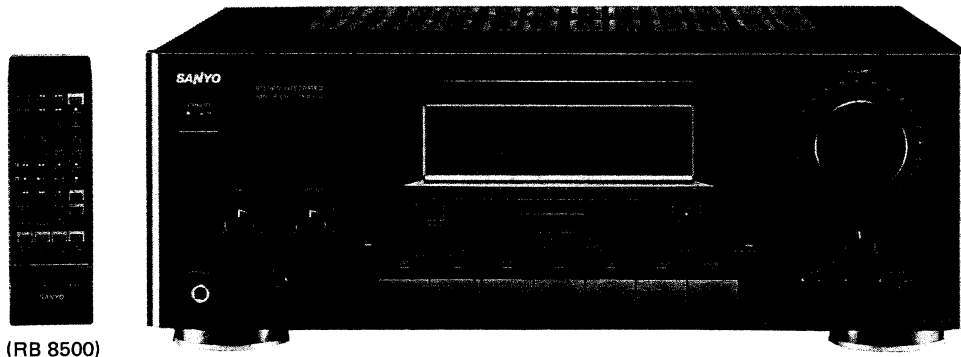


## Service Manual

## Stereo Integrated Amplifier

**JA8300** (EUROPE)  
(SPAIN)  
(WEST GERMANY)



### Specifications

#### Note:

The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

Continuous output power . . . . .	55 W x 2 (at 8 ohms, 0.08% distortion)	Loudness control response (VOLUME: -30 dB) . . . . .	+8 dB/+4 dB (100 Hz/10 kHz)
Input sensitivity and impedance . .	PHONO: 2.5 mV/47 kohms TAPE PLAY/DAT PLAY/AUX/CD/TUNER/VIDEO/PROCESSOR IN: 150 mV/47 kohms	Signal to noise ratio . . . . .	95 dB (CD)
Output level . . . . .	TAPE REC/DAT REC/PROCESSOR OUT: 150 mV	Power requirements . . . . .	AC: 220 V, 50 Hz
Frequency response . . . . .	20 Hz - 35 kHz (CD)	AC outlets (SWITCHED) . . .	50 W max. x 3
Tone control response (VOLUME: -30 dB) . . . . .	BASS: +/- 8 dB (at 100 Hz) TREBLE: +/- 8 dB (at 10 kHz)	Dimensions (W x D x H) . . . .	Approx. 420 x 375 x 155 mm
		RB 8500 REMOTE CONTROLLER	
		Power requirements . . . . .	DC: 3V, "AA/SUM-3/R6" battery x 2
		Dimensions (W x D x H) . . . .	Approx. 60 x 18 x 188 mm

#### PRODUCT CODE No.

129 321 00 (Europe)

129 321 01 (Spain)

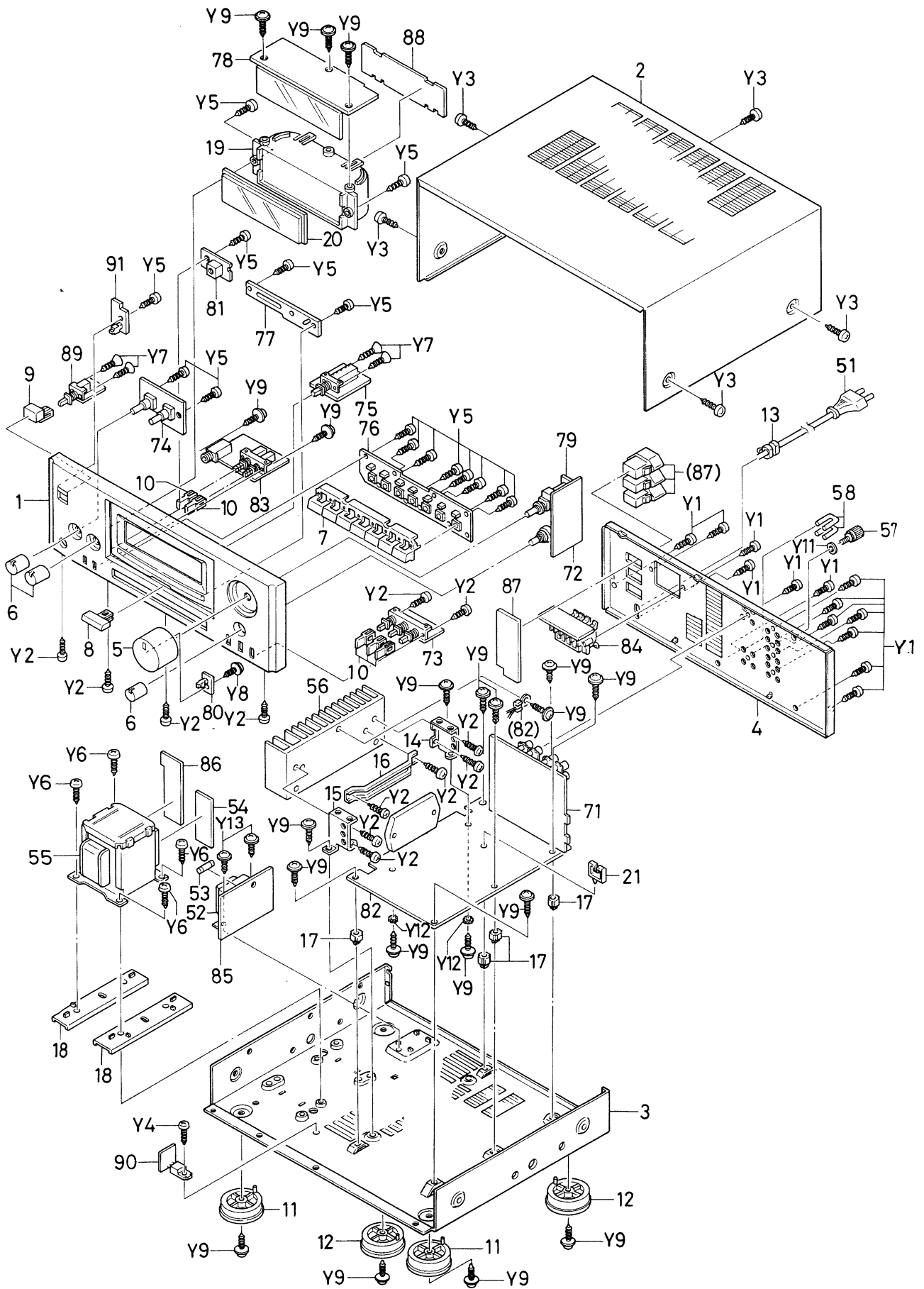
129 321 02 (W. Germany)

Specifications subject to change without notice.

#### Note:

The stand by (power) switch is mounted on the secondary side. The unit is not disconnected from AC-power, even when switched off.

EXPLODED VIEW



## PARTS LIST

### PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  $\Delta$  in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with  $\Delta$ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.

### PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	614 212 1078	INNER CARTON (SPAIN)
	614 212 1085	INNER CARTON (W·GERMANY)
	614 208 3451	INNER CARTON (EUROPE)
	614 207 3667	PAD, LEFT
	614 207 3674	PAD, RIGHT
	614 176 9684	INNER POLYE LAMINA COVER, SET
	614 176 2746	INNER POLYE COVER, ACCESSORY
	614 212 1122	INSTRUCTION MANUAL (SPAIN)
	614 212 1139	INSTRUCTION MANUAL (W·GERMANY)
	614 208 3475	INSTRUCTION MANUAL (EUROPE)
	614 186 2682	NOTICE, FTZ (W·GERMANY)
	149 508 00	REMOCON, RB 8500/SS
	614 036 7270	SOCKET, 4P, 700MM, TUNER
	614 036 7324	SOCKET, 5P, 700MM, DECK
	614 212 2099	SOCKET, 6P, 1000MM, CD
	614 106 4079	STAND, HIGHT CHANGE

