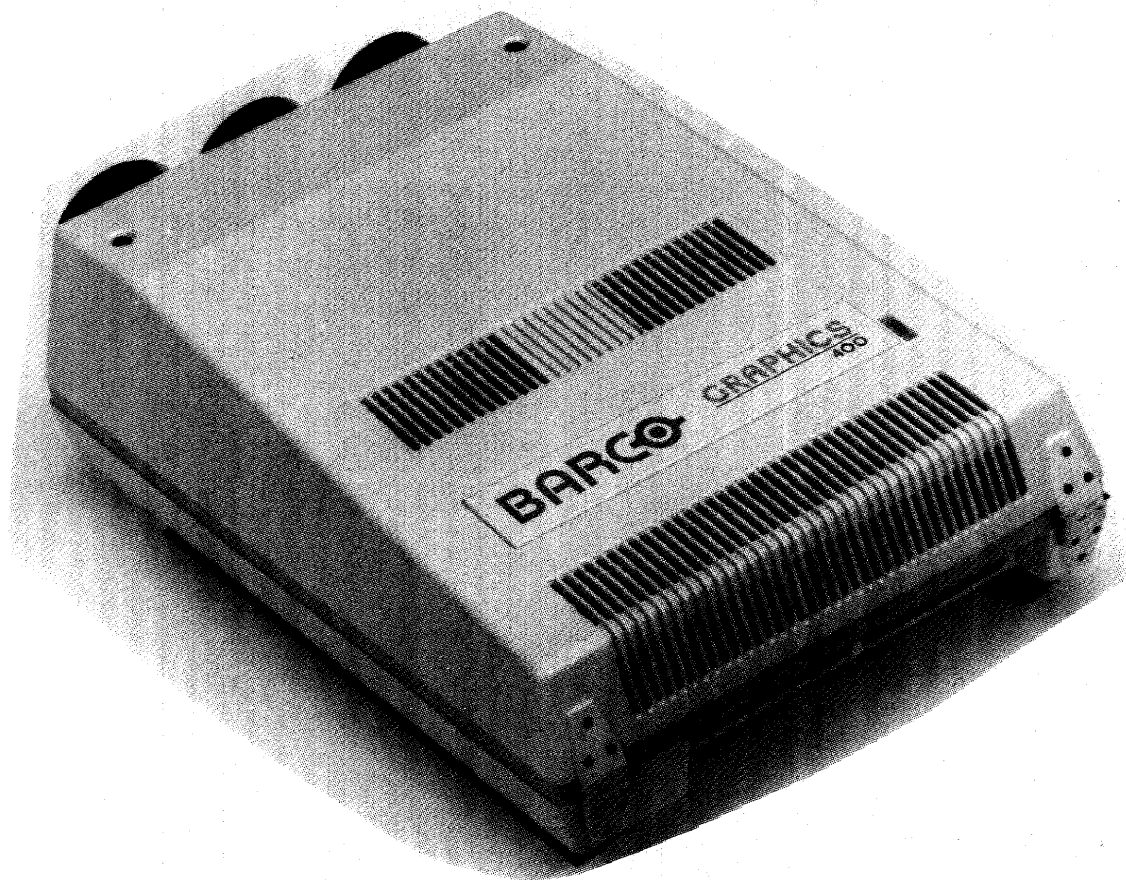


# List of spare parts

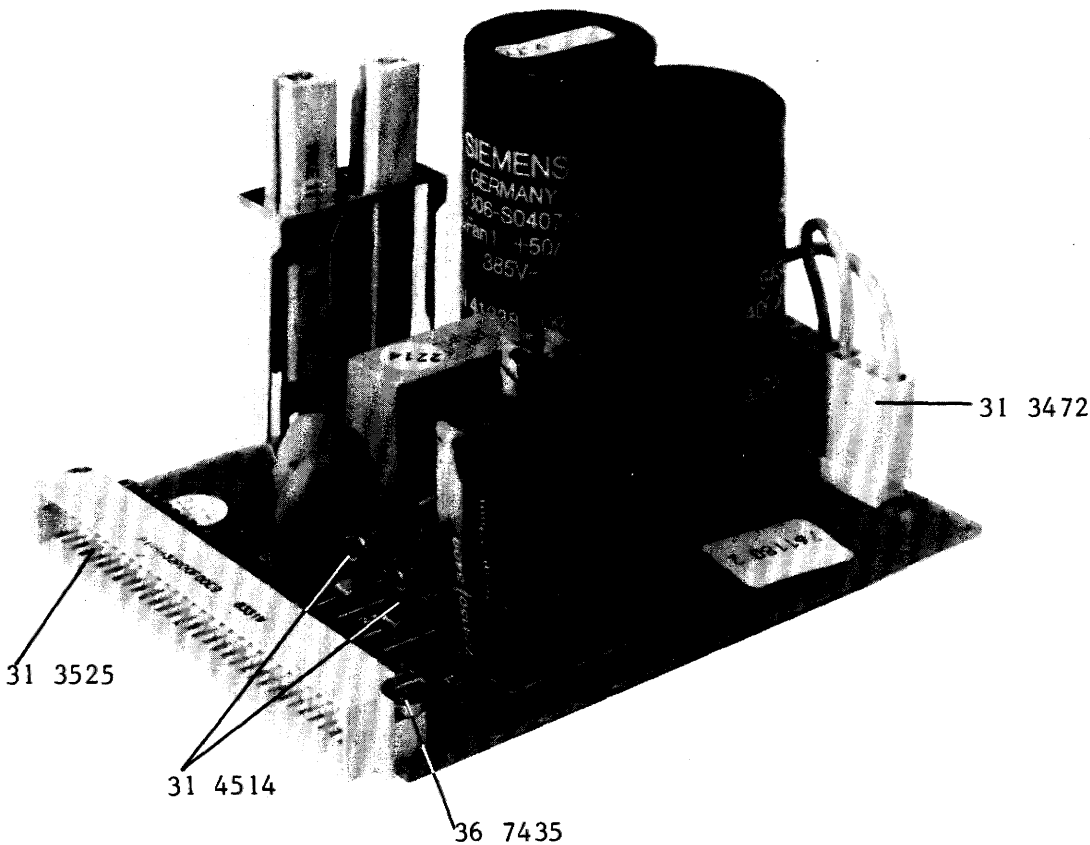
**BARCO**  
Service



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 4401	Resistor 1E 11W	2
10 5018	Resistor NTC 4E7 2W	2
11 1655	Capacitor 400M 385V	2
11 4716	Capacitor 1M AC 250V	1
11 4722	Capacitor 2K2 400V	2
31 41041	Fuse 4A 5X20 Slow	2

Numbers referring to picture :

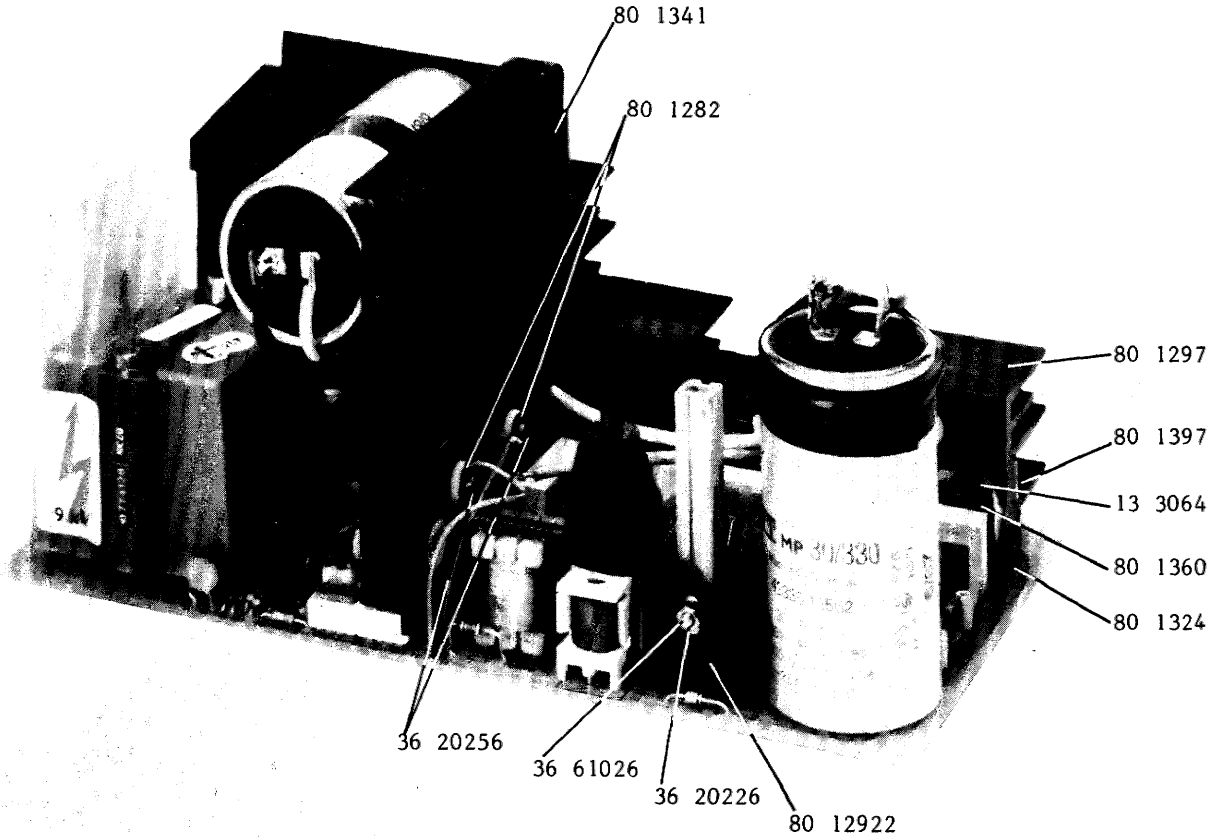
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 3472	Connector P12	1
31 3525	Euro connector P64	1
31 4514	Fuse 5x20 Cap+Holder	2
36 7435	Rivet AL D2.4	2



