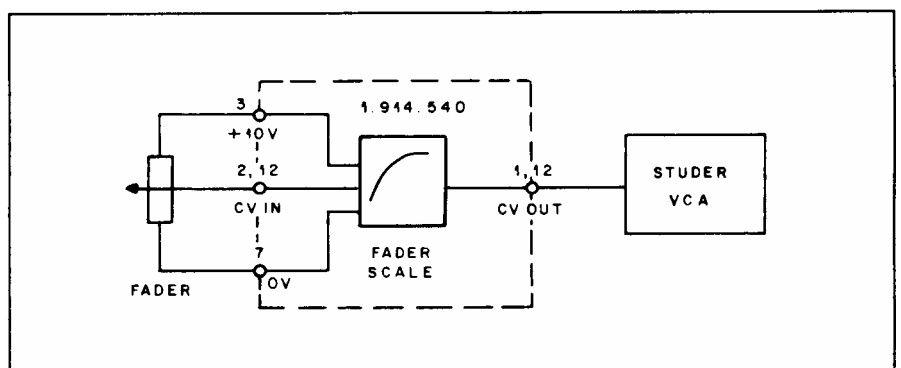
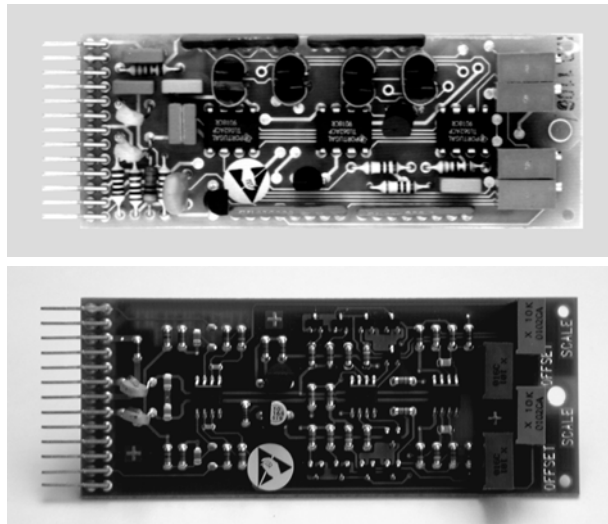