### CABINET & CHASSIS

Ref. No.	Part No.	Description
1	614 208 3154	ASSY, PANEL, FRONT (EUROPE·SPAIN)
2	614 213 4115	CABINET ASSY
3	614 207 3353	CABINET, BOTTOM
4	614 212 1214	BACK PANEL (SPAIN)
	614 212 1221	BACK PANEL (W·GERMANY)
	614 208 3512	BACK PANEL (EUROPE)
5	614 207 3438	KNOB, ROTARY, VOLUME
6	614 207 3421	KNOB, ROTARY, BASS·TREBLE·BALANCE
7	614 207 3476	BUTTON, FUNCTION
8	614 207 3469	BUTTON, SOURCE DIRECT
9	614 207 3445	BUTTON, STAND-BY
10	614 207 3452	BUTTON, SPEAKER A/B·LOUDNESS·MODE·MUTING
11	614 210 3968	ASSY, FOOT, FRONT
12	614 210 3975	ASSY, FOOT, REAR
13	$\Delta$ 614 129 1901	FIXER, AC CORD
14	614 114 5211	BRACKET, HEAT SINK, RIGHT
15	614 114 5273	BRACKET, HEAT SINK, LEFT
16	614 114 8410	BRACKET, IC FIXING
17	614 107 2791	BRACKET, PCB STAND
18	614 116 1198	REINFORCEMENT, P.T
19	614 207 3599	REFLECTOR, LCD
20	614 207 3582	FILTER, LCD
21	614 208 3208	SHIELD, LCD
22	614 213 4054	INSULATOR, SP TERMINAL
23	614 129 3509	FIXER, LEAD RETAINER
24	614 129 9181	LUG, LEAD RETAINER

### FIXING PARTS

Ref. No.	Part No.	Description
Y1	412 004 2902	SPECIAL SCREW
Y2	411 021 6405	SCR S-TPG BIN 3X8

Ref. No.	Part No.	Description
Y3	411 021 6603	SCR S-TPG BIN 3X8
Y4	411 027 3101	SCR S-TPG BIN 3X8
Y5	411 021 3503	SCR S-TPG BIN 3X10
Y6	411 001 4209	SCR S-TPG BIN 4X8
Y7	411 022 4608	SCR S-TPG FLT 3X8
Y8	411 024 3807	SCR S-TPG PAN + FLG 2X8
Y9	411 020 9902	SCR S-TPG BRZ + FLG 3X8
Y10	411 105 9704	WASHER Z 3X10X1
Y11	411 008 0402	WASHER OUT TW 3
Y12	411 021 5101	SCR S-TPG BIN 3X4
Y13	411 020 9803	SCR S-TPG BRZ+FLG 3X6

### ELECTRICAL PARTS

Ref. No.	Part No.	Description
51	$\Delta$ 614 023 3100	POWER CORD
or	$\Delta$ 614 203 0493	POWER CORD
52	$\Delta$ 614 208 4595	POWER TRANSFORMER, SUB
53	$\Delta$ 423 005 3508	FUSE, 250V, 1.6A, F901
54	$\Delta$ 614 209 4549	PCB, P.T PRIMARY
55	$\Delta$ 614 208 4601	POWER TRANSFORMER, MAIN
56	614 209 6130	HEAT SINK, FOR IC901
57	614 211 0287	TERMINAL, PHONO GND
58	614 017 4243	PLUG, SHORT BAR

### PRE-AMPLIFIER P.C.BOARD ASSY

Ref. No.	Part No.	Description
71	614 212 8497	ASSY, PCB, PRE-AMP & PIN <RCA> (W·GERMANY)
	614 209 4440	ASSY, PCB, PRE-AMP & PIN <RCA> (EUROPE·SPAIN)
	614 208 4502	JACK, 4P, PHOTO·TAPE·REC
	614 208 4533	JACK, 6P, TAPE·PLAY·DAT·REC/PLAY
	614 208 4519	JACK, 4P, AUX·CD
	614 208 4519	JACK, 4P, TUNER·VIDEO
	614 208 4519	JACK, 4P, PROCESSOR-IN/OUT
	614 016 8303	PLUG, 11P, POWER-AMP
IC920	409 109 5105	IC LC7821
IC922	409 018 4503	IC LA6458DS
IC923	409 018 4503	IC LA6458DS
IC925	409 018 4503	IC LA6458DS
Q702	405 022 5604	TR 2SD1468-S
Q802	405 022 5604	TR 2SD1468-S
C725	403 086 2607	NP-ELECT 1U M 50V
C825	403 086 2607	NP-ELECT 1U M 50V

### VOLUME·BALANCE VR P.C.BOARD ASSY

Ref. No.	Part No.	Description
72	$\Delta$ 614 209 1180	ASSY, PCB, MAIN VR
	614 208 4618	VR, ROTARY, VOLUME
	614 208 4649	VR, ROTARY, BALANCE
	614 035 4911	SOCKET, 2P, MOTOR

**PARTS LIST**

Ref. No.	Part No.	Description
IC924 Q703 Q803 D900 D961 C962	614 020 1222	SOCKET, 3P, POWER-AMP
	614 035 9275	SOCKET, 3P, W/LEAD, POWER-AMP
	614 020 1260	SOCKET, 7P, DIRECT SW
	614 035 4966	SOCKET, 7P, POWER-AMP
	409 114 4803	IC LBI641
	405 022 5604	TR 2SD1468-S
	405 022 5604	TR 2SD1468-S
	407 050 3706	ZENER DIODE GZA4.7Y
	407 007 9904	DIODE GMA01
	403 057 3800	POLYESTER 0.1U M 50V

**MUTING·LOUDNESS·MODE SWITCH P.C.B ASSY**

Ref. No.	Part No.	Description
73	614 209 1197	ASSY, PCB, 3-SW
	614 208 4670	SWITCH, PUSH, MUTING·LOUDNESS·MODE
C730 C731 C830 C831	614 035 4911	SOCKET, 2P, POWER-AMP (MUTE)
	614 020 1222	SOCKET, 3P, POWER-AMP
	614 035 9602	SOCKET, 3P, W/LEAD, POWER-AMP
	614 020 1260	SOCKET, 7P, DIRECT SW
	614 020 1260	SOCKET, 7P, TONE VR
	403 063 0008	POLYESTER 6800P K 50V
	403 060 8205	POLYESTER 0.033U K 50V
	403 063 0008	POLYESTER 6800P K 50V
	403 060 8205	POLYESTER 0.033U K 50V

**BASS·TREBLE VR P.C.BOARD ASSY**

Ref. No.	Part No.	Description
74 C740 C741 C742 C743 C840 C841 C842 C843	614 209 1203	ASSY, PCB, TONE VR
	614 208 4625	VR, ROTARY, BASS
	614 208 4632	VR, ROTARY, TREBLE
	614 020 1260	SOCKET, 7P, 3-SW
	403 058 3225	POLYESTER 0.015U K 50V
	403 002 3315	MT-COMPO 0.1U J 50V
	403 058 3225	POLYESTER 0.015U K 50V
	403 062 0306	POLYESTER 0.047U K 50V
	403 058 3225	POLYESTER 0.015U K 50V
	403 002 3315	MT-COMPO 0.1U J 50V
	403 058 3225	POLYESTER 0.015U K 50V
403 062 0306	POLYESTER 0.047U K 50V	

**SOURCE DIRECT SWITCH P.C.BOARD ASSY**

Ref. No.	Part No.	Description
75	614 210 1537	ASSY, PCB, DIRECT SW
	614 211 0317	SWITCH, PUSH, SOURCE DIRECT
	614 035 4911	SOCKET, 2P, MUTING LED
	614 017 4267	PLUG, 3P, POWER-AMP
	614 020 1260	SOCKET, 7P, VOLUME
	614 020 1260	SOCKET, 7P, 3-SW

**FUNCTION SWITCH & LED P.C.BOARD ASSY**

Ref. No.	Part No.	Description
76 Q961 Q962	614 209 1227	ASSY, PCB FUNCTION SW
	614 018 9056	SWITCH, DAT·CD·AUX·TAPE·TUNER·VIDEO·PHONO
	614 119 9399	SPACER, LED STAND (7 USED)
	614 035 4959	SOCKET, 6P, POWER-AMP
	614 035 4980	SOCKET, 9P, POWER-AMP
	614 036 3852	SOCKET, 9P, W/LEAD, POWER-AMP
	405 004 5103	TR 2SA608-G-SPA
	405 004 5103	TR 2SA608-G-SPA

Ref. No.	Part No.	Description
Q963	405 004 5103	TR 2SA608-G-SPA
Q964	405 004 5103	TR 2SA608-G-SPA
Q965	405 004 5103	TR 2SA608-G-SPA
Q966	405 004 5103	TR 2SA608-G-SPA
Q967	405 004 5103	TR 2SA608-G-SPA
D971	407 038 4404	LED SLP-265B-50-B, PHONO
D972	407 038 4404	LED SLP-265B-50-B, VIDEO
D973	407 038 4404	LED SLP-265B-50-B, TUNER
D974	407 038 4404	LED SLP-265B-50-B, TAPE
D975	407 038 4404	LED SLP-265B-50-B, AUX
D976	407 038 4404	LED SLP-265B-50-B, CD
D977	407 038 4404	LED SLP-265B-50-B, DAT

