

BA/SA  
Albrecht MB/PB 51

10.27.0390  
1.812.406.22/3

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PIN ASSIGNMENT OF SLAVE REMOTE CONNECTORS A AND B

SLAVE REMOTE CONNECTOR A :

PIN	SIGNAL NAME	FUNCTION	SIGNALTYPE
1	GND	0.0V	
2			
3	R	Biphase R	TTL
4	GND	0.0V	
5	FILTER	Filter control outp.	OC.OUT
6			
7			
8	STOP	status STOP	
9	W1	Play command CH1	OC.OUT
10	W3	" " CH3	" "
11	A2	REC " CH2	" "
12	A1I	" status CH1	Switch in
13	A3I	" " CH3	" "
14	COIN	Coincidence (mem.=∅)	" "
15			
16	S	Biphase S	TTL
17	+24V	Remote power on	DC
18			
19			
20	REW	Rewind status	Switch in
21	SXNC	Synchronizer enable	" "
22	W2	Play command CH2	OC.OUT
23	A1	REC " CH1	" "
24	A3	" " CH3	" "
25	A2I	" status CH2	Switch in

OC.OUT = output with  
external pull-  
up resistor  
(+28V max.)

SWITCH IN = open collector or  
switch driving to  
ground

PAGE

PIN ASSIGNMENT OF SLAVE REMOTE CONNECTORS A AND B

SLAVE REMOTE CONNECTOR B :

PIN	SIGNAL NAME	FUNCTION	SIGNALTYPE
1	0.0 V	GND Synchronizer	
2	RECEN 1	Record enable signal	ch1 SWITCH IN
3	RECEN2	" " "	" "
4	RECEN3	" " "	" "
5			ch3
6	REL 1	Relais contact 1	
7	REL 2	Relais contact 2	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22	Aux 1	25 F/s $\overline{24 F/s}$	Switch in
23	Aux 2		
24			
25			

OC.OUT = output with external pull-up resistor (+28V max.)

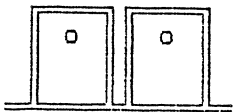
SWITCH IN = open collector or switch driving to ground