Dual Fader/VCA Control Voltage Interface

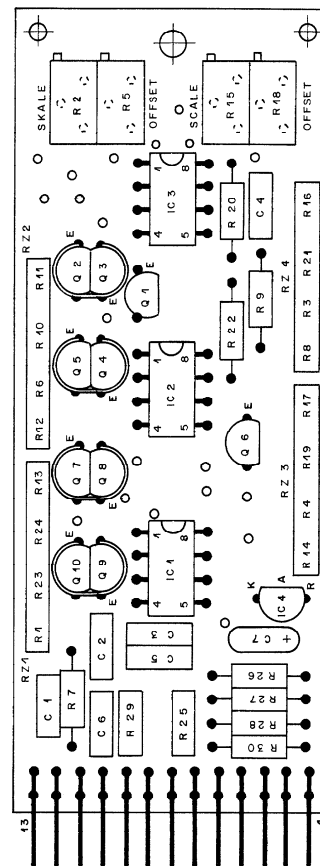
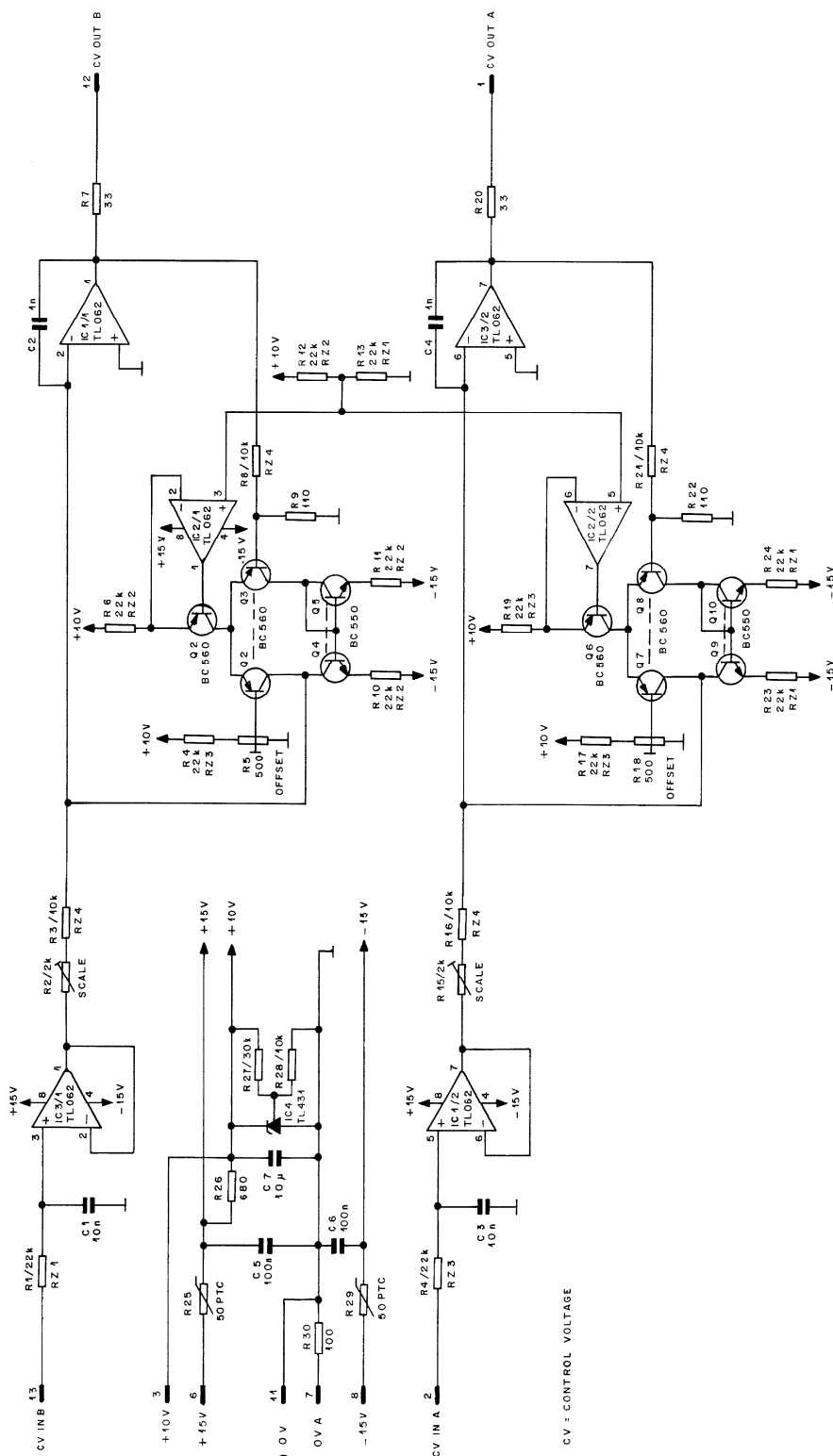
1.914.540 /541

These interfaces are used to convert the voltage of a linear fader to the non-linear dB scale of a Studer VCA. One card processes two channels. It is available in two versions: 540.xx (0...+10 V_{DC} control voltage), and 541.xx (+5...0 V_{DC} control voltage). A regulated +10 V_{DC} reference voltage is generated on-board. The DC from the fader's wiper is connected to the input. Offset and scale alignment is performed with on-board trimmer potentiometers for matching the VCA gain to the dB scale of the fader.

