

ROTEL *hi-fi*

Technical Manual

RC 995

Stereo Control Amplifier

SPECIFICATIONS: RC 995 CONTROL AMPLIFIER

Total Harmonic Distortion (20 Hz-20,000 Hz)	≤ 0.004%
Intermodulation Distortion (60 Hz : 7 kHz, 4:1)	≤ 0.004%
Frequency Response	4-100 kHz, ± 0.5 dB
Phono Stage Frequency Response	20-20 kHz, ± 0.2 dB
Phono Impedance (MM, MC)	47 kOhms, 100 Ohms
Signal to Noise Ratio, CD (IHF A network)	100 dB
Signal to Noise, Phono	70 dB MC, 75 dB MM
Input Impedance (except Phono)	18 kOhms
Output Impedance	100 Ohms
Rated Output Voltage	1 Volt
Power Requirements	115 Volts, 60 Hz or 230 Volts, 50 Hz
Power Consumption, Max.	13 watts,
Dimensions (W, H, D)	Standby 2.4 watts 440 x 70 x 325 mm 17.37 x 2.75 x 12.78"
Weight	5.4 kg, 11.9 lbs.

All specifications are accurate at the time of printing. Rotel reserves the right to make improvements without notice.

Serial No.
Beginning

THE ROTEL CO., LTD.
ROTEL ELECTRONICS CO., LTD.






4TH FL. BUNZAN-SHINSEN BLDG., 10-10 SHINSEN-CHO,
SHIBUYA-KU, TOKYO 150 JAPAN.
3RD FL. ROTEL BLDG., NO.35 FUSHING NORTH ROAD,
TAIPEI, TAIWAN, REPUBLIC OF CHINA.





SYMBOL	PARTS NO.	DESCRIPTION
	016X-1231B01T PCB	ASSEMBLY
C400	043 50VZF473	CAP,CERA.50V0.047UF
C401,402	044 FKP2-100V101H	CAP.P.P 100V100pF
C403,404	044 FSC160V331H	CAP,STYROL160V330pF
C405,406	044 FSC160V101H	CAP,STYROL160V100pF
C407,408	044 FKP2-100V102F	CAP.P.P 100V1000pF
C409,410	041 50VBGF10M	CAP,ELEC.50V10UF
C411,412	044 S160V6800F	CAP,STYROL160V6800pF
C417,418	041 25BGF100M	CAP,ELEC.25V100UF
C419,420	041 25BGF100M	CAP,ELEC.25V100UF
C425,426	041 25BGF100M	CAP,ELEC.25V100UF
C427,428	041 25BGF100M	CAP,ELEC.25V100UF
C429,430	041 50BGF10M	CAP,ELEC.50V10UF
C431,432	041 ECEA1EF471	CAP,ELEC.25V470UF
C433,434	041 ECEA1EF471	CAP,ELEC.25V470UF
C451,452	041 U25V100	CAP,ELEC.25V100UF
C462,463	041 25BGF47M	CAP,ELEC.25V47UF
C485	041 25BGF100M	CAP,ELEC.25V100UF
C487	041 25BGF100M	CAP,ELEC.25V100UF
C501,502	041 25BGF47M	CAP,ELEC.25V47UF
C503,504	044 FKP2-100V101H	CAP.P.P 100V100pF
C505,506	041 50BGFR47M	CAP,ELEC.25V0.47UF
C507,508	041 25BGF47M	CAP,ELEC.25V47UF
C513,514	041 35BGF100M	CAP,ELEC.25V100UF
C515,516	041 35BGF100M	CAP,ELEC.25V100UF
C517,518	041 35BGF470M	CAP,ELEC.35V470UF
C519,520	041 35BGF470M	CAP,ELEC.35V470UF
C601,602	041 U50V4R7	CAP,ELEC.50V4.7UF
C701	041 U6.3V2200	CAP,ELEC.6.3V42200UF
C702	044 50MSA104J	CAP,SF 50V0.1UF
C703	041 U50V010	CAP,ELEC.50V1UF
C704,705	043 CH50V330	CAP,CERA.CH 33pF
C706,707	043 50VZF103	CAP,CERA.50V0.01
C708	043 50VZF103	CAP,CERA.50V0.01
C710	043 50VZF103	CAP,CERA.50V0.01
C902,903	043 500VZF103	CAP,CERA.500V0.01UF
C905,906	041 NS2G35V4700	CAP,ELEC.50V4700UF
C907,908	041 NS2G35V4700	CAP,ELEC.50V4700UF
C914,915	041 U35V100	CAP,ELEC.35V100UF
D401,402	034 1N4148-86	DIODE
D403,404	034 1N4148-86	DIODE
D405,406	034 RD18JSB2	ZENER DIODE
D415	034 1N4148-86	DIODE
D452,453	034 1N4148-86	DIODE
D454,455	034 1N4148-86	DIODE
D456,457	034 1N4148-86	DIODE
D501,502	034 1N4148-86	DIODE
D503,504	034 1N4148-86	DIODE
D505,506	034 1N4148-86	DIODE
D507,508	034 1N4148-86	DIODE
D509,510	034 MA27W-A	VARISTOR DIODE

SYMBOL	PARTS NO.	DESCRIPTION
D511	034 E-562	C.R. DIODE
D512	034 RD24JSB2	ZENER DIODE
D513	034 E-562	C.R. DIODE
D514	034 RD24JSB2	ZENER DIODE
D601,602	034 1N4148-86	DIODE
D701,712	034 1N4148-86	DIODE
D703,704	034 1N4148-86	DIODE
D705,706	034 1N4148-86	DIODE
D707,708	034 1N4148-86	DIODE
D709,710	034 1N4148-86	DIODE
D717	034 RD5.6JSB2	ZENER DIODE
D901,902	034 BR84	BRIDGE DIODE
D905	034 1N4148-86	DIODE
IC401,402	031 TL071CP	IC
IC403,404	031 NE5534AN	IC
IC451	031 TC9163N	IC
IC452	031 LC4966	IC
IC461	031 AD712JN	IC
IC701	031 TMP47C400BN	IC
IC702	031 LB1641	IC
IC703	031 TC9173P	IC
IC704	031 TC9174P	IC
IC902	031 NJM78M15A	IC
IC903	031 NJM79M15A	IC
Q401,402	032 2SD786-R,S	TRANSISTOR
Q403,404	032 2SD786-R,S	TRANSISTOR
Q405,406	033 2SC2362K-G,F	TRANSISTOR
Q407,408	033 2SD600K-E,F	TRANSISTOR
Q409,410	033 2SB631K-E,F	TRANSISTOR
Q451,452	032 2SA1345	TRANSISTOR
Q453,454	032 2SA1345	TRANSISTOR
Q455,456	032 2SA1345	TRANSISTOR
Q457,458	032 2SA1345	TRANSISTOR
Q459	032 2SA1345	TRANSISTOR
Q460,461	032 2SC3399	TRANSISTOR
Q462,463	032 2SC3399	TRANSISTOR
Q464,465	032 2SC3399	TRANSISTOR
Q466,467	032 2SC3399	TRANSISTOR
Q468	032 2SC3399	TRANSISTOR
Q501,502	033 2SC2362K-G,F	TRANSISTOR
Q503,504	033 2SC2362K-G,F	TRANSISTOR
Q505,506	033 2SA1016K-G,F	TRANSISTOR
Q507,508	033 2SA1016K-G,F	TRANSISTOR
Q509,510	033 2SA1016K-G,F	TRANSISTOR
Q511,512	033 2SC2362K-G,F	TRANSISTOR
Q513,514	033 2SA1016K-G,F	TRANSISTOR
Q515,516	033 2SC2362K-G,F	TRANSISTOR
Q517,518	033 2SC2682-P	TRANSISTOR
Q519,520	033 2SA1142-P	TRANSISTOR
Q521,522	033 2SB631K-E,F	TRANSISTOR

SYMBOL	PARTS NO.	DESCRIPTION
Q523.524	033 2SD600K-E.F	TRANSISTOR
Q525.526	032 2SC536K-F.G	TRANSISTOR
Q527.528	032 2SA608K-F.G	TRANSISTOR
Q701.702	032 2SC536K-F.G	TRANSISTOR
Q902	032 2SC536K-F.G	TRANSISTOR
Q903	032 2SC2274-G.F	TRANSISTOR
R401.402	054 EE10 473	R.METAL 1% 47K
R403.404	054 EE10 101	R.METAL 1% 100R
R405.406	054 MK2330RFECZ	R.METAL 1% 330R
R407.408	054 MK2560RFECZ	R.METAL 1% 560R
R409.410	054 MK2047RFECZ	R.METAL 1% 47R
R411.412	054 MK205K6FECZ	R.METAL 1% 5.6K
R413.414	054 MK205K6FECZ	R.METAL 1% 5.6K
R415.416	054 MF4750	R.METAL 1% 475R
R417.418	054 MK2022KFECZ	R.METAL 1% 22K
R419.420	054 MK2270RFECZ	R.METAL 1% 270R
R421.422	054 MK202K7FECZ	R.METAL 1% 2.7K
R423.424	054 MK2075KFECZ	R.METAL 1% 75K
R425.426	054 MK204K7FECZ	R.METAL 1% 4.7K
R427.428	054 MK2470KFECZ	R.METAL 1% 470K
R429.430	054 MK2100RFECZ	R.METAL 1% 100R
R431.432	054 MK2100KFECZ	R.METAL 1% 100K
R433.434	054 MK2047KFECZ	R.METAL 1% 47K
R435.436	054 MK201K5FECZ	R.METAL 1% 1.5K
R451.452	054 MK2001KFECZ	R.METAL 1% 1K
R453.454	054 MK2001KFECZ	R.METAL 1% 1K
R455.456	054 MK2001KFECZ	R.METAL 1% 1K
R457.458	054 MK2001KFECZ	R.METAL 1% 1K
R459.460	054 MK2001KFECZ	R.METAL 1% 1K
R461.462	054 MK2001KFECZ	R.METAL 1% 1K
R463.464	054 MK2001KFECZ	R.METAL 1% 1K
R465.466	054 MK2001KFECZ	R.METAL 1% 1K
R467.468	054 MK2001KFECZ	R.METAL 1% 1K
R469.470	053 474J	R. CARBON 470K
R474	053 821J	R. CARBON 820R
R480.481	053 470J	R. CARBON 47R
R482.483	053 104J	R. CARBON 100K
R487.488	054 MK2010KFECZ	R.METAL 1% 10K
R489.490	054 MK2010KFECZ	R.METAL 1% 10K
R491.492	054 MK2100RFECZ	R.METAL 1% 100R
R493.494	054 MK2100RFECZ	R.METAL 1% 100R
R496.497	054 MK2047KFECZ	R.METAL 1% 47K
R501.502	054 EE10-101	R.METAL 1% 100R
R503.504	054 EE10-393	R.METAL 1% 39K
R505.506	054 MK201K2FECZ	R.METAL 1% 1.2K
R507.508	054 MK201K2FECZ	R.METAL 1% 1.2K
R509.510	054 MK201K2FECZ	R.METAL 1% 1.2K
R511.512	054 MK201K2FECZ	R.METAL 1% 1.2K
R513.514	054 MK2270RFECZ	R.METAL 1% 270R
R515.516	054 MK2270RFECZ	R.METAL 1% 270R