PAGE

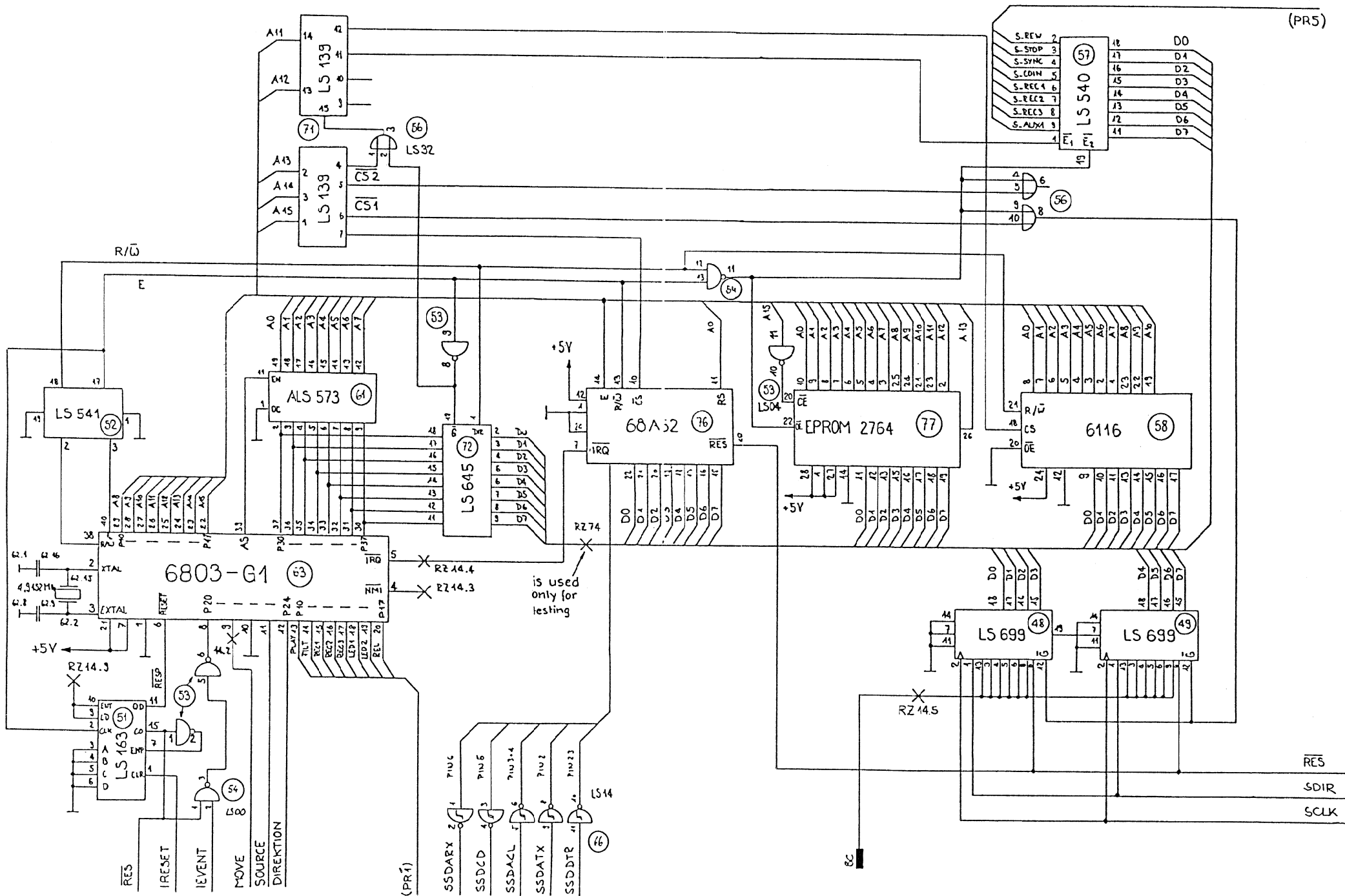
STATUS DISPLAYS ON THE INTERFACE

The two LED's on the interface MB 51 PCB serve as status indicators and for diagnosing possible problems.