**MUTING LED & DIRECT SOURCE LAMP PCB ASSY**

Ref. No.	Part No.	Description
77	614 209 4457	ASSY, PCB, MUTING LED
	408 008 9009	LED SLR-56VC70F130-M, MUTING-20DB
or	408 008 9108	LED SLR-56VC70F130-N, MUTING-20DB
or	408 008 9207	LED SLR-56VC70F130-P, MUTING-20DB
	614 045 9630	LAMP, DIRECT SOURCE
	614 035 4911	SOCKET, 2P, REGULATOR
	614 035 4911	SOCKET, 2P, DIRECT SW
	614 035 4928	SOCKET, 3P, POWER-AMP

**LIQUID CRYSTAL DISPLAY P.C.BOARD ASSY**

Ref. No.	Part No.	Description
78 IC970 D970	614 211 2656	ASSY, PCB, LCD
	614 209 5980	LCD
	614 035 4959	SOCKET, 6P, POWER-AMP
	409 088 6209	IC LC7582
	407 053 6704	ZENER DIODE MTZ5.6B

**MOTOR P.C.BOARD ASSY**

Ref. No.	Part No.	Description
79 L901 C963	614 209 1272	ASSY, PCB, VOLUME MOTOR
	614 035 4911	SOCKET, 2P, VOLUME
	614 027 6206	CHOKE COIL
	403 057 3503	POLYESTER 0.1U K 50V

**VOLUME LED P.C.BOARD ASSY**

Ref. No.	Part No.	Description
80 D929	614 209 1289	ASSY, PCB, VOLUME LED
	614 119 9399	SPACER, LED STAND
	407 027 7904	LED SLP-154B-50, VOLUME ND.

**INFRARED RAYS P.C.BOARD ASSY**

Ref. No.	Part No.	Description
81	614 209 1296	ASSY, PCB, IR
	614 208 1198	OPTO CONNECTOR, IR RECEIE
	614 035 4928	SOCKET, 3P, POWER-AMP



**PARTS LIST**

Ref. No.	Part No.	Description
D910 D911 D912 D913 D916 C901 or or C902 C990 R908	△ 614 211 7606	RELAY,POWER
	614 035 4911	SOCKET, 2P, POWER-AMP
	614 035 4928	SOCKET, 3P, STAND-BY SW
	△ 407 004 9105	DIODE DSF10C
	△ 407 004 9105	DIODE DSF10C
	△ 407 004 9105	DIODE DSF10C
	△ 407 004 9105	DIODE DSF10C
	407 005 4505	DIODE DS442X
	△ 404 000 1607	CERAMIC 0.01U F 400V
	△ 404 033 3302	CERAMIC 0.01U M -
	△ 404 033 3401	CERAMIC 0.01U Z -
403 069 8404	CERAMIC 0.01U Z 50V	
403 047 5005	ELECT 470U M 25V	
401 059 6706	OXIDE-MT 180 JA 1W	

Ref. No.	Part No.	Description
D990	614 119 9399 407 037 3101	SPACER, LED STAND LED SLP-165B-50-B, STAND-BY

**P.T SECONDARY P.C.BOARD ASSY**

Ref. No.	Part No.	Description
86	△ 614 209 4488	ASSY, PCB, P.T SECONDARY
R901 R902	614 020 1246	SOCKET, 5P, POWER-AMP
	△ 401 057 4100	OXIDE-MT 0.33 JA 1W
	△ 401 057 4100	OXIDE-MT 0.33 JA 1W

**AC OUTLET P.C.BOARD ASSY**

Ref. No.	Part No.	Description
87	△ 614 209 1357 △ 614 035 4645	ASSY, PCB, AC OUTLET SOCKET, AC OUTLET

**LCD LAMP P.C.BOARD ASSY**

Ref. No.	Part No.	Description
88 R900	614 209 1364	ASSY, PCB, LCD LAMP
	614 045 9647	LAMP, 12V 100MA, LCD
	614 035 4911	SOCKET, 2P, REGULATOR
	401 061 0709	OXIDE-MT 3.9 JA 1W

**STAND-BY SWITCH P.C.BOARD ASSY**

Ref. No.	Part No.	Description
89 Q980	614 209 1371	ASSY, PCB, STAND-BY SW
	614 019 0663	SWITCH, STAND-BY
	614 035 4911	SOCKET, 2P, STAND-BY LED
	614 035 4928	SOCKET, 3P, SUB P.T
	614 035 4935	SOCKET, 4P, POWER-AMP
	405 018 0101	TR 2SC3331-T

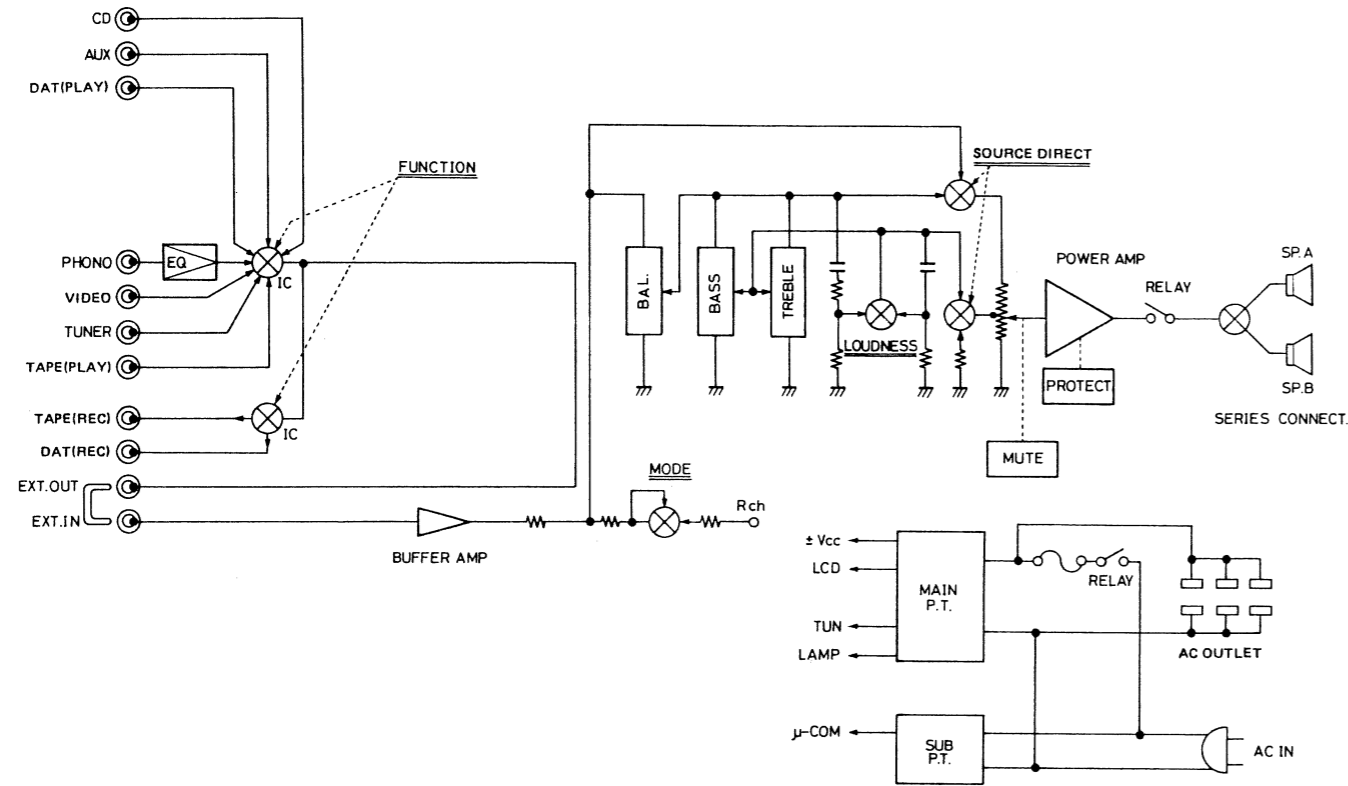
**REGULATOR P.C.BOARD ASSY**

Ref. No.	Part No.	Description
90 IC907	614 212 1337	ASSY, PCB, REGULATOR
	614 020 6548	SOCKET, 2P, LCD LAMP· POWER-AMP
	614 035 5932	SOCKET, 2P, DIRECT LAMP
	△ 409 057 8203	IC UPC7912H