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 3252	Resistor 22K 1W50	1
10 3606	Resistor 0E33 4W	1
10 3634	Resistor 68E 4W	2
10 4423	Resistor 68E 11W	1
10 4674	Resistor 6M8 HV 0W50	1
10 4690	Resistor 33M HV 0W50	1
10 6736	Trimmer potentiometer 500K 0W50	1
10 6833	Trimmer potentiometer 100K 0W50	1
10 6834	Trimmer potentiometer 200K 0W50	1
11 1569	Capacitor 10M 250V	1
11 1639	Capacitor 47M 250V	1
11 1722	Capacitor 10K 1500V	1
11 1775	Capacitor 5K6 1500V	3
11 4160	Capacitor 68K 400V	1
11 4603	Capacitor 100K HV 1000V	1
11 4636	Capacitor 50K HV 1600V	1
11 4799	Capacitor 30M AC 300V	2
13 1621	Switch diode 1N4148	14
13 1637	Switch diode BA158	1
13 1636	Diode BAT43 SD101 Schottky	3
13 1662	Diode CQV54-A3 Led D3 Red	2
13 1906	Diode BYV96E	4
13 1730	Zener diode 20V 0W5 C	3
13 1744	Zener diode 5V6 0W5 C	1
13 1745	Zener diode 18V 1W1 C	1
13 1749	Zener diode 18V 0W5 C	1
13 1791	Zener diode 6V2 0W5 B	1
13 1907	Rectifier diode BY584/BY184	1
13 1913	Rectifier diode BY229-1000	1
13 2102	Integrated circuit 550 TAA	1
13 4114	Integrated circuit 393	1
13 73945	Integrated circuit 4093B HEF	1
13 1411	Transistor BC549C/BC239C	3
13 14182	Transistor BC559C/BC309C	2
13 1424	Transistor BC338	2
13 14295	Transistor BC549B	4
13 14311	Transistor BC327	3
13 25131	Transistor BDY65 DAR	1
13 2552	Transistor BF423	1
13 2590	Transistor BC560B	1
13 2593	Transistor BUZ74A FET	1
13 2901	Transistor BUZ357/BUZ356-S1	10
77 4128	Transformer EHT	1
77 4129	Transformer Hor. Deflection	1
77 4154	Coil Choke	1
77 4159	Linearity coil	1

Numbers referring to picture : (see next page)

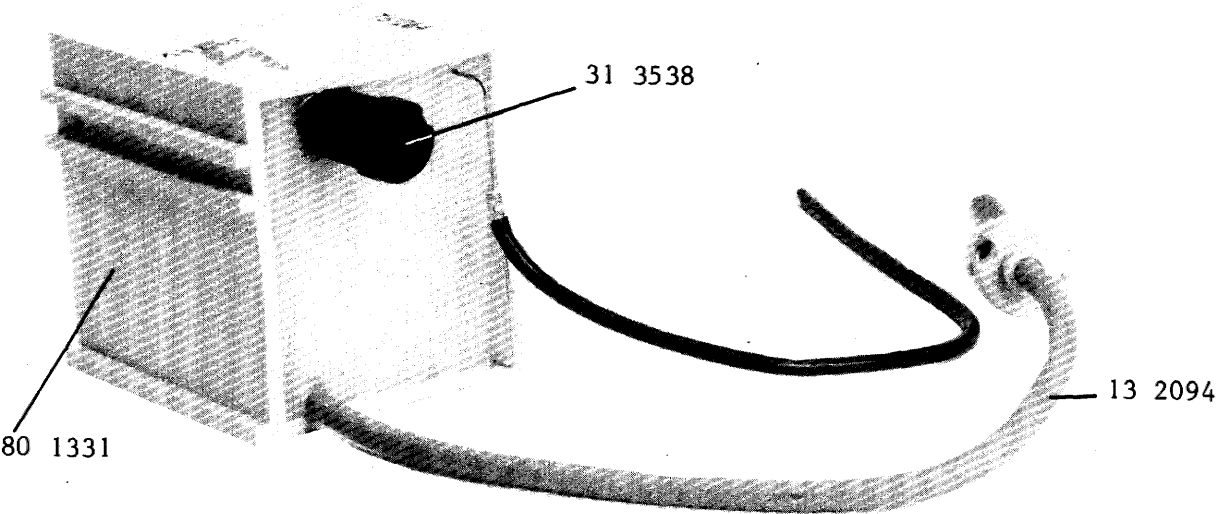
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 3064	Transistor mica insulat. SOT-93	11
36 20226	Screw DIN84 M 3 x 8	5
36 20256	Screw DIN84 M 3 x 16	13
36 61026	Nut DIN934 M 3 Hexagonal	3
80 1282	Spacer Iso L 5	2
80 12922	Heatsink TO220 AL	1
80 1297	Heatsink 45 Hor. EHT BUZ310	1
80 1324	Fixation heatsink	1
80 1341	Heatsink 45 Hor. EHT BDX65	1
80 1360	Nut + washer M3 fix. transistor	11
80 1397	Isolation fixation heatsink	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 2153	Resistor 27K 1W	9
11 2081	Capacitor 1K5 21000V	4

Numbers referring to picture :

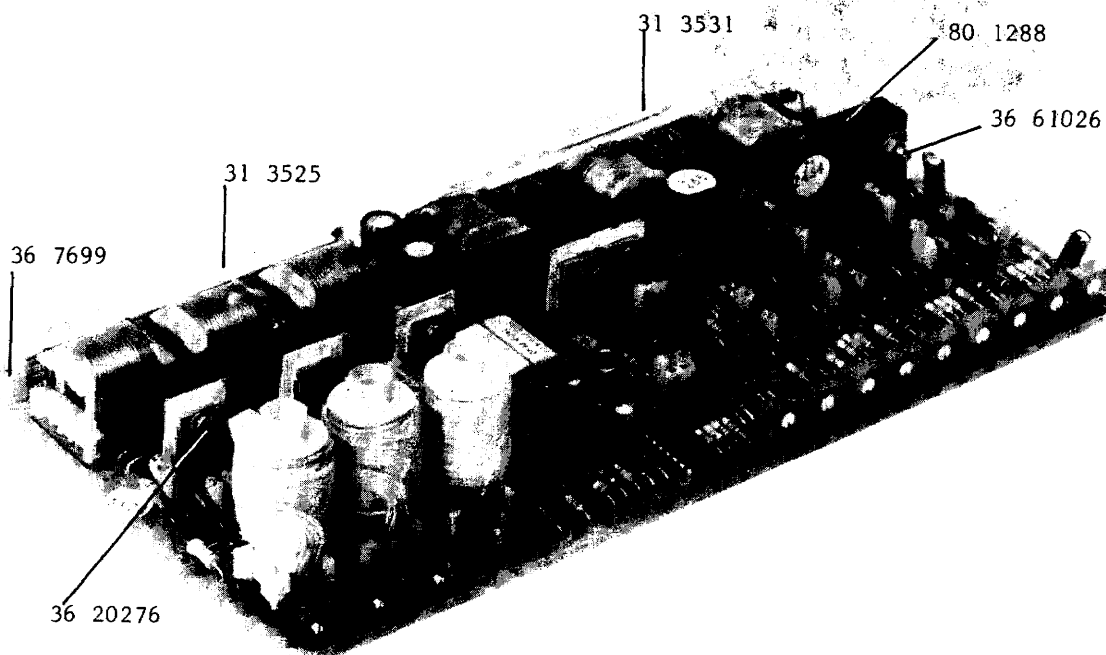
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 2094	Cord splitter 13 inch	1
31 3538	Connector Hobson P1	1
80 1331	House splitter	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 3600	Resistor OE10 4W	3
10 3660	Resistor 1K 4W	3
10 4674	Resistor 6M8 HV 0W50	2
10 6725	Trimmer potentiometer 500E 0W50	1
10 6829	Trimmer potentiometer 10K 0W50	6
10 6832	Trimmer potentiometer 50K 0W50	3
10 75271	Multiturn potentiometer 10K 0W50	3
11 2681	Capacitor 15P 500 V	1
11 4124	Capacitor 22K 250 V	2
13 2751	Integrated circuit 2030V TDA	3
13 2765	Integrated circuit 1496P	1
13 27655	Integrated circuit 1496	3
13 2788	Integrated circuit 1875 LM	3
13 4002	Integrated circuit 7812	1
13 4016	Integrated circuit 7912	1
13 4028	Integrated circuit 317LZ	1
13 4029	Integrated circuit 337LZ	1
13 4113	Integrated circuit 084	1
13 1411	Transistor BC549C/BC239C	3
13 1491	Transistor BSX20, 2N2369	1
13 1621	Switch diode 1N4148	3
13 1637	Switch diode BA158	12
77 4166	N/S Transformer	3

Numbers referring to picture :

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 3525	Euro connector P64	1
31 3531	Euro connector P64 Key	1
36 20276	Screw DIN84 M 3 x20	7
36 61026	Nut DIN934 M 3 Hexagonal	7
36 7699	Rivet Chobert D2.38 L6.35	4
80 1288	Heatsink 45 NS	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 3616	Resistor 2E2 4W	2
10 6733	Trimmer potentiometer 100K 0W50	1
10 6738	Trimmer potentiometer 2M 0W50	1
10 6824	Trimmer potentiometer 200E 0W50	1
10 6830	Trimmer potentiometer 20K 0W50	2
10 6832	Trimmer potentiometer 50K 0W50	3
10 75271	Multiturn potentiometer 10K 0W50	3
11 4120	Capacitor 10K 250V	1
11 4124	Capacitor 22K 250V	1
11 4131	Capacitor 82K 250V	1
11 4132	Capacitor 100K 250V	7
13 1621	Switch diode 1N4148	7
13 14071	Transistor BC547B/BC237B	3
13 14072	Transistor BC547A/BC237A	1
13 1411	Transistor BC549C/BC239C	2
13 14131	Transistor BC557B/BC307B	1
13 14181	Transistor BC559B/BC309B	1
13 1426	Transistor BC337	1
13 14295	Transistor BC549B	7
13 1644	Rectifier diode 1N4001	6
13 2751	Integrated circuit 2030V TDA	3
13 2762	Integrated circuit 2595 TDA	1
13 4002	Integrated circuit 7812	1
13 4016	Integrated circuit 7912	1
13 4113	Integrated circuit 084	1
76 1274B	Vertical deflection + sync board	1
76 1272S	Vertical deflection + sync board	1
76 1274S	Vertical deflection + sync board	1
76 1479S	Autolock board	1

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6738	Trimmer potentiometer 2M 0W50	1
13 14131	Transistor BC557B/BC307B	2
13 14295	Transistor BC549B	1
13 1621	Switch diode 1N4148	1
13 1644	Rectifier diode 1N4001	2
13 1721	Zener diode 13V 0W5 C	1
13 1744	Zener diode 5V6 0W5 C	1
13 2751	Integrated circuit 2030V TDA	1
13 4025	Integrated circuit 78L24	1
13 4113	Integrated circuit 084	1
13 7297	Integrated circuit 3054	1
13 7332	Integrated circuit 4098B	2

