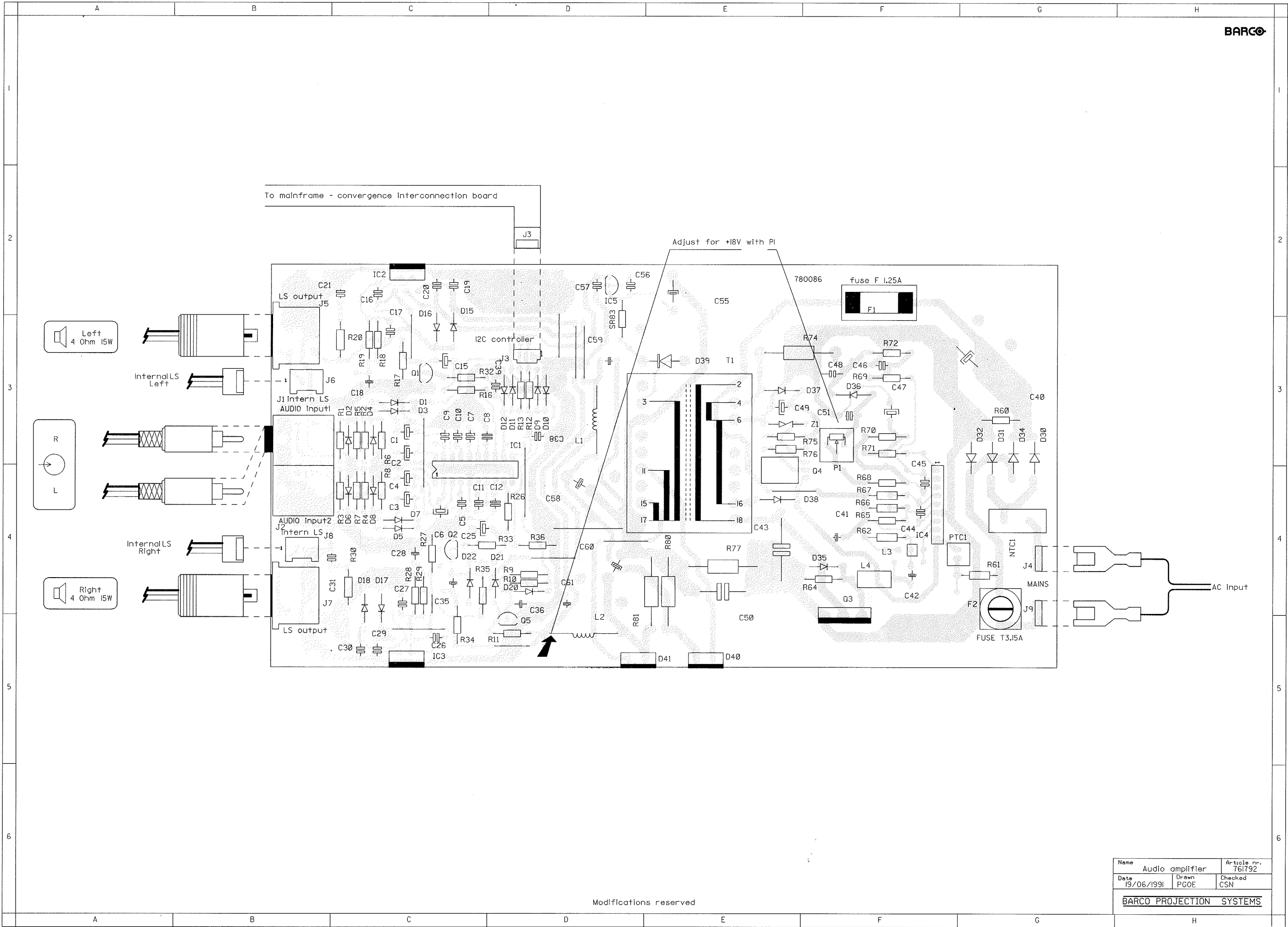
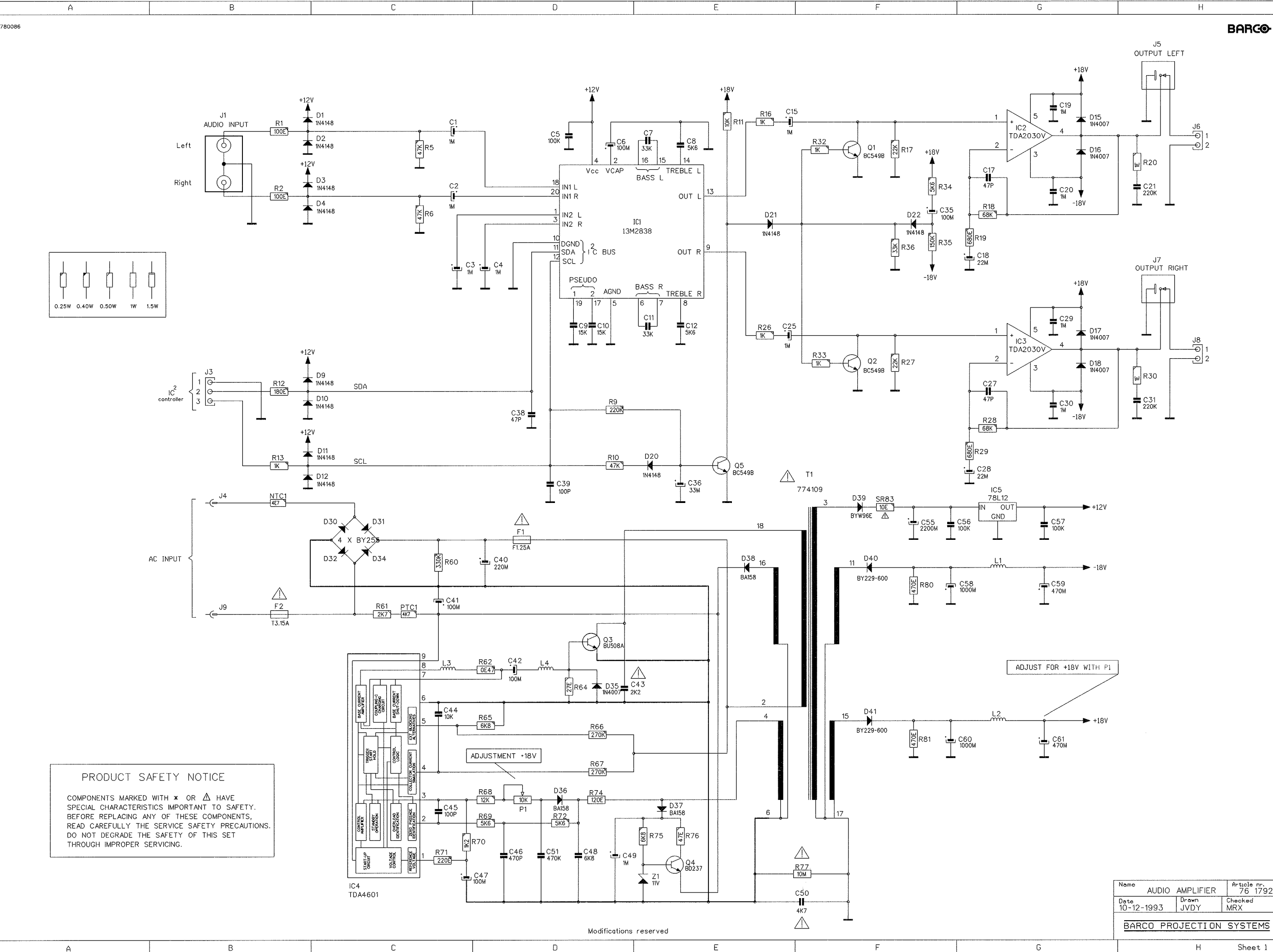


Name Interconnection		Article nr.
AUDIO AMPLIFIER		76 1792
Date	Drawn	Checked
19-06-1991	PGOE	CSN
BARCO PROJECTION SYSTEMS		



COMP.	LOC.	COMP.	LOC.
C1	C 3	R1	C 3
C2	C 4	R2	C 3
C3	C 4	R3	C 4
C4	C 4	R4	C 4
C5	C 4	R5	C 3
C6	C 4	R6	C 3
C7	C 3	R7	C 4
C8	D 3	R8	C 4
C9	C 3	R9	D 4
C10	C 3	R10	D 4
C11	C 4	R11	D 5
C12	D 4	R12	D 3
C13	C 3	R13	D 3
C14	C 2	R14	C 3
C15	C 2	R15	C 3
C16	C 2	R16	C 3
C17	C 2	R17	C 3
C18	C 3	R18	C 3
C19	C 2	R19	C 3
C20	C 2	R20	C 3
C21	B 2	R21	D 4
C22	C 4	R22	C 4
C23	C 5	R23	C 4
C24	C 4	R24	C 4
C25	C 4	R25	C 4
C26	C 5	R26	C 4
C27	C 4	R27	C 4
C28	C 4	R28	C 4
C29	C 5	R29	C 3
C30	C 5	R30	D 4
C31	C 4	R31	D 4
C32	C 4	R32	D 4
C33	C 5	R33	D 4
C34	C 4	R34	C 5
C35	C 4	R35	C 4
C36	D 4	R36	D 4
C37	D 3	R37	D 3
C38	D 3	R38	D 3
C39	D 3	R39	D 3
C40	G 3	R40	F 4
C41	F 4	R41	F 4
C42	F 4	R42	F 4
C43	F 4	R43	F 4
C44	F 4	R44	F 4
C45	F 4	R45	F 4
C46	F 3	R46	F 3
C47	F 3	R47	F 3
C48	F 3	R48	F 3
C49	E 3	R49	F 3
C50	E 3	R50	F 3
C51	F 3	R51	F 3
C52	E 2	R52	F 3
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C61	D 4	R61	D 3
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D94	D 4		
D95	D 4		
D96	D 4		
D97	D 4		
D98	D 4		
D99	D 4		
D100	D 4		

Name	Audio amplifier	Article n°	761792
Date	19/06/1991	Drawn	PGOE
		Checked	CSN
BARCO PROJECTION SYSTEMS			



PRODUCT SAFETY NOTICE

COMPONENTS MARKED WITH * OR Δ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS, READ CAREFULLY THE SERVICE SAFETY PRECAUTIONS. DO NOT DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING.

Name	AUDIO AMPLIFIER		Article n°
Date	10-12-1993		76 1792
Drawn	JVDY	Checked	MRX
BARCO PROJECTION SYSTEMS			

COMP.	LOC.	COMP.	LOC.
C1	C 1	R35	F 2
C2	C 2	R36	F 2
C3	C 2	R60	C 4
C4	D 2	R61	C 4
C5	D 1	R62	D 5
C6	E 1	R64	D 5
C7	E 1	R65	D 5
C8	E 1	R66	D 5
C9	D 3	R67	D 5
C10	D 3	R68	D 6
C11	E 2	R69	D 6
C12	E 3	R70	C 6
C15	E 1	R71	C 6
C17	E 1	R72	D 6
C18	G 2	R74	D 6
C19	G 2	R75	D 6
C20	G 2	R76	E 6
C21	H 2	R77	E 6
C25	F 3	R80	F 5
C27	G 3	R81	F 5
C28	G 3		
C29	G 3	SR83	F 4
C30	G 3	T1	F 3
C31	H 3	Z1	E 6
C35	E 4		
C36	E 4		
C38	D 3		
C39	D 4		
C40	D 4		
C41	D 4		
C42	D 5		
C43	D 5		
C44	D 5		
C45	D 5		
C46	D 6		
C47	D 6		
C48	D 6		
C49	D 6		
C50	E 6		
C51	D 6		
C55	F 4		
C56	G 4		
C57	G 4		
C58	G 4		
C59	G 4		
C60	G 5		
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D2	C 2		
D3	C 2		
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D11	C 3		
D12	C 3		
D15	G 1		
D16	G 1		
D17	G 3		
D18	G 3		
D20	F 2		
D21	F 2		
D22	F 2		
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D31	C 4		
D32	C 4		
D34	C 4		
D36	D 5		
D37	E 6		
D38	E 4		
D39	F 4		
D40	F 4		
D41	F 5		
F1	D 4		
F2	B 4		
IC1	D 2		
IC2	G 1		
IC3	G 3		
IC4	C 6		
IC5	G 4		
J1	B 1		
J3	B 3		
J4	B 4		
J5	H 1		
J6	H 1		
J7	H 2		
J8	H 3		
J9	B 4		
L1	G 4		
L2	C 5		
L3	C 5		
L4	D 5		
NTC1	B 4		
P1	D 6		
PTC1	C 4		
Q1	F 1		
Q2	F 3		
Q3	D 5		
Q4	E 6		
Q5	F 3		
R1	B 1		
R2	B 2		
R5	C 1		
R6	C 2		
R9	D 3		
R10	D 3		
R11	E 1		
R12	B 3		
R13	B 3		
R16	F 1		
R17	F 1		
R18	G 2		
R19	H 1		
R20	F 3		
R26	F 3		
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R28	G 3		
R29	G 3		
R30	H 3		
R32	F 1		
R33	F 1		
R34	F 2		

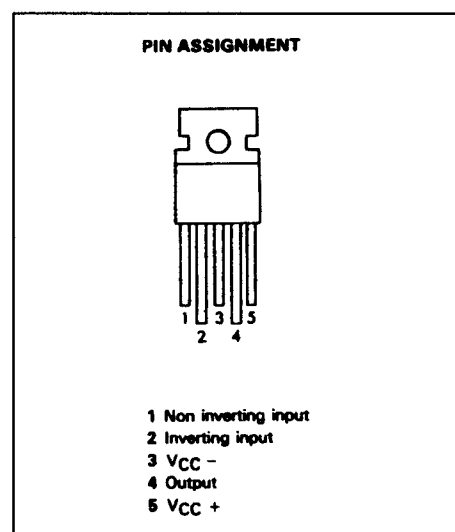
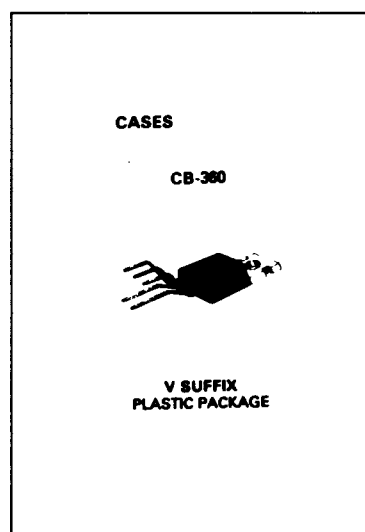
TDA2030V

The TDA2030V, 14 W HI-FI audio amplifier, is a monolithic integrated circuit in CB-360 package intended for use in audio amplifiers.

The TDA2030V provides high output current (up to 3A) and has very low harmonic and cross over distortion.

This device incorporates a short-circuit protection which automatically limits the dissipated power so as to keep the working point of the output transistors within their safe operating area.

A conventional thermal shut down system is also included.



TDA8425

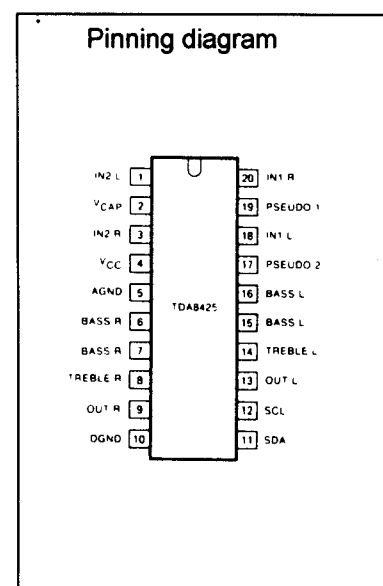
HI-FI Stereo audio processor; I²C-bus

General description

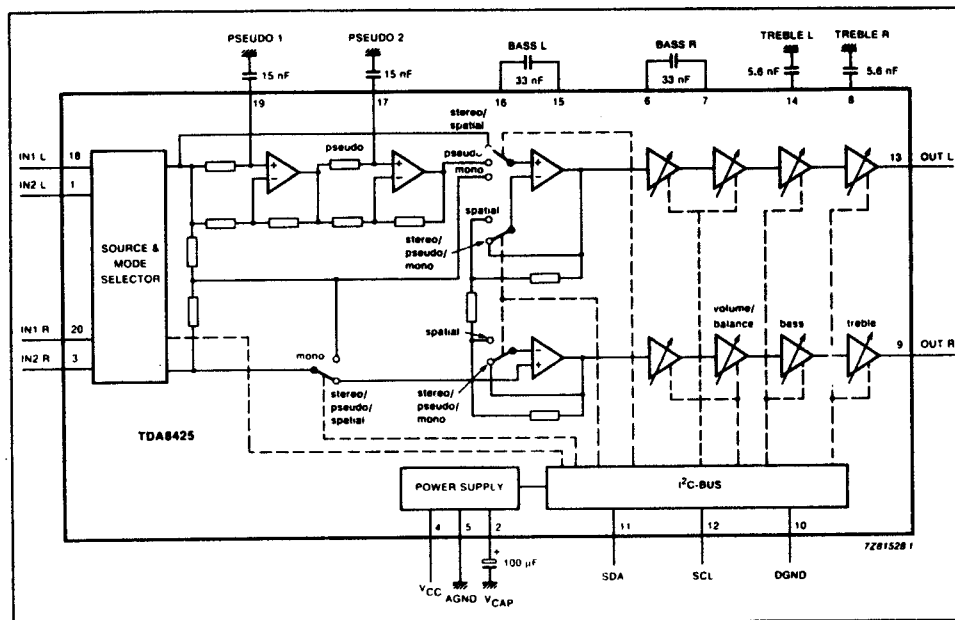
The TDA8425 is a monolithic bipolar intergrated stereo sound circuit with a loudspeaker channel facility, digitally controlled via the I²C-bus for application in Hi-Fi audio and television sound.

Features:

- Source and mode selector for two stereo channels.
- Pseudo stereo, spatial stereo, linear stereo and forced mono switch.
- Volume and Balance control
- Bass, Treble and Mute control
- Power supply with power-on-reset



Block diagram



Functional description

Volume control and balance

The volume control consists of two stages (left and right). In each part the gain can be adjusted between +6dB and -64dB in steps of 2dB. An additional step allows an attenuation of >80dB. Both parts can be controlled independently over the whole range, which allows the balance to be varied by controlling the volume of left and right output channels.

Linear stereo, pseudo stereo, spatial stereo and forced mono mode

It is possible to select four modes: Linear stereo, pseudo stereo, spatial stereo and forced mono. The pseudo stereo mode handles mono transmissions, the spatial stereo mode handles stereo transmissions and the forced mono can be used in event of stereo signals.

Bass control

The bass control stage can be switched from an emphasis of 15dB to an attenuation of 12dB for low frequencies in steps of 3dB.

Treble

The treble control stage can be switched from +12dB to -12dB in steps of 3dB.

Bias and power supply

The TDA8425 includes a bias and power supply stage, which generates a voltage of $0.5 \times V_{CC}$ with a low output impedance an injector currents for the logic part.

Parts listing Audio Amplifier 76 1792

ITEM NO.	SIT.	DESCRIPTION	ITEM NO.	SIT.	DESCRIPTION
11 1546	C..1	C EL RA 1M M 50E2 85	13 19025	D.32	D R BYM56E 13203A SOD18 BY255
11 1546	C..2	C EL RA 1M M 50E2 85	13 19025	D.34	D R BYM56E 13203A SOD18 BY255
11 1546	C..3	C EL RA 1M M 50E2 85	13 1646	D.35	D R 1N4007 10201A DO41
11 1546	C..4	C EL RA 1M M 50E2 85	13 1637	D.36	D R BA158 600400 DO7
11 2774	C..5	C CE MI 100N S 63E2	13 1637	D.37	D R BA158 600400 DO7
11 1466	C..6	C EL RA 100M Z 16E2 85	13 1637	D.38	D R BA158 600400 DO7
11 37181	C..7	C POMERA 33N K100E2	13 1952	D.39	D R BYW96E 10203A SOD64
11 5934	C..8	C PP RA 5N6J 63E2	13 1927	D.40	D R BY229 60007A TO220
11 37141	C..9	C POMERA 15N K100E2	13 1927	D.41	D R BY229 60007A TO220
11 37141	C.10	C POMERA 15N K100E2			
11 37181	C.11	C POMERA 33N K100E2	31 4514	F1..	F ACC HLDR 5X20 PC+CAP
11 5934	C.12	C PP RA 5N6J 63E2	31 4516	F2..	F ACC HLDR T 5X20 PC/HSG
11 1546	C.15	C EL RA 1M M 50E2 85			
11 2238	C.17	C NPO MI 47P G 63E2	13 2838	I..1	U 8425 TDA DIP20 PAUD
11 1510	C.18	C EL RA 22M M 25E2 85	13 2751	I..2	U 2030V TDA TO220T PAUD12
11 4090	C.19	C POMERA 1M M 63E2	13 2751	I..3	U 2030V TDA TO220T PAUD12
11 4090	C.20	C POMERA 1M M 63E2	13 2787	I..4	U 4601 TDA SIP9 PSMP
11 3728	C.21	C POMERA 220N K 63E2	13 4033	I..5	U 78L12 TO92 PSTAB
11 1546	C.25	C EL RA 1M M 50E2 85			
11 2238	C.27	C NPO MI 47P G 63E2	31 33501	J..1	J CINCH FBT P 1 SCR
11 1510	C.28	C EL RA 22M M 25E2 85	31 3923	J..3	J CT MBT P 3 M2SN
11 4090	C.29	C POMERA 1M M 63E2	31 3454	J..4	J TAB1 MBT H 4.8S0.5
11 4090	C.30	C POMERA 1M M 63E2	31 3591	J..5	J LS FBS P 2 OBSOLETE
11 3728	C.31	C POMERA 220N K 63E2	31 3584	J..6	J MT I MBT P 2 R1SN BLK
11 1477	C.35	C EL RA 100M Z 25E2 85	31 3591	J..7	J LS FBS P 2 OBSOLETE
11 1511	C.36	C EL RA 33M M 16E2 85	31 3584	J..8	J MT I MBT P 2 R1SN BLK
11 2238	C.38	C NPO MI 47P G 63E2	31 3454	J..9	J TAB1 MBT H 4.8S0.5
11 2242	C.39	C NPO MI 100P J 63E2			
11 1654	C.40	C EL RA 220M T385SKT 85	30 5913	L..1	CH MNS AX 12 UH 3A
11 1487	C.41	C EL RA 100M Z 40E2 85	30 5913	L..2	CH MNS AX 12 UH 3A
11 1477	C.42	C EL RA 100M Z 25E2 85	30 2108	L..3	CORE TUBE 3.5 /1.3 X 3
11 50051	C.43	C PPMERA 2N2J152E9 HV FKP1	30 2102	L..4	CORE TUBE 4.95/1.3 X40.5
11 37121	C.44	C POMERA 10N K100E2 365			
11 2242	C.45	C NPO MI 100P J 63E2	10 5017	NTC1	R NTC 4E7 S231
11 2387	C.46	C N152MI 470P J 63E2			
11 1466	C.47	C EL RA 100M Z 16E2 85	10 6729	P..1	R TCE H 10K K 0W5 S10TS3386P
11 39102	C.48	C PETFPF 6N8J250E3			
11 1546	C.49	C EL RA 1M M 50E2 85	78 0086	PC..	PCS PJ49R 800 AUD +SMP
11 4700	C.50	C CE DI 4N7M400E6 SA			
11 3732	C.51	C POMERA 470N K 63E2	10 5211	PTC1	R PTC 4K7
11 1627	C.55	C EL RA2200M T 40SKT 85			
11 2774	C.56	C CE MI 100N S 63E2	13 14295	Q..1	Q BC549B N SS TO92 030A1
11 2774	C.57	C CE MI 100N S 63E2	13 14295	Q..2	Q BC549B N SS TO92 030A1
11 1626	C.58	C EL RA1000M T 40SKT 85	13 25096	Q..3	Q ON4046 N P SOT93 15208
11 1479	C.59	C EL RA 470M Z 25E2 85	13 14446	Q..4	Q BD237 N P TO126 08002
11 1626	C.60	C EL RA1000M T 40SKT 85	13 14295	Q..5	Q BC549B N SS TO92 030A1
11 1479	C.61	C EL RA 470M Z 25E2 85			
13 1621	D..1	D S 1N4148 075150 DO35	10 1124	R..1	R CF H100E J 0W25
13 1621	D..2	D S 1N4148 075150 DO35	10 1124	R..2	R CF H100E J 0W25
13 1621	D..3	D S 1N4148 075150 DO35	10 1156	R..5	R CF H 47K J 0W25
13 1621	D..4	D S 1N4148 075150 DO35	10 1156	R..6	R CF H 47K J 0W25
13 1621	D..9	D S 1N4148 075150 DO35	10 1164	R..9	R CF H220K J 0W25
13 1621	D.10	D S 1N4148 075150 DO35	10 1156	R.10	R CF H 47K J 0W25
13 1621	D.11	D S 1N4148 075150 DO35	10 1148	R.11	R CF H 10K J 0W25
13 1621	D.12	D S 1N4148 075150 DO35	10 1127	R.12	R CF H180E J 0W25
13 1646	D.15	D R 1N4007 10201A DO41	10 1136	R.13	R CF H 1K J 0W25
13 1646	D.16	D R 1N4007 10201A DO41	10 1136	R.16	R CF H 1K J 0W25
13 1646	D.17	D R 1N4007 10201A DO41	10 1152	R.17	R CF H 22K J 0W25
13 1646	D.18	D R 1N4007 10201A DO41	10 1158	R.18	R CF H 68K J 0W25
13 1621	D.20	D S 1N4148 075150 DO35	10 1134	R.19	R CF H680E J 0W25
13 1621	D.21	D S 1N4148 075150 DO35	10 1200	R.20	R CF H 1E J 0W5 212
13 1621	D.22	D S 1N4148 075150 DO35	10 1136	R.26	R CF H 1K J 0W25
13 19025	D.30	D R BYM56E 13203A SOD18 BY255	10 1152	R.27	R CF H 22K J 0W25
13 19025	D.31	D R BYM56E 13203A SOD18 BY255	10 1158	R.28	R CF H 68K J 0W25
			10 1134	R.29	R CF H680E J 0W25

Audio Amplifier

76 1792

ITEM NO.	SIT.	DESCRIPTION	
10 1200	R.30	R CF H 1E J OW5	212
10 1136	R.32	R CF H 1K J OW25	
10 1136	R.33	R CF H 1K J OW25	
10 1145	R.34	R CF H 5K6 J OW25	
10 1162	R.35	R CF H150K J OW25	
10 1154	R.36	R CF H 33K J OW25	
10 1266	R.60	R CF H330K J OW5	
10 1241	R.61	R CF H 2K7 J OW5	
10 2498	R.62	R MF H E47J OW35	
10 1117	R.64	R CF H 27E J OW25	
10 1146	R.65	R CF H 6K8 J OW25	
10 1265	R.66	R CF H270K J OW5	
10 1265	R.67	R CF H270K J OW5	
10 1149	R.68	R CF H 12K J OW25	
10 1145	R.69	R CF H 5K6 J OW25	

ITEM NO.	SIT.	DESCRIPTION	
10 1137	R.70	R CF H 1K2 J OW25	
10 1128	R.71	R CF H220E J OW25	
10 1145	R.72	R CF H 5K6 J OW25	
10 1325	R.74	R CF H120E J 1W	
10 1146	R.75	R CF H 6K8 J OW25	
10 1220	R.76	R CF H 47E J OW5	
10 46781	R.77	R HV H 10M J 1W	10000
10 1332	R.80	R CF H470E J 1W	
10 1332	R.81	R CF H470E J 1W	
10 11129	SR83	R CFFH 10E J OW25	
77 4109	T..1	T PJ43R SMP	
13 1728	Z..1	D ZEN 11V OW5 C DO35	

Spare parts Audio Amplifier 76 1792

ART.NO.	DESCRIPTION	QUANTITY
10 11129	R CFFH 10E J OW25	1
10 46781	R HV H 10M J 1W 10000	1
10 5017	R NTC 4E7 S231	1
10 5211	R PTC 4K7	1
10 6729	R TCE H 10K K OW5 S10TS3386P	1
11 1654	C EL RA 220M T385SKT 85	1
11 39102	C PETFPF 6N8J250E3	1
11 4700	C CE DI 4N7M400E6 SA	1
11 50051	C PPMERA 2N2J152E9 HV FKP1	1
13 14295	Q BC549B N SS TO92 030A1	3
13 14446	Q BD237 N P TO126 08002	1
13 1621	D S 1N4148 075150 DO35	11
13 1637	D R BA158 600400 DO7	3
13 1646	D R 1N4007 10201A DO41	5
13 1728	D ZEN 11V OW5 C DO35	1
13 19025	D R BYM56E 13203A SOD18 BY255	4
13 1927	D R BY229 60007A TO220	2
13 1952	D R BYW96E 10203A SOD64	1
13 25096	Q ON4046 N P SOT93 15208	1
13 2751	U 2030V TDA TO220T PAUD12	2
13 2787	U 4601 TDA SIP9 PSMP	1
13 2838	U 8425 TDA DIP20 PAUD	1
13 3039	SPR L 8 D 4 D 1.2 C CER	6
13 3063	Q ACC ISO MICA SOT93	3
13 4033	U 78L12 TO92 PSTAB	1
30 2102	CORE TUBE 4.95/1.3 X40.5	1
30 2108	CORE TUBE 3.5 /1.3 X 3	1
30 5913	CH MNS AX 12 UH 3A	2
31 33501	J CINCH FBT P 1 SCR	2
31 3454	J TAB1 MBT H 4.8S0.5	2
31 3584	J MT I MBT P 2 R1SN BLK	2

ART.NO.	DESCRIPTION	QUANTITY
31 3591	J LS FBS P 2 OBSOLETE	2
31 3923	J CT MBT P 3 M2SN	1
31 4102	F 5X20 F 1A25 L RU/VE	1
31 4103	F 5X20 T 3A15 H RU/VE	1
31 4514	F ACC HLDR 5X20 PC+CAP	1
31 4516	F ACC HLDR T 5X20 PC/HSG	1
36 20216	SCR D84 M 3 X 6 SI	17
36 2119	SCR D7985 M 2.5X 10 PS Z	1
36 21229	SCR D7985 M 3 X 8 PIC	1
36 3510	SCR D7971F 2.2X 6.5SS Z	2
36 61026	NUT D934 M 3 I	3
36 6110	NUT D934 M 2.5 S Z	1
36 6988	NUT I SOUTH M 3 X0.5	2
36 75256	WSHR D 3.1 X 6.2 T0.6 J	16
36 7528	WSHR D6798 A 2.7 S Z	1
36 75834	WSHR D6797J M 6 S	2
36 7600	NUT BLOC M 3	5
71 23023	WSHR D 3.25X 7 T0.5 L	1
77 4109	T PJ43R SMP	1
80 2686	Q ACC SPG 1XM3	3
80 3040	HTSNK PJ49R AUD BU	1
80 3041	HTSNK PJ49R AUD FRM 04	1
80 3057	NUT BPS M 3 PJ R	3
80 3087	Q ACC ISO MICA 30X 40	1
80 4762	J CINCH ACC BRKT 01	1
80 4832	Q ACC SPG 1XM3 LONG 03	2