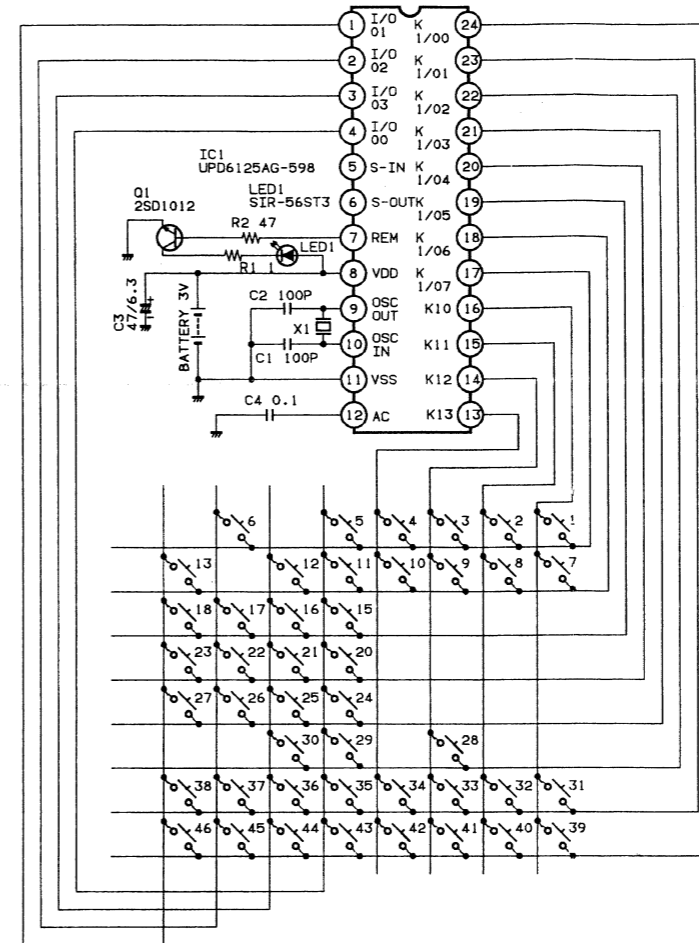
**STAND-BY LED P.C.BOARD ASSY**

Ref. No.	Part No.	Description
91	614 212 1344 614 035 4911	ASSY, PCB, STAND-BY LED SOCKET, 2P, STAND-BY SW

### BLOCK DIAGRAM

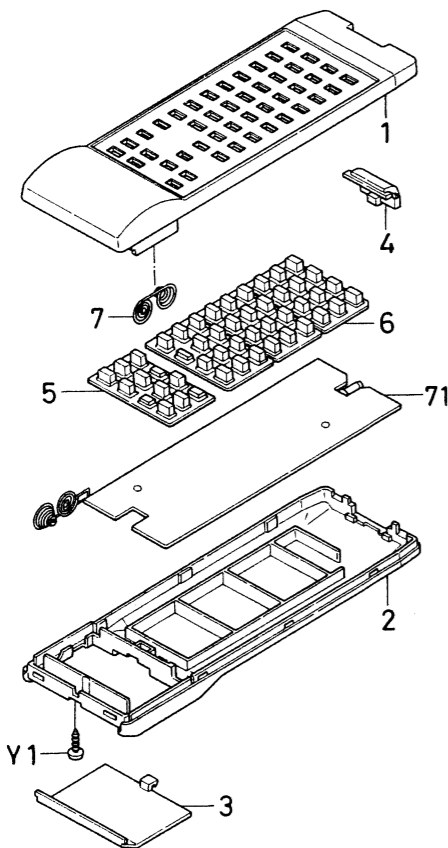


### SCHEMATIC DIAGRAM (REMOTE CONTROLLER)



KEY NO	FUNCTION	KEY NO	FUNCTION
1	VIDEO	24	◀ (TAPE A)
2	DIGI-2 AUX	25	□ (TAPE A)
3	PHONO	26	▷ (TAPE A)
4	DAT	27	▷▷ (TAPE A)
5	BAND	28	CLEAR (CD)
6	TUNER	29	0 (CD)
7	POWER	30	0 (CD)
8	VOL+	31	MEMO (CD)
9	VOL-	32	▷/00 (CD)
10	MUTING	33	▷◁ (CD)
11	TUN+	34	KK (CD)
12	TUN-	35	5 (CD)
13	PRESET	36	6 (CD)
14		37	7 (CD)
15	▷▷ (TAPE B)	38	8 (CD)
16	◀◀ (TAPE B)	39	REPEAT (CD)
17	◻ REC-(TAPE B)	40	◀◀ (CD)
18	◀ (TAPE B)	41	▷▷ (CD)
19		42	□ (CD)
20	◀◀ (TAPE A)	43	1 (CD)
21	◻ (TAPE B)	44	2 (CD)
22	-MUTE (TAPE B)	45	3 (CD)
23	▷ (TAPE B)	46	4 (CD)

### EXPLODED VIEW & PARTS LIST (REMOTE CONTROLLER)



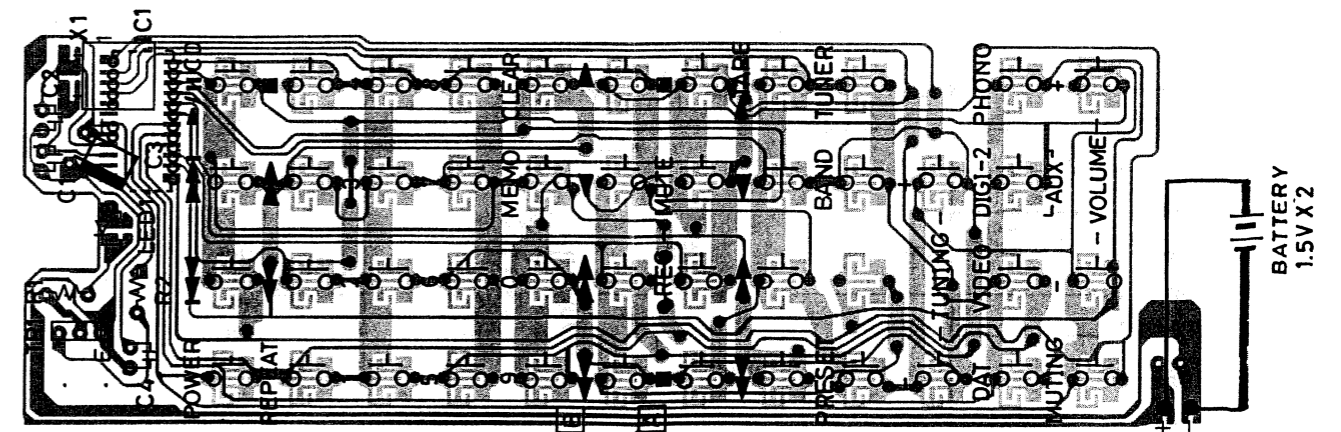
#### CABINET & CHASSIS

Ref. No.	Part No.	Description
1	614 213 5334	ASSY, CABINET, TOP
2	614 213 5358	CABINET, BOTTOM
3	614 213 5365	LID, BATTERY
4	614 213 5389	WINDOW, IR TRANSMIT
5	614 213 5402	BUTTON, SMALL
6	614 213 5396	BUTTON, LARGE
7	614 213 5631	SPRING, BATTERY TERMINAL (+)
Y1	411 022 7906	SCR TPG PAN 2X6