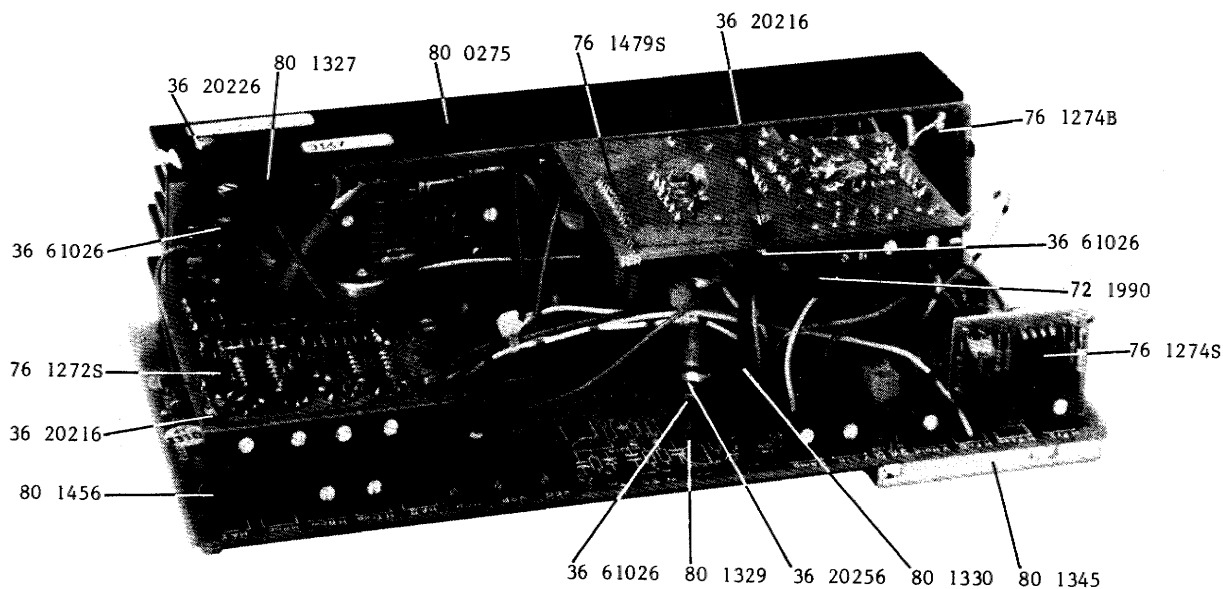


<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6829	Trimmer potentiometer 10K 0W50	4
13 14181	Transistor BC559B/BC309B	2
13 14295	Transistor BC549B	2
13 1636	Diode BAT43 SD101 Schottky	1
13 4113	Integrated circuit 084	2

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 14295	Transistor BC549B	1
13 4031	Integrated circuit 431C TL	1
13 4104	Integrated circuit 741 221	1

Numbers referring to picture :

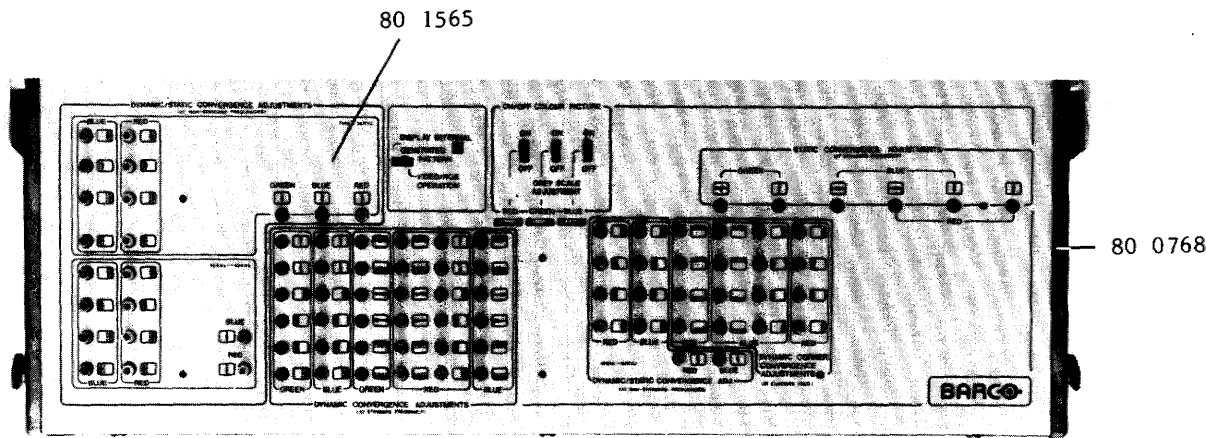
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
36 20216	Screw DIN84 M 3 x 6	7
36 20226	Screw DIN84 M 3 x 8	6
36 20256	Screw DIN84 M 3 x16	1
36 61026	Nut DIN934 M 3 Hexagonal	3
80 0275	Heatsink	1
80 1327	Heatsink Plate	1
80 1329	Spacer L 7.5 D 6 D3.25 PC	2
80 1330	Fix. bracket	1
80 1345	Plate screen 60x100	1
80 1456	Spacer L25 H 5 M3	3
72 1990	Push knob black	1
76 1272S	Sync + vertical deflection board	1
76 1274B	Sync + vertical deflection board	1
76 1274S	Sync + vertical deflection board	1
76 1479S	Autolock board	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 1320	Resistor 47E 1W	6
10 3620	Resistor 4E7 4W	5
10 67291	Trimmer potentiometer 10K 0W50	44
11 2683	Capacitor 22P 500V	1
11 4132	Capacitor 100K 250V	1
13 14071	Transistor BC547B/BC237B	1
13 14131	Transistor BC557B/BC307B	5
13 1428	Transistor BC548C/BC238C	4
13 14295	Transistor BC549B	18
13 1491	Transistor BSX20,2N2369	1
13 2520	Transistor 2N2907	1
13 2528	Transistor BC264B FET	1
13 2552	Transistor BF423	1
13 1621	Switch diode 1N4148	8
13 1628	Switch diode BAW62	2
13 1637	Switch diode BA158	1
13 1636	Diode BAT43 SD101 Schottky	13
13 1749	Zener diode 18V 0W5 C	1
13 1787	Zener diode 51V 0W5 C	1
13 27655	Integrated circuit 1496	4
13 2788	Integrated circuit 1875 LM	5
13 4002	Integrated circuit 7812	1
13 4016	Integrated circuit 7912	1
13 4113	Integrated circuit 084	13
13 7297	Integrated circuit 3054	1
76 1284B	Convergence + G2 board	1
76 1284S	Convergence + G2 board	1
76 1285	G2 Control board	1

Numbers referring to picture :

80 0768	Side convergence	2
80 1565	Decorative plate convergence up	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6725	Trimmer potentiometer 500E 0W50	3
10 67291	Trimmer potentiometer 10K 0W50	10
11 4132	Capacitor 100K 250V	1
13 1411	Transistor BC549C/BC239C	1
13 14131	Transistor BC557B/BC307B	5
13 14295	Transistor BC549B	2
13 1491	Transistor BSX20,2N2369	1
13 1621	Switch diode 1N4148	7
13 1628	Switch diode BAW62	1
13 1636	Diode BAT43 SD101 Schottky	2
13 1749	Zener diode 18V 0W5 C	4
13 1765	Zener diode 27V 0W5 B	2
13 1787	Zener diode 51V 0W5 C	1
13 27655	Integrated circuit 1496	3
13 4113	Integrated circuit 084	4

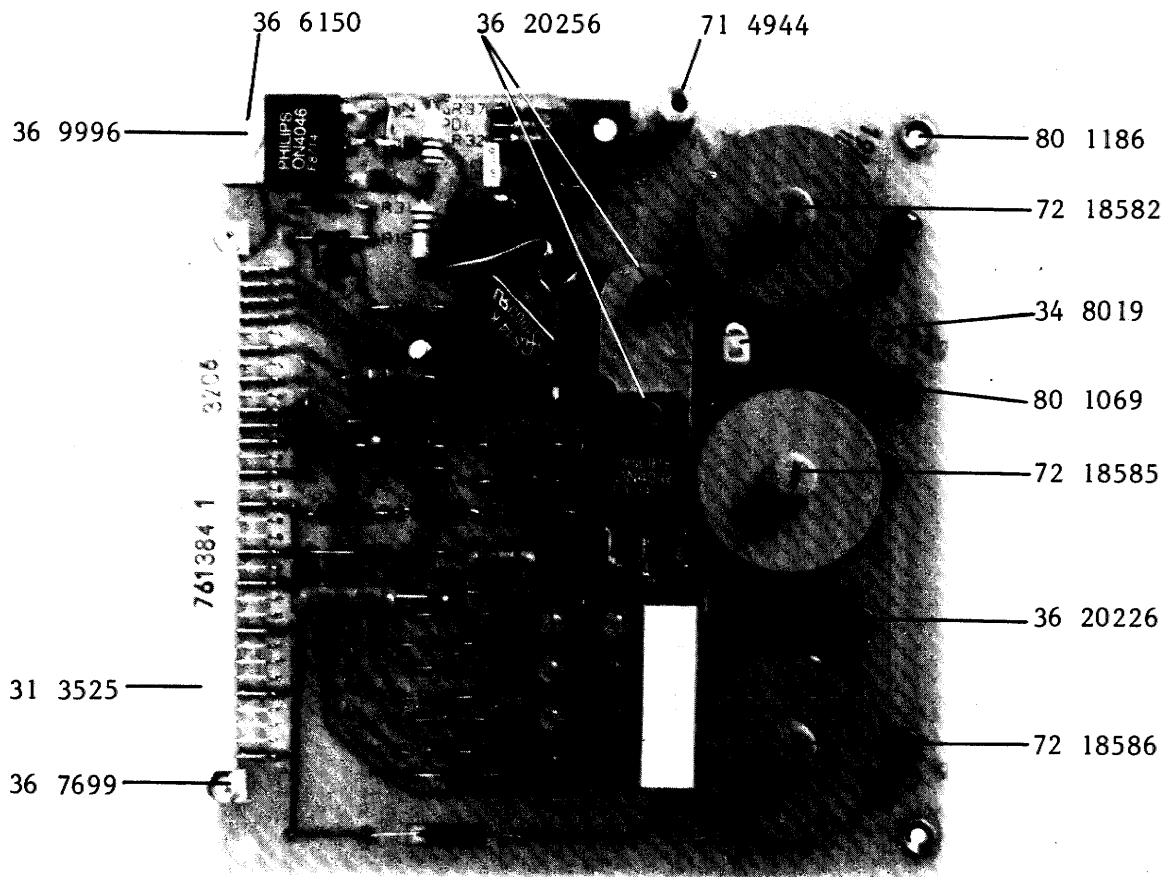
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 67291	Trimmer potentiometer 10K 0W50	18
13 14181	Transistor BC559B/BC309B	4
13 14295	Transistor BC549B	4
13 1621	Switch diode 1N4148	2
13 1732	Zener diode 36V 0W5 B	1
13 4113	Integrated circuit 084	5

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 14625	Resistor 150K 1W50	2
10 14675	Resistor 390K 1W50	1
10 14685	Resistor 470K 1W20	2
10 4664	Resistor 2M7 HV 0W50	1
10 6734	Trimmer potentiometer 200K 0W50	1
10 7539	Multiturn CAS 2M2 0W15	3
11 2833	Capacitor 4K7 400V	1
11 4602	Capacitor 47K HV 1000V	3
13 1730	Zener diode 20V 0W5 C	1
13 2102	Integrated circuit 550 TAA	2
13 2900	Transistor BUZ310	1
32 41561	Switch slide 1U AU	4

