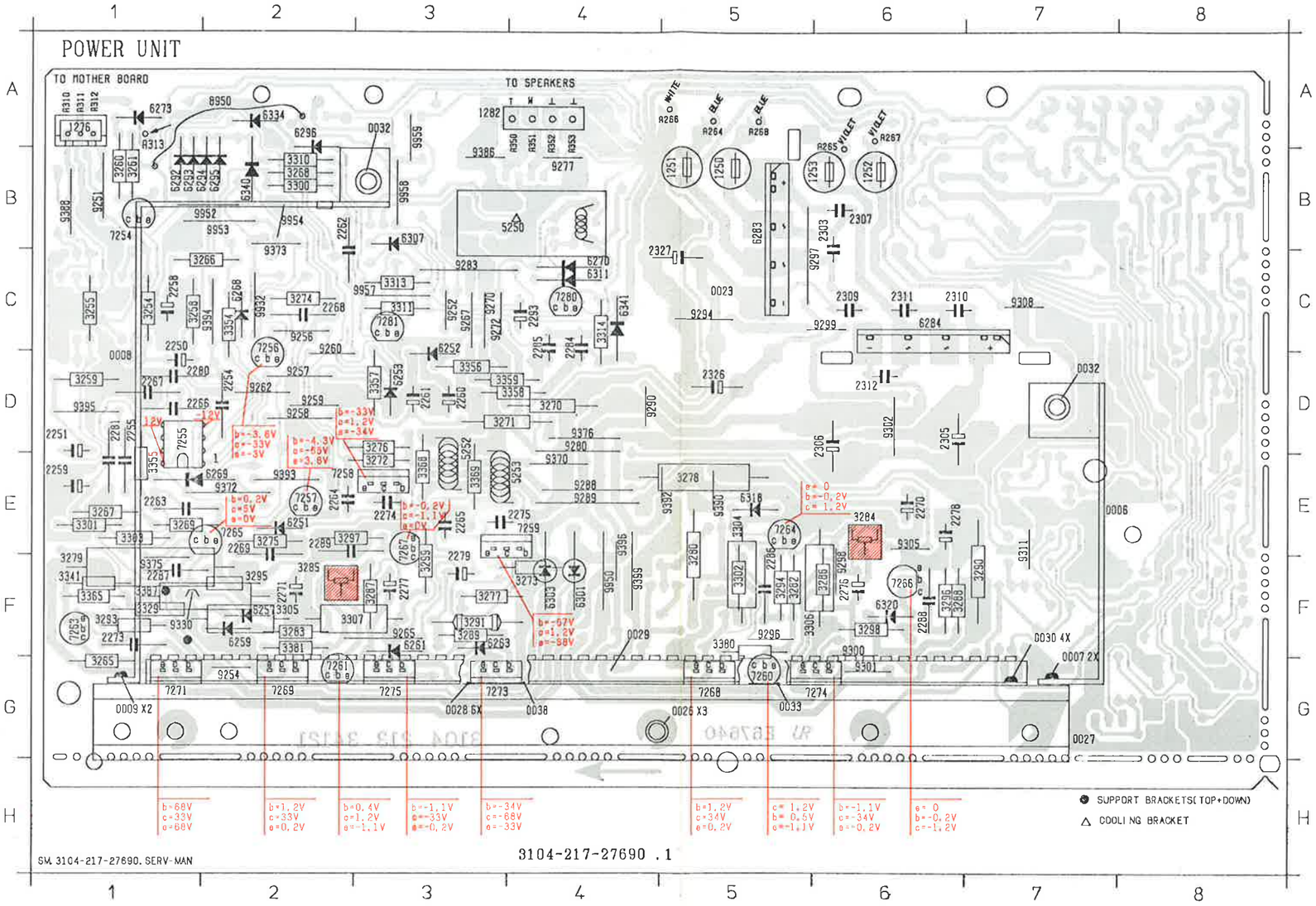
BDT 63B
BDT 62B

} Allen zijn Darlingtons.

POWER UNIT



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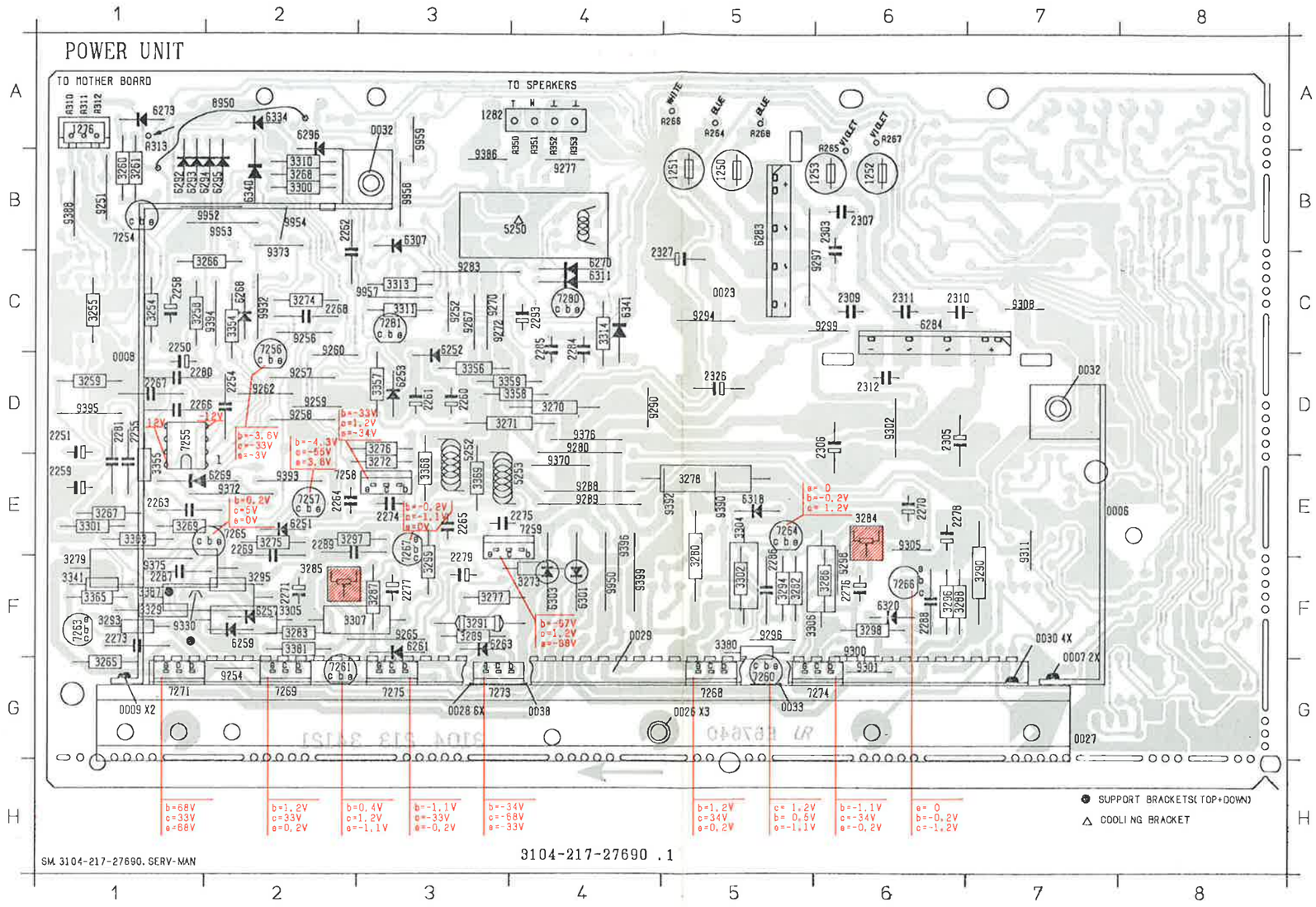