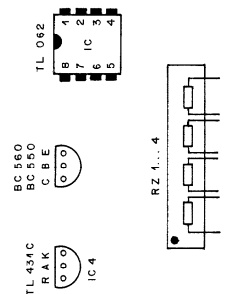


Technical Specifications

		1.914.540.xx	1.914.541.xx
Input:	Impedance	> 1 M Ω , unbalanced	100 k Ω , unbalanced
	Level range	0...+10 V	+5...0 V
Output:	Impedance	33 Ω , unbalanced	33 Ω , unbalanced
	Control range	+1 V...-10 V	+1 V...-10 V
Supply:		± 15 V (15 mA)	
Dimensions:		MS-card, 34 \times 85 mm	
Ordering Information:		Fader/VCA control interface	1.914.540.xx
		Fader/VCA control interface	1.914.541.xx



CIS	PIN	EURO	32 PIN
CV IN B	13	1	7
CV OUT B	42	2	21
OV (CV)	41	3	28
	10	9	23
	9	14	29
-15.5V	8		
0V A	7		
+15.5V	6		
	5		
+10V (FADER)	4		
CV IN A	3	4	24
CV OUT A	2	5	30
	1	11	25
		13	26
		15	32



STUDER REGENSDORF ZÜRICH	FADER / VCA CV INTERFACE BOARD	1.914.540.00
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MSC FADER / VCA INTERFACE