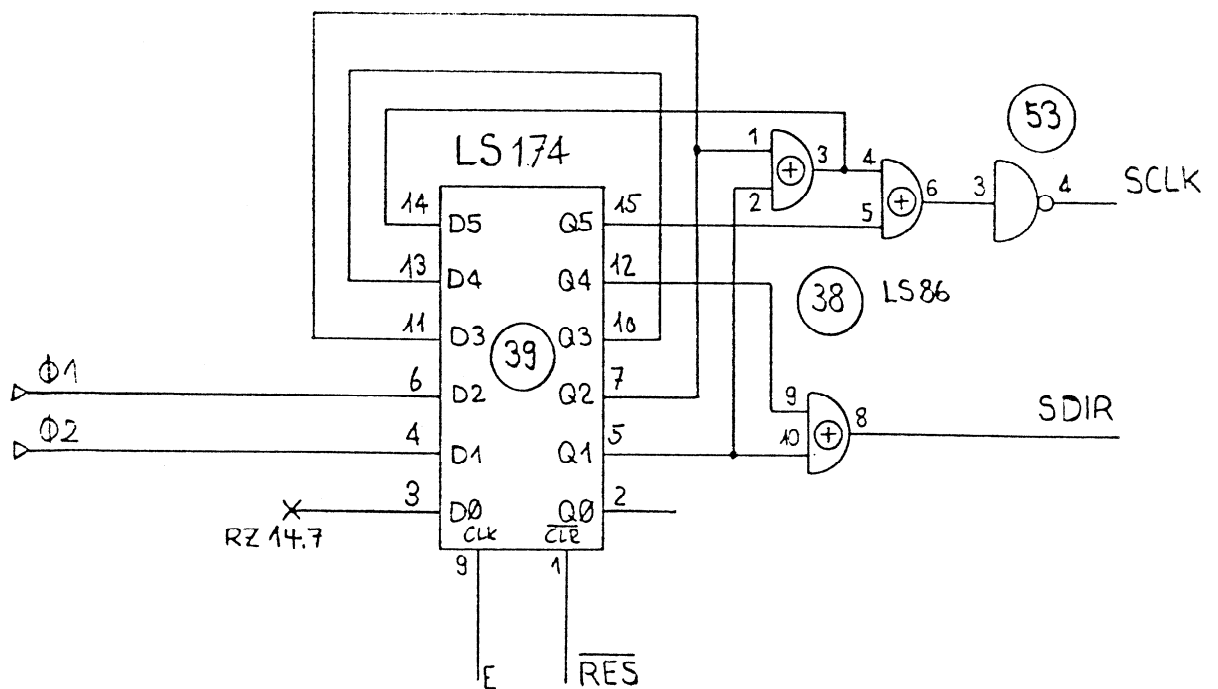
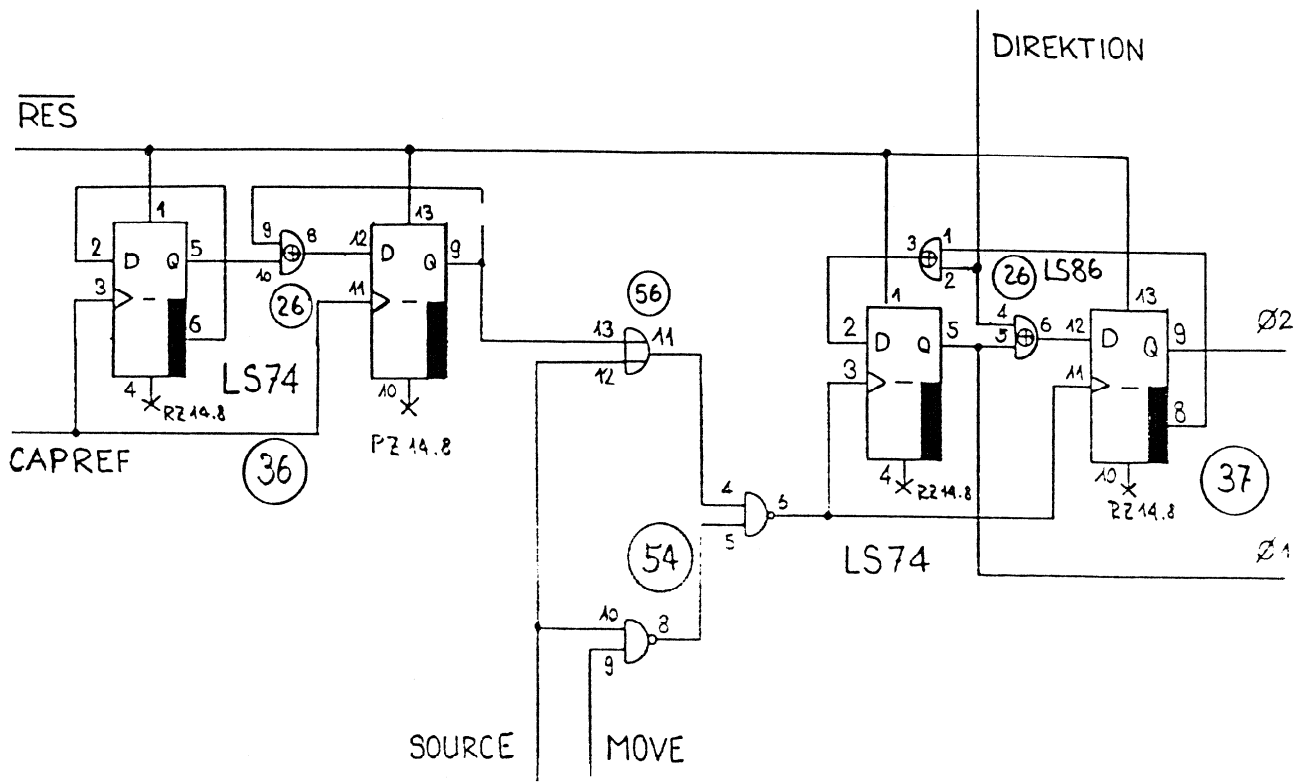
DL1 DL2



