



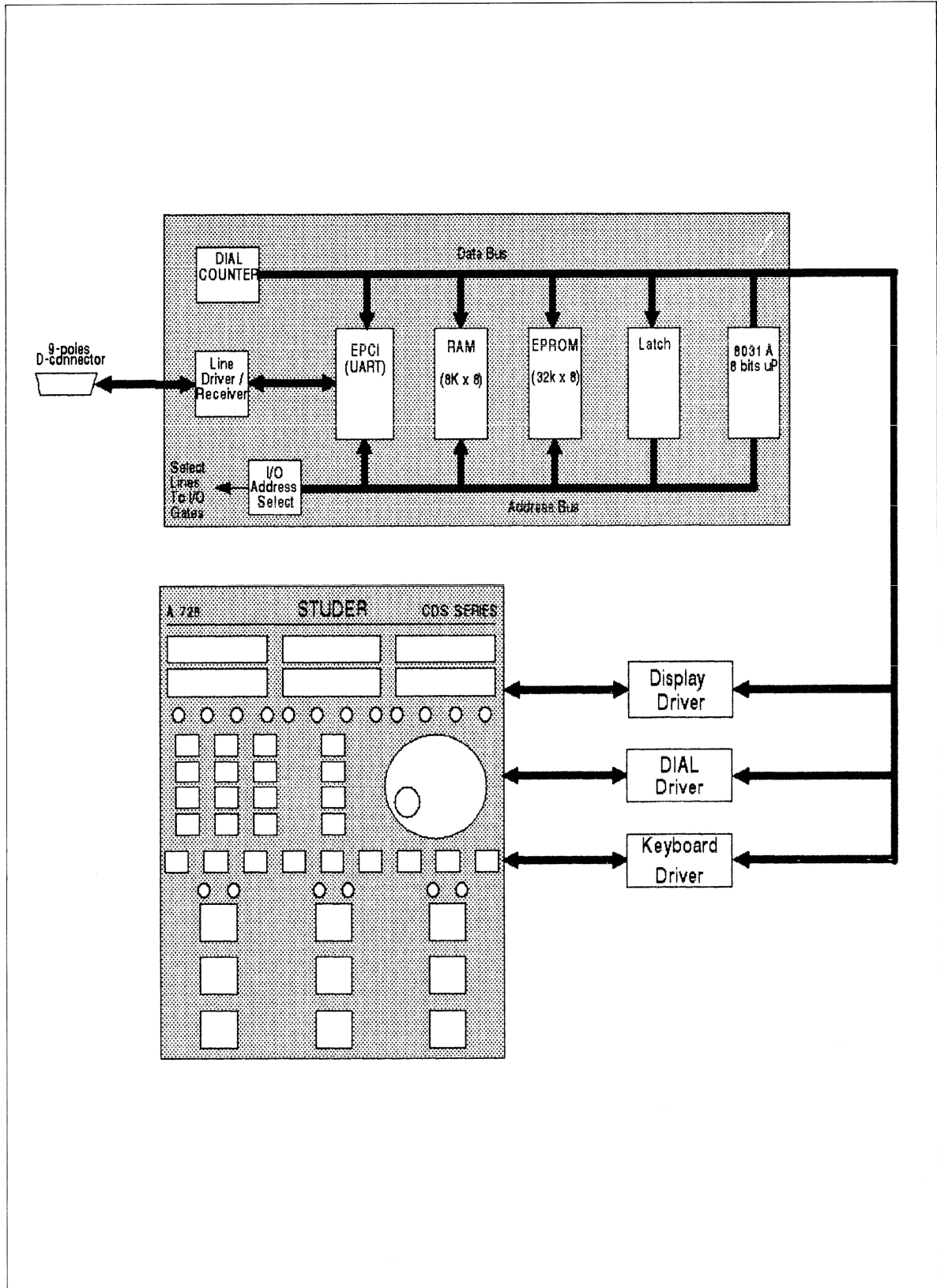
STUDER
professional audio equipment

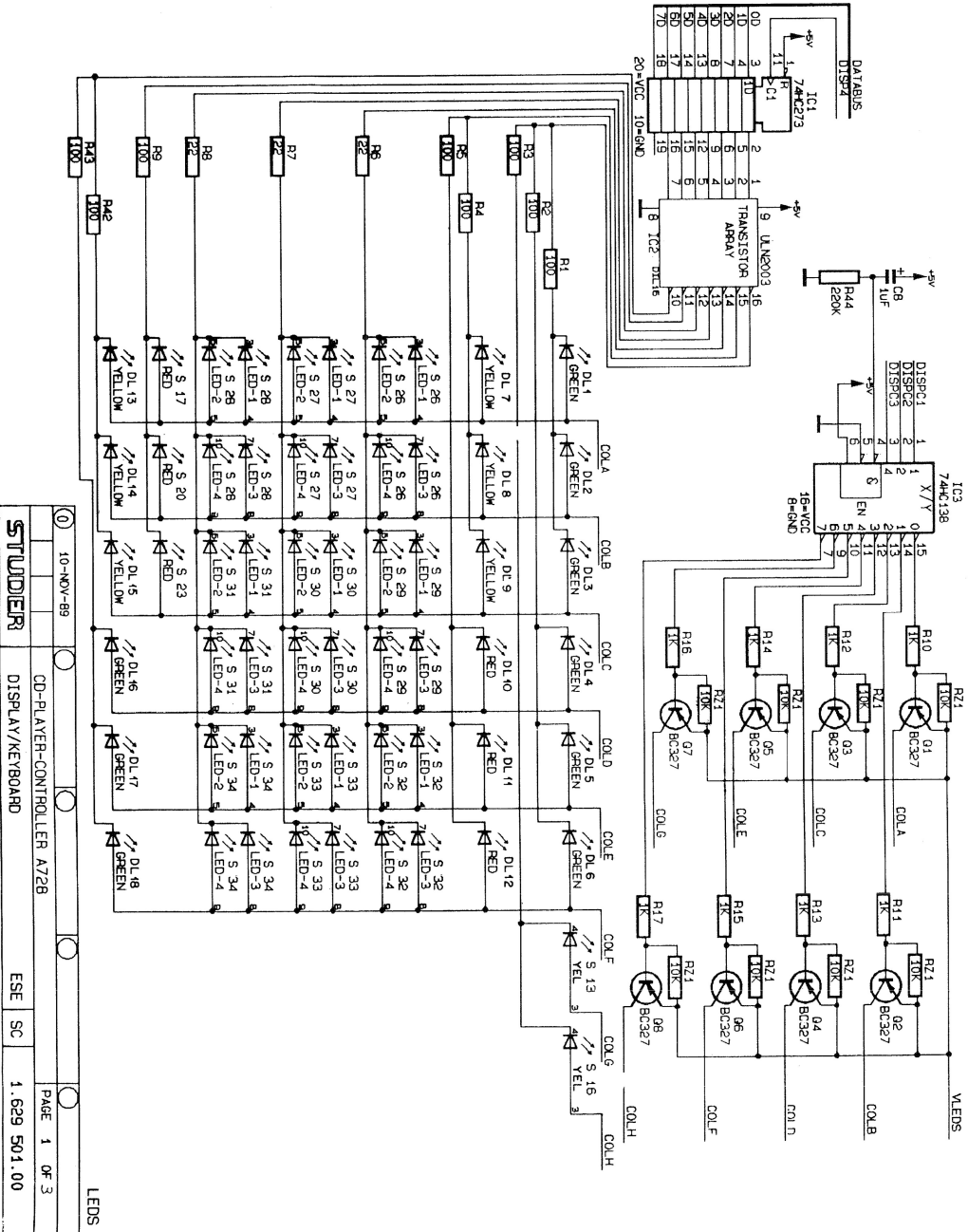
Studer A728

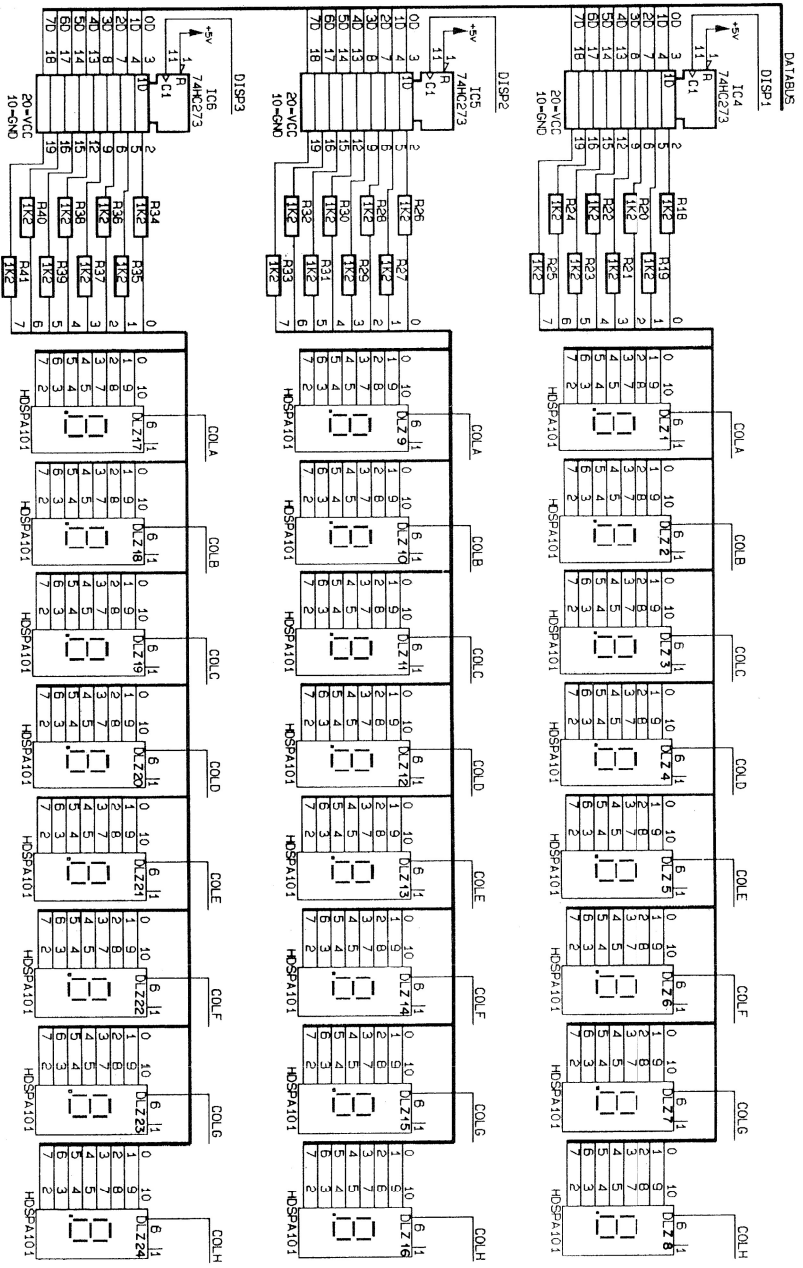
Serial Remote Control

**Operating and Service Instructions
Bedienungs- und Service Anleitung**

BLOCKDIAGRAM A728

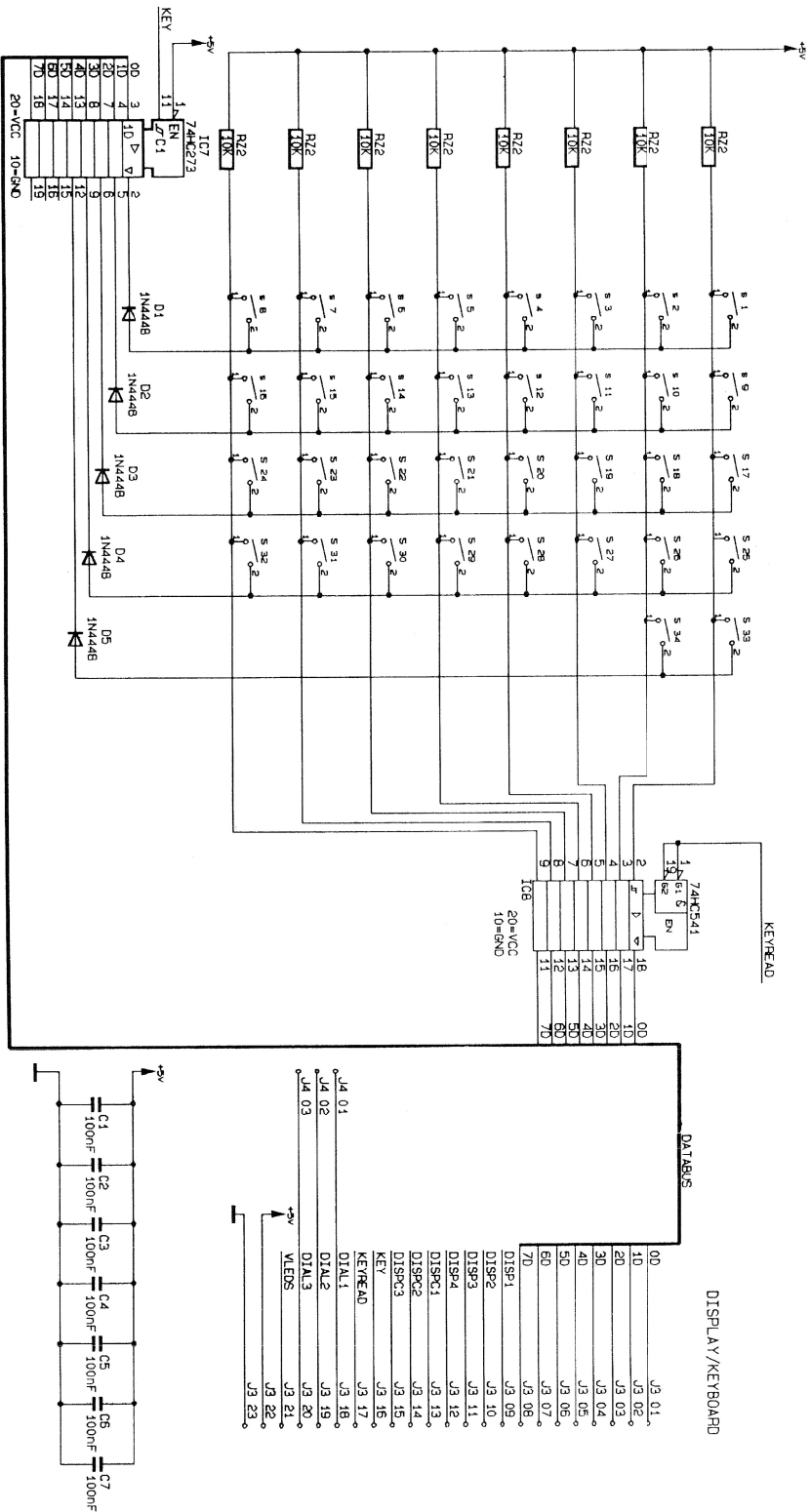






LED DISPLAYS

① 10-NOV-89	○ CD-PLAYER-CONTROLLER A728	○	○	○
STUDER			PAGE 2 OF 3	
DISPLAY/KEYBOARD			ESE	SC
			1.629.501.00	



①	10-NOV-89	CD-PLAYER-CONTROLLER A728	ESE	SC	1.629.501.00
STUDIER			CONNECTOR KEYS		
			PAGE 3 OF 3		
DISPLAY/KEYBOARD					

DISPLAY / KEYBOARD 1.629.501.00

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.	IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