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2268 C2 3306 F6 9256 C2
2269 E2 3307 F2 9257 D2
2270 E6 3310 B2 9258 D2
2271 F2 3311 C3 9259 D2
2273 F1 3313 C3 9260 D2
2274 E3 3314 C4 9262 D2
2275 E4 3329 F1 9265 F3
2276 F6 3341 F1 9267 C3
2277 F3 3354 C2 9270 C3
2278 E6 3355 E1 9272 C3
2279 F3 3356 D3 9277 B4
2280 D1 3357 D3 9280 D4
2281 D1 3358 D4 9283 C3
2284 C4 3359 D4 9288 E4
2285 C4 3365 F1 9289 E4
2286 F5 3368 E3 9290 D4
2287 F1 3369 E3 9294 C5
2288 F6 3380 F5 9296 F5
2289 E2 3381 F2 9297 C6
2293 C4 3387 F1 9298 F6
2303 B6 5250 B4 9299 C6
2305 D6 5252 D3 9300 F6
2306 D6 5253 E4 9301 G6
2307 B6 6251 E2 9302 D6
2309 C6 6252 D3 9305 E6
2310 C6 6253 D3 9308 C7
2311 C6 6257 F2 9311 E7
2312 D6 6259 F2 9330 F1
2326 D5 6261 F3 9370 E4
2327 C5 6263 F3 9372 E2
3254 C1 6268 C2 9373 C2
3255 C1 6269 E2 9375 F1
3258 C1 6270 C4 9378 D4
3259 D1 6273 A1 9386 B3
3260 B1 6283 B5 9388 B1
3261 B1 6284 C6 9390 E5
3265 G1 6292 B1 9392 E5
3266 C2 6293 B1 9393 E2
3267 E1 6294 B2 9394 C2
3268 B2 6295 B2 9395 D1
3269 E1 6296 A2 9396 E4

F 4
C2
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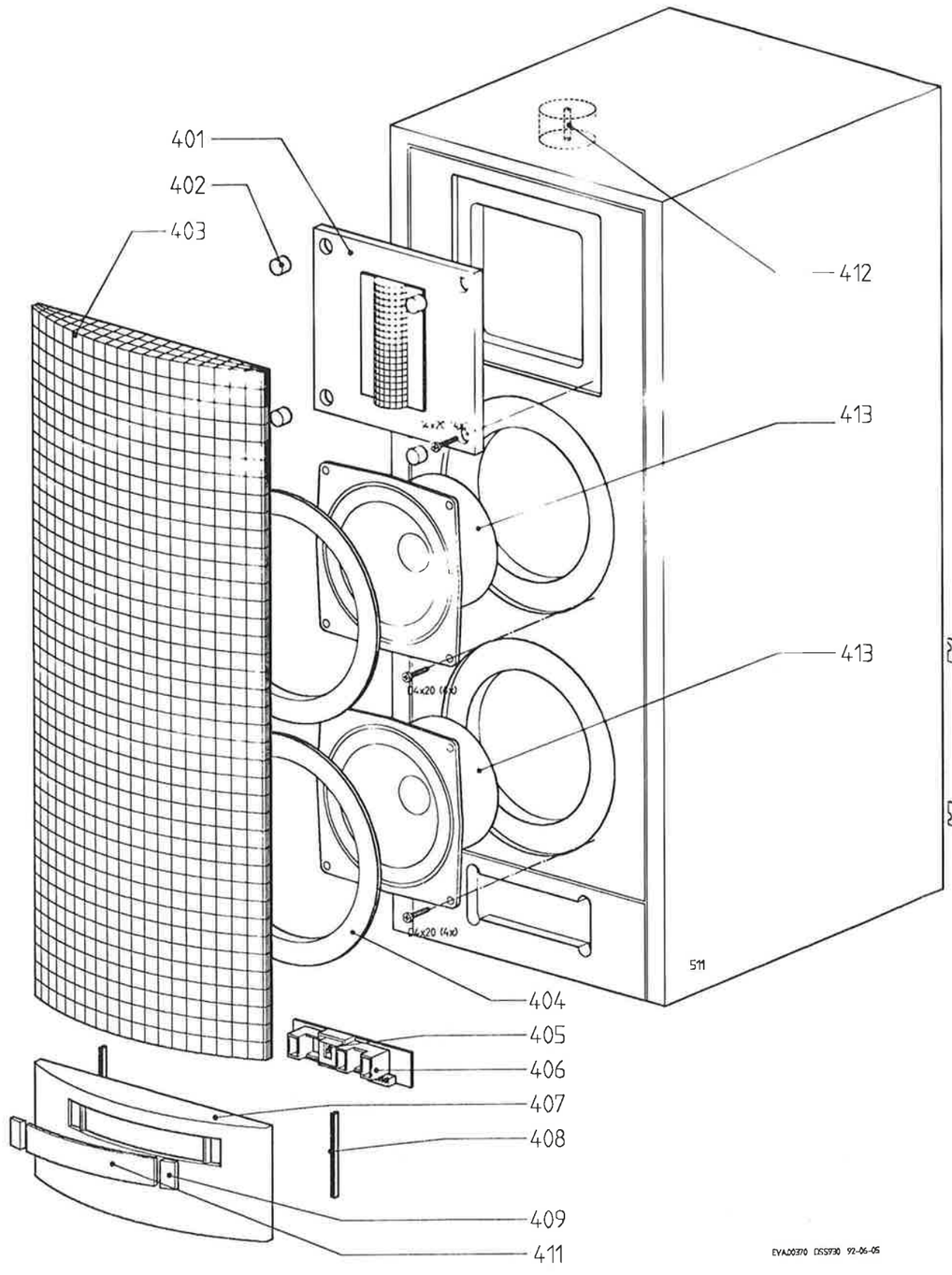
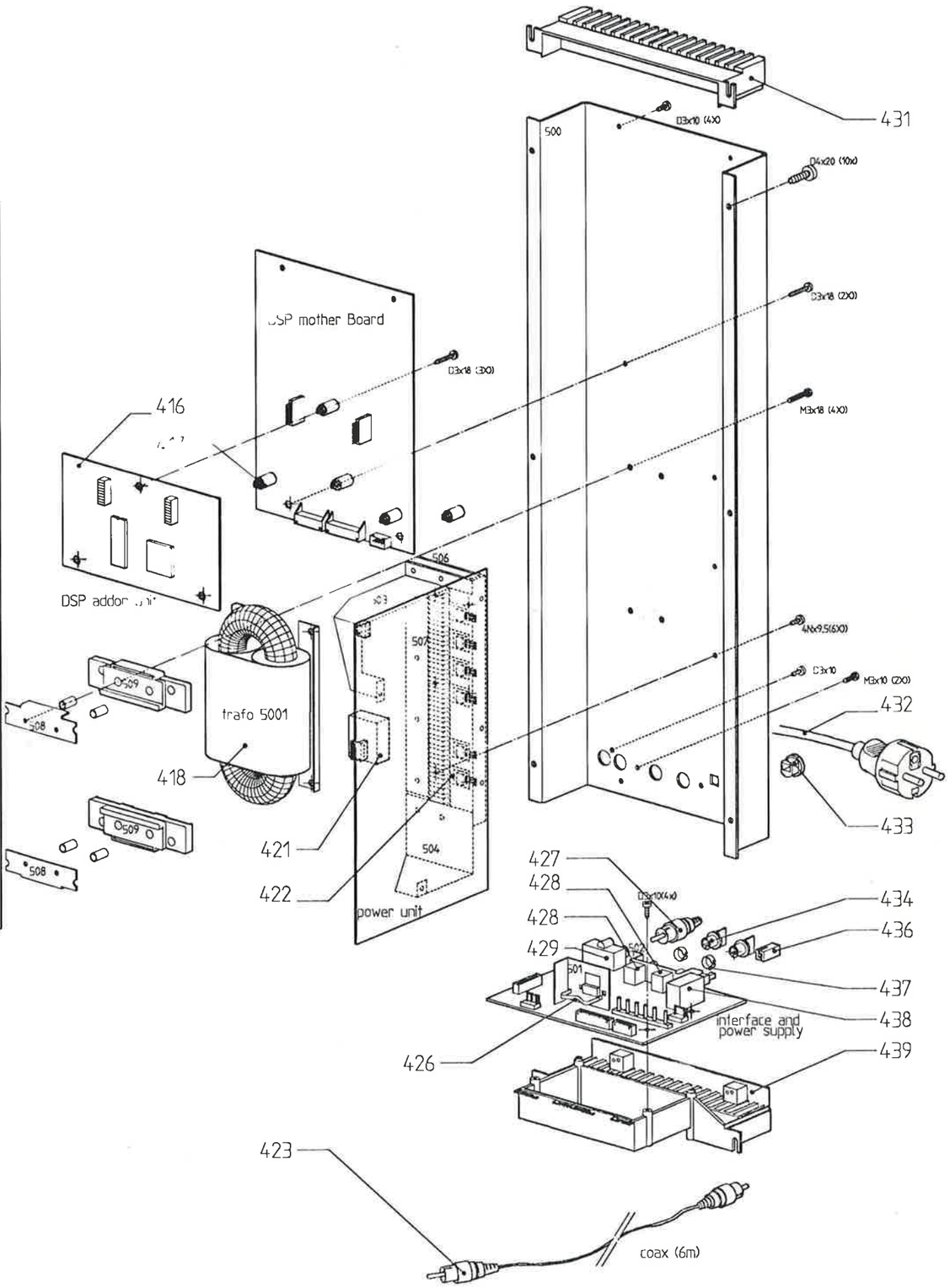
B3
A3