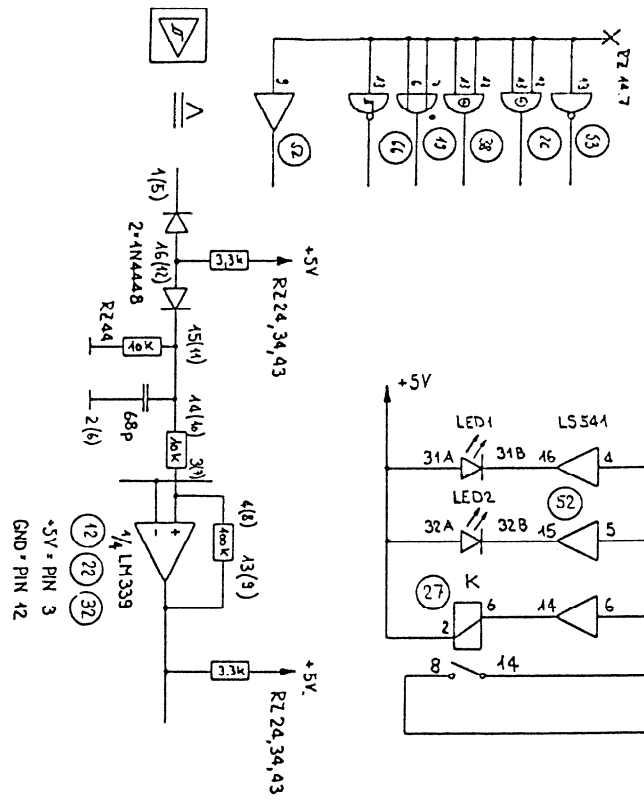
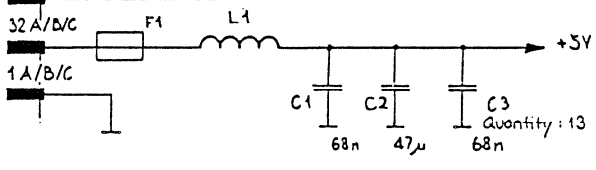
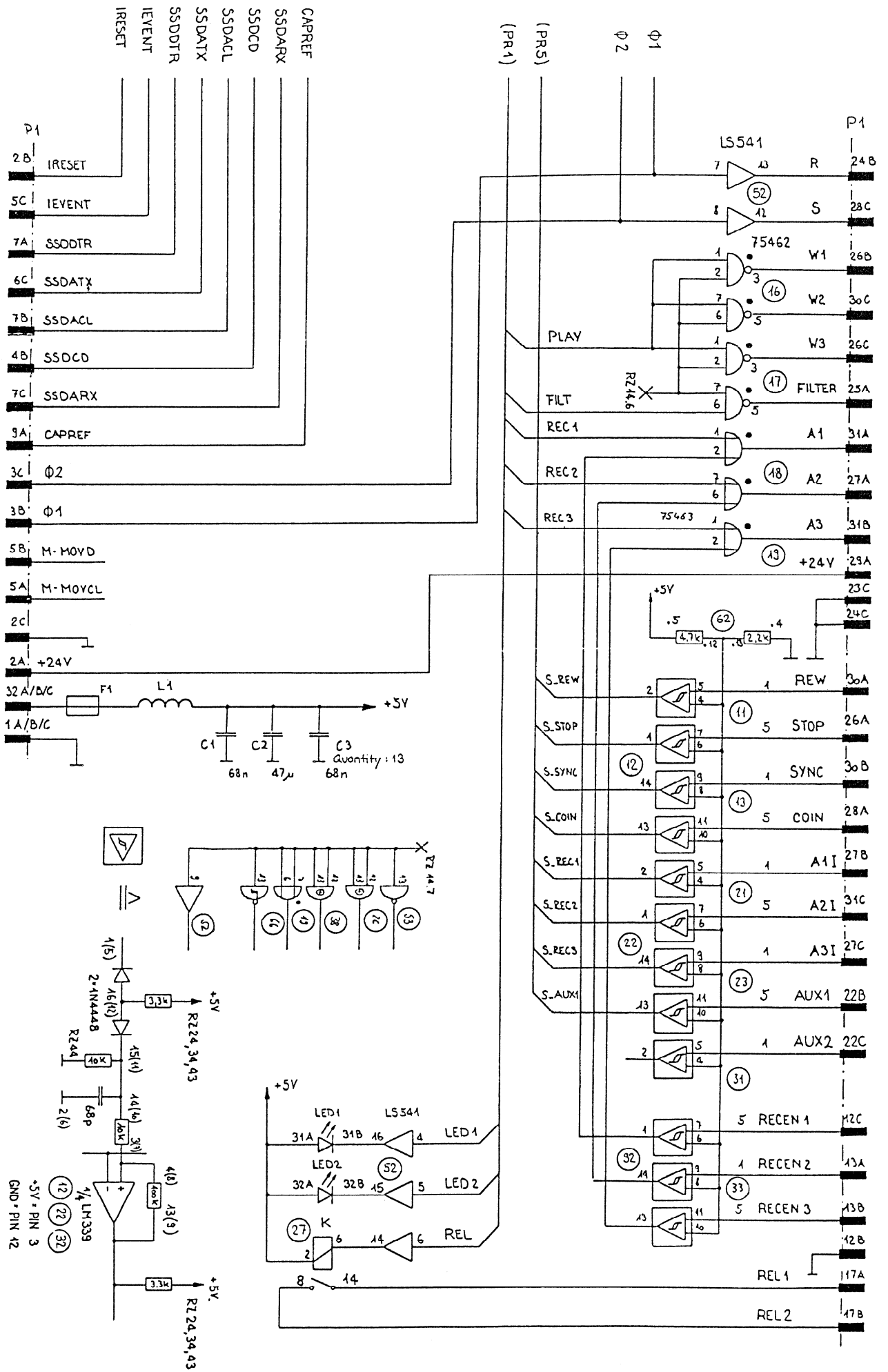
- |   |   |   |
|---|---|---|
|   |   | after initialisation                                      |
| - | - | no ERROR  |
| - | * | EPR0M error   |
| * | - | RAM error   |
| * | * | SSDA error (serial I/O) defectiv                          |
|   |   | during operation  |
| - | - | no error  |
| - | * | coincidence not achieved                                  |
| * | - | no communication between interface and machine            |
| * | * | no communication between interface and synchronizer board |