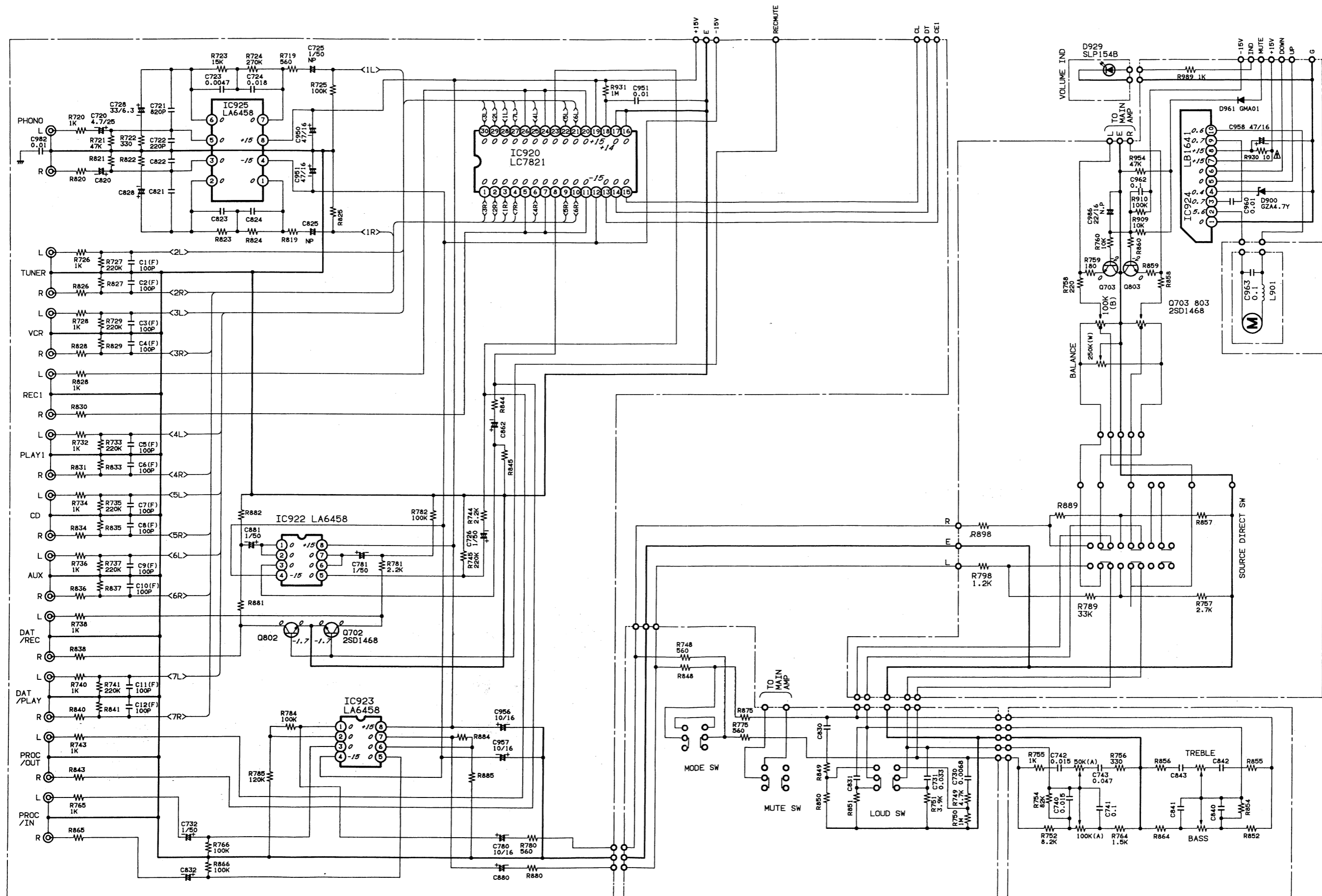
#### REMOCON (TRANSMIT) P.C.BOARD ASSY

Ref. No.	Part No.	Description
71	614 213 5303	ASSY, PCB, REMOCON
	614 213 5419	SPRING, COIL, BATTERY TERMINAL (+)
	614 213 5426	SPRING, COIL, BATTERY TERMINAL (-)
X1	614 213 5327	SERAMIC RESONATOR, CSB455E
IC1	410 070 4608	IC UPD6125AG-598
Q1	405 021 0907	TR 2SD1012H-SPA
LED1	408 010 4207	LED SIR-56ST3

### WIRING DIAGRAM (REMOTE CONTROLLER)



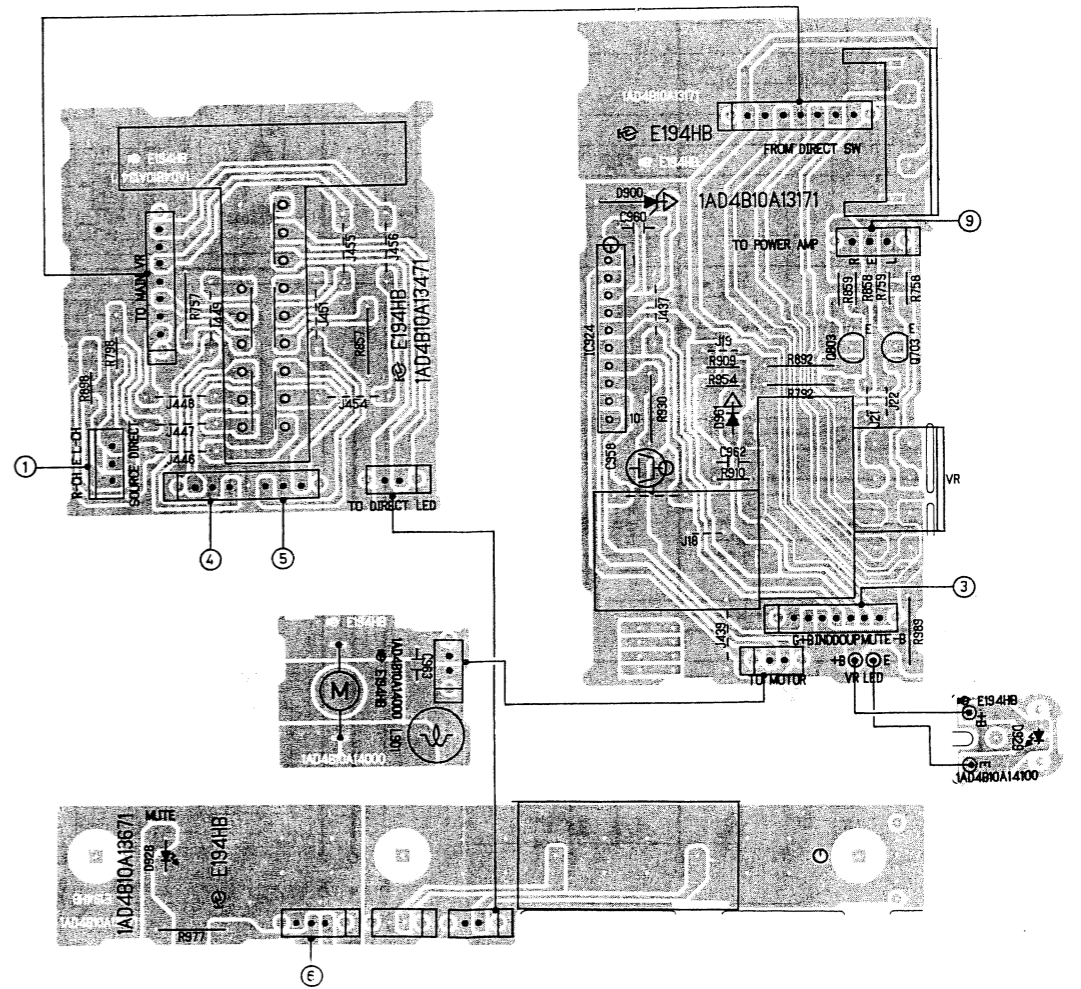
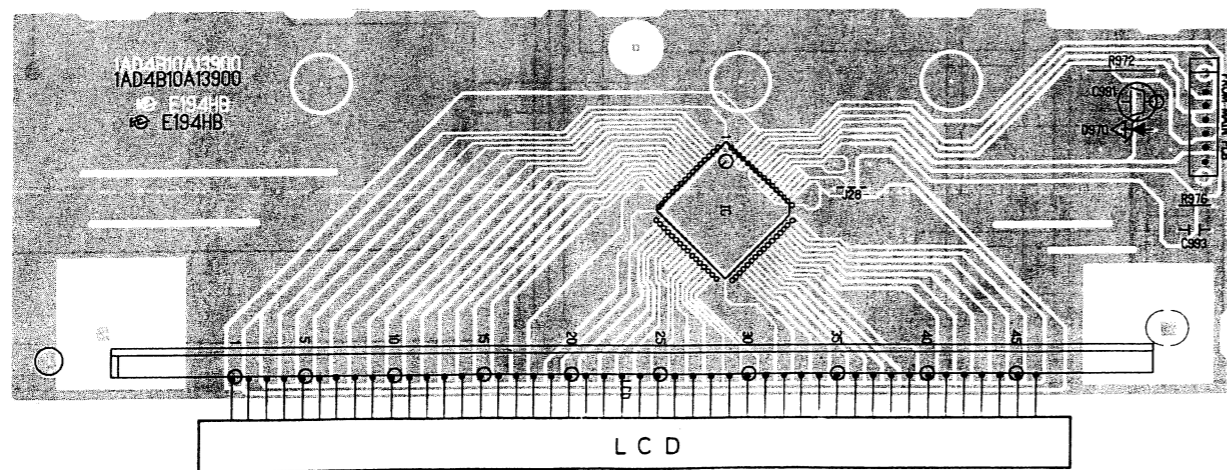
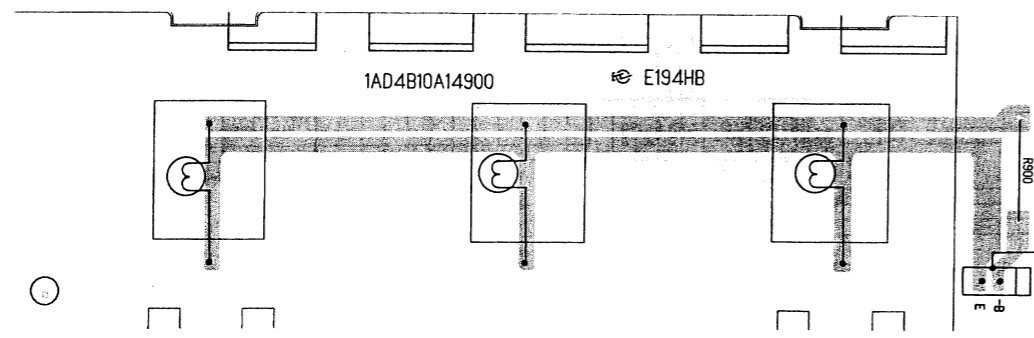
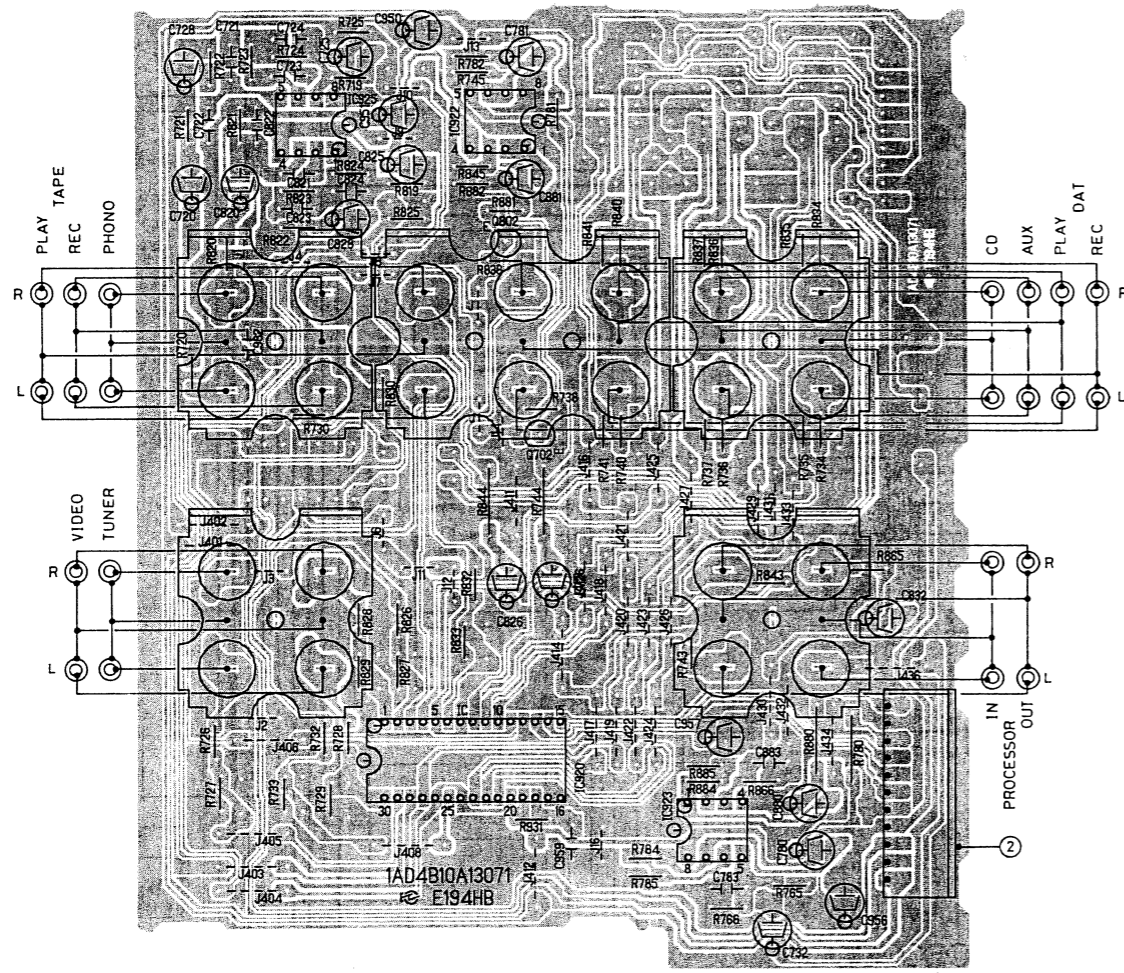
SCHEMATIC DIAGRAM (PRE-AMPLIFIER)