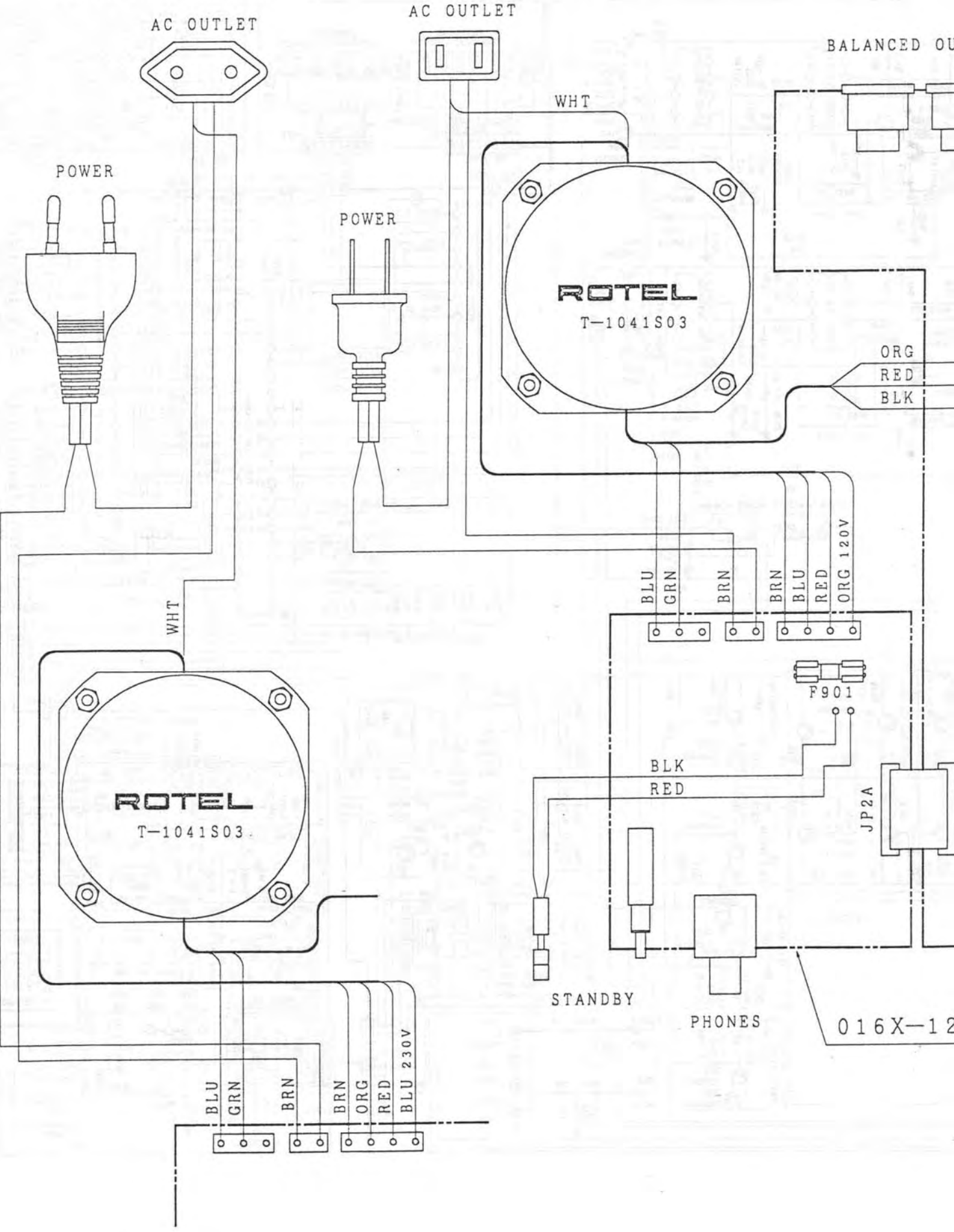
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R517.518	054 MK2022KFECZ	R.METAL 1% 22K
R519.520	054 MK2470RFECZ	R.METAL 1% 470R
R521.522	054 MK2470RFECZ	R.METAL 1% 470R
R523.524	054 MF1/4-2200F	R.METAL 1% 220R
R525.526	054 MF1/4-3301F	R.METAL 1% 3.3K
R527.528	054 MK2018KFECZ	R.METAL 1% 18K
R529.530	054 MK2010RFEXZ	R.METAL 1% 10R
R531.532	054 MK2010RFEXZ	R.METAL 1% 10R
R533.534	054 MK2100RFECZ	R.METAL 1% 100R
R535.536	054 MK2047KFECZ	R.METAL 1% 47K
R609.610	054 MK2047KFECZ	R.METAL 1% 47K
R611	054 RSS1X-270F	R.METAL 1W 270R
R612	053 561J	R. CARBON 560R
R701	053 473J	R. CARBON 47K
R702	053 124J	R. CARBON 120K
R703.704	053 102J	R. CARBON 1K
R706	054 SE4104J	R.ARRAY 100K-4P
R708.709	053 104J	R. CARBON 100K
R710.711	053 104J	R. CARBON 100K
R712.713	053 104J	R. CARBON 100K
R715	053 10J	R. CARBON 10R
R718	053 104J	R. CARBON 100K
R902	054 RSS1X-180F	R.METAL 1W 180R
R903.904	054 RSS2X-100F	R.METAL 2W 100R
R909	053 103J	R. CARBON 10K
R910	053 223J	R. CARBON 22K
RY401	063 EG2-24NU	RELAY
RY451.452	063 EA2-24	RELAY
RY453.454	063 EA2-24	RELAY
RY455.456	063 EA2-24	RELAY
RY457	063 EA2-24	RELAY
RY601.602	063 EG2-24NU	RELAY
RY902	063 VB-24SMCU-E	RELAY
S401	061 4TR-2783	PUSH SWITCH MM/MC
S461	064 4TR-2341	SLIDE SWITCH BAL
VR501	051 C-4170A22	BALANCE VOLUME
VR502	051 C-4170A20	VOLUME WITH MOTOR
X701	023 CSA4.19MHZ	CERAMIC FILTER
PJ1.2	066 4TR-2672#3	4P PIN JACK
PJ3.4	066 4TR-2672#3	4P PIN JACK
PJ5	066 4TR-2672#3	4P PIN JACK
PJ6	066 4TR-2166#3	4P PIN JACK

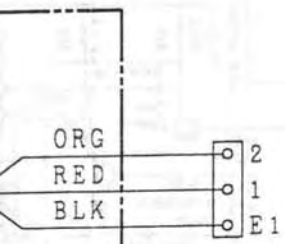
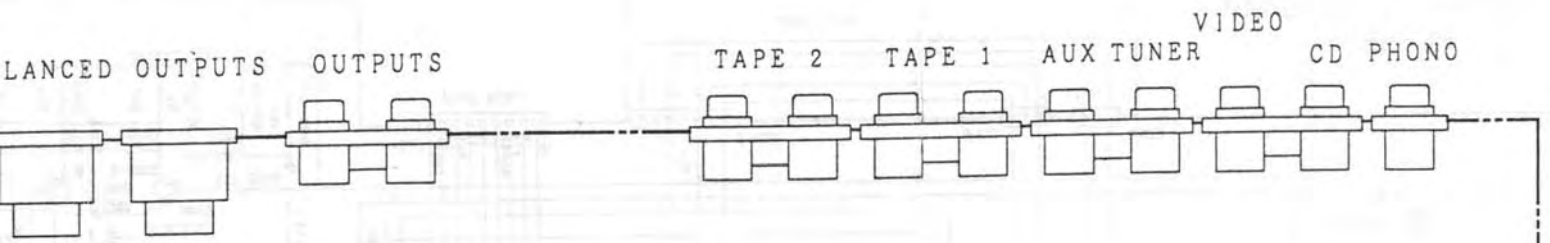
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X-1231A02T PCB ASSEMBLY		
C603.604	044 SRA470J125	CAP.STYROL125V470pF
C605.606	042 P50V103J	CAP.MYLAR 50V0.01UF
C607.608	041 U25V100	CAP.ELEC.25V100UF
C709	041 U25V47	CAP.ECEL.25V47UF
C901	044 DE7150F472M	SPARK KILLER 
C904	043 500VZF103	CAP.CERA.500V0.01UF
C910	041 U35V1000	CAP.ELEC.35V1000UF
C911	041 U35V100	CAP.ECEL.35V100UF
C912	041 U25V100	CAP.ELEC.25V100UF
C913	041 U16V220	CAP.ECEL.16V220UF
D903	034 PB153M	BRIDGE DIODE
D904	034 1N4148	DIODE
D906	034 RD12JSB2	ZENER DIODE
D907	034 1N4148	DIODE
F901	036 (U)F2.5A	FUSE 5MF2.5 US 
	036 (S)T1A	FUSE 5ST1 EUROPE 
HJ601	065 C-3399#3	PHONE JACK
IC601	031 NJM4556D	IC
IC705	031 IS1U60	IC
IC901	031 NJM78M05FA	IC
Q901	032 2SD863-EF	TRANSISTOR
R601.602	054 MK2100KFECZ	R.METAL 1% 100K
R603.604	054 MK2330KFECZ	R.METAL 1% 330K
R605.606	054 MK2033KFECZ	R.METAL 1% 33K
R607.608	054 MK2150RFECZ	R.METAL 1% 150R
R714	053 101J	R.CARBON 100R
R901	054 RSS1X-120F	R.METAL 1W 120R
R905	054 ERQ14AJ2R2P	FUSIBLE RESISTOR 
R906	053 821J	R.CARBON 820R
R907	054 RSS1X-68F	R.METAL 1W 68R
R908	053 333J	R.CARBON 33K
R911	053 682J	R.CARBON 6.8K
RY901	063 G4W-1112P-VD	RELAY 
S901	061 4TR-2763	PUSH SWITCH STANDBY
X-1231A03T PCB ASSEMBLY		
D711.712	034 1N4148	DIODE
D713.714	034 1N4148	DIODE
D715.716	034 1N4148	DIODE
S701.702	062 C-4174A13	ROTARY SWITCH
X-1231A04T PCB ASSEMBLY		
D718.719	034 LED LN38GCPP	LED
D720.721	034 LED LN38GCPP	LED
D722.723	034 LED LN38GCPP	LED
D724	034 LED LN38GCPP	LED
D725.726	034 LED LN48YCPP	LED
D727.728	034 LED LN48YCPP	LED
D729.730	034 LED LN48YCPP	LED
D731.732	034 LED LN48YCPP	LED
R716.717	053 680J	R.CARBON 680R

SYMBOL	PARTS NO.	DESCRIPTION
X-1231A06T PCB ASSEMBLY		
ACO901	069 C-4372A00	AC OUTLET US 
X-1231A07T PCB ASSEMBLY		
ACO902.90	069 S-16536#1	AC OUTLET EUROPE 
OTHER		
D001.002	034 SEL1124R	LED
D003	024 SEL1824D	LED
	066 C-4516A01	ROUND CONNECTOR
T001	022 T-1041S03	POWER TRANSFORMER 
	069 S2-741T-110	AC OUTLET UK 
	072 4TR-670#5	AC CORD US 
	072 C-3675	AC CORD EUROPE 
	072 4TR-3083	AC CORD UK 
	072 C-3763C01	AC CORD AUSTRALIA 

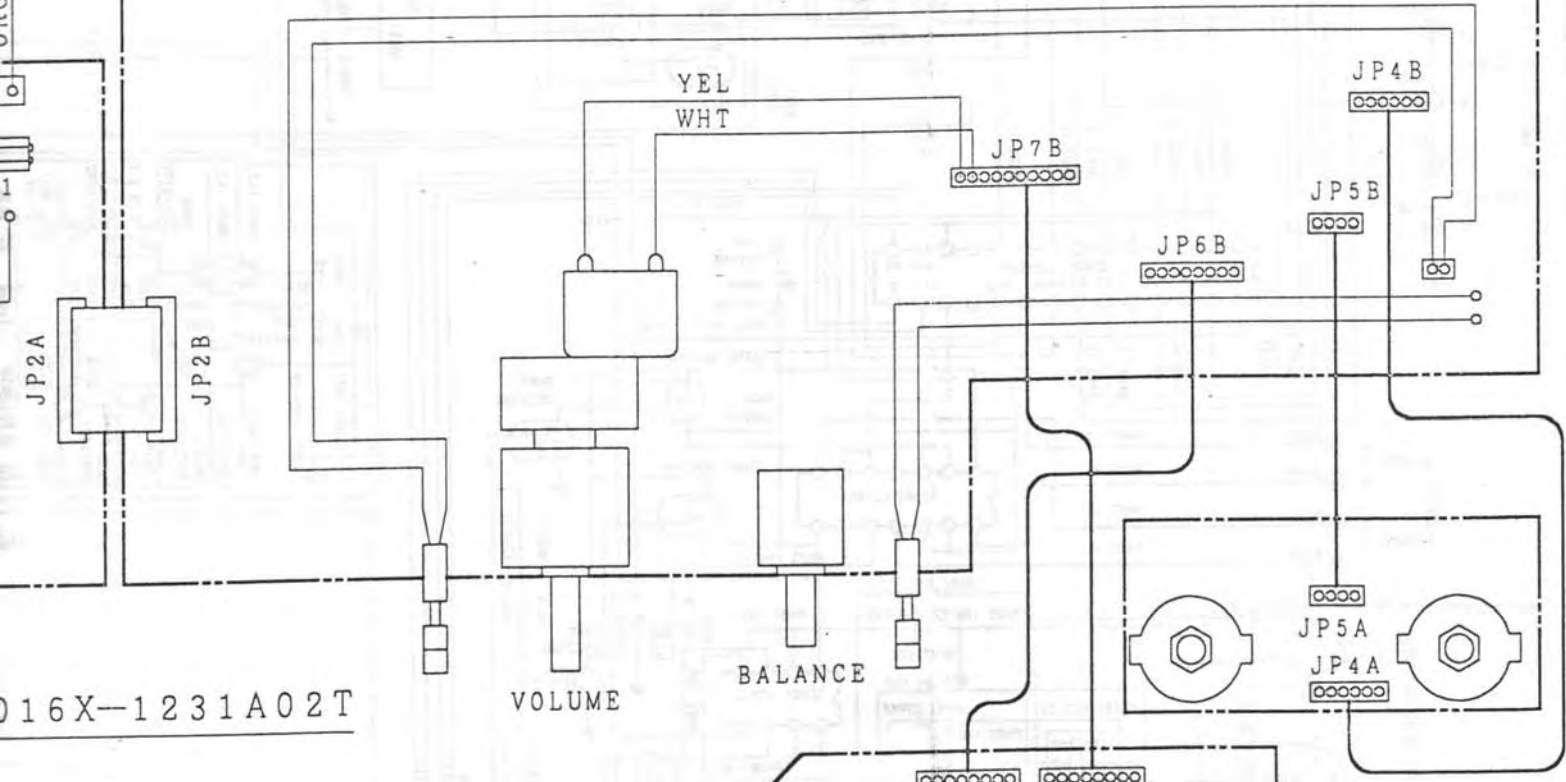
EUROPE VERSION

US VERSION



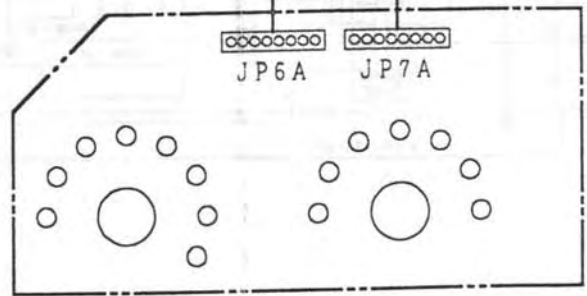


016X-1231A01T

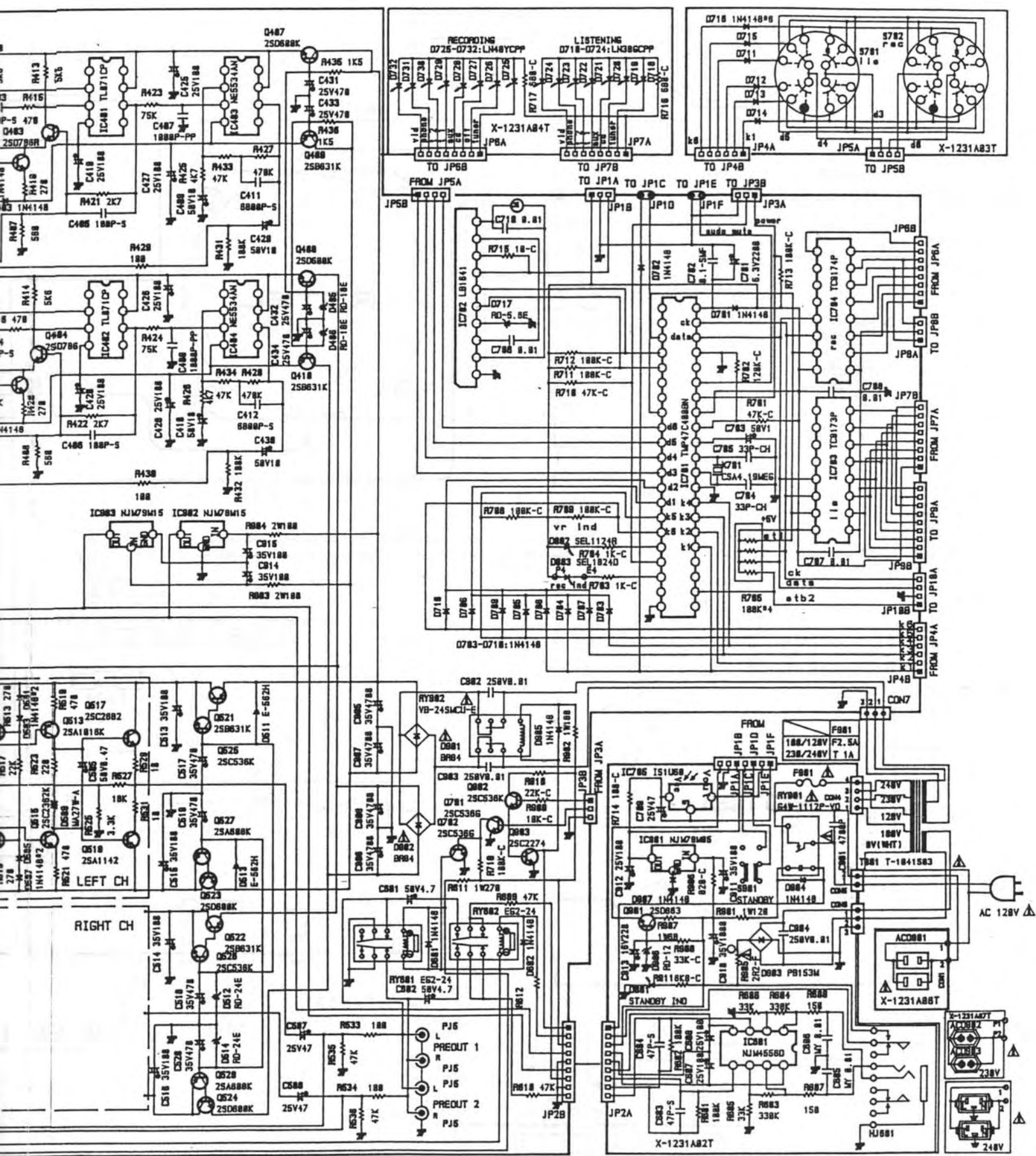


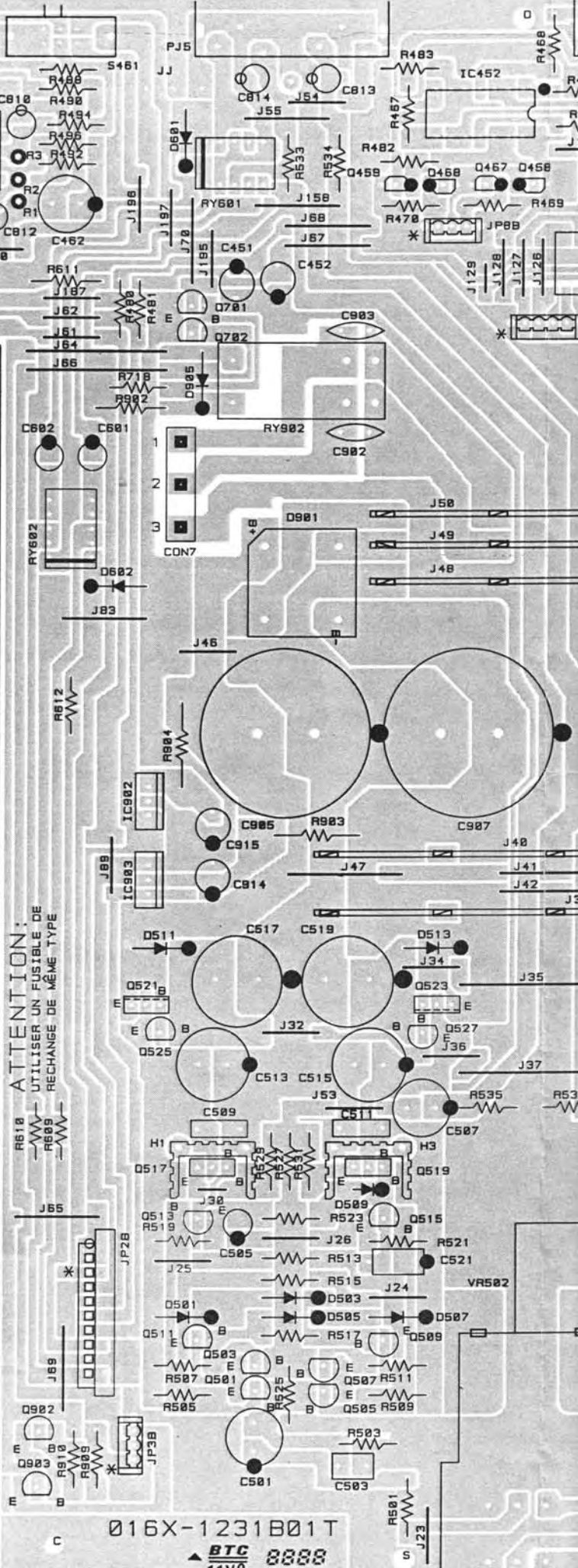
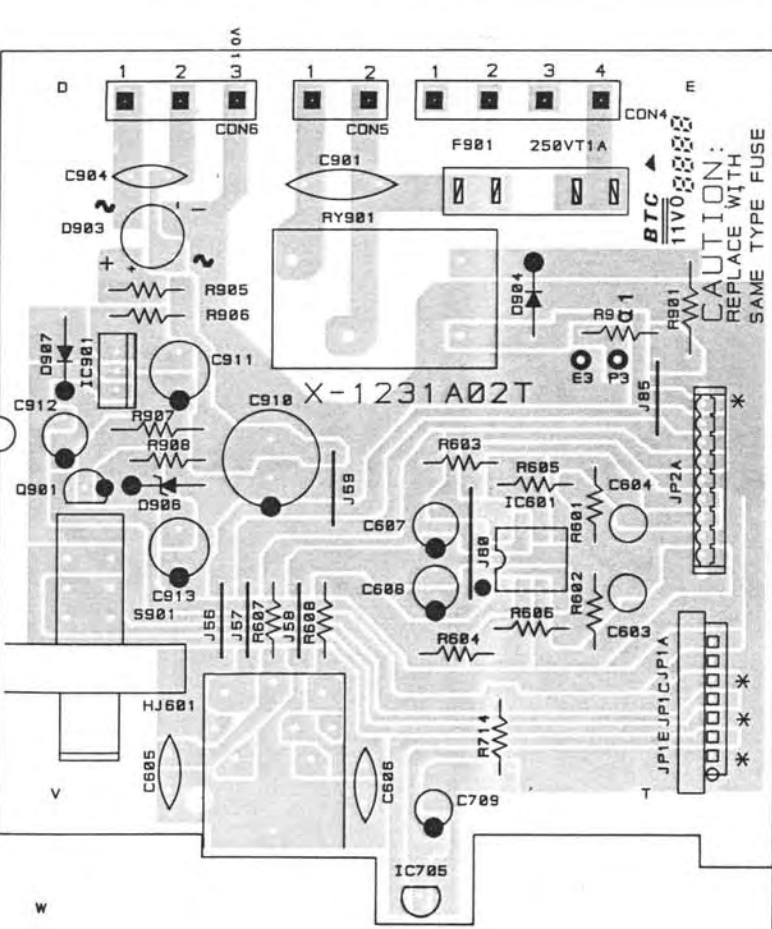
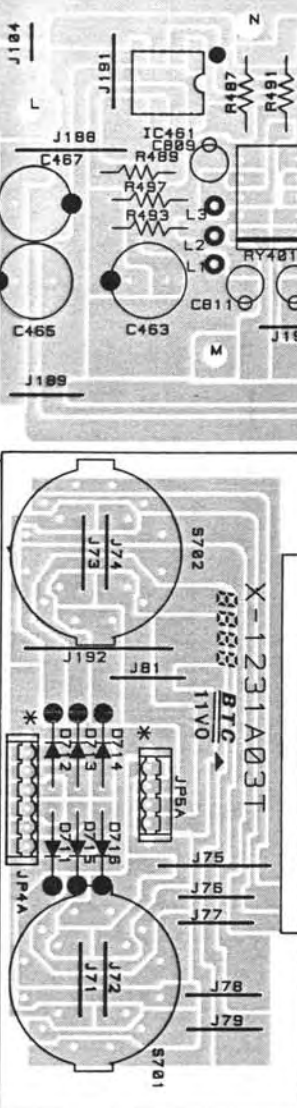
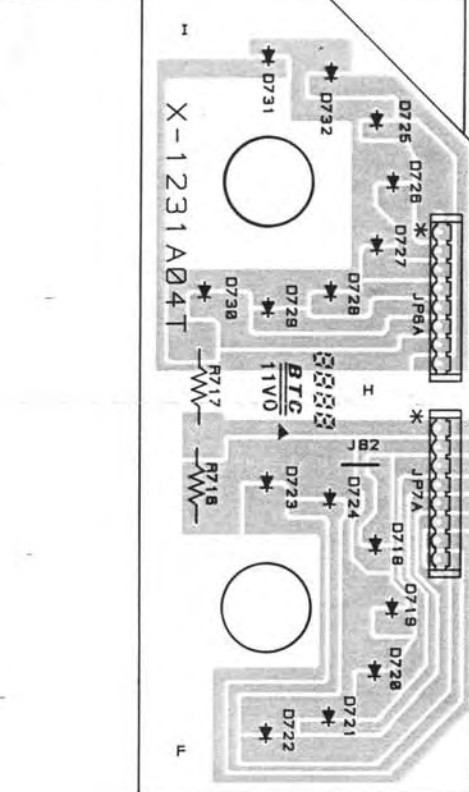
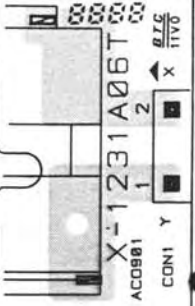
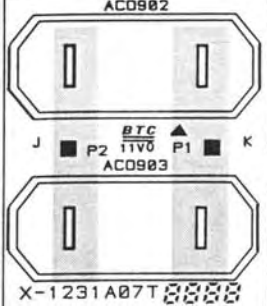
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016X-1231A03T

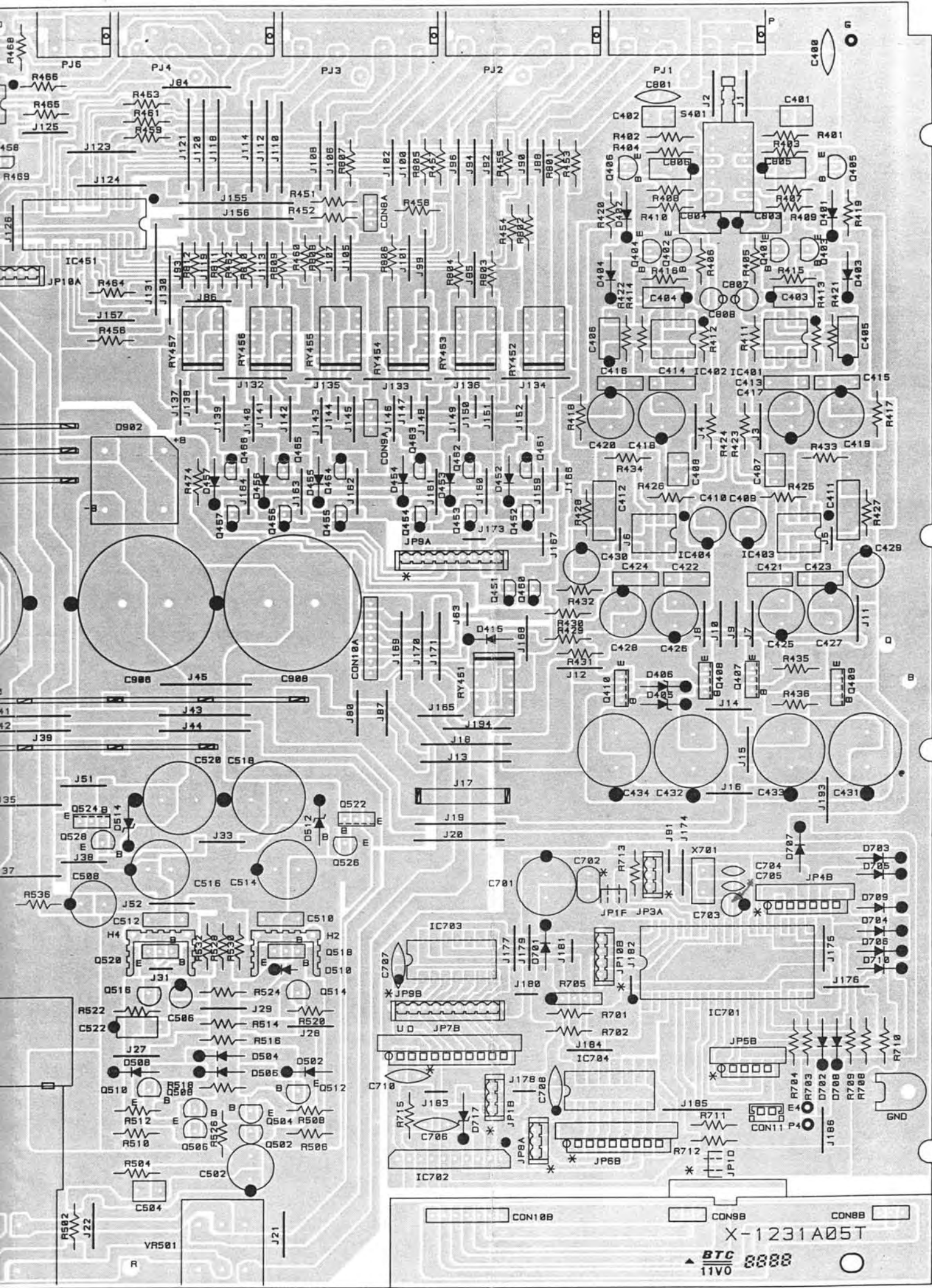




CAUTION:
REPLACE WITH
SAME TYPE FUSE

ATTENTION:
UTILISER UN FUSIBLE DE
RECHARGE DE MEME TYPE

016X-1231B01T
BTC
11V0



* While unit is on, Short legs of C703 to Reset IC701

X-1231A05T

▲ BTC 11V0 8888