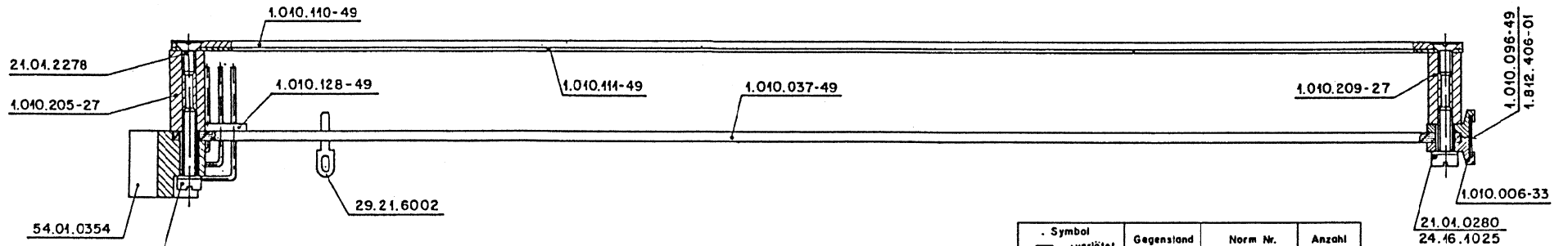
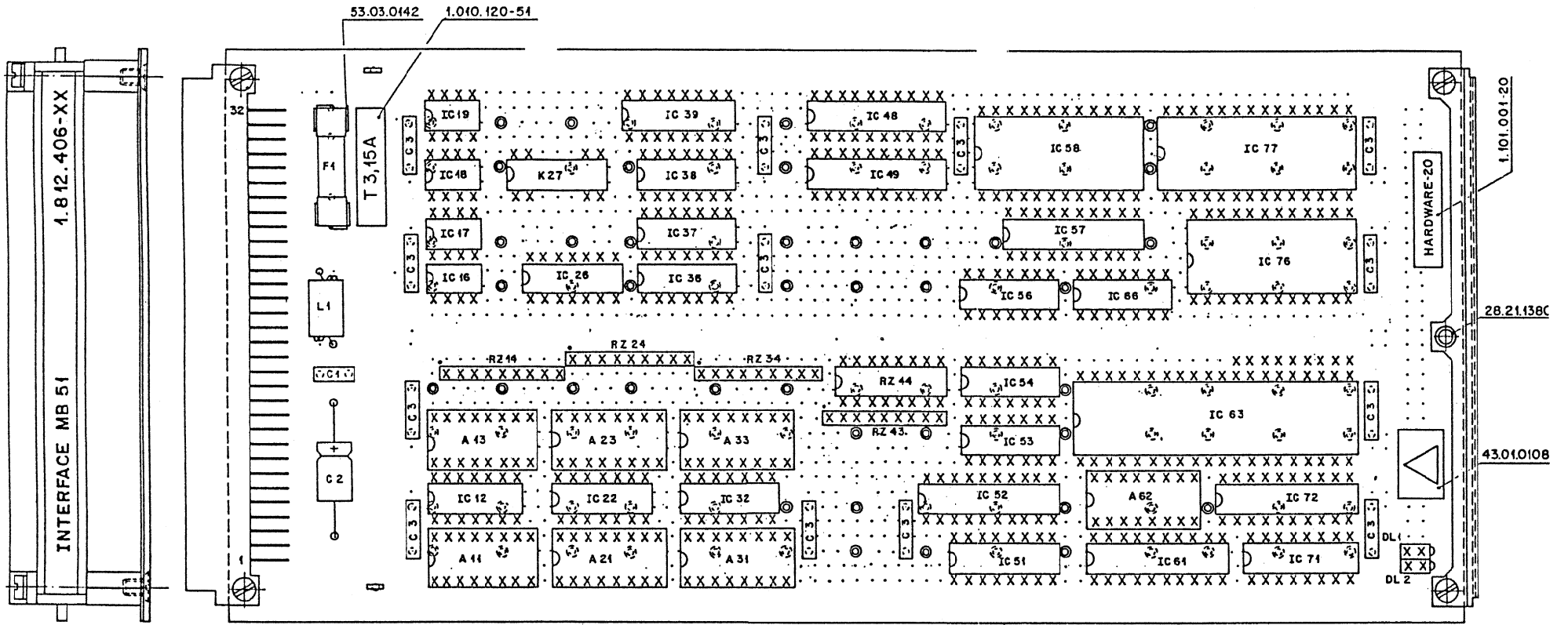
0 22.10.85	KS	1 1.11.86	SC			
	KS	TLS 4000 MK2			PAGE 1 OF 3	
STUDER		INTERFACE MB 51		'ESE'   SC   1.812.406.20		