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 14625	Resistor 150K 1W50	3
10 14675	Resistor 390K 1W50	2
10 1469	Resistor 560K 1W50	2
10 2136	Resistor 1K 1W	1
10 46721	Resistor 5M6 HV 1W	1
10 4678	Resistor 10M HV 0W50	2
10 46821	Resistor 15M HV 1W	1
10 46901	Resistor 33M HV 1W	2
10 5119	Resistor VDR 1000V	4
10 6733	Trimmer potentiometer 100K 0W50	1
10 7601	Potentiometer 20M	3
11 1720	Capacitor 6K8 1500V	1
11 2098	Capacitor 470P 2000V	1
11 4625	Capacitor 1K HV 10000V	1
11 4720	Capacitor 1K 400V	2
13 1628	Switch diode BAW62	1
13 1637	Switch diode BA158	1
13 1663	Diode LD56-2 LED D5 Yellow	6
13 1664	Diode CQV21-5 LED D5 Red	1
13 1665	Diode CQV25-4 LED D5 Green	1
13 14131	Transistor BC557B/BC307B	1
13 14295	Transistor BC549B	1
13 25096	Transistor BU508A,0N4046	4
13 2590	Transistor BC560B	1
13 1720	Zener diode 6V2 0W5 C	1
13 1754	Zener diode 3V3 0W5 C	1
13 2102	Integrated circuit 550 TAA	1

Numbers referring to picture : (see next page)

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 3525	Euro connector P64	1
34 8019	Wire tie L100	1
36 20226	Screw DIN84 M 3 x 8	12
36 20256	Screw DIN84 M 3 x 16	2
36 6150	Nut DIN934 M 3 Plast Hexagonal	1
36 7699	Rivet Chobert D2.38 L6.35	2
36 9996	Screw DIN84 M 3 x 12	1
71 4944	Spacer rivet L18,25D 7 M3 AL	1
72 18582	Turn knob Red	1
72 18585	Turn knob Green	1
72 18586	Turn knob Blue	1
80 1069	Heatsink BU508	2
80 1186	Nut rivet M3 Inox	2

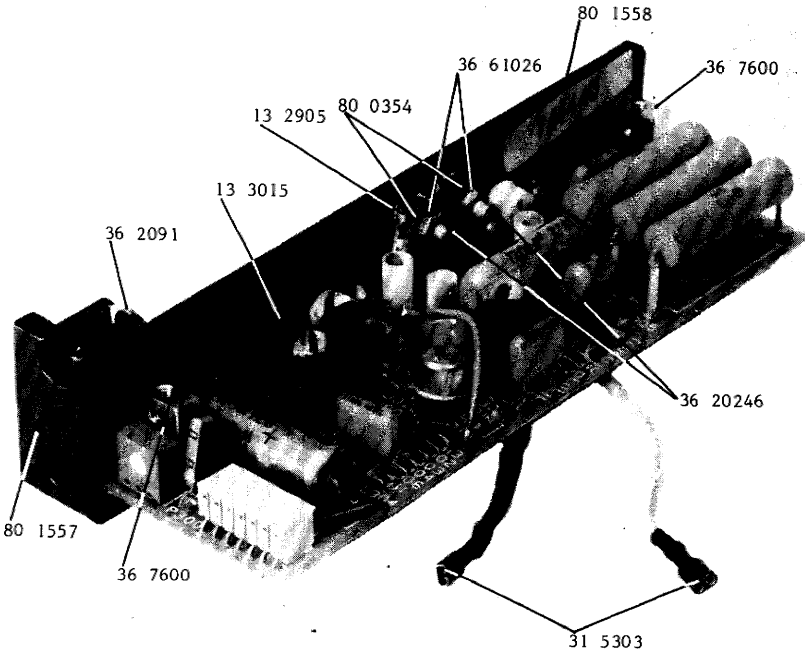




<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 3438	Resistor 1K5 6W	3
10 6824	Trimmer potentiometer 200E 0W50	1
11 1230	Capacitor 22M 160V	1
11 4132	Capacitor 100K 250V	4
11 4144	Capacitor 1M 250V	1
13 1621	Switch diode 1N4148	4
13 1627	Switch diode BAV21	4
13 1704	Zener diode 2V8 0W25 C	1
13 1740	Zener diode 12V 0W5 C	1
13 1749	Zener diode 18V 0W5 C	1
13 2102	Integrated circuit 550 TAA	3
13 2552	Transistor BF423	1
13 2586	Transistor BFR95	1
13 2593	Transistor BUZ74A FET	1
13 2902	Transistor MRF548	2
13 2905	Transistor 2SA1406F	2
13 2911	Transistor 2N5583	1

Numbers referring to picture :

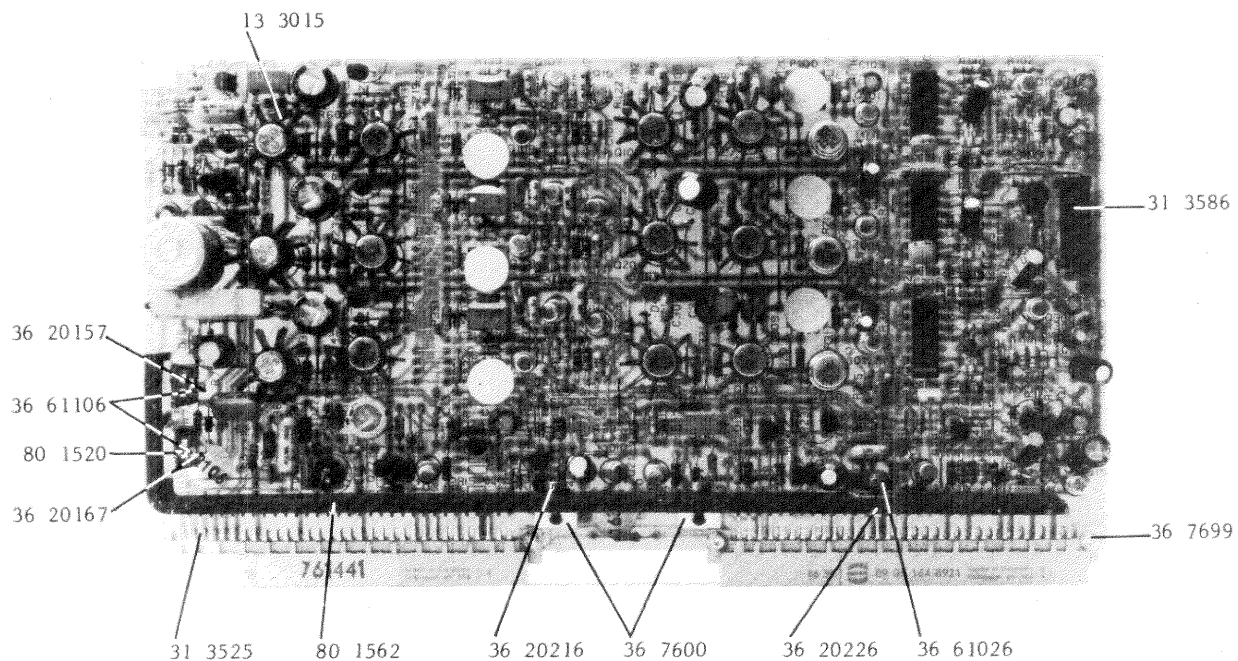
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 2905	Transistor 2SA1406F	2
13 3015	Transistor cooler T0-5	1
31 5303	Connector Rec	2
36 20246	Screw DIN84 M 3 x12	2
36 2091	Screw M 2.5x11	2
36 61026	Nut DIN934 M 3 Hexagonal	2
36 7600	Fixing bloc universel M3	2
80 0354	Washer DIA 3.25x 7.5	2
80 1557	Fixation heatsink	1
80 1558	Heatsink	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 3744	Resistor 2K2 5W	1
10 6723	Trimmer potentiometer 100E 0W50	3
10 6738	Trimmer potentiometer 2M 0W50	3
10 6824	Trimmer potentiometer 200E 0W50	3
10 6834	Trimmer potentiometer 200K 0W50	1
11 1571	Capacitor 2M2 350V	1
11 1639	Capacitor 47M 250V	1
11 2692	Capacitor 120P 500V	1
11 4132	Capacitor 100K 250V	3
11 4136	Capacitor 220K 250V	1
13 1621	Switch diode 1N4148	22
13 1627	Switch diode BAV21	3
13 1636	Diode BAT43 SD101 Schottky	1
13 1637	Diode BA158 Switch	3
13 1716	Zener diode 5V1 0W5 C	3
13 1721	Zener diode 13V 0W5 C	2
13 1729	Zener diode 4V7 0W5 C	1
13 1735	Zener diode 10V 0W5 C	1
13 1749	Zener diode 18V 0W5 C	1
13 1754	Zener diode 3V3 0W5 C	1
13 1771	Zener diode 150V 0W5 C	1
13 1411	Transistor BC549C/BC239C	2
13 14181	Transistor BC559B/BC309B	3
13 14295	Transistor BC549B	10
13 1471	Transistor BF458	1
13 1491	Transistor BSX20, 2N2369	19
13 2507	Transistor BF324	3
13 2520	Transistor 2N2907	1
13 2552	Transistor BF423	1
13 2586	Transistor BFR95	12
13 2593	Transistor BUZ74A FET	2
13 2910	Transistor BS170 FET	2
13 2911	Transistor 2N5583	3
13 2705	Integrated circuit 3246E	3
13 4000	Integrated circuit 7818	1

Numbers referring to picture : (see next page)

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 3015	Transistor cooler	12
31 3525	Euro connector P64	2
31 3586	Connector P7	1
36 20157	Screw DIN84 M 2.5x12	1
36 20167	Screw DIN84 M 2.5x16	1
36 20216	Screw DIN84 M 3 x 6	4
36 20226	Screw DIN84 M 3 x 8	1
36 61026	Nut DIN934 M 3 Hexagonal	1
36 61106	Nut DIN934 M 2.5 Hexagonal	2
36 7600	Fixing bloc universel M3	2
36 7699	Rivet Chobert D2.38 L6.35	4
80 1520	Spacer Iso L 6.5 D9.75D4.9 PSU	1
80 1562	Heatsink	1