EXPLODED VIEW





EVA00370 DSS930 92-06-05

MECHANICAL PARTS

401	4822 240 70246	TWEETER AD21601
402	4822 502 30599	PROTECTION
403	4822 458 40559	GRILLE
404	4822 460 10971	RING ORNAMENTAL
405	4822 214 52009	IR EYE GP1U58XP
406	4822 256 91888	LED HOLDER
407	4822 445 30228	FRONT
408	4822 466 40637	MOUNTING STRIP
409	4822 454 12813	PLATE ORNAMENTAL
411	4822 450 61857	WINDOW
412	4822 158 20462	FERRITE COIL
413	4822 240 50321	WOOFER AD51602
416	4822 214 51989	DSP BOARD
417	4822 532 52454	FIXING STUD
418	4822 146 31105	MAINS TRAFO
420	4822 466 82923	RUBBER BLOCK
421	4822 280 70366	RELAY
423	4822 321 61536	COAX CABLE 75Ω
426	4822 492 63051	SPRING CLIP
427	4822 264 30327	CINCH PLUG 75Ω
⇒ 428	4822 273 20367	ROTARY SWITCH
429	4822 267 41064	SOCKET
431	4822 458 30627	COOL ORNAMENTAL ASSY
432	4822 321 10845	CORD SET
432	4822 321 10865	CORD SET /05
432	4822 321 10825	CORD SET /17
433	4822 325 80498	BUSH
434	4822 410 60119	KNOB
436	4822 410 61963	POWER BUTTON
437	4822 492 61974	SPRING
438	4822 276 13224	POWER SWITCH
439	4822 458 30628	COOL ORNAM.ASSY DOWN
	4822 736 21363	I.F.U DSS930
	4822 218 10447	REMOTE CONT.RH6860

MISCELLANEOUS

1002	4822 214 51989	DSP BOARD
1250	4822 071 52002	FUSE T 2A
1250	4822 252 51121	FUSE T 2,5A /17
1251	4822 071 52002	FUSE T 2A
1251	4822 252 51121	FUSE T 2,5A /17
1252	4822 071 52002	FUSE T 2A
1252	4822 252 51121	FUSE T 2,5A /17
1253	4822 071 52002	FUSE T 2A
1253	4822 252 51121	FUSE T 2,5A /17
1401	4822 273 20367	ROTARY SWITCH
1402	4822 273 20367	ROTARY SWITCH
1405	4822 267 41064	SOCKET
1406	4822 071 55001	FUSE T 500MA
1406	4822 253 10146	FUSE T 500MA /17
1407	4822 071 55001	FUSE T 500MA
1407	4822 253 10146	FUSE T 500MA /17
1409	4822 276 13224	POWER SWITCH
1415	4822 252 51121	FUSE T 2,5A /17
1524	5322 255 44047	IC SOCKET 28P