Ad	..POS..	...REF.No...	DESCRIPTION.....	MANUFACTURER
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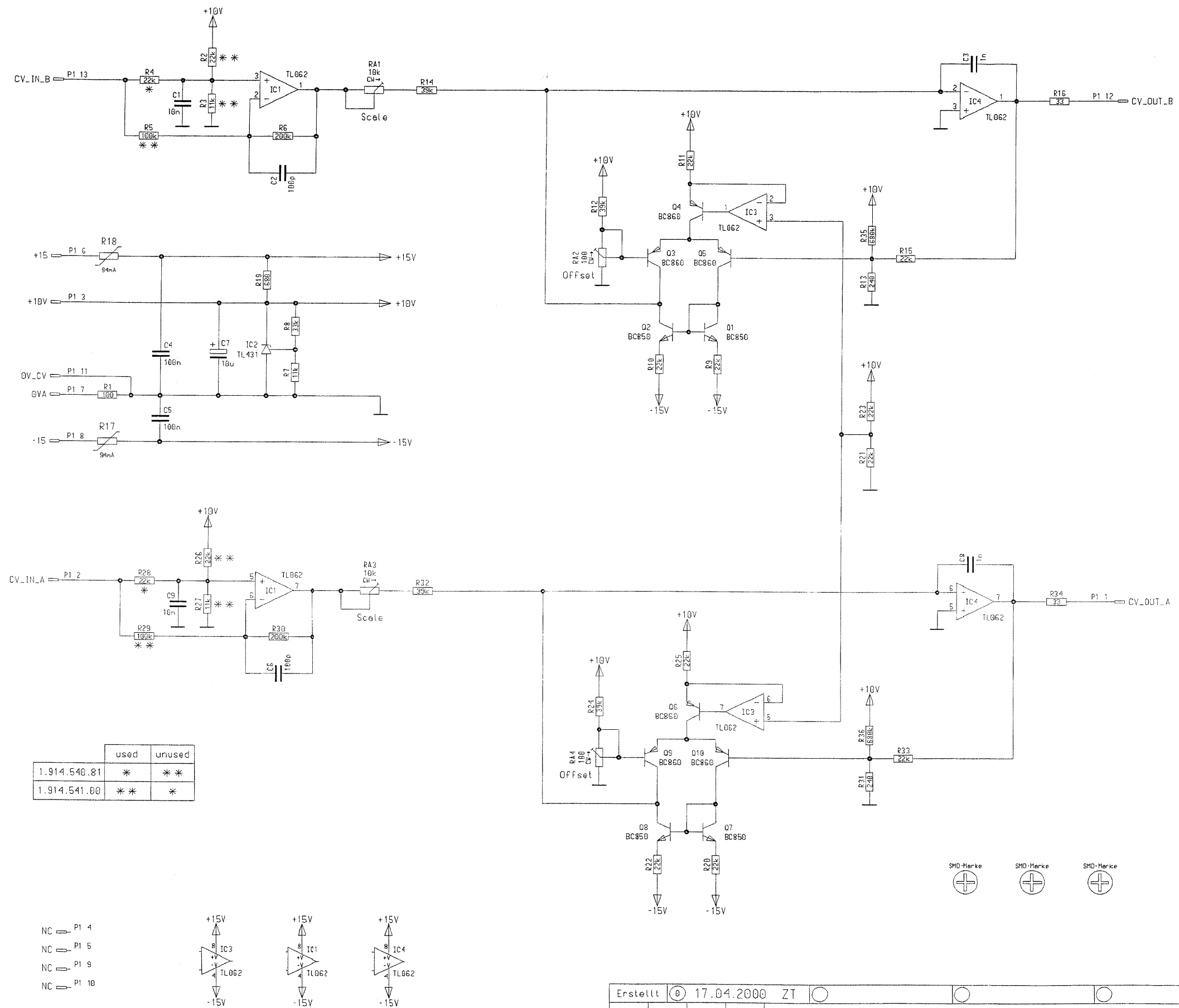
C.....1	59.06.0103	10 nF	63V	PE	10%		
C.....2	59.06.0102	1 nF	63V	PE	10%		
C.....3	59.06.0103	10 nF	63V	PE	10%		
C.....4	59.06.0102	1 nF	63V	PE	10%		
C.....5	59.06.0104	0.1 uF	63V	PE	10%		
C.....6	59.06.0104	0.1 uF	63V	PE	10%		
C.....7	59.26.2100	10 uF	16V	SAL			
IC....1	50.09.0119	TL062	ACP	dual op.amp.		TI	
IC....2	50.09.0119	TL062	ACP	dual op.amp.		TI	
IC....3	50.09.0119	TL062	ACP	dual op.amp.		TI	
IC....4	50.10.0106	TL431	CLP	shunt regulator		TI	
MP....1	50.20.2001	CLIP	2 * TO 92				
MP....2	50.20.2001	CLIP	2 * TO 92				
MP....3	50.20.2001	CLIP	2 * TO 92				
MP....4	50.20.2001	CLIP	2 * TO 92				
MP....5	43.01.0108	ESE	ESE warning				
P.....1	54.01.0273	13	PIN	CIS			
PCB...1	1.914.540.11		empty PCB			St	
Q.....1	50.03.0496	BC560	PNP			Sie	
Q.....2	50.03.0600	BC560	PNP	E6310	see note 1	Sie	
Q.....3	50.03.0600	BC560	PNP	E6310	see note 1	Sie	
Q.....4	50.03.0524	BC550	NPN	E6310	see note 1	Sie	
Q.....5	50.03.0524	BC550	NPN	E6310	see note 1	Sie	
Q.....6	50.03.0496	BC560	PNP			Sie	
Q.....7	50.03.0600	BC560	PNP	E6310	see note 1	Sie	
Q.....8	50.03.0600	BC560	PNP	E6310	see note 1	Sie	
Q.....9	50.03.0524	BC550	NPN	E6310	see note 1	Sie	
Q.....10	50.03.0524	BC550	NPN	E6310	see note 1	Sie	
R.....1	58.05.0104	100 kOhm	multi-turn	10%			
R.....2	58.05.0501	500 Ohm	multi-turn	10%			
R.....3	57.11.3330	33 Ohm					
R.....4	57.11.3241	240 Ohm					
R.....5	58.05.0104	100 kOhm	multi-turn	10%			
R.....6	58.05.0501	500 Ohm	multi-turn	10%			
R.....7	57.11.3330	33 Ohm					
R.....8	57.11.3241	240 Ohm					
R.....9	57.92.1820	42 Ohm	PTC				
R.....10	57.11.3681	680 Ohm					
R....11	57.11.3303	30 kOhm					
R....12	57.11.3103	10 kOhm					
R....13	57.92.1820	42 Ohm	PTC				
R....14	57.11.3101	100 Ohm					
RZ....1	57.88.2223	22 kOhm	network 4	* 22k			
RZ....2	57.88.2223	22 kOhm	network 4	* 22k			
RZ....3	57.88.2223	22 kOhm	network 4	* 22k			
RZ....4	57.88.2223	22 kOhm	network 4	* 22k			