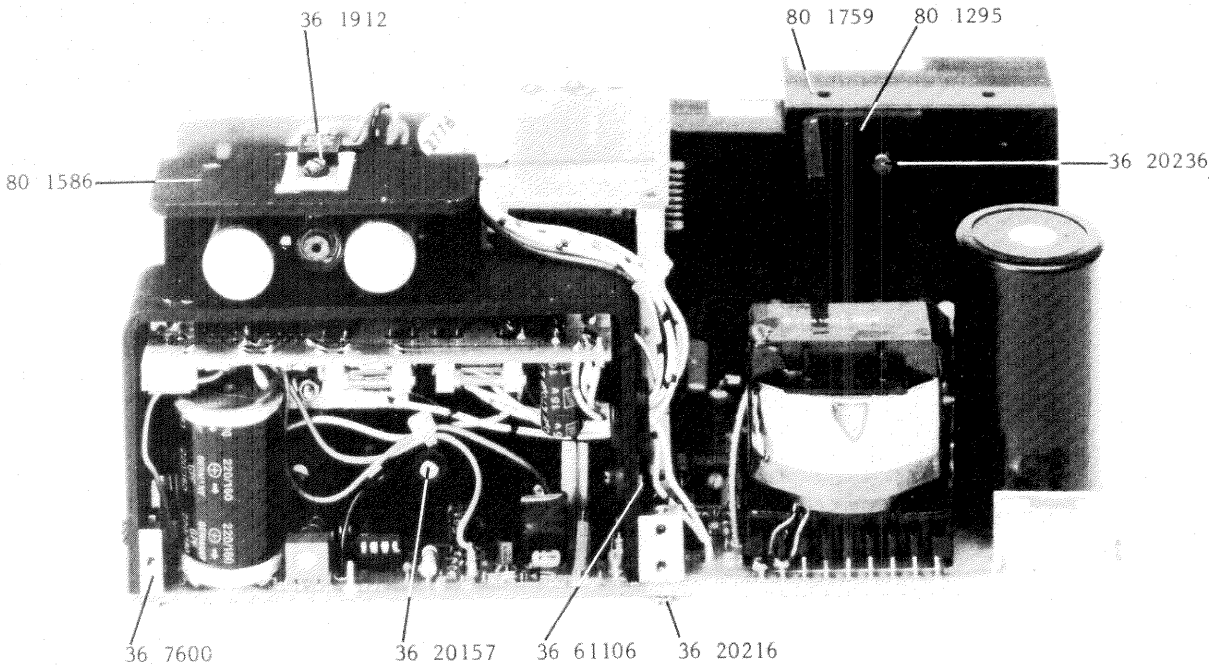
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 3226	Resistor 150E 1W50	2
10 3341	Resistor 2K7 4W	1
10 3658	Resistor 680E 4W	1
10 4654	Resistor 1M HV 0W50	1
10 4656	Resistor 1M2 HV 0W50	1
10 46781	Resistor 10M HV 1W	1
10 5211	Resistor PTC 4K7	1
10 6829	Trimmer potentiometer 10K 0W50	1
10 6832	Trimmer potentiometer 50K 0W50	1
11 1639	Capacitor 47M 250V	3
11 1640	Capacitor 220M 160V	2
11 1655	Capacitor 400M 385V	1
11 1769	Capacitor 3K3 1500V	1
11 2837	Capacitor 10K 400V	2
11 39102	Capacitor 6K8 250V	2
11 4128	Capacitor 47K 250V	1
11 47009	Capacitor 4K7 AC 400V	1
11 50051	Capacitor 2K2 1500V	1
13 1621	Switch diode 1N4148	1
13 1637	Switch diode BA158	4
13 1646	Rectifier diode 1N4007	7
13 19025	Rectifier diode BY255	4
13 1921	Rectifier diode BY299	2
13 1927	Rectifier diode BY229-600	1
13 1928	Rectifier diode BY229-600R	4
13 1952	Rectifier diode BYW96E	1
13 1667	Diode CQY95-B4 LED D3 Green	1
13 2787	Integrated circuit 4601 TDA	2
13 4026	Integrated circuit 317T	1
13 4031	Integrated circuit 431C TL	1
13 4114	Integrated circuit 393	1
13 1691	Opto Coupler 601G-3 SFH	1
13 14071	Transistor BC547B/BC237B	1
13 14131	Transistor BC557B/BC307B	1
13 1471	Transistor BF458	1
13 25096	Transistor BU508A, ON4046	1
13 2913	Transistor BUP101	1
13 2210	Thyristor 2106 SR	1
13 1728	Zener diode 11V 0W5 C	1
13 1756	Zener diode 7V5 0W5 C	2
13 1787	Zener diode 51V 0W5 C	1
13 1791	Zener diode 6V2 0W5 B	1
31 4143	Fuse 2A 5x20 Fast	1
31 4198	Fuse Thermo 85 C	1
76 1442B	Switch Mode Power Supply Module	1
76 1442S	Switch Mode Power Supply Module	1
77 4169	Transformer SMP VAR	1
77 4186	Transformer SMP Fix	1

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6827	Trimmer potentiometer 2K 0W50	1
13 1621	Switch diode 1N4148	1
13 1636	Diode BAT43 SD101 Schottky	1
13 1927	Rectifier diode BY229-600	1
13 1928	Rectifier diode BY229-600R	1
13 4031	Integrated circuit 431C TL	1
13 4116	Integrated circuit 353	1
31 4103	Fuse 3A150 5x20 Slow	4

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
11 1639	Capacitor 47M 250V	2
13 1928	Rectifier diode BY229-600R	1

Numbers referring to picture :

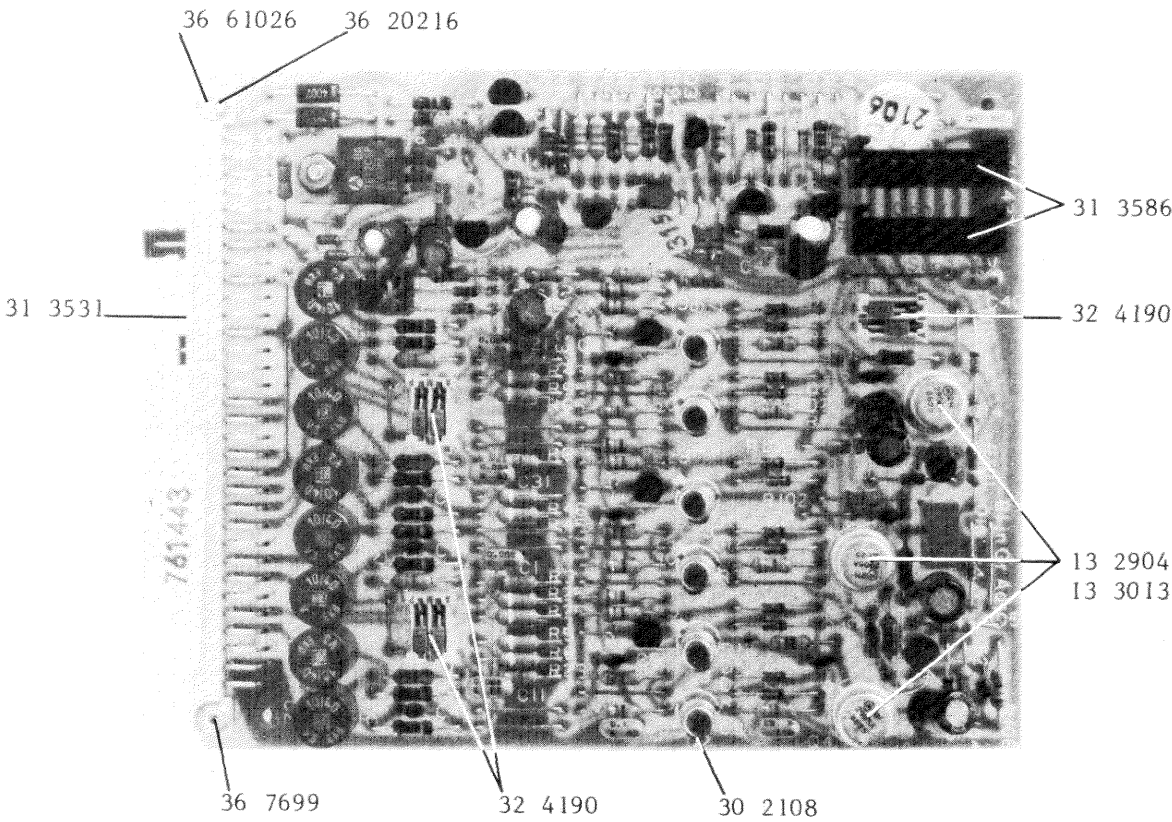
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
36 1912	Screw DIN965 M 3 x 6	1
36 20157	Screw DIN84 M 2.5x12	6
36 20216	Screw DIN84 M 3 x 6	6
36 20236	Screw DIN84 M 3 x 10	5
36 61106	Nut DIN934 M 2.5 Hexagonal	6
36 7600	Fixing bloc universel M3	4
80 1295	Heatsink	1
80 1586	Heatsink	1
80 1759	Heatsink	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6824	Trimmer potentiometer 200E 0W50	1
13 1411	Transistor BC549C/BC239C	3
13 14182	Transistor BC559C/BC309C	3
13 14295	Transistor BC549B	5
13 1491	Transistor BSX20, 2N2369	6
13 2507	Transistor BF324	2
13 2904	Transistor 2N2905A	3
13 1621	Switch diode 1N4148	22
13 1646	Rectifier diode 1N4007	3
13 4002	Integrated circuit 7812	1
13 4034	Integrated circuit 79L12	1

Numbers referring to picture :

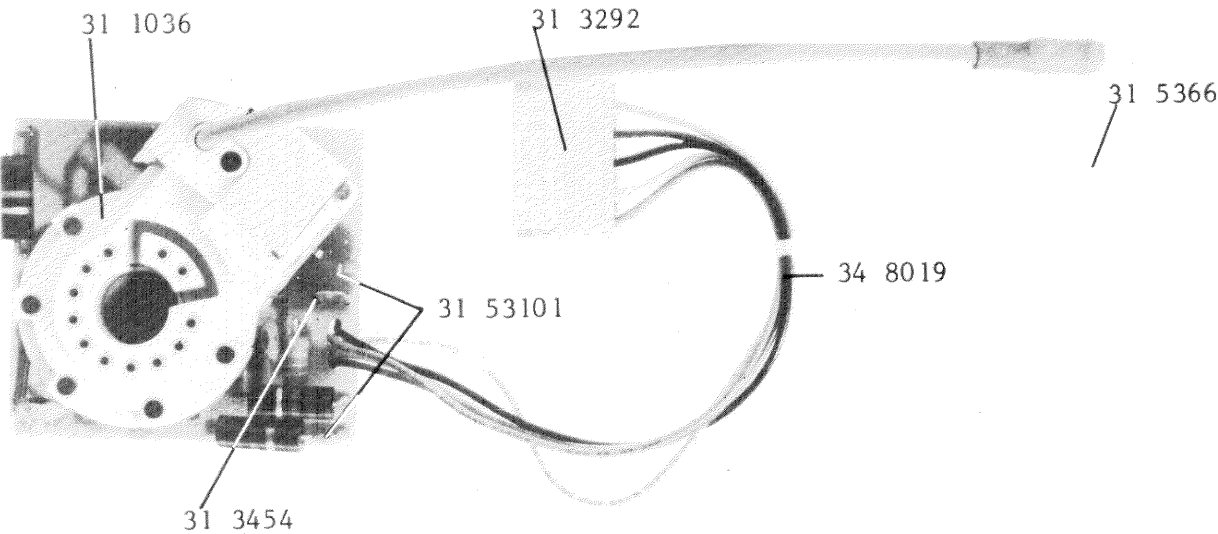
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 2904	Transistor 2N2905A	3
13 3013	Transistor mounting PAD T0-5	3
30 2108	Core Tube 1.3/3.5x3	6
31 3531	Euro Connector P64 Key	1
31 3586	Connector P7	2
32 4190	Switch DIL 1A 2P TE	3
36 61026	Nut DIN934 M 3 Hexagonal	1
36 20216	Screw DIN84 M 3 x 6	1
36 7699	Rivet Chobert D2.38 L6.35	2