CAPACITORS

2250	4822 124 40242	1µF 20% 63V
2251	4822 124 40177	47µF 20% 10V
2254	4822 122 10172	220pF 10% 50V
2255	4822 122 10172	220pF 10% 50V
2258	4822 124 40244	2,2µF 20% 63V
2259	4822 124 41997	470µF 10V
2260	4822 124 41643	100µF 20% 16V
2261	4822 124 41643	100µF 20% 16V
2262	4822 122 31435	470pF 10% 50V
2263	4822 122 10172	220pF 10% 50V
2264	4822 126 11307	180pF 10% 500V
2265	4822 126 11307	180pF 10% 500V
2266	4822 122 31693	560pF 10% 50V
2267	4822 122 31693	560pF 10% 50V
2268	4822 122 10173	820pF 10% 50V
2269	4822 122 10173	820pF 10% 50V
2270	4822 124 42151	100µF 50V
2271	4822 124 42151	100µF 50V
2273	4822 122 31435	470pF 10% 50V
2274	4822 126 11308	47pF 5% 500V
2275	4822 126 11308	47pF 5% 500V
2276	4822 124 41584	100µF 20% 10V
2277	4822 124 41584	100µF 20% 10V
2278	4822 124 41596	22µF 20% 50V
2279	4822 124 41596	22µF 20% 50V
2280	4822 122 31465	270pF 10%
2281	4822 122 31465	270pF 10%
2284	4822 121 43526	47nF 5% 100V
2285	4822 121 43526	47nF 5% 100V
2286	4822 126 11311	4,7nF 50V
2287	4822 126 11311	4,7nF 50V
2288	4822 126 11311	4,7nF 50V
2289	4822 126 11311	4,7nF 50V
2293	4822 124 40246	4,7µF 20% 63V
2303	4822 121 43875	47nF 5% 250V
2305	4822 124 41998	2200µF 50V
2306	4822 124 41998	2200µF 50V
2307	4822 121 43875	47nF 5% 250V
2309	4822 121 43875	47nF 5% 250V
2310	4822 121 42007	100nF 10% 100V
2311	4822 121 42007	100nF 10% 100V
2312	4822 121 42007	100nF 10% 100V
2326	4822 124 41986	3300µF 80V
2327	4822 124 41986	3300µF 80V
2401	5322 122 31865	1,5nF 10% 63V
2402	4822 122 31965	220pF 5% 63V
2403	4822 122 31759	18nF
2404	5322 122 31863	330pF 5% 50V
2405	4822 122 32442	10nF 50V
2406	4822 122 33496	100nF 10% 63V
2407	4822 122 33893	18nF 10% 63V
2408	4822 122 31965	220pF 5% 63V
2409	4822 122 33496	100nF 10% 63V
2410	5322 122 31863	330pF 5% 50V
2411	4822 122 33496	100nF 10% 63V
2412	4822 122 32542	47nF 10% 63V
2413	4822 121 43526	47nF 5% 100V
2415	4822 124 40784	3300µF 20% 16V
2416	4822 124 41525	100µF 20% 25V
2417	5322 124 21189	100µF 20% 40V
2418	4822 124 22263	220µF 20% 25V
2419	4822 122 33496	100nF 10% 63V
2420	5322 122 32659	33pF 5% 50V
2421	4822 122 33496	100nF 10% 63V
2422	4822 121 70087	47nF 250V
2424	4822 122 33496	100nF 10% 63V
2428	4822 122 33177	10nF 20% 50V
2429	4822 122 33177	10nF 20% 50V
2430	4822 122 33177	10nF 20% 50V
2431	4822 122 33177	10nF 20% 50V
2432	4822 122 33177	10nF 20% 50V
2433	4822 122 33496	100nF 10% 63V
2435	4822 122 33284	470pF 20% 400V DC
2436	4822 122 33284	470pF 20% 400V DC
2439	5322 122 31863	330pF 5% 50V
2500	4822 122 33177	10nF 20% 50V
2501	4822 122 33496	100nF 10% 63V
2502	4822 124 22027	47µF 20% 25V
2503	4822 122 33496	100nF 10% 63V
2504	4822 124 22027	47µF 20% 25V

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2505	4822 124 22027	47µF 20% 25V
2506	5322 122 31866	6,8nF 10% 63V
2507	4822 121 42408	220nF 5% 63V
2508	5322 126 10223	4,7nF 10% 63V
2509	5322 122 32966	39pF 5% 50V
2510	5322 122 32965	18pF 5%NPO 50V
2511	4822 122 33177	10nF 20% 50V
2512	4822 122 33177	10nF 20% 50V
2513	4822 122 33496	100nF 10% 63V
2514	4822 124 40433	47µF 20% 25V
2515	4822 122 33496	100nF 10% 63V
2516	4822 124 40433	47µF 20% 25V
2517	4822 122 33496	100nF 10% 63V
2518	4822 124 40433	47µF 20% 25V
2519	4822 122 33496	100nF 10% 63V
2520	4822 124 40272	33µF 20% 16V
2521	4822 122 33496	100nF 10% 63V
2522	4822 124 40272	33µF 20% 16V
2523	4822 122 33496	100nF 10% 63V
2524	4822 124 40433	47µF 20% 25V
2525	4822 122 33496	100nF 10% 63V
2526	4822 122 33496	100nF 10% 63V
2527	4822 124 40433	47µF 20% 25V
2528	4822 122 33496	100nF 10% 63V
2529	4822 124 40435	10µF 20% 50V
2530	4822 122 33496	100nF 10% 63V
2531	4822 124 40433	47µF 20% 25V
2532	4822 122 33496	100nF 10% 63V
2533	4822 124 40435	10µF 20% 50V
2534	5322 122 32966	39pF 5% 50V
2535	5322 122 32966	39pF 5% 50V
2536	5322 122 32966	39pF 5% 50V
2537	5322 122 32966	39pF 5% 50V
2538	5322 122 32268	470pF 10% 50V
2539	5322 122 32268	470pF 10% 50V
2540	5322 122 32268	470pF 10% 50V
2541	5322 122 32268	470pF 10% 50V
2542	4822 121 51569	270pF 1% 400V
2543	4822 121 51569	270pF 1% 400V
2544	4822 121 51569	270pF 1% 400V
2545	4822 121 51569	270pF 1% 400V
2546	5322 122 34099	470pF 10% 63V
2547	5322 122 34099	470pF 10% 63V
2548	4822 122 33496	100nF 10% 63V
2549	4822 122 33496	100nF 10% 63V
2550	4822 124 40849	330µF 20% 16V
2551	4822 124 40849	330µF 20% 16V
2552	4822 121 50591	1nF 1% 630V
2553	4822 121 50591	1nF 1% 630V
2554	5322 122 34099	470pF 10% 63V
2555	5322 122 34099	470pF 10% 63V
2556	4822 121 51288	100pF 630V
2557	4822 121 51288	100pF 630V
2558	4822 122 33496	100nF 10% 63V
2559	4822 122 33496	100nF 10% 63V
2560	4822 124 40849	330µF 20% 16V
2561	4822 124 40849	330µF 20% 16V
2562	4822 124 41525	100µF 20% 25V
2563	4822 124 41525	100µF 20% 25V
2564	4822 124 22027	47µF 20% 25V
2566	5322 122 32452	47pF 5% 63V
2567	4822 124 22027	47µF 20% 25V
2568	4822 122 33496	100nF 10% 63V
2569	4822 122 33496	100nF 10% 63V
2570	5322 122 32654	22nF 10% 63V
2571	4822 124 22027	47µF 20% 25V
2572	4822 122 33496	100nF 10% 63V
2573	4822 122 33177	10nF 20% 50V
2574	4822 124 40435	10µF 20% 50V
2575	4822 121 42408	220nF 5% 63V
2580	4822 124 40435	10µF 20% 50V
2581	4822 124 40435	10µF 20% 50V
2582	4822 124 40435	10µF 20% 50V
2592	4822 124 22027	47µF 20% 25V
2593	4822 122 33496	100nF 10% 63V
2594	4822 122 33496	100nF 10% 63V
2595	4822 122 33496	100nF 10% 63V
2596	4822 122 33496	100nF 10% 63V
2597	4822 122 33496	100nF 10% 63V
2598	5322 122 32658	22pF 5% 50V
2599	5322 122 32658	22pF 5% 50V
2600	4822 124 40433	47µF 20% 25V
2601	5322 121 42386	100nF 5% 63V
2602	4822 124 22027	47µF 20% 25V
2603	4822 124 22027	47µF 20% 25V
2604	5322 122 32658	22pF 5% 50V
2605	5322 122 32658	22pF 5% 50V
2611	4822 122 33496	100nF 10% 63V
2612	4822 122 33496	100nF 10% 63V
2613	4822 122 33177	10nF 20% 50V
2614	4822 122 33177	10nF 20% 50V
2615	4822 122 33177	10nF 20% 50V
2616	4822 122 33177	10nF 20% 50V
2618	4822 122 33177	10nF 20% 50V
2619	4822 122 33177	10nF 20% 50V