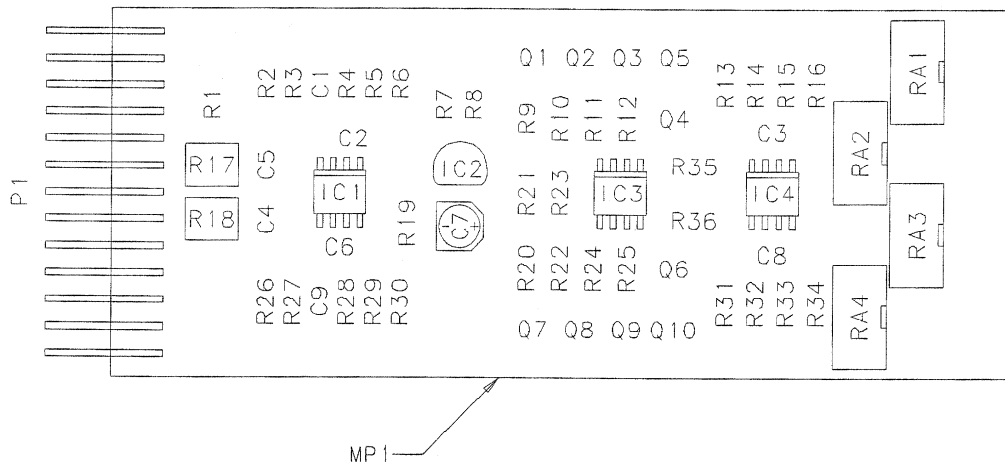
SAL = electrolytic, PE = polyester

MANUFACTURER TI=Texas Instruments, Sie=Siemens, St=Studer

Note 1: Q2,Q3,Q4,Q5,Q7,Q8,Q9,Q10 must fulfill BV 678 I

1.914.540.00 FADER/VCA CV INTERFACE BOARD HOR16/11/9000





Accompanying documents: Zugehörige Unterlagen: PL		General tolerance: Freimasstoleranz:	Scale: Massstab: 1.5:1	Edition Ausgabe Date Datum	17.04.2000	ZT	ML	RL	①
Substitute for: Ersatz fuer:					Viso Gez.	Checked Gepr.	Seen Ges.	Index	
Page: Seite:				1 / 1					
STUDER REGENSDORF	Description: Benennung:	FADER/VCA INTERFACE TYPE2 FADER/VCA CV INTERFACE		Z	Number: Nummer:	1.914.541.00			
						1.914.540.81			

Dual Fader/VCA Control Voltage IF 1.914.541.00 (0)