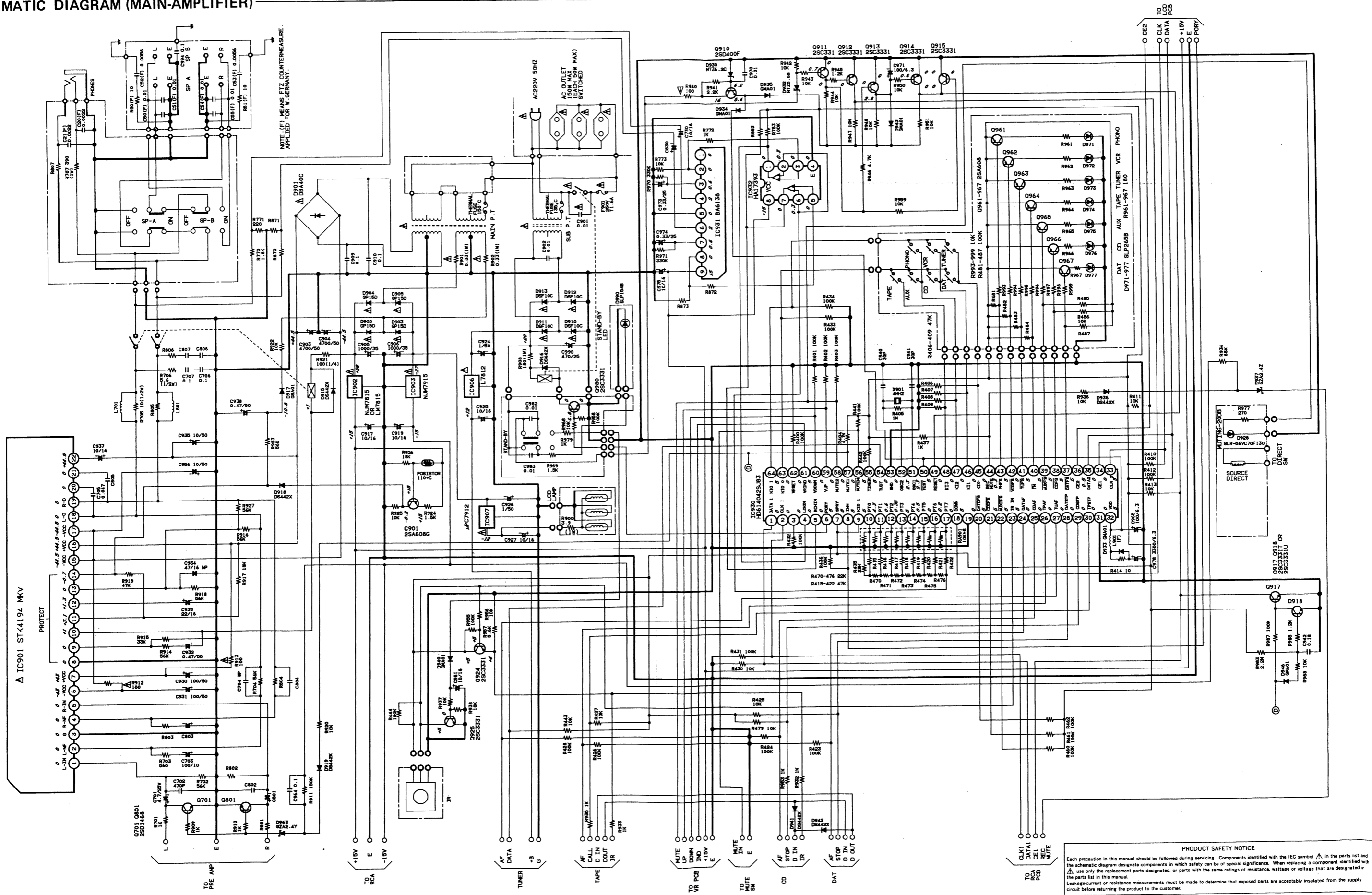
NOTE: (F) MEANS FTZ COUNTERMEASURE. APPLIED FOR W.GERMANY.