RESISTORS

3254	4822 116 52224	470Ω 5% 0,5W
3255	4822 050 21002	1k 1% 0,6W
3258	4822 116 52224	470Ω 5% 0,5W
3259	4822 050 21002	1k 1% 0,6W
3260	4822 050 22203	22k 1% 0,6W
3261	4822 050 21003	10k 1% 0,6W
3265	4822 050 21002	1k 1% 0,6W
3266	4822 050 28209	82Ω 1% 0,6W
3267	4822 050 21801	180Ω 1% 0,6W
3268	4822 050 24702	4k7 1% 0,6W

3269	4822 050 21003	10k 1% 0,6W
3270	4822 053 10122	1k2 5% 1W
3271	4822 053 10122	1k2 5% 1W
3272	4822 052 10681	680Ω 5% 0,33W
3273	4822 052 10681	680Ω 5% 0,33W
3274	4822 050 22202	2k2 1% 0,6W
3275	4822 050 22202	2k2 1% 0,6W
3276	4822 052 10689	68Ω 5% 0,33W
3277	4822 052 10689	68Ω 5% 0,33W
3278	4822 053 12152	1k5 5% 3W
3279	4822 112 41112	1k5 5% 5,8W
3280	4822 053 10152	1k5 5% 1W
3282	4822 050 22202	2k2 1% 0,6W
3283	4822 050 22202	2k2 1% 0,6W
3284	4822 101 10927	TRIM 470Ω
3285	4822 101 10927	TRIM 470Ω
3286	4822 050 28201	820Ω 1% 0,6W
3287	4822 050 28201	820Ω 1% 0,6W
3288	4822 052 10302	3k 5% 0,33W
3289	4822 053 10302	3k 5% 1W
3290	4822 053 10222	2k2 5% 1W
3291	4822 053 11222	2k2 5% 2W
3293	4822 051 10101	100Ω 2% 0,25W
3294	4822 050 21501	150Ω 1% 0,6W
3295	4822 050 28209	82Ω 1% 0,6W
3296	4822 050 21501	150Ω 1% 0,6W
3297	4822 050 28209	82Ω 1% 0,6W
3298	4822 116 52217	270Ω 5% 0,5W
3299	4822 050 23901	390Ω 1% 0,6W
3300	4822 050 22202	2k2 1% 0,6W
3301	4822 050 24702	4k7 1% 0,6W
3302	4822 050 26801	680Ω 1% 0,6W
3303	4822 116 52224	470Ω 5% 0,5W
3304	4822 113 80596	0Ω33 5% 3W
3305	4822 113 80596	0Ω33 5% 3W
3306	4822 113 80596	0Ω33 5% 3W
3307	4822 113 80596	0Ω33 5% 3W
3310	4822 050 28203	82k 1% 0,6W
3311	4822 050 22203	22k 1% 0,6W
3313	4822 050 22203	22k 1% 0,6W
3314	4822 050 22202	2k2 1% 0,6W
3329	4822 116 52224	470Ω 5% 0,5W
3341	4822 050 22204	220k 1% 0,6W
3354	4822 116 52224	470Ω 5% 0,5W
3355	4822 116 52224	470Ω 5% 0,5W
3356	4822 051 10101	100Ω 2% 0,25W
3357	4822 051 10101	100Ω 2% 0,25W
3358	4822 052 10478	4Ω7 5% 0,33W
3359	4822 052 10478	4Ω7 5% 0,33W
3365	4822 050 22204	220k 1% 0,6W
3368	4822 052 10109	10Ω 5% 0,33W
3369	4822 052 10109	10Ω 5% 0,33W
3380	4822 052 10229	22Ω 5% 0,33W
3381	4822 052 10109	10Ω 5% 0,33W
3387	4822 113 80595	1k5 5% 3W
3401	4822 051 20339	33Ω 5% 0,1W
3402	4822 051 20271	270Ω 5% 0,1W
3403	4822 051 10102	1k 2% 0,25W
3404	4822 051 20332	3k3 5% 0,1W
3405	4822 051 20271	270Ω 5% 0,1W
3406	4822 051 10331	330Ω 2% 0,25W
3407	4822 051 20222	2k2 5% 0,1W
3408	4822 051 20222	2k2 5% 0,1W
3409	4822 051 20101	100Ω 5% 0,1W
3410	4822 051 20222	2k2 5% 0,1W
3411	4822 051 20221	220Ω 5% 0,1W
3412	4822 052 10478	4Ω7 5% 0,33W
3413	4822 051 20562	5k6 5% 0,1W
3414	4822 051 20222	2k2 5% 0,1W
3415	4822 051 20101	100Ω 5% 0,1W
3416	4822 051 20562	5k6 5% 0,1W
3417	4822 051 20223	22k 5% 0,1W
3418	4822 051 20271	270Ω 5% 0,1W
3419	4822 051 20223	22k 5% 0,1W
3420	4822 051 20224	220k 5% 0,1W
3421	4822 051 20224	220k 5% 0,1W
3422	4822 051 20221	220Ω 5% 0,1W
3423	4822 051 20123	12k 5% 0,1W
3424	4822 051 20334	330k 5% 0,1W
3425	4822 051 20334	330k 5% 0,1W
3426	4822 051 20223	22k 5% 0,1W
3428	4822 051 20103	10k 5% 0,1W
3429	4822 051 20222	2k2 5% 0,1W
3430	4822 051 20103	10k 5% 0,1W
3431	4822 051 20103	10k 5% 0,1W
3432	4822 051 20181	180Ω 5% 0,1W
3433	4822 051 20181	180Ω 5% 0,1W
3434	4822 051 10561	560Ω 2% 0,25W
3435	4822 051 20103	10k 5% 0,1W
3436	4822 051 20103	10k 5% 0,1W
3437	4822 051 10562	5k6 2% 0,25W
3438	4822 051 10562	5k6 2% 0,25W
3439	4822 051 20225	2M2 5% 0,1W
3440	4822 051 20223	22k 5% 0,1W
3441	4822 052 10228	2Ω2 5% 0,33W
3442	4822 052 10228	2Ω2 5% 0,33W
3443	4822 051 20105	1M 5% 0,1W
3444	4822 051 20153	15k 5% 0,1W
3445	4822 051 10561	560Ω 2% 0,25W
3446	4822 051 10561	560Ω 2% 0,25W
3447	4822 051 10561	560Ω 2% 0,25W
3448	4822 051 10561	560Ω 2% 0,25W
3449	4822 051 10561	560Ω 2% 0,25W
3450	4822 050 23301	330Ω 1% 0,6W
3451	4822 050 23301	330Ω 1% 0,6W
3452	4822 050 22402	2k4 1% 0,6W
3453	4822 050 22402	2k4 1% 0,6W
3454	4822 050 22002	2k 1% 0,6W

3455	4822 050 22002	2k 1% 0,6W
3456	4822 050 21801	180Ω 1% 0,6W
3457	4822 050 21801	180Ω 1% 0,6W
3458	4822 050 22701	270Ω 1% 0,6W
3459	4822 050 22701	270Ω 1% 0,6W
3460	4822 050 22709	27Ω 1% 0,6W
3461	4822 050 22709	27Ω 1% 0,6W
3462	4822 050 21002	1k 1% 0,6W
3463	4822 050 21002	1k 1% 0,6W
3464	4822 050 21002	1k 1% 0,6W
3465	4822 051 10102	1k 2% 0,25W
3466	4822 050 21002	1k 1% 0,6W
3467	4822 050 21002	1k 1% 0,6W
3468	4822 050 21002	1k 1% 0,6W
3469	4822 050 21002	1k 1% 0,6W
3471	4822 051 20472	4k7 5% 0,1W
3472	4822 051 20564	560k 5% 0,1W
3473	4822 050 21501	150Ω 1% 0,6W
3474	4822 051 20103	10k 5% 0,1W
3475	4822 051 10102	1k 2% 0,25W
3480	4822 051 20225	2M2 5% 0,1W
3481	4822 051 10104	100k 2% 0,25W
3482	4822 051 10105	1M 5% 0,25W
3483	4822 051 20109	10Ω 5% 0,1W
3500	4822 051 20271	270Ω 5% 0,1W
3501	4822 051 20271	270Ω 5% 0,1W
3502	4822 051 20104	100k 5% 0,1W
3503	4822 052 10228	2Ω2 5% 0,33W
3504	4822 051 20392	3k9 5% 0,1W
3505	4822 051 20122	1k2 5% 0,1W
3506	4822 051 20103	10k 5% 0,1W
3507	4822 051 20153	15k 5% 0,1W
3508	4822 051 20689	68Ω 5% 0,1W
3509	4822 051 20224	220k 5% 0,1W
3510	4822 051 10102	1k 2% 0,25W
3511	4822 050 23902	3k9 1% 0,6W
3512	4822 051 20682	6k8 5% 0,1W
3513	4822 051 20104	100k 5% 0,1W
3514	4822 052 10228	2Ω2 5% 0,33W
3515	4822 052 10228	2Ω2 5% 0,33W
3516	4822 052 10228	2Ω2 5% 0,33W
3517	4822 052 10228	2Ω2 5% 0,33W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3520	4822 052 10228	2Ω2 5% 0,33W
3521	4822 050 22403	24k 1% 0,6W
3522	4822 050 23003	30k 1% 0,6W
3523	4822 050 23003	30k 1% 0,6W
3524	4822 050 23003	30k 1% 0,6W
3525	4822 050 23003	30k 1% 0,6W
3526	4822 050 25102	5k1 1% 0,6W
3527	4822 050 25102	5k1 1% 0,6W
3528	4822 050 25102	5k1 1% 0,6W
3529	4822 050 25102	5k1 1% 0,6W
3530	4822 050 21003	10k 1% 0,6W
3531	4822 050 21003	10k 1% 0,6W
3532	4822 050 21003	10k 1% 0,6W
3533	4822 050 21003	10k 1% 0,6W
3534	4822 050 24709	47Ω 1% 0,6W
3535	4822 050 24709	47Ω 1% 0,6W
3536	4822 050 25602	5k6 1% 0,6W
3537	4822 050 25602	5k6 1% 0,6W
3538	4822 050 27502	7k5 1% 0,6W
3539	4822 050 27502	7k5 1% 0,6W
3540	4822 050 25602	5k6 1% 0,6W
3541	4822 050 25602	5k6 1% 0,6W
3542	4822 050 27502	7k5 1% 0,6W
3543	4822 050 27502	7k5 1% 0,6W
3544	4822 050 24709	47Ω 1% 0,6W
3545	4822 050 24709	47Ω 1% 0,6W
3546	4822 050 21003	10k 1% 0,6W
3547	4822 050 21003	10k 1% 0,6W
3548	4822 116 52244	15k 5% 0,5W
3549	4822 116 52244	15k 5% 0,5W
3550	4822 116 52244	15k 5% 0,5W
3551	4822 051 20472	4k7 5% 0,1W
3552	4822 051 20472	4k7 5% 0,1W
3553	4822 051 20472	4k7 5% 0,1W
3557	4822 051 20103	10k 5% 0,1W
3558	4822 050 21003	10k 1% 0,6W
3559	4822 051 20103	10k 5% 0,1W
3561	4822 051 20223	22k 5% 0,1W
3565	4822 051 20392	3k9 5% 0,1W
3566	4822 051 20221	220Ω 5% 0,1W
3567	4822 050 24709	47Ω 1% 0,6W
3568	4822 050 24709	47Ω 1% 0,6W
3569	4822 051 10103	10k 2% 0,25W
3570	4822 052 10228	2Ω2 5% 0,33W
3571	4822 051 20105	1M 5% 0,1W
3572	4822 050 13303	33k 1% 0,4W
3573	4822 051 20473	47k 5% 0,1W
3574	4822 051 10102	1k 2% 0,25W
3576	4822 051 10102	1k 2% 0,25W
3577	4822 051 20473	47k 5% 0,1W
3578	4822 051 10102	1k 2% 0,25W
3579	4822 051 20473	47k 5% 0,1W
3580	4822 051 10102	1k 2% 0,25W
3581	4822 051 20473	47k 5% 0,1W
3582	4822 051 10102	1k 2% 0,25W
3583	4822 051 20473	47k 5% 0,1W
3584	4822 051 10102	1k 2% 0,25W
3585	4822 051 20473	47k 5% 0,1W
3586	4822 051 10102	1k 2% 0,25W
3587	4822 051 20473	47k 5% 0,1W
3588	4822 051 10102	1k 2% 0,25W
3589	4822 051 10473	47k 2% 0,25W
3590	4822 050 21002	1k 1% 0,6W
3591	4822 051 20473	47k 5% 0,1W