J....44		53.03.0218	5 Pin	Pinstrip	any	S....22		55.15.0880		Switch	
J....45		53.03.0218	5 Pin	Pinstrip	any	S....23		55.15.0822		Switch red	
J....46		53.03.0218	5 Pin	Pinstrip	any	S....24		55.15.0880		Switch	
J....47		53.03.0218	5 Pin	Pinstrip	any	S....25		55.15.0880		Switch	
J....48		53.03.0218	5 Pin	Pinstrip	any	S....26		55.15.0702		Switch	
J....49		53.03.0218	5 Pin	Pinstrip	any	S....27		55.15.0702		Switch	
J....50		53.03.0230	2 Pin	LED Socket		S....28		55.15.0702		Switch	
J....51		53.03.0230	2 Pin	LED Socket		S....29		55.15.0702		Switch	
J....52		53.03.0230	2 Pin	LED Socket		S....30		55.15.0702		Switch	
J....52		53.03.0230	2 Pin	LED Socket		S....31		55.15.0702		Switch	
J....53		53.03.0230	2 Pin	LED Socket		S....32		55.15.0702		Switch	
J....54		53.03.0230	2 Pin	LED Socket		S....33		55.15.0702		Switch	
J....55		53.03.0230	2 Pin	LED Socket		S....34		55.15.0702		Switch	
J....56		53.03.0230	2 Pin	LED Socket							
J....57		53.03.0230	2 Pin	LED Socket		XIC...7		53.03.0165	20 pin	IC Socket	
J....58		53.03.0230	2 Pin	LED Socket							
J....59		53.03.0230	2 Pin	LED Socket							
J....60		53.03.0230	2 Pin	LED Socket							
J....61		53.03.0230	2 Pin	LED Socket							
J....62		53.03.0230	2 Pin	LED Socket							
J....63		53.03.0230	2 Pin	LED Socket							
J....64		53.03.0230	2 Pin	LED Socket							
J....65		53.03.0230	2 Pin	LED Socket							
J....66		53.03.0230	2 Pin	LED Socket							
J....67		53.03.0230	2 Pin	LED Socket							
MP...1		1.629.501.11		DISPLAY- KEYBOARD PCB	STU						
MP...2		1.630.010.33		Rotary Switch Encoder ALPS							
MP...3		1.630.010.34		Distance Washer							
MP...4		21.53.0355	3 Pos	Screw M3x8							
MP...5		24.16.1030	3 Pos	Pin Washer							
MP...6		1.010.025.23	3 Pos	HP-Washer							
Q....1		50.03.0351	BC327	PNP, Small Signal	any						
Q....2		50.03.0351	BC327	PNP, Small Signal	any						
Q....3		50.03.0351	BC327	PNP, Small Signal	any						
Q....4		50.03.0351	BC327	PNP, Small Signal	any						

MF=Metalfilm
CF=Carbonfilm
Cer=Ceramic
Cer=Cermet
PETP=Polyester
PP=Polypropylen
Tri=Trimmer
El=Electrolytic
Si=Silicium
MANUFACTURER: HP=Hewlett Packard, STU=Studer

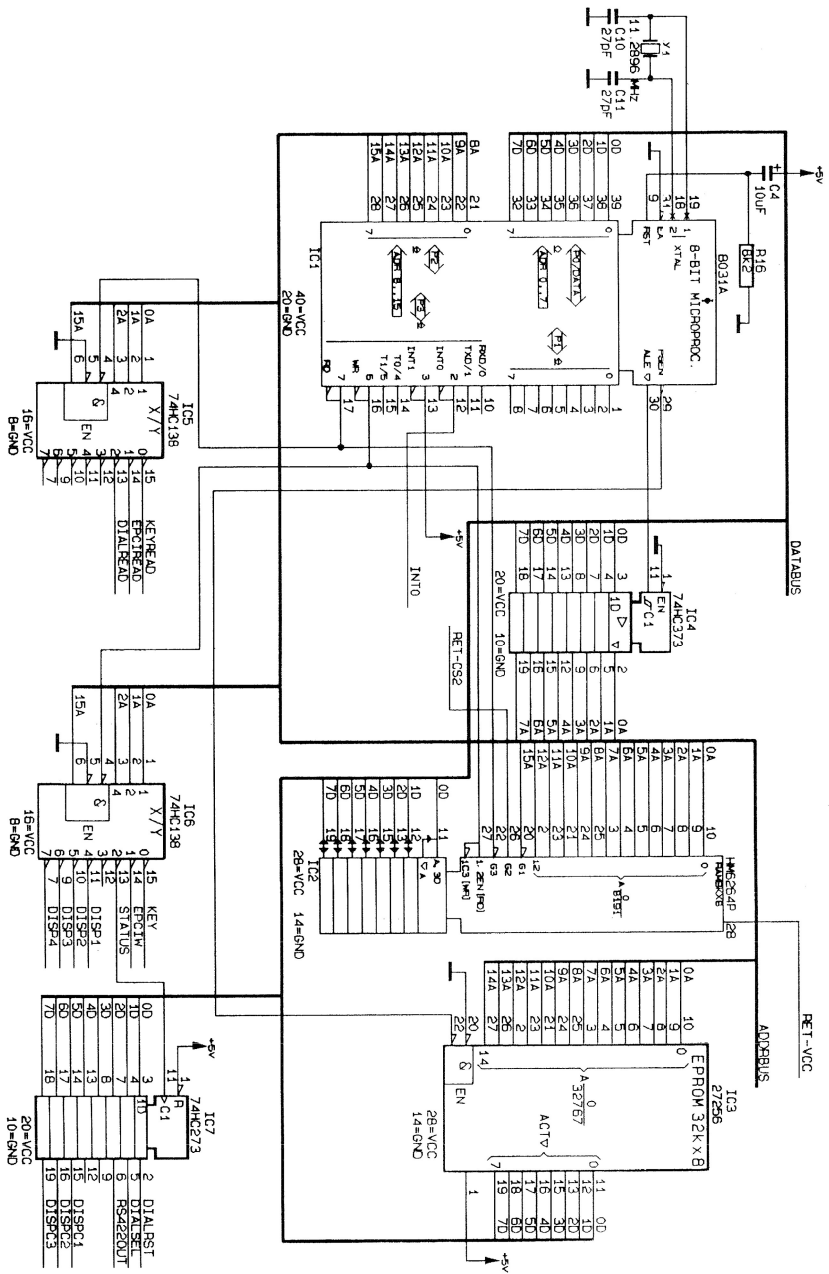
S T U D E R (00) 90/01/12 STW DISPLAY-KEYBOARD PL 1.629.501.00 PAGE 4 S T U D E R (00) 90/01/12 STW DISPLAY-KEYBOARD PL 1.629.501.00 PAGE 7

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
Q....5		50.03.0351	BC327	PNP, Small Signal	any
Q....6		50.03.0351	BC327	PNP, Small Signal	any
Q....7		50.03.0351	BC327	PNP, Small Signal	any
Q....8		50.03.0351	BC327	PNP, Small Signal	any
R....1		57.11.3101	100	1%, 0.25W, MF	
R....2		57.11.3101	100	1%, 0.25W, MF	
R....3		57.11.3101	100	1%, 0.25W, MF	
R....4		57.11.3101	100	1%, 0.25W, MF	
R....5		57.11.3101	100	1%, 0.25W, MF	
R....6		57.11.3220	22	1%, 0.25W, MF	
R....7		57.11.3220	22	1%, 0.25W, MF	
R....8		57.11.3220	22	1%, 0.25W, MF	
R....9		57.11.3101	100	1%, 0.25W, MF	
R....10		57.11.3102	1 K	1%, 0.25W, MF	
R....11		57.11.3102	1 K	1%, 0.25W, MF	
R....12		57.11.3102	1 K	1%, 0.25W, MF	
R....13		57.11.3102	1 K	1%, 0.25W, MF	
R....14		57.11.3102	1 K	1%, 0.25W, MF	
R....15		57.11.3102	1 K	1%, 0.25W, MF	
R....16		57.11.3102	1 K	1%, 0.25W, MF	
R....17		57.11.3102	1 K	1%, 0.25W, MF	
R....18		57.11.3122	1.2 K	1%, 0.25W, MF	
R....19		57.11.3122	1.2 K	1%, 0.25W, MF	
R....20		57.11.3122	1.2 K	1%, 0.25W, MF	
R....21		57.11.3122	1.2 K	1%, 0.25W, MF	
R....22		57.11.3122	1.2 K	1%, 0.25W, MF	
R....23		57.11.3122	1.2 K	1%, 0.25W, MF	
R....24		57.11.3122	1.2 K	1%, 0.25W, MF	
R....25		57.11.3122	1.2 K	1%, 0.25W, MF	
R....26		57.11.3122	1.2 K	1%, 0.25W, MF	
R....27		57.11.3122	1.2 K	1%, 0.25W, MF	
R....28		57.11.3122	1.2 K	1%, 0.25W, MF	
R....29		57.11.3122	1.2 K	1%, 0.25W, MF	
R....30		57.11.3122	1.2 K	1%, 0.25W, MF	
R....31		57.11.3122	1.2 K	1%, 0.25W, MF	
R....32		57.11.3122	1.2 K	1%, 0.25W, MF	

S T U D E R (00) 90/01/12 STW DISPLAY-KEYBOARD PL 1.629.501.00 PAGE 5

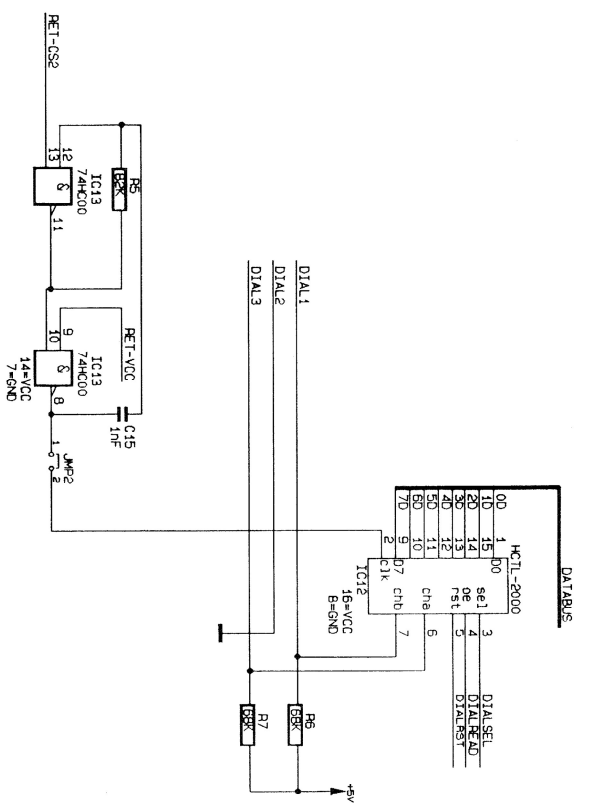
IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
R....33		57.11.3122	1.2 K	1%, 0.25W, MF	
R....34		57.11.3122	1.2 K	1%, 0.25W, MF	
R....35		57.11.3122	1.2 K	1%, 0.25W, MF	
R....36		57.11.3122	1.2 K	1%, 0.25W, MF	
R....37		57.11.3122	1.2 K	1%, 0.25W, MF	
R....38		57.11.3122	1.2 K	1%, 0.25W, MF	
R....39		57.11.3122	1.2 K	1%, 0.25W, MF	
R....40		57.11.3122	1.2 K	1%, 0.25W, MF	
R....41		57.11.3122	1.2 K	1%, 0.25W, MF	
R....42		57.11.3101	100	1%, 0.25W, MF	
R....43		57.11.3101	100	1%, 0.25W, MF	
R....44		57.11.3224	220 K	1%, 0.25W, MF	
RZ....1		57.88.4103	10 K	2%, 0.125W, MF	
RZ....2		57.88.4103	10 K	2%, 0.125W, MF	
S....1		55.15.0880		Switch	
S....2		55.15.0880		Switch	
S....3		55.15.0880		Switch	
S....4		55.15.0880		Switch	
S....5		55.15.0880		Switch	
S....6		55.15.0880		Switch	
S....7		55.15.0880		Switch	
S....8		55.15.0880		Switch	
S....9		55.15.0880		Switch	
S....10		55.15.0880		Switch	
S....11		55.15.0880		Switch	
S....12		55.15.0880		Switch	
S....13		55.15.0844		Switch yel	
S....14		55.15.0880		Switch	
S....15		55.15.0880		Switch	
S....16		55.15.0844		Switch yel	
S....17		55.15.0822		Switch red	
S....18		55.15.0880		Switch	
S....19		55.15.0880		Switch	
S....20		55.15.0822		Switch red	
S....21		55.15.0880		Switch	

S T U D E R (00) 90/01/12 STW DISPLAY-KEYBOARD PL 1.629.501.00 PAGE 6



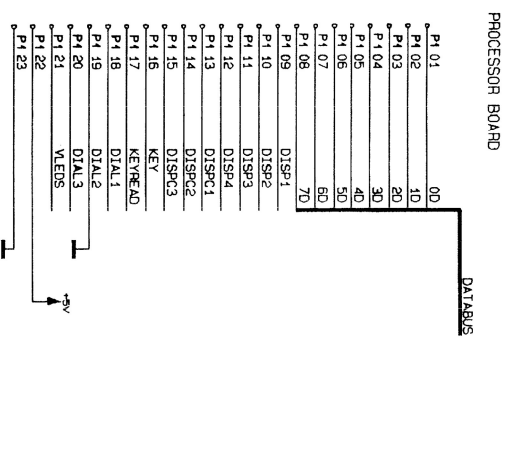
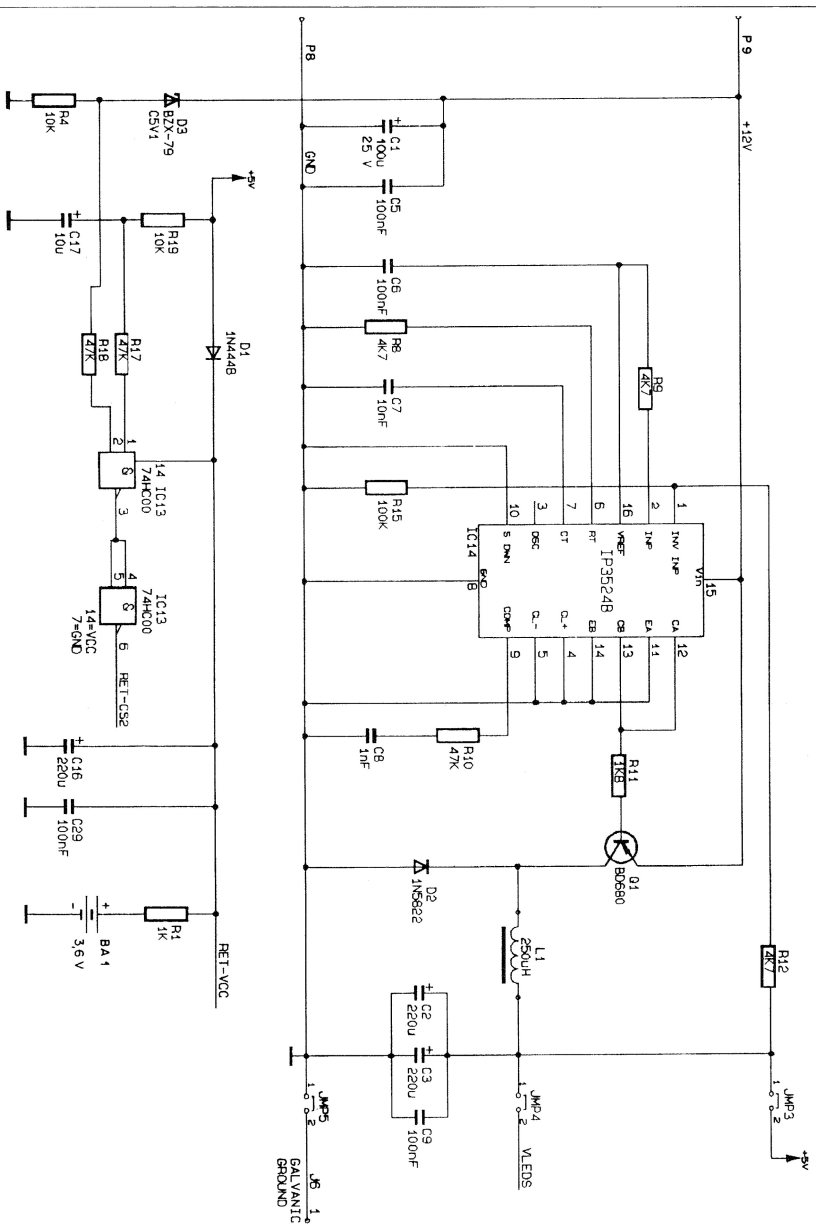
MICRO-CONTROLLER LOGIC

10-NOV-89	CD-PLAYER-CONTROLLER A728	ESE	SC	1.629.502.20
STUDER		PROCESSOR BOARD		
PAGE 1		OF 5		



DIAL LOGIC

29-NOV-89	CD-PLAYER-CONTROLLER A728	ESE	SC	1.629.502.20
STUDER		PROCESSOR BOARD		
		PAGE 3 OF 5		

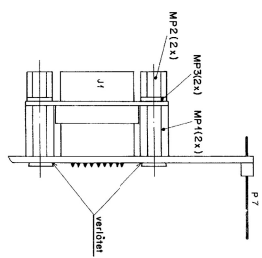
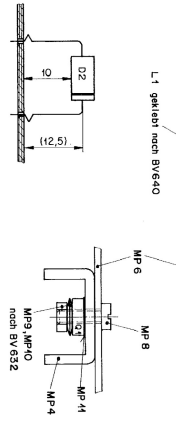
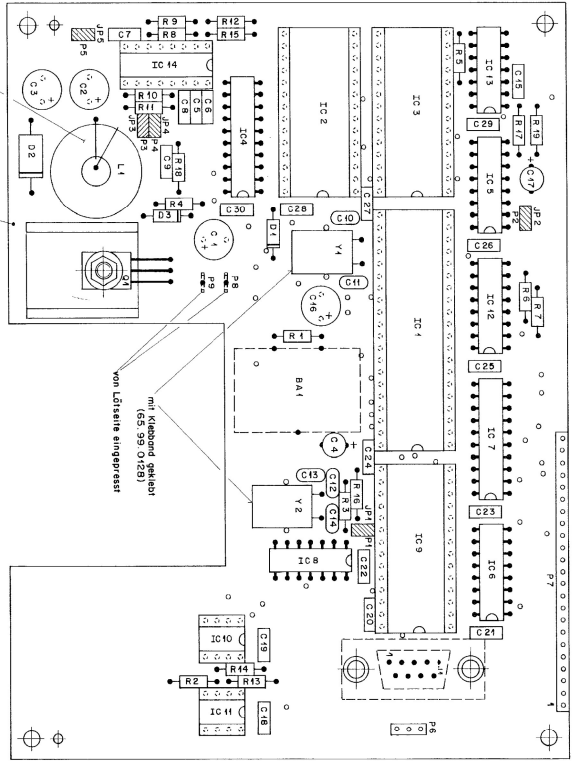