WIRING DIAGRAM



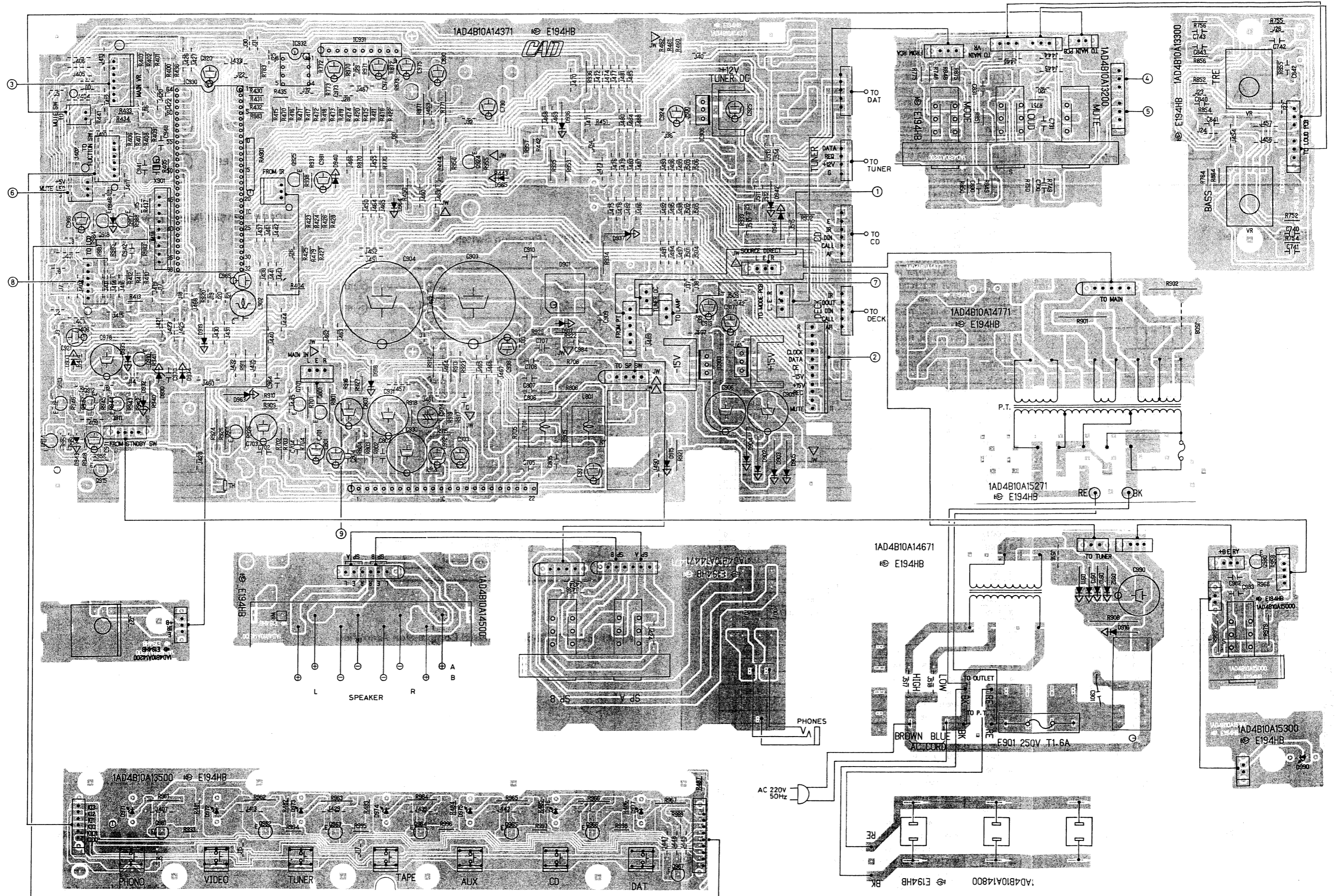
SCHEMATIC DIAGRAM (MAIN-AMPLIFIER)



NOTE: (F) MEANS FTZ. COUNTERMEASURE APPLIED FOR W. GERMANY.

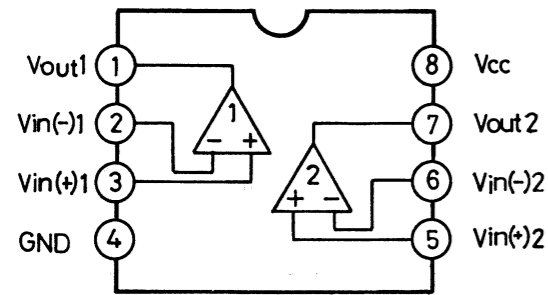
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WIRING DIAGRAM

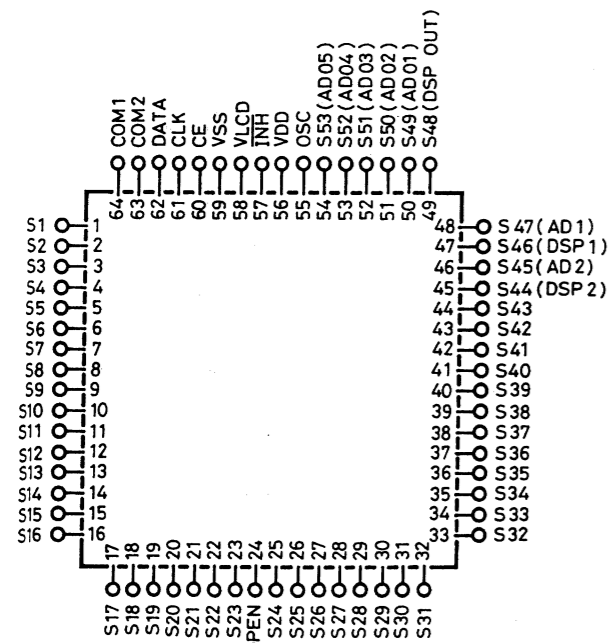
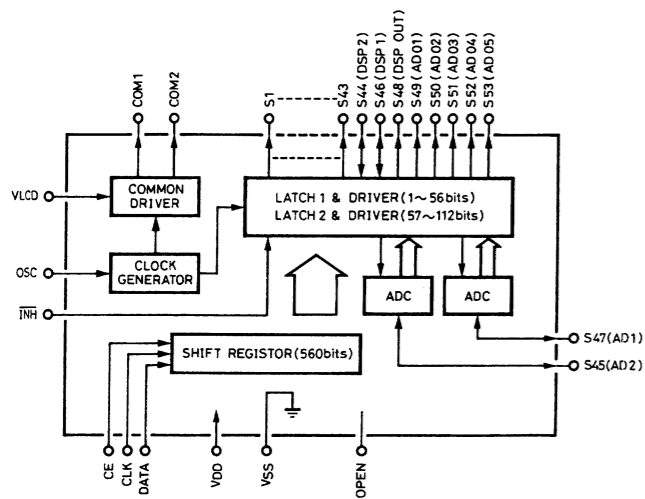


IC BLOCK DIAGRAM

IC932 HA17393 (Dual Operational Amplifier)



IC970 LC7582 (LCD Driver)



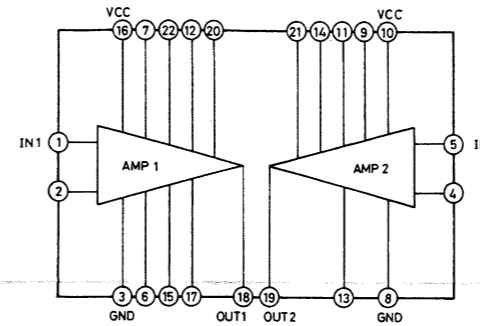
IC930 HD614042SJ83 (Micro Processor)