3592	4822 051 10102	1k 2% 0,25W
3593	4822 051 20473	47k 5% 0,1W
3594	4822 051 10102	1k 2% 0,25W
3595	4822 051 20473	47k 5% 0,1W
3597	4822 051 20103	10k 5% 0,1W
3598	4822 051 10101	100Ω 2% 0,25W
3599	4822 051 20472	4k7 5% 0,1W
3600	4822 116 52244	15k 5% 0,5W
3601	4822 051 10008	0Ω 5% 0,25W
3602	4822 051 10008	0Ω 5% 0,25W
3603	4822 051 10008	0Ω 5% 0,25W
3604	4822 051 10008	0Ω 5% 0,25W
3605	4822 051 10008	0Ω 5% 0,25W
3606	4822 051 10008	0Ω 5% 0,25W
3607	4822 051 10008	0Ω 5% 0,25W
3608	4822 051 10008	0Ω 5% 0,25W
3609	4822 051 10102	1k 2% 0,25W
3610	4822 051 20101	100Ω 5% 0,1W
3611	4822 051 10008	0Ω 5% 0,25W
3612	4822 051 20332	3k3 5% 0,1W
3614	4822 050 21002	1k 1% 0,6W
3615	4822 051 10102	1k 2% 0,25W
3616	4822 051 20472	4k7 5% 0,1W
3619	4822 051 20101	100Ω 5% 0,1W
3620	4822 100 11348	1k 30%LIN
3621	4822 100 11348	1k 30%LIN
3624	4822 051 20392	3k9 5% 0,1W
3625	4822 051 20392	3k9 5% 0,1W
3626	4822 051 20822	8k2 5% 0,1W
3627	4822 051 20393	39k 5% 0,1W
3628	4822 051 20471	470Ω 5% 0,1W
3629	4822 051 20332	3k3 5% 0,1W
3630	4822 050 22201	220Ω 1% 0,6W
3631	4822 050 22201	220Ω 1% 0,6W

COILS

5001	4822 146 31105	TRAFO
5250	4822 280 70366	RELAY
5252	4822 157 62255	COIL 18,5 TURNS
5253	4822 157 62255	COIL 18,5 TURNS
5500	4822 156 30492SW	COIL
5501	4822 242 72527	CST 4 MHz
5520	4822 242 81217	CST 27MHz

DIODES

6251	4822 130 34499	BZX79-C20
6252	4822 130 61219	BZX79-C10
6253	4822 130 61219	BZX79-C10
6257	4822 130 30842	BAV21
6259	5322 130 34563	BZX79-C2V7
6261	4822 130 80235	BZX79-C3V3
6263	4822 130 30842	BAV21
6268	4822 130 30621	1N4148
6269	4822 130 30621	1N4148
6270	4822 130 30621	1N4148
6273	4822 130 34167	BZX79-C6V2
6283	4822 130 82079	D3SBA20
6284	4822 130 82079	D3SBA20
6292	4822 130 30621	1N4148
6293	4822 130 30621	1N4148
6294	4822 130 30621	1N4148
6295	4822 130 30621	1N4148
6296	4822 130 30621	1N4148
6301	4822 130 83032	BYV28-50/20
6303	4822 130 83032	BYV28-50/20
6307	4822 130 30621	1N4148
6311	4822 130 30621	1N4148
6318	4822 130 30621	1N4148
6320	4822 130 30621	1N4148
6334	4822 130 30621	1N4148
6340	4822 130 30621	1N4148
6341	4822 130 30861	BZX79-C7V5
6401	4822 130 80937	BAV74
6402	4822 130 34174	BZX79-C4V7
6403	4822 130 30621	1N4148
6404	5322 130 30684	1N4002
6405	5322 130 30684	1N4002
6406	5322 130 30684	1N4002
6407	5322 130 30684	1N4002
6408	4822 130 30621	1N4148
6409	4822 130 30621	1N4148
6411	4822 209 72895	LED TLUV5300
6412	4822 130 83065	LED TLHY6405BT12Z
6413	4822 130 83064	LED TLHR6405BT12Z
6414	4822 214 52009	GP1U58XP
6415	4822 130 30621	1N4148
6416	4822 130 30621	1N4148
6500	4822 130 31129	BB212
6502	4822 130 30621	1N4148
6503	4822 130 30621	1N4148
6504	4822 130 30621	1N4148
6505	4822 130 30621	1N4148
6506	4822 130 30621	1N4148
6507	4822 130 34281	BZX79-C15
6508	4822 130 30621	1N4148
6509	4822 130 30621	1N4148
6510	4822 130 30621	1N4148
6511	4822 130 30621	1N4148
6512	4822 130 30621	1N4148
6513	4822 130 30621	1N4148
6514	4822 130 30621	1N4148
6515	4822 130 30621	1N4148
6516	4822 130 30621	1N4148
6517	4822 130 30621	1N4148

6520	4822 130 30621	1N4148
6521	4822 130 30621	1N4148
6522	4822 130 30621	1N4148
6523	4822 130 30621	1N4148
6530	4822 130 30621	1N4148
6531	4822 130 30621	1N4148

TRANSISTORS & IC's

7254	4822 130 44197	BC558B
7255	4822 209 83274	NJM4560D
7256	4822 130 41691	BC556B
7257	4822 130 41691	BC556B
7258	5322 130 44413	BF457
7259	5322 130 44413	BF457
7260	4822 130 40937	BC548B
7261	4822 130 40937	BC548B
7263	4822 130 44503	BC547C
7264	4822 130 40937	BC548B
7265	4822 130 40937	BC548B
7266	4822 130 44197	BC558B
7267	4822 130 44197	BC558B
7268	5322 130 42363	BDT63B
7269	4822 130 62269	BDT65C
7271	4822 130 62268	BDT64
7273	4822 130 62268	BDT64
7274	5322 130 44926	BDT62B
7275	5322 130 61575	BDT64C
7280	4822 130 44461	BC546B
7281	4822 130 40937	BC548B
7401	4822 209 30704	MC74HCU04D
7402	4822 209 31615	LM324AD
7403	4822 130 42616	BC818-40
7404	5322 130 42136	BC848C
7405	4822 130 61207	BC848
7406	5322 130 61573	BD676
7407	4822 209 72554	MC7808CT
7408	4822 209 82112	MC7908CT
7409	4822 209 71579	TY40408
7410	4822 209 71579	TY40408
7412	4822 130 61207	BC848
7413	4822 130 61207	BC848
7414	4822 130 61207	BC848
7415	4822 130 61207	BC848
7416	5322 130 41982	BC848B
7417	5322 130 41982	BC848B
7500	4822 209 30718	M51581FP
7501	4822 209 30704	MC74HCU04D
7502	4822 130 63046	BF496
7503	4822 209 31381	SM5840AP
7504	4822 209 31086	SAA7350
7505	4822 209 83163	LM833N
7506	4822 209 83163	LM833N
7507	4822 209 31483	MICRO COMPUTER
7508	4822 209 31378	NJM4556M
7509	5322 130 42012	BC858
7510	5322 130 42012	BC858
7511	5322 130 42012	BC858
7512	5322 130 42012	BC858
7513	4822 130 42616	BC818-40
7514	4822 130 42616	BC818-40
7515	4822 130 42616	BC818-40
7516	4822 130 42616	BC818-40
7517	4822 130 42616	BC818-40
7518	4822 130 42616	BC818-40
7519	4822 130 42616	BC818-40
7520	4822 130 42616	BC818-40
7521	5322 130 42012	BC858
7525	4822 209 83163	LM833N
7526	4822 130 61207	BC848
7527	5322 130 42012	BC858
7528	4822 130 61207	BC848
7529	4822 130 42616	BC818-40
7530	4822 130 42616	BC818-40
7550	4822 209 31379	XSP56001FE27
7551	4822 209 31377	TMS27PC256-20NL

Service
Service
Service

Product Service Group CE Audio

Service Information

GB
To adapt the service manual the following sheets have been added/changed.

NL
Voor het aanpassen van de service manual zijn de onderstaande pagina's toegevoegd/gewijzigd.

F
Afin de pouvoir adapter le "manual service" les feuillets suivants ont été soit modifiés, soit ajoutés.

D
Zür anpassung des Service Manual sind die nachstehenden Seiten hinzugefügt/geändert.

I
Le seguenti pagine sono state cambiate/aggiunte allo scopo di adattare il Manuale di Servizio.

ADAPTION OF SERVICE MANUAL 70DSS930 Codnr:4822 725 23911

DSS 930 : Service values for woofer & tweeter trimming.

1. Measurement setup.

Requiered apparatus : 1 Digital System Controller : DSC 950
1 Sine-generator.
1 AC (milli)Voltmeter (20kohm/V) (Freqrange : 20...20kHz.)

Settings : *DSC950 : Source : CD, analog input., Right Channel, Speakers A ON.
Level Adjust : 0 dB.
Compensation : ON. (Red LED shining.)
Volume : -20 dB.
Balance : Mid.

*Sine Generator : Woofer trimming : f = 700 Hz. Level : 0.5 Vrms.
Tweeter trimming : f = 7 kHz. Level : 0.5 Vrms.
*DSS 930: System A, Channel Right,Dummy load (75 ohm) at output terminal.

2.Remark.

As the woofer sensitivity remains ratherly constant during production, it will be almost unneccesary to trim the woofer sensitivity adjust potentiometer.
Only the tweeters for service will have a sticker whereon is mentioned the sensitivity.
The woofers for service use are exactly the same as those used for production of the DSS 930.
The tweeters are specially selected ones, each carefully measured.

3.Procedure.

When the whole setup is switched on, a 700 Hz. must come out of the woofers.
The measured voltage across the amplifier output terminals must be :
If a woofer must be replaced, watch out for correctly phase connecting. The + (red dot) of the woofer must be connected with the hot side of the amplifier.
Idem for the tweeter.
Voltages are measured with speakers connected.

Adjust the tweeter level referring to the following table :
This level must be measured across the amplifier output terminals.

*Voltage on woofer terminals : @ 0.7 kHz. : 1.403 Vrms. Adjust with R3620

*Voltage on tweeter terminals @ 7.0 kHz. Adjust with R3621

Sensitivity	Level
91.0 dB --->	0.860 Vrms.
90.5 ---------->	0.911
90.0 ---------->	0.956
89.5 ---------->	1.023
89.0 ---------->	1.084
88.5 ---------->	1.148
88.0 ---------->	1.216
87.5 ---------->	1.287
87.0 ---------->	1.363
86.5 ---------->	1.444
86.0 ---------->	1.529

Service
Service
Service

Product Service Group CE Audio

Service Information

The 70DSS930 the Japan version **/06B** has been introduced
We refer to the Service manual 70DSS930 codnr.4822 725 23911 ,except the following changes:

Position	Codenumber	Description
418	4822 146 31197	MAINS TRAFO /06
432	4822 321 10919	CORD SET /06

Service Information

93.06.29

LOUDSPEAKER BOX
70 DSS 930 / 00 S / 06 S

A 93/101

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In the service manual (4822 725 23911) of loudspeakerbox 70 DSS 930, the list of mechanical parts on page 35 should be completed with the list mentioned below.

These parts are only used in the /06 S and /00 S versions.

POS.NR.	SERVICE CODE	DESCRIPTION
407	4822 455 30258	FRONT
404	4822 460 10971	RING ORNAMENTAL
409	4822 454 12813	PLATE ORNAMENTAL
402	4822 502 30599	PROTECTION
403	4822 458 40567	GRILLE
411	4822 450 61857	WINDOW
408	4822 466 40637	MOUNTING STRIP
406	4822 256 91888	LED HOLDER
423	4822 322 10099	COAX CABLE 75 OHM
427	4822 265 20645	CINCH PLUG 75 OHM
	4822 736 21363	I.F.U. DSS 930
401	4822 240 70262	TWEETER
413	4822 240 50321	WOOFER AD 51603
413	4822 240 50321	WOOFER AD 51603
412	4822 158 20462	FERRITE COIL
80	4822 218 10447	REMOTE CONT. RH 6860

Service
Service
Service

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Service Information

The 70DSS930 version **/16B** has been introduced
We refer to the Service manual 70DSS930 /00B codnr.4822 725 23911

1992-12-10

4822 725 23947

PCS 57 936

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Service Information

Problem:

When the volume changes-over from -34dB to -32dB and from -32dB to -34dB it is possible that you hear a switching plop in the box

Solution:

The plop can be reduced by changing the following components on the DSP motherboard :

change resistor item 3553 4k7 into 6k8 codenumber 4822 051 20682 SMD
change resistor item 3460 27E into 33E codenumber 4822 050 23309 leaded
change resistor item 3461 27E into 33E codenumber 4822 050 23309 leaded

** From week 9302 this is introduced in production