Page: 1 of 1

Idx. Pos.	Part No.	Qty.	Type/Val.	Description	Idx. Pos.	Part No.	Qty.	Type/Val.	Description
0 C 1	59.60.3325	1 pce	10n	CER 50V, 10%, X7R, 0805					
0 C 2	59.60.2249	1 pce	100p	CER 50V, 5%, C0G, 0603					
0 C 3	59.60.2373	1 pce	1n0	CER 50V, 5%, C0G, 0805					
0 C 4	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805					
0 C 5	59.60.3337	1 pce	100n	CER 50V, 10%, X7R, 0805					
0 C 6	59.60.2249	1 pce	100p	CER 50V, 5%, C0G, 0603					
0 C 7	59.68.0065	1 pce	10u	EL 16V, 4.0*5.7					
0 C 8	59.60.2373	1 pce	1n0	CER 50V, 5%, C0G, 0805					
0 C 9	59.60.3325	1 pce	10n	CER 50V, 10%, X7R, 0805					
0 IC 1	50.61.0201	1 pce	TL062	Dual FET Op-Amp					
0 IC 2	50.10.0106	1 pce	TL431	Shunt regulator					
0 IC 3	50.61.0201	1 pce	TL062	Dual FET Op-Amp					
0 IC 4	50.61.0201	1 pce	TL062	Dual FET Op-Amp					
0 MP 1	1.914.541.11	1 pce		FADER/VCA INTERFACE2 PCB					
0 MP 2	1.914.541.04	1 pce		NR.-ETIKETTE 5 * 20					
0 MP 3	43.01.0108	1 pce	Label	ESE-Warnschild					
0 P 1	54.01.0273	1 pce	13p	Stecker CIS parallelsteck					
0 Q 1	50.60.0002	1 pce	BC850C	NPN 45V 100mA SOT 23					
0 Q 2	50.60.0002	1 pce	BC850C	NPN 45V 100mA SOT 23					
0 Q 3	50.60.1002	1 pce	BC860C	PNP 45V 100mA SOT 23					
0 Q 4	50.60.1002	1 pce	BC860C	PNP 45V 100mA SOT 23					
0 Q 5	50.60.1002	1 pce	BC860C	PNP 45V 100mA SOT 23					
0 Q 6	50.60.1002	1 pce	BC860C	PNP 45V 100mA SOT 23					
0 Q 7	50.60.0002	1 pce	BC850C	NPN 45V 100mA SOT 23					
0 Q 8	50.60.0002	1 pce	BC850C	NPN 45V 100mA SOT 23					
0 Q 9	50.60.1002	1 pce	BC860C	PNP 45V 100mA SOT 23					
0 Q 10	50.60.1002	1 pce	BC860C	PNP 45V 100mA SOT 23					
0 R 1	57.60.1101	1 pce	100R	MF, 1%, 0204, E24					
0 R 2	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 3	57.60.1113	1 pce	11k	MF, 1%, 0204, E24					
0 R 4	not used	1 pce	22k	MF, 1%, 0204, E24					
0 R 5	57.60.1104	1 pce	100k	MF, 1%, 0204, E24					
0 R 6	57.60.1204	1 pce	200k	MF, 1%, 0204, E24					
0 R 7	57.60.1113	1 pce	11k	MF, 1%, 0204, E24					
0 R 8	57.60.1333	1 pce	33k	MF, 1%, 0204, E24					
0 R 9	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 10	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 11	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 12	57.60.1393	1 pce	39k	MF, 1%, 0204, E24					
0 R 13	57.60.1241	1 pce	240R	MF, 1%, 0204, E24					
0 R 14	57.60.1393	1 pce	39k	MF, 1%, 0204, E24					
0 R 15	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 16	57.60.1330	1 pce	33R	MF, 1%, 0204, E24					
0 R 17	57.92.1820	1 pce	94mA	PTC 60V					
0 R 18	57.92.1820	1 pce	94mA	PTC 60V					
0 R 19	57.60.1681	1 pce	680R	MF, 1%, 0204, E24					
0 R 20	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 21	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 22	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 23	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 24	57.60.1393	1 pce	39k	MF, 1%, 0204, E24					
0 R 25	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 26	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 27	57.60.1113	1 pce	11k	MF, 1%, 0204, E24					
0 R 28	not used	1 pce	22k	MF, 1%, 0204, E24					
0 R 29	57.60.1104	1 pce	100k	MF, 1%, 0204, E24					
0 R 30	57.60.1204	1 pce	200k	MF, 1%, 0204, E24					
0 R 31	57.60.1241	1 pce	240R	MF, 1%, 0204, E24					
0 R 32	57.60.1393	1 pce	39k	MF, 1%, 0204, E24					
0 R 33	57.60.1223	1 pce	22k	MF, 1%, 0204, E24					
0 R 34	57.60.1330	1 pce	33R	MF, 1%, 0204, E24					
0 R 35	57.60.1684	1 pce	680k	MF, 1%, 0204, E24					
0 R 36	57.60.1684	1 pce	680k	MF, 1%, 0204, E24					
0 RA 1	58.01.9103	1 pce	10k	Cermet, 10%, 0.5W, vertical					
0 RA 2	58.01.9101	1 pce	100R	Cermet, 10%, 0.5W, vertical					
0 RA 3	58.01.9103	1 pce	10k	Cermet, 10%, 0.5W, vertical					
0 RA 4	58.01.9101	1 pce	100R	Cermet, 10%, 0.5W, vertical					

End of List

Comments: