

# STUDER

PROFESSIONAL AUDIO EQUIPMENT

## Service Information

STUDER Mischpult 169 / 269  
STUDER Mixing Console 169 / 269  
Netzgerät/Power Supply 1.169.900.00  
Service Information SI 40/79 D/E

## SERVICE INFORMATION

40/79D/E

Ersetzt Service Info 36/78Replace Service Info 36/78

STUDER MIXING CONSOLE 169 / 269

Netzgerät 1.169.990

- ① Wenn die Temperatur des Stabilisator IC über ca. 70...80° ansteigt, arbeitet er nicht mehr zuverlässig.

Deshalb empfehlen wir D 7 zu ersetzen:

D 7 Z-Diode 6,2 V → 7,5 V  
50.04.1511 → 50.04.1503

Zener Diode 7,5 V, 5 %, 1,3 W,  
Planar. =====

- ② Um ein 269 Mischpult zu speisen, sind weitere Aenderungen nötig:

D 7 wie oben 1  
R 6 + R 13 ersatzlos entfernen  
R 7 kurzschliessen  
R 11 0,18Ω → 0,1Ω 4 W  
R 12 330Ω → 470Ω

Sicherung F 2 ändert von 2,5 AT auf 3,15 AT.

Verbindung von Netzerde auf Minus-Anschluss des DC-Steckers (oder schwarze Bananen-Buchse).

Diese Aenderung ist durch den Zusatz .81 nach der Typen-Nr. 1.169.990 gekennzeichnet:

Power Supply 1.169.990

- ① When temperature in the stabilizing IC increases above 70...80° C the IC does not work properly anymore.

Therefore we highly recommend to replace D 7:

D 7 Z-Diode 6,2 V → 7,5 V  
50.04.1511 → 50.04.1503

Use a 7,5 V, 5 %, 1,3 W, Planar  
type. =====

- ② To carry the load of a 269 mixing console further alterations are necessary:

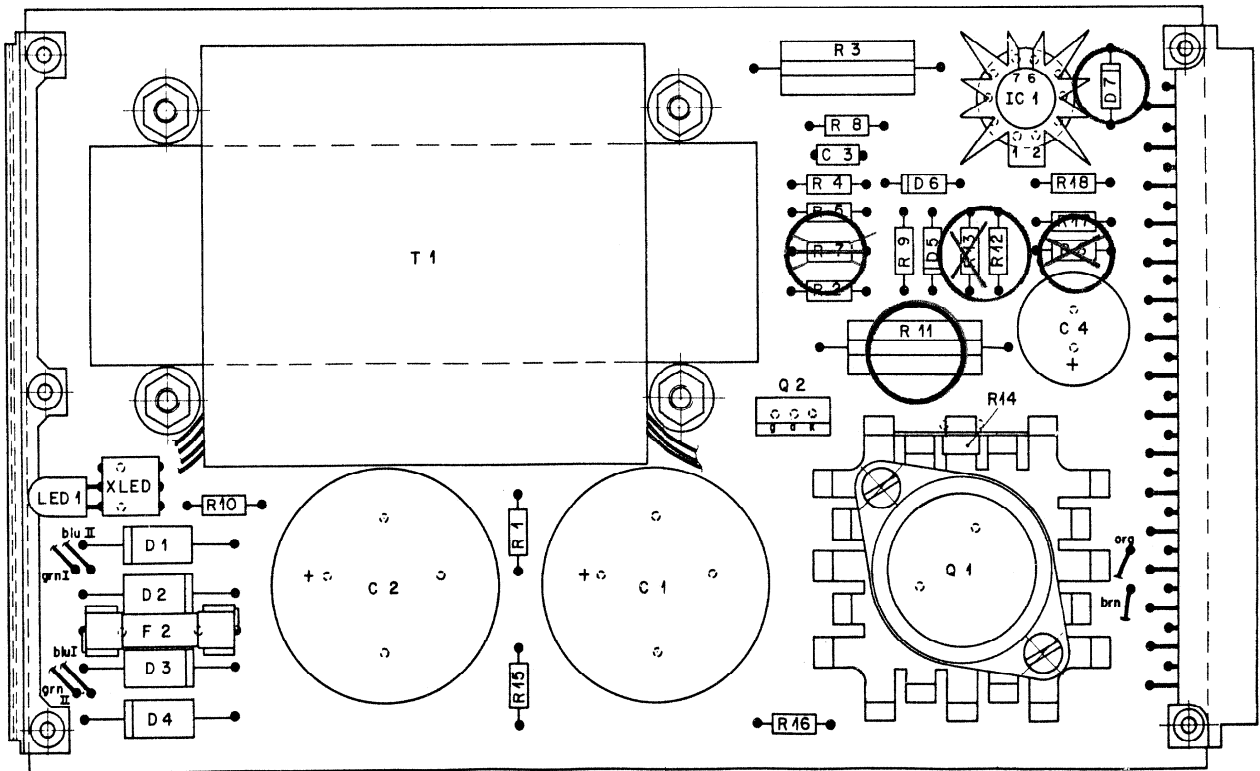
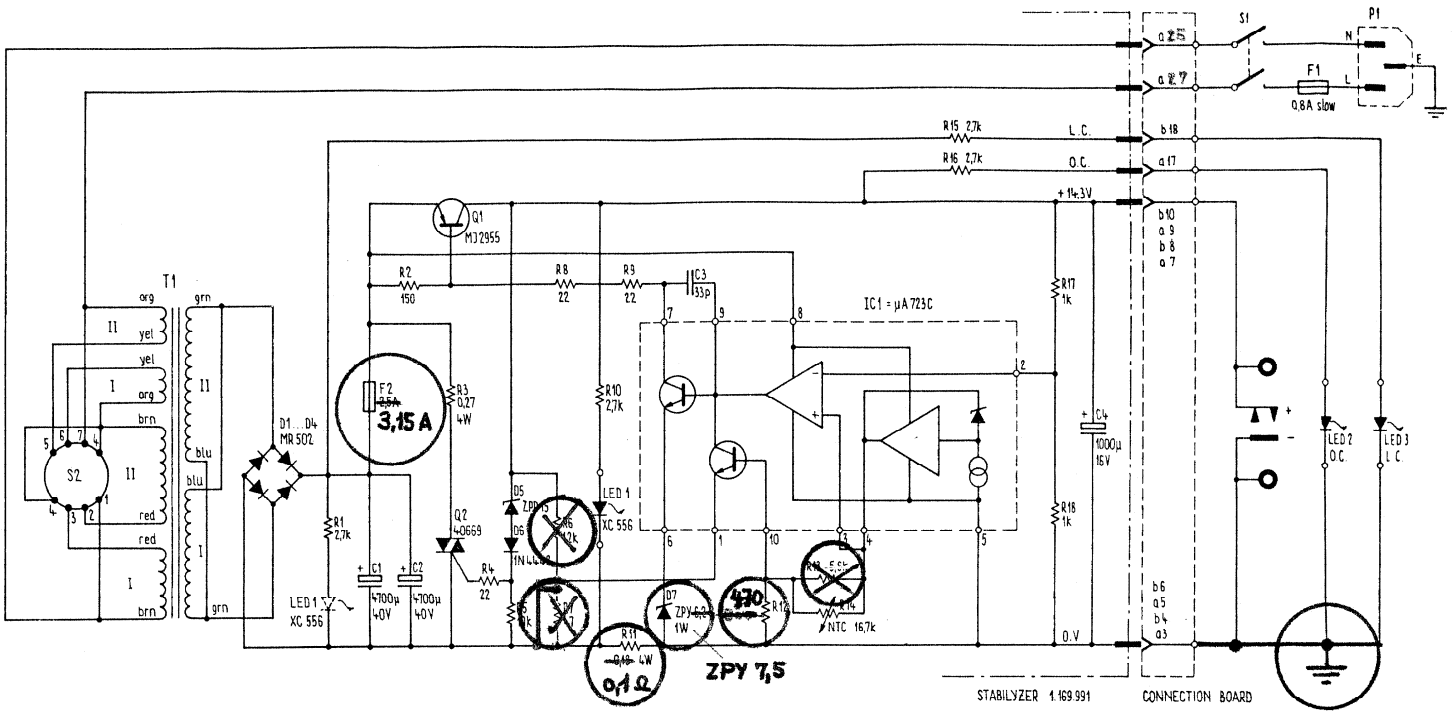
D 7 as above 1  
R 6 + R 13 delete  
R 7 short circuit  
R 11 0,18Ω → 0,1Ω 4 W  
R 12 330Ω → 470Ω

Change fuse F 2, 2,5 A (slow) to 3,15 A (slow).

Connection from earth terminal of mains plug to minus terminal of DC-socket (or black banana socket).

This alteration is indicated by the suffix .81 after the typ-No. 1.169.990:

Power Supply 1.169.990.81



POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT MFR
C 1	59. 35. 3472	4700 $\mu$	25V EL	S, P, FR
2	59. 35. 3472	4700 $\mu$	25V EL	
3	59. 34. 2330	33 p	50V CER	
4	59. 22. 4102	1000 $\mu$	16V EL	
D 1	50. 04. 0507	HR 502	3A	M
2	"	"	"	"
3	"	"	"	"
4	"	"	"	"
5	"	"	"	"
6	"	"	"	"
D 7	50.04. 1503	2PD 15 1N4448 ZPY 7.5	5% 15V PLANAR SWITCHING 100mA/4ms 5% 13W 7.5V PLANAR	ITT ITT, Ph ITT
F 2	51. 01. 0122	3,15A	SLOW BLOW	
IC 1	50. 05. 0119	$\mu$ A 723 C	METAL CAN	M, F, S
LED 1	50. 04. 2109	XC 556	HV 5054-1 Xc	
XLED	54. 01. 0249	3p for LED	CIS	AHP
P	54. 01. 0359	2*16p EDGE	MALE	BURNDY
Q 1	50. 03. 0481	HJ 2955	10A, 100W, PNP	M
2	50. 99. 0106	T2800 D	8A, 100V, TRIAC	RCA
R 1	57. 41. 4272	27 k	0.3W C#	
2	57. 41. 4151	150	0.3W C#	
3	57. 56. 527E	0.27	4W WW	
4	57. 41. 422C	22	0.3W C#	
5	57. 41. 4103	10 k	0.3W C#	
6				
7				
8	57. 41. 422C	22	0.3W C#	
9	57. 41. 422C	22	0.3W C#	
10	57. 41. 4272	27 k	0.3W C#	
R 11	57. 56. 5108	0.470	4W WW	
12	57. 41. 4471	470	0.3W C#	
13	57. 41. 4335	33	0.3W C#	
14	57. 00. 0000	16.7 k	0.3W C#	
EL	ELECTROLYTIC		PHILIPS 2322 640 98005	
CER	CERAMIC			
CF	CARRON FILM			
WV	WIRE WOUND			
Xc	X-CITON			
F	FAIRCHILD			
Ph	PHILIPS			
M	MOTROLA			
FR	FRANKO			
R	ROEDERSTEIN			
S	SIEMENS			
ST	STUDER			
IND	IND			
DATE	DATE			
NAME	NAME			

POS NO	PART NO	VALUE	SPECIFICATIONS	EQUIVALENT MFR
R 15	57. 41. 4272	27 k	0.3W C#	
R 16	57. 41. 4272	27 k	0.3W C#	
R 17	57. 41. 4102	1 k	0.3W C#	
R 18	57. 41. 4102	1 k	0.3W C#	
T 1	1. 169. 992	MAINS TRAF		ST
	50. 03. 9930		COOLING FIN T03	
	1. 010. 001. 50		COOLING STAR T05	
	53. 03. 0142		FUSE CLIP	
	ADDITIONAL	PARTS IN	1. 169. 990	
	54. 04. 0107	MAINS PLUG	FEMALE FREE	
	54. 04. 0104	MAINS SOCKET	MALE FIXED	
	53. 03. 0106	FUSE HOLDER	FOR 5 * 20 FUSE	
	51. 01. 0116	FUSE 800mA	MAINS 100... 140VAC	
	51. 01. 0113	FUSE 400mA	" 200... 240VAC	
	55. 03. 0129	MAINS SWITCH	FOR MAINS	
	53. 03. 0128	VOLTAGE SELECTOR		
	54. 01. 0360	EDGE CONNECTOR	FEMALE 2*16p	
	54. 02. 0109	COAX SOCKET	MALE FIXED	
	54. 02. 0108	COAX PLUG	FEMALE FREE	
	54. 01. 0105	BANANA SOCKET	4mm black	
	54. 01. 0103	BANANA SOCKET	4mm red	
CF	CARBON FILM			
IND	IND			
DATE	DATE			
NAME	NAME			