POWER SUPPLY and RETENTION CIRCUIT

10-K0V-89	CD-PLAYER-CONTROLLER A728	ESE	SC	1.629.502.20
STUDIER		PAGE 4 OF 5		

CONNECTOR

10-K0V-89	CD-PLAYER-CONTROLLER A728	ESE	SC	1.629.502.20
STUDIER		PAGE 5 OF 5		



IC	IC 1	IC 2	IC 3	IC 9
5.3.03.0175	IC1	IC2	IC3	IC9
5.3.03.0168	IC14			
5.3.03.0166	IC10	IC11		

POS. NO.	NAME NO.	VALUE	SPECIFICATIONS / EQUIVALENT	NAME
280.001.1	99.01.0274	3.6 V		
280.001.2	99.02.8120	1500 uF	-20% 25V EL	
280.001.3	99.02.8122	220 uF	-20% 16V EL	
280.001.4	99.02.8124	1000 uF	10% 16V EL	
280.001.5	99.04.0134	1000 uF	10% 16V EL	
280.001.6	99.04.0136	1000 uF	10% 16V EL	
280.001.7	99.04.0138	1000 uF	10% 16V EL	
280.001.8	99.04.0140	1000 uF	10% 16V EL	
280.001.9	99.04.0142	1000 uF	10% 16V EL	
280.001.10	99.04.0144	1000 uF	10% 16V EL	
280.001.11	99.04.0146	1000 uF	10% 16V EL	
280.001.12	99.04.0148	1000 uF	10% 16V EL	
280.001.13	99.04.0150	1000 uF	10% 16V EL	
280.001.14	99.04.0152	1000 uF	10% 16V EL	
280.001.15	99.04.0154	1000 uF	10% 16V EL	
280.001.16	99.04.0156	1000 uF	10% 16V EL	
280.001.17	99.04.0158	1000 uF	10% 16V EL	
280.001.18	99.04.0160	1000 uF	10% 16V EL	
280.001.19	99.04.0162	1000 uF	10% 16V EL	
280.001.20	99.04.0164	1000 uF	10% 16V EL	
280.001.21	99.04.0166	1000 uF	10% 16V EL	
280.001.22	99.04.0168	1000 uF	10% 16V EL	
280.001.23	99.04.0170	1000 uF	10% 16V EL	
280.001.24	99.04.0172	1000 uF	10% 16V EL	
280.001.25	99.04.0174	1000 uF	10% 16V EL	
280.001.26	99.04.0176	1000 uF	10% 16V EL	
280.001.27	99.04.0178	1000 uF	10% 16V EL	
280.001.28	99.04.0180	1000 uF	10% 16V EL	
280.001.29	99.04.0182	1000 uF	10% 16V EL	
280.001.30	99.04.0184	1000 uF	10% 16V EL	
280.001.31	99.04.0186	1000 uF	10% 16V EL	
280.001.32	99.04.0188	1000 uF	10% 16V EL	
280.001.33	99.04.0190	1000 uF	10% 16V EL	
280.001.34	99.04.0192	1000 uF	10% 16V EL	
280.001.35	99.04.0194	1000 uF	10% 16V EL	
280.001.36	99.04.0196	1000 uF	10% 16V EL	
280.001.37	99.04.0198	1000 uF	10% 16V EL	
280.001.38	99.04.0200	1000 uF	10% 16V EL	
280.001.39	99.04.0202	1000 uF	10% 16V EL	
280.001.40	99.04.0204	1000 uF	10% 16V EL	
280.001.41	99.04.0206	1000 uF	10% 16V EL	
280.001.42	99.04.0208	1000 uF	10% 16V EL	
280.001.43	99.04.0210	1000 uF	10% 16V EL	
280.001.44	99.04.0212	1000 uF	10% 16V EL	
280.001.45	99.04.0214	1000 uF	10% 16V EL	
280.001.46	99.04.0216	1000 uF	10% 16V EL	
280.001.47	99.04.0218	1000 uF	10% 16V EL	
280.001.48	99.04.0220	1000 uF	10% 16V EL	
280.001.49	99.04.0222	1000 uF	10% 16V EL	
280.001.50	99.04.0224	1000 uF	10% 16V EL	
280.001.51	99.04.0226	1000 uF	10% 16V EL	
280.001.52	99.04.0228	1000 uF	10% 16V EL	
280.001.53	99.04.0230	1000 uF	10% 16V EL	
280.001.54	99.04.0232	1000 uF	10% 16V EL	
280.001.55	99.04.0234	1000 uF	10% 16V EL	
280.001.56	99.04.0236	1000 uF	10% 16V EL	
280.001.57	99.04.0238	1000 uF	10% 16V EL	
280.001.58	99.04.0240	1000 uF	10% 16V EL	
280.001.59	99.04.0242	1000 uF	10% 16V EL	
280.001.60	99.04.0244	1000 uF	10% 16V EL	
280.001.61	99.04.0246	1000 uF	10% 16V EL	
280.001.62	99.04.0248	1000 uF	10% 16V EL	
280.001.63	99.04.0250	1000 uF	10% 16V EL	
280.001.64	99.04.0252	1000 uF	10% 16V EL	
280.001.65	99.04.0254	1000 uF	10% 16V EL	
280.001.66	99.04.0256	1000 uF	10% 16V EL	
280.001.67	99.04.0258	1000 uF	10% 16V EL	
280.001.68	99.04.0260	1000 uF	10% 16V EL	
280.001.69	99.04.0262	1000 uF	10% 16V EL	
280.001.70	99.04.0264	1000 uF	10% 16V EL	
280.001.71	99.04.0266	1000 uF	10% 16V EL	
280.001.72	99.04.0268	1000 uF	10% 16V EL	
280.001.73	99.04.0270	1000 uF	10% 16V EL	
280.001.74	99.04.0272	1000 uF	10% 16V EL	
280.001.75	99.04.0274	1000 uF	10% 16V EL	
280.001.76	99.04.0276	1000 uF	10% 16V EL	
280.001.77	99.04.0278	1000 uF	10% 16V EL	
280.001.78	99.04.0280	1000 uF	10% 16V EL	
280.001.79	99.04.0282	1000 uF	10% 16V EL	
280.001.80	99.04.0284	1000 uF	10% 16V EL	
280.001.81	99.04.0286	1000 uF	10% 16V EL	
280.001.82	99.04.0288	1000 uF	10% 16V EL	
280.001.83	99.04.0290	1000 uF	10% 16V EL	
280.001.84	99.04.0292	1000 uF	10% 16V EL	
280.001.85	99.04.0294	1000 uF	10% 16V EL	
280.001.86	99.04.0296	1000 uF	10% 16V EL	
280.001.87	99.04.0298	1000 uF	10% 16V EL	
280.001.88	99.04.0300	1000 uF	10% 16V EL	
280.001.89	99.04.0302	1000 uF	10% 16V EL	
280.001.90	99.04.0304	1000 uF	10% 16V EL	
280.001.91	99.04.0306	1000 uF	10% 16V EL	
280.001.92	99.04.0308	1000 uF	10% 16V EL	
280.001.93	99.04.0310	1000 uF	10% 16V EL	
280.001.94	99.04.0312	1000 uF	10% 16V EL	
280.001.95	99.04.0314	1000 uF	10% 16V EL	
280.001.96	99.04.0316	1000 uF	10% 16V EL	
280.001.97	99.04.0318	1000 uF	10% 16V EL	
280.001.98	99.04.0320	1000 uF	10% 16V EL	
280.001.99	99.04.0322	1000 uF	10% 16V EL	
280.001.100	99.04.0324	1000 uF	10% 16V EL	