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 2125	Resistor 120E 1W	1
10 2129	Resistor 270E 1W	1
10 2148	Resistor 10K 1W	2
10 3254	Resistor 33K 1W50	1
11 20902	Capacitor 100P 2000V	1
11 2833	Capacitor 4K7 400V	1

Numbers referring to picture :

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 1036	Tube socket SD130	1
31 3292	Connector case	1
31 3454	Connector tab T0.5 4.8	1
31 53101	Connector tab T0.5 2.8	2
31 5366	Connector ring	1
34 8019	Wire tie L100	1

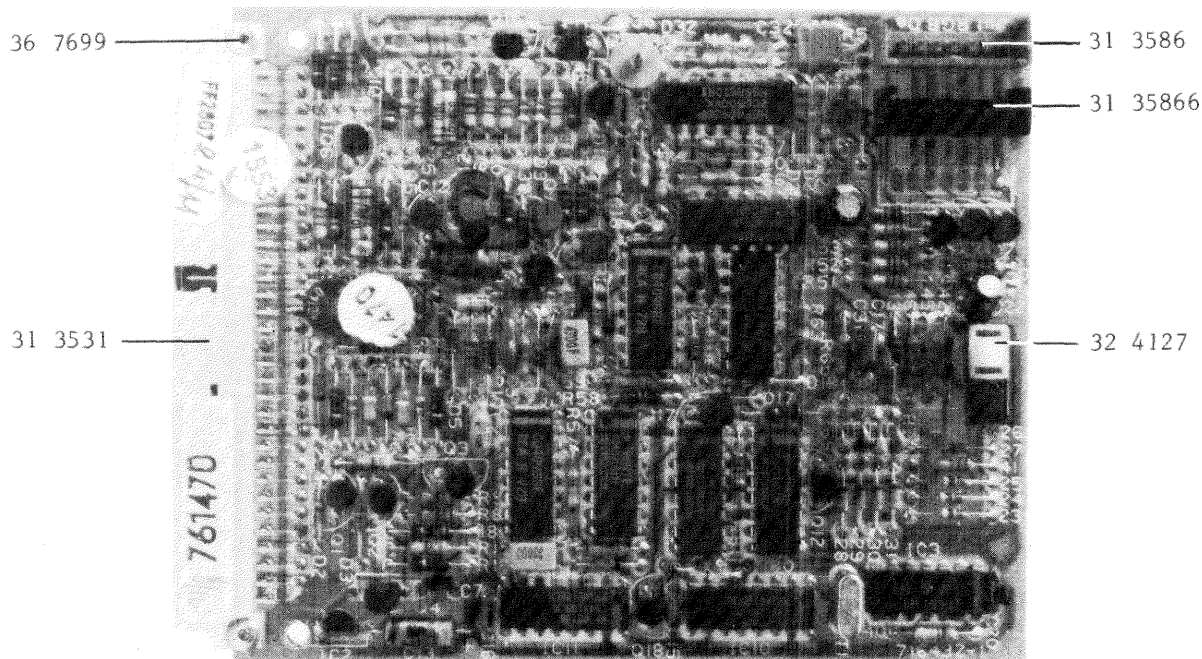




<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
11 7001	Trimmer capacitor 7 -35P 160V	1
13 14295	Transistor BC549B	7
13 14181	Transistor BC559B/BC309B	7
13 14295	Transistor BC549B	3
13 1621	Switch diode 1N4148	19
13 1636	Diode BAT43 SD101 Schottky	9
13 1827	Varicap diode BB329B	1
13 1740	Zener diode 12V 0W5 C	1
13 1751	Zener diode 9V1 0W5 C	1
13 4033	Integrated circuit 78L12	1
13 4034	Integrated circuit 79L12	1
13 7302	Integrated circuit 4011B	1
13 73325	Integrated circuit 4098B HCF	1
13 7377	Integrated circuit 4520	1
13 7378	Integrated circuit 4538B	1
13 73945	Integrated circuit 4093B HEF	1
13 7392	Integrated circuit 4070B	1
13 7397	Integrated circuit 4013B	1
13 7626	Integrated circuit 4516	1
13 7627	Integrated circuit 4518	3
30 6855	Crystal 5.000 000 MHz	1

Numbers referring to picture :

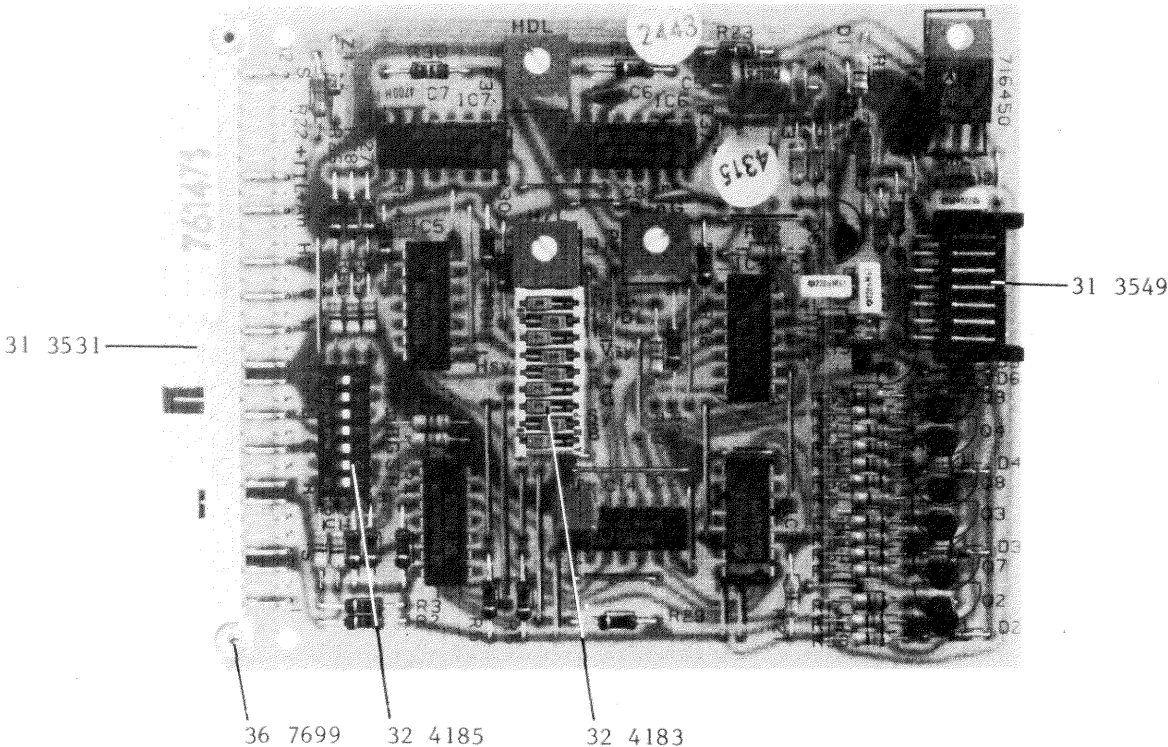
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 3531	Euro connector P64 Key	1
31 3586	Connector P7	1
31 35866	Connector P7	1
32 4127	Switch slide 4A	1
36 7699	Rivet Chobert D2.38 L6.35	2



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6725	Trimmer potentiometer 500E 0W50	1
10 6726	Trimmer potentiometer 1K 0W50	1
10 6733	Trimmer potentiometer 100K 0W50	1
13 14181	Transistor BC559B/BC309B	8
13 1621	Switch diode 1N4148	9
13 1754	Zener diode 3V3 0W5 C	1
13 7429	Integrated circuit 74S04	1
13 7430	Integrated circuit 74S09	1
13 7432	Integrated circuit 74S86	2
13 7433	Integrated circuit 74S10	1
13 7480	Integrated circuit 74LS123	2
13 4001	Integrated circuit 7805	1

Numbers referring to picture :

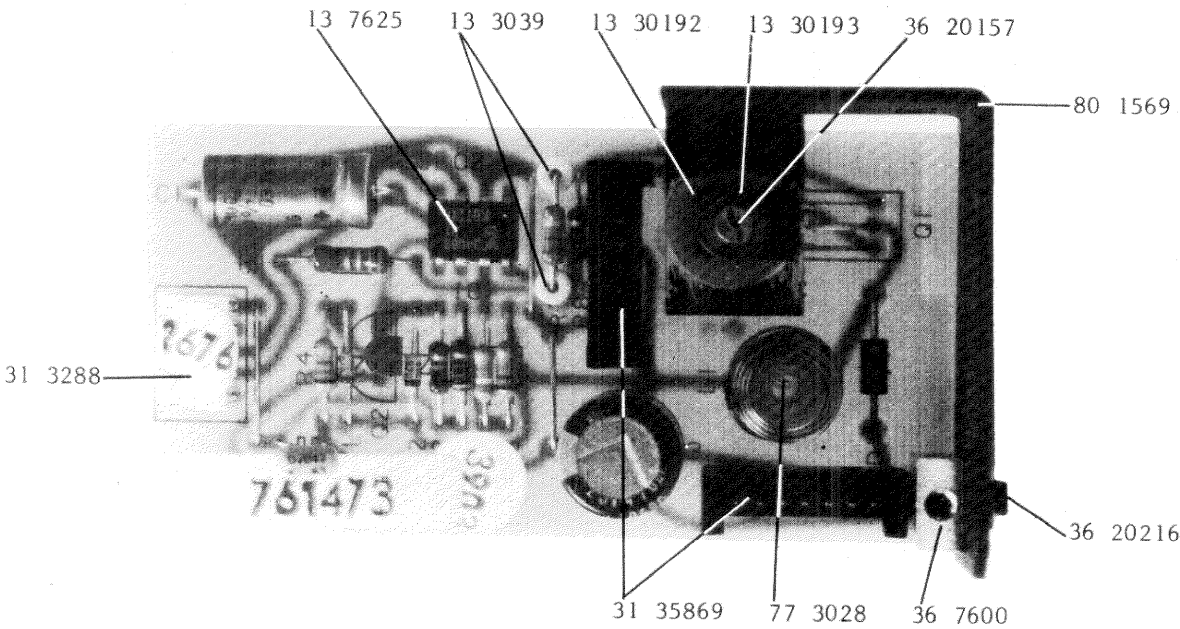
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 3531	Euro connector P64 Key	1
31 3549	Connector P7	1
32 4183	Switch DIL 1A 9P TE	1
32 4185	Switch DIL 1A 7P TE	1
36 7699	Rivet Chobert D2.38 L6.35	2



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 1621	Switch diode 1N4148	2
13 1637	Switch diode BA158	1
13 1413	Transistor BC557/BC307	1
13 14451	Transistor BD238	1
13 1742	Zener diode 6V8 0W5 C	1
13 1767	Zener diode 6V8 0W5 B	2

Numbers referring to picture :

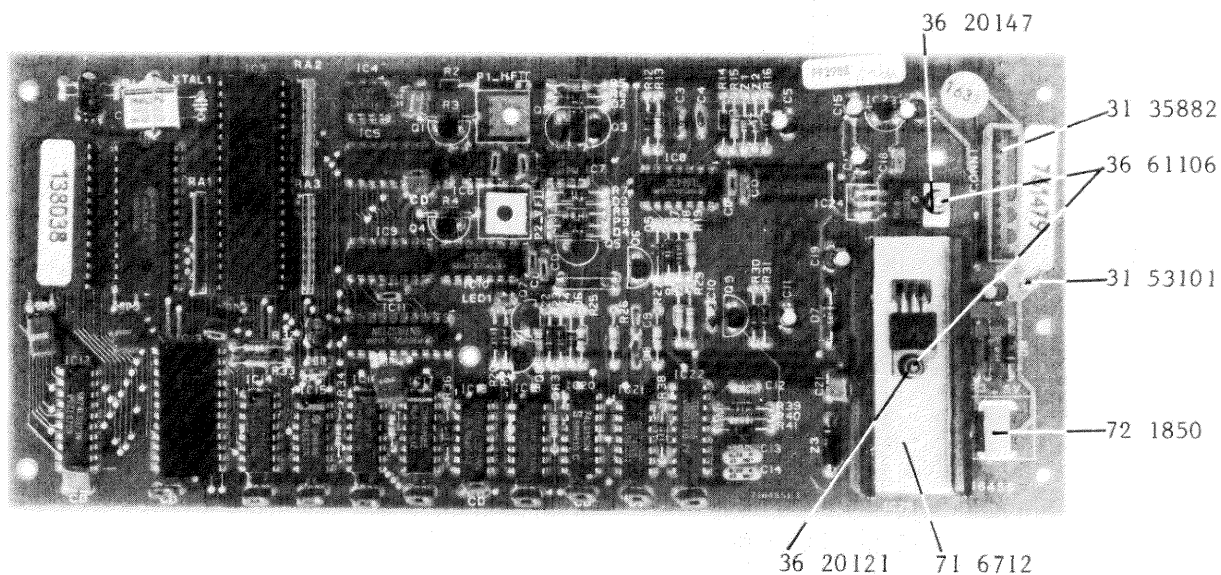
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
13 3039	Spacer L 8 D 4 D1.2 CER	2
13 7625	Integrated circuit 34063	1
13 3019	Transistor Set Insulat T0-126	1
13 30191	Transistor Washer T0-126	1
13 30192	Transistor Mica Insulat T0-126	1
13 30193	Transistor Bush Insulat T0-126	1
31 3288	Connector P10 2.5	0.5
31 35869	Connector P 7 Lock	2
36 20157	Screw DIN84 M 2.5 x 12	1
36 20216	Screw DIN84 M 3 x 6	2
36 7600	Fixing bloc universel M3	1
77 3028	Coil Choke	1
80 1569	Heatsink Fan	1



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6725	Trimmer potentiometer 500E OW50	1
10 6727	Trimmer potentiometer 2K OW50	1
10 6728	Trimmer potentiometer 5K OW50	1
13 14071	Transistor BC547B/BC237B	5
13 14131	Transistor BC557B/BC307B	3
13 14295	Transistor BC549B	1
13 14651	Transistor BF245B	1
13 1646	Rectifier diode 1N4007	2
13 1621	Switch diode 1N4148	6
13 1757	Zener diode 3V9 OW5 C	2
13 1662	Diode CQY54-A3 Led D3 Red	1
13 1792	Diode P6KE6V8P Transil	1
13 2762	Integrated circuit 2595 TDA	1
13 4002	Integrated circuit 7812	1
13 4024	Integrated circuit 02 REF	1
13 4026	Integrated circuit 317T	1
13 4034	Integrated circuit 79L12	1
13 4113	Integrated circuit 084	2
13 4117	Integrated circuit 77 07 OP	2
13 7198	Integrated circuit 7548	1
13 7270	Integrated circuit 27128	1
13 7271	Integrated circuit 6264	1
13 7272	Integrated circuit 8085	1
13 7273	Integrated circuit 8254	1
13 7279	Integrated circuit 7524L	1
13 73241	Integrated circuit 4049UB	1
13 7355	Integrated circuit 74LS32	1
13 7394	Integrated circuit 4093B	1
13 7476	Integrated circuit 74LS373	1
13 7480	Integrated circuit 74LS123	1
13 7483	Integrated circuit 74LS273	1
13 7490	Integrated circuit 74LS138	1
13 7504	Integrated circuit 74LS153	1
13 7512	Integrated circuit 74LS73A	2
13 8038	Integrated circuit Soft Muplock 1.0 137270	1
30 6834	Crystal 6.000 000 MHz PCM 5MM	1

Numbers referring to picture : (see next page)

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 35882	Connector P11	1
31 53101	Connector P1	1
36 20121	Screw DIN84 M 2.5x6	1
36 20147	Screw DIN84 M 2.5x10	1
36 61106	Nut DIN934 M 2.5 Hexagonal	1
71 6712	Heatsink	1
72 1850	Protection clips	1

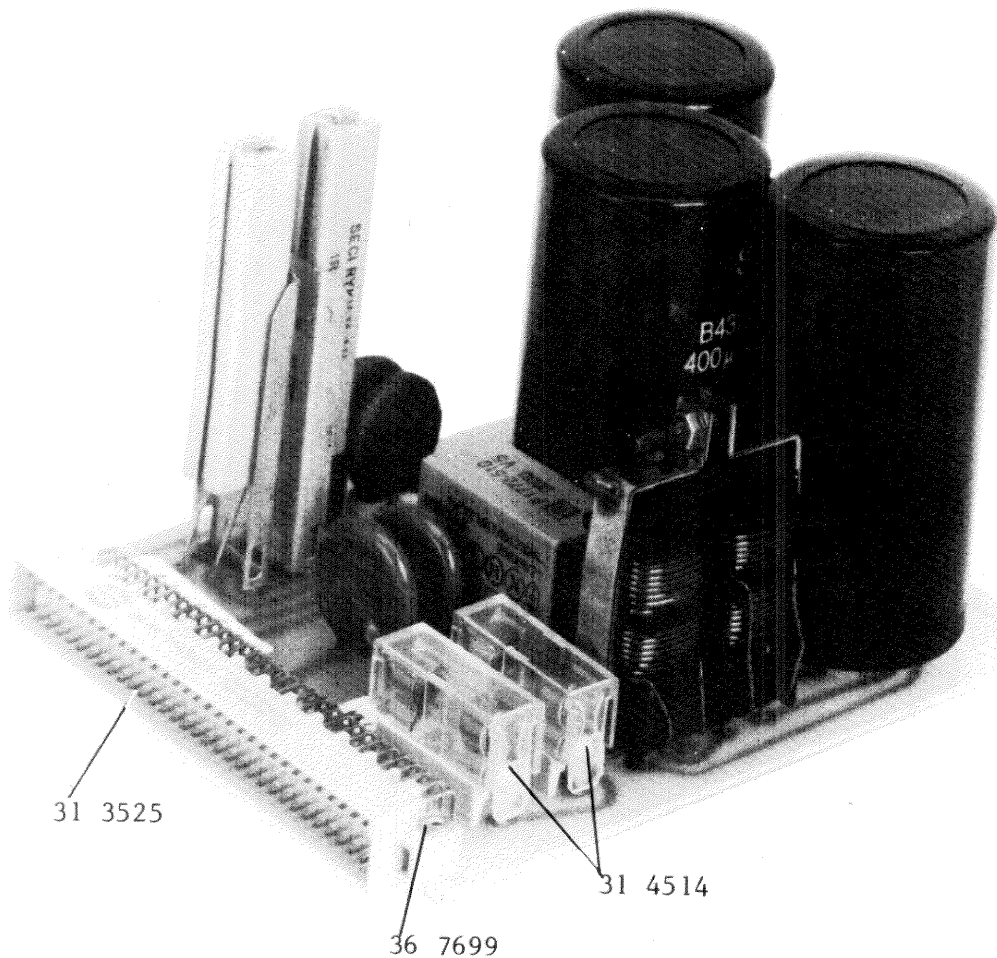


<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 6830	Trimmer potentiometer 20K 0W50	1
10 6833	Trimmer potentiometer 100K 0W50	1
10 7534	Multiturn 100K 0W75	2
13 14181	Transistor BC559B/BC309B	1
13 14295	Transistor BC549B	1
13 1621	Switch diode 1N4148	2
13 1735	Zener diode 10V 0W5 C	1
13 7391	Integrated circuit 4053B	1

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 4401	Resistor 1E 11W	2
10 5018	Resistor NTC 4E7 2W	2
11 1655	Capacitor 400M 385V	3
11 4716	Capacitor 1M AC 250V	1
11 4722	Capacitor 2K2 400V	2
31 4103	Fuse 3A150 5x20 Slow	2

Numbers referring to picture :

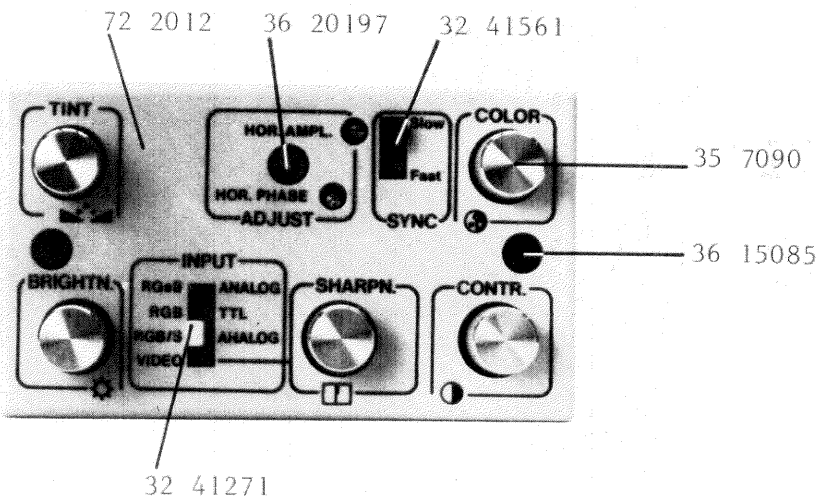
<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
31 3525	Euro connector P64	1
31 4514	Fuse 5x20 Cap+Holder	2
36 7699	Rivet Chobert D2.38 L3.35	2



<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
10 71305	Potentiometer 4K7 0W05	5
10 7530	Multiturn 100K 0W50	2

Numbers referring to picture :

<u>Art. nr.</u>	<u>Description</u>	<u>Quantity</u>
32 41271	Switch slide 4A	1
32 41561	Switch slide 1U AU	1
35 7090	Turn knob potentiometer miniature	5
36 15085	Screw DIN7981 3.2x16	2
36 20197	Screw DIN84 M 2.5x25	2
72 2012	Cabinet	1





**LIST OF MODIFICATIONS**

**GLOSSARY**

## BARCOGRAPHICS 400

Date	Modified board	Modified element	Modification
05/10/87	761274	C60, C62 C64, D6 D13, D14 Q10, Q11 Q12, Q13 Q14, Q30 P5, P6 R41, R90 R91, R92 R94, R95 R96, R97 R98, R99 R100 R101 R102 R103 R107 R218 R510 D4	are deleted are deleted are deleted are deleted are deleted are deleted are deleted are deleted are deleted are deleted are deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted is deleted becomes a jumper
15/10/87	761443	R81	68K becomes 4K7
27/10/87	761441	R78	is deleted
30/10/87	761265	nn. * C31	capacitor 100nF 63V : new element (from collector of Q11 to ground) 4.7nF becomes 100pF
17/11/87	761284	nn. R5 R6 R99 C707	electrolytic capacitor 22µF 63V : new element 3K9 becomes 39K 5K6 becomes 56K 220K becomes 68K is deleted and node C2/R2 is connected to R717
17/11/87	761265	C1 R4 R8 R11	22nF becomes 10nF 8K2 becomes 12K 22K becomes 47K 33K becomes 47K
23/11/87	761274	nn. R504	resistor 68K 0.25W : new element is deleted
25/11/87	761265	R85	6K8 becomes 8K2
01/12/87	761284	R1	SR 47 ohm becomes SR 10 ohm
08/12/87	761284	nn. Q2	diode 1N4148 : new element between base and emitter of Q2 (anode at base) BC560B becomes BF423

# BARCOGRAPHICS 400

09/12/87	761470	C15	2.7nF becomes 3.3nF
		IC5	4098 becomes 4538
		R56	82K becomes 39K
		R57	56K becomes 27K
15/12/87	761479	C1	electrolytic cap. 2.2 $\mu$ F / 50V becomes el.cap. 47 $\mu$ F / 10V
16/12/87	761395	-	Quadrupler 10M (132087) becomes Un.Quadrupler (761541)
		-	Mains Input board (7611802) becomes Mains Input board (761548)
06/01/88	761441	C315	is deleted
07/01/88	761479S	R508	10K 0.25W becomes 100K 0.25W
11/01/88	761274B	nn.	capacitor 2.2nF / 63V : new element (across R207)
20/01/88	761284	nn.	capacitor 3.3nF : 2 new elements (across R358 and R258)
		nn.	capacitor 100nF / 250V : 2 new elements
		nn.	diode BAT43 : 2 new elements (across R359 and R259, anode to GND)
		C36	82pF becomes 22pF
		Q24	BC557B becomes 2N2907
		R122	39K becomes 12K
10/02/88	761274	nn.	capacitor 100pF (between base of Q9 and GND) : new element
		nn.	capacitor 470pF (between pin 2 and 3 of IC400) : new element
		C10a	6.8nF becomes 1.5nF
16/02/88	761274	C10a	1.5nF becomes 1.8nF
23/02/88	761470	R55	270K is replaced by a jumper
		C23	is deleted
		D10	is deleted
25/02/88	761440	R302	820 ohm 0.5W CF becomes 820 ohm 0.5W MF 5%
01/03/88	761470	C29	15pF becomes 27pF
		IC6	4098B becomes HCF4098BE (SGS)
02/03/88	761274	nn.	ceramic capacitor 1nF (between pin 1 and 2 of IC15) : new element
		C117	ceramic capacitor 1nF : new element
09/03/88	761265	nn.	mica capacitor 4.7nF in series with resistor 10K : across R22: new elements
		nn.	diode 1N4148 : 2 new elements
		nn.	diode BYV96E : new element
		C2	220nF becomes 470nF / 63V
		R4	12K becomes 22K
		R6	10K becomes 1K
		R22	2K7 becomes 6K8

# BARCOGRAPHICS 400

14/03/88	761265	Q7	BUZ310 becomes BUZ357
		Q6	is deleted
		R19	is deleted
14/03/88	761479	C2	is deleted
	761479B	-	new board instead of C2
	761546X	nn.	two - pole magnet ring (n°306662) : new element
16/03/88	7915512	R7	3K9 0.25W becomes 4K7 0.25W
22/03/88	761274S	R402	4K7 (metal-film) becomes 4K3 (metal-film)
07/04/88	761442	C13	3.3nF / 100V becomes 3.3nF / 63V
08/04/88	761284	nn.	capacitor 22µF / 40V becomes 10µF / 63V (across R5)
	R115		1K8 becomes 8M2, and is connected to pin 12 of IC11
	R121		330R becomes 1K2 and is grounded
	R709		22K 0.25W becomes 22K 0.5W (metal-film)
	R796		2K2 becomes 15K
	Z2		zener 51V becomes zener 36V
	Z706		zener 3V3 becomes zener 27V
	Z707		zener 51V becomes zener 27V
	R114		is deleted
26/04/88	761540	nn.	resistor 10M 0.25W : new element on new EHT splitter
04/05/88	761442	D24	is deleted
06/05/88	761274B	nn.	electrolytic capacitor 22µF / 25V : new element
		nn.	ceramic capacitor 1nF (between pin 1 and 2 of IC15) becomes ceramic capacitor 2.2nF

\* : nn. : element is not named on the schematic diagram

## A

ALE - Address Latch Enable  
 ASCII - American Standard Code for Information  
 Interchange

## B

BCL - Beam Current Limiter

## C

C# - Capacitor  
 CAD - Computer Aided Design  
 CAE - Computer Aided Engineering  
 CAM - Computer Aided Manufacturing  
 CLK - Clock-signal  
 CGA - Color Graphics Adapter  
 COH - Horizontal CoIncidence  
 COV - Vertical CoIncidence  
 CRT - Cathode Ray Tube  
 CS - Chip Select  
 CSB - Control and Switch Box  
 CTI - Color Transient Improver

## D

D# - Diode  
 DA - Display Adapter  
 DAC - Digital-to-Analog Convertor  
 DR - Horizontal Drive signal

## E

ECL - Emitter Coupled Logic  
 EF - Emitter Follower  
 EGA - Enhanced Graphics Adapter  
 EHT - Extremely High Tension  
 EW - East-West

## F

F# - Fuse  
 FBHD - Feed Back Horizontal Deflection  
 FBHV - Feed Back High Voltage  
 FET - Field Effect Transistor  
 FSM - Finite State Machine

## G

GND - Ground

## H

HD - Hold Down  
 HDB - Horizontal Deflection Blue  
 HDG - Horizontal Deflection Green  
 HDL - Horizontal Deflection Low  
 HDLB - Horizontal Deflection Low Blue  
 HDLG - Horizontal Deflection Low Green  
 HDLR - Horizontal Deflection Low Red  
 HDR - Horizontal Deflection Red  
 HF - Horizontal Frequency  
 HF II - Second Horizontal Frequency lock manual  
 HF AUTO - Horizontal Frequency Auto lock  
 HFB - Horizontal Fly Back Pulses  
 HGA - Hercules Graphics Adapter  
 HOR DEFL + EHT - Horizontal Deflection and  
 Extremely High Tension Board  
 HOR PAR - Horizontal Parabola  
 HPCC - Horizontal Pin-Cushion Correction  
 HS - Horizontal Sync  
 HSHD - Horizontal Scan Hold Down  
 HTHD - High Tension Horizontal Deflection  
 HTHV - High Tension High Voltage  
 HVR - High Voltage Resistor

## I

IC - Integrated Circuit

## L

LED H - Horizontal Drive LED  
 LED V - Vertical Drive LED

## M

MCGA - Multicolor Graphics Adapter  
 MDA - Monochrome Display Adapter  
 MOSFET - Metal Oxide Semiconductor Field Effect  
 Transistor

## N

NS - North-South  
 NSB - North-South Blue  
 NSG - North-South Green  
 NSR - North-South Red  
 NTC - Negative Temperature Coefficient  
 NTSC - National Television Standards Committee  
 N3 - NTSC with color subcarrier at 3.58 MHz  
 N4 - NTSC with color subcarrier at 4.43 MHz

## P

P# - Potentiometer  
 PAL - Phase Alternating Line  
 PGA - Professional Graphics Adapter  
 P/S - PAL/SECAM  
 P/S/N - PAL/SECAM/NTSC  
 PTC - Positive Temperature Coefficient

## Q

Q# - Transistor

## R

R# - Resistor  
 RAM - Random Access Memory  
 RCVDs - Remote Control Video- and Data Selector  
 RCVDs (QUAD) - Remote Control Video- and Data  
 Selector (QUAD)  
 RD - Read  
 RGB - Red Green Blue  
 RGB/s - Red Green Blue with separate  
 Synchronisation  
 RGsB - Red Green Blue with synchronisation on  
 Green  
 ROM - Read Only Memory

## S

SECAM - Sequential technique and Memory storage  
 SF - Scan Fail  
 SMPS - Switched Mode Power Supply  
 SR# - Safety Resistor

## T

TH# - Thyristor  
 TTL - Transistor-Transistor Logic

## V

+V - Tracking Voltage  
 VA - Vertical Amplitude  
 VB - Vertical Blanking  
 VDB - Vertical Deflection Blue  
 VDG - Vertical Deflection Green  
 VDL RED - Vertical Deflection Low Red  
 VDR - Vertical Deflection Red  
 VF - Vertical Frequency or Vertical Flyback  
 VF II - Second Vertical Frequency lock manual  
 VF AUTO - Vertical Frequency Auto lock  
 VFB - Vertical Flyback  
 VGA - Video Graphics Array  
 +VG2 - Screen grid voltage (black level)  
 VP - Vertical Parabola  
 VR - Vertical Ramp  
 VS - Vertical Sync

## W

WR - Write signal  
 WR H - Wirewound Resistor Horizontal  
 WR V - Wirewound Resistor Vertical

## Z

Z# - Zener Diode

350 V  $\Lambda$  - Positive flyback pulse  
 350 V  $\Upsilon$  - Negative flyback pulse