Pin Name & Functions

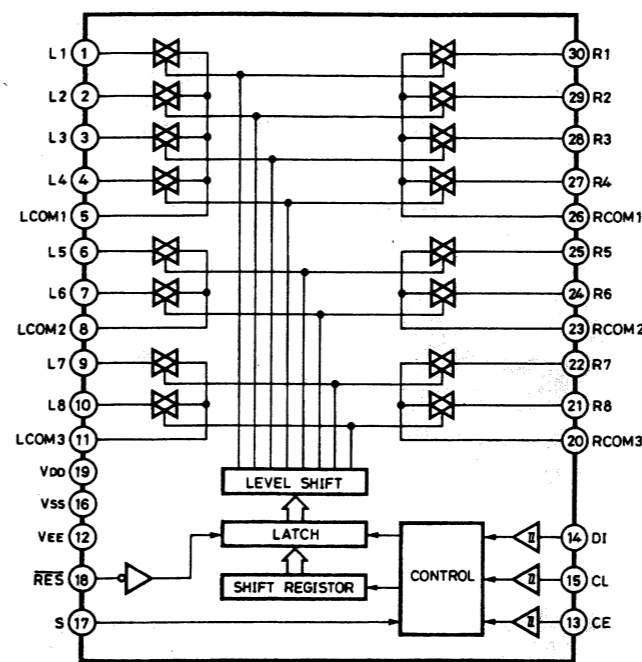
No	NAME	FUNCTION	ACTIVE	I/O
01	DATA1	DATA FOR LC7821(FUNCTION IC)	HIGH	0
02	CLK1	CLOCK FOR LC7821(FUNCTION IC)	HIGH	0
03	INIDSP	SET INITIAL DISPLY FOR LCD POWER ON	LOW	1
04	LCHIN	COMPARATOR INPUT OF AUDIO SIGNAL(L-CH)		1
05	RCHIN	COMPARATOR INPUT OF AUDIO SIGNAL(R-CH)		1
06	PORY	OUTPUT FOR POWER RELAY ON/OFF	HIGH	0
07	SPRY	OUTPUT FOR SPEAKER RELAY ON/OFF	HIGH	0
08	INH	INHIBIT FOR LC7582(LCD IC)	LOW	0
09	OPEN	CONNECT VCC		
10	PT0	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
11	PT1	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
12	PT2	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
13	PT3	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
14	PT4	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
15	PT5	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
16	PT6	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
17	PT7	PATTERN OUTPUT FOR A/D CONVECTION	HIGH	0
18	DPWN	INPUT OF ELECTRICITY FAILURE DETECTION	LOW	1
19	Vdisp	CONNECT GND		
20	DATDPS	SET DIGITAL FUNCTION(DAT)	LOW	0
21	CDDFS	SET DIGITAL FUNCTION(CD)	LOW	0
22	AUXDPS	SET DIGITAL FUNCTION(AUX)	LOW	0
23	IRIN	INPUT FOR REMOCON & SET INITIAL STAND-BY	L&H	1
24	DATAF	INPUT FOR AUTO FUNCTION SIGNAL FROM DAT	HIGH	1
25	CDAF	INPUT FOR AUTO FUNCTION SIGNAL FROM CD	HIGH	1
26	TPAF	INPUT FOR AUTO FUNCTION SIGNAL FROM DECK	HIGH	1
27	TUAF	INPUT FOR AUTO FUNCTION SIGNAL FROM TUNER	HIGH	1
28	DATSTP	SEND START/STOP PULSE TO DAT	HIGH	0
29	CDSTP	SEND START/STOP PULSE TO CD	HIGH	0
30	TPSTP	SEND START/STOP PULSE TO DECK	HIGH	0
31	OPEN	CONNECT GND		
32	VCC	POWER SOURCE		
33	CLK2	CLOCK FOR LC7852(LCD IC)	HIGH	0
34	CE1	CE FOR LC7821(FUNCTION IC)	HIGH	0
35	DATA2	DATA FOR LC7582(LCD IC)	HIGH	0
36	CE2	CE FOR LC7582(LCD IC)	HIGH	0
37	DATFS	LED DRIVER OF FUNCTION SET DISPLAY(DAT)	LOW	0
38	CDFS	LED DRIVER OF FUNCTION SET DISPLAY(CD)	LOW	0
39	AUXFS	LED DRIVER OF FUNCTION SET DISPLAY(AUX)	LOW	0
40	TM	LED DRIVER OF TAPE MONITOR SET DISPLAY(DECK)	LOW	0
41	TUFS	LED DRIVER OF FUNCTION SET DISPLAY(TUNER)	LOW	0
42	VCRFS	LED DRIVER OF FUNCTION SET DISPLAY(VCR)	LOW	0
43	PHFS	LED DRIVER OF FUNCTION SET DISPLAY(TURN TABLE)	LOW	0
44	DATREC	REC MUTE FOR DAT FUNCTION	HIGH	0
45	K10	INPUT FROM KEY MATRIX	HIGH	1
46	K11	INPUT FROM KEY MATRIX	HIGH	1
47	K12	INPUT FROM KEY MATRIX	HIGH	1
48	K13	INPUT FROM KEY MATRIX	HIGH	1
49	RESET	RESET	HIGH	1
50	TEST	CONNECT VCC		1
51	OSC1	OSCILLATOR		1
52	OSC2	OSCILLATOR		0
53	GND	GND		
54	TUDT	SEND DATA TO TUNER	HIGH	0
55	TIMER	POWER ON/OFF CONTROL FROM TUNER TIMER(OFF-LOW)		1
56	MUTEIN	SET -20dB MUTING		1
57	MUTE1	-∞dB MUTING	HIGH	0
58	MUTE2	-20dB MUTING	HIGH	0
59	VUP	UP SIGNAL TO VOLUME	HIGH	0
60	VDOWN	DOWN SIGNAL TO VOLUME	HIGH	0
61	VRIND	POWER ON LED DRIVER(VOLUME OPERATION = FLASHING)	HIGH	0
62	TPSTP	INITIAL SET FOR VOLUME OPERATION	HIGH	1
63	K100	OUTPUT TO KEY MATRIX	LOW	0
64	K101	OUTPUT TO KEY MATRIX	LOW	0

IC BLOCK DIAGRAM

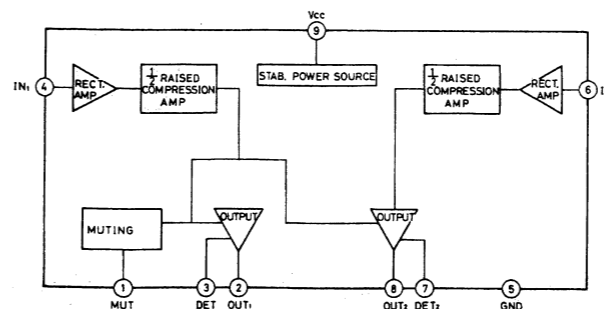
IC901 STK4194MK5 (2-ch AF Power Amplifier)



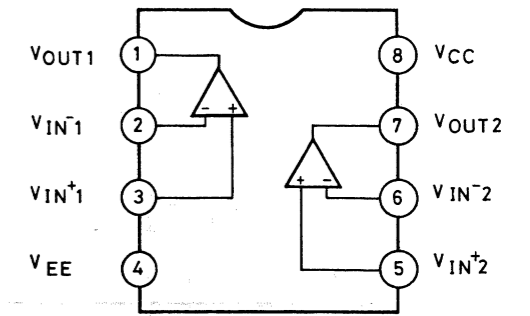
IC920 LC7821 (Function Switch)



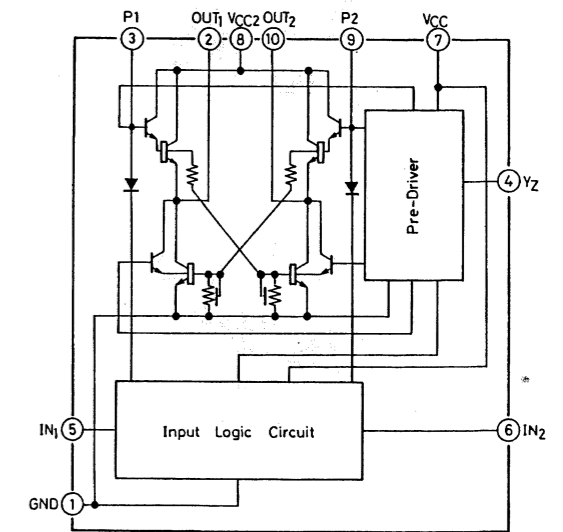
IC931 BA6138 (2-ch 1/2 Raised Compression Amplifier)



IC922, 923, 925 LA6458DS (Dual Operational Amplifier)



IC924 LB1641 (Motor Driver)



Input	Output	Action
IN1	OUT1	0
IN2	OUT2	0
0	0	0
1	0	1
0	1	0
1	1	0

Rechnungs-Nr.: 402665 / 008  
 Art.-Nr.: S M JA-B300  
 S M  
 Lagerort: KSO 11 AO 2  
 Menge : 1

**SANYO**

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