① 22.10.85	KS	① 2.11.86	SC	○ ..	○ ..	○ ..
	KS	TLS 4000 MKJ				PAGE 2 OF 3
STUDER		INTERFACE MB 51		'ESE'	SC	1.812.406.20



22.10.85  
 KS 1.11.11 SC  
 TLS 4000 MK2  
 INTERFACE MB 51  
 'ESE' SC 1.812.406.20  
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Symbol	- Symbol		Gegenstand	Norm Nr.	Anzahl
	verboten	verboten			
●	⊗		Front Pin	1.010.027-54	
X	○		Kontakt Pin	1.010.028-54	655
○	⊙		Dummy Pin	1.010.029-54	112
Norm-Nr.		Gute.		Angelegen	
DIN-Bez.		Oberricht.			
Abmessung		Beh.			
Zugehörige Unterlagen:			Freisetzeranz	Maßstab:	12.11.85 A.Ho. K.S. <i>KS</i>
PL				2:1	
Ersatz für:			Ersetzt durch:		Kopie für:
STUDER NEGENSDORF ZÜRICH		ESE INTERFACE MB 51			Nummer 1.812.406-00

INC.	PCS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
A....11		1.812.208.00		Assembly 406-11	St
A....13		1.812.208.00		Assembly 406-11	St
A....21		1.812.208.00		Assembly 406-11	St
A....23		1.812.208.00		Assembly 406-11	St
A....31		1.812.208.00		Assembly 406-11	St
A....33		1.812.208.00		Assembly 406-11	St
A....62		1.812.209.00		Assembly 406-62	St
C.....1		59.99.0205	68 nF	-20%, 63V, CER	
C.....2		59.25.3470	47 uF	-10%, 16V, EL	
C.....3		59.99.1200	C.068 uF	10%, 100V, MPETP	Quantity: 13
DL....1		50.04.2107		LED red, 555-2007	Di
DL....2		50.04.2107		LED red, 555-2007	Di
F.....1		51.01.0122	3.15AT	250V, 5 * 20	
IC...12		50.11.0104		LM 339 AN, uA 339	,A
IC...16		50.05.0227		SN 75 462 P	
IC...17		50.05.0227		SN 75 462 P	
IC...18		50.05.0203		SN 75 463 P	
IC...19		50.05.0203		SN 75 463 P	
IC...22		50.11.0104		LM 339 AN, uA 339	,A
IC...26		50.06.0086		SN 74 LS 86 N	
IC...32		50.11.0104		LM 339 AN, uA 339	,A
IC...36		50.06.0074		SN 74 LS 74 N	
IC...37		50.06.0074		SN 74 LS 74 N	
IC...38		50.06.0086		SN 74 LS 86 N	
IC...39		50.06.0174		SN 74 LS 174 N	
IC...48		50.06.0699		SN 74 LS 699 N	
IC...49		50.06.0699		SN 74 LS 699 N	
IC...51		50.06.0163		SN 74 LS 163 AN	
IC...52		50.06.0541		SN 74 LS 541 N	
IC...53		50.06.0004		SN 74 LS 04 N	
IC...54		50.06.0000		SN 74 LS 00 N	
IC...56		50.06.0032		SN 74 LS 32 N	
IC...57		50.06.0540		SN 74 LS 540 N	



IND.	PCS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	IC...58	50.14.0107		HM 6116 LP-4, MSM 5128-15	,A HI,OKI
	IC...61	50.06.1573		SN 74ALS 573 N	
	IC...63	50.16.0107		MC 6803P-1, HD 6803P-1	,A Mot,Hi
	IC...66	50.06.0014		SN 74 LS 14 N	
	IC...71	50.06.0139		SN 74 LS 139 N	
	IC...72	50.06.0645		SN 74 LS 645 N	
	IC...76	50.16.0114		MC 68A52, HD68A52	,A Mot,Hi
	IC...77	50.14.0113	see note	D 2764-3, HN 482764 G-3	,A It,Hi
	K....27	56.02.1003	5 V 1*A	100V/0.5A, PrintRelay	
	L.....1	62.01.0115		Wide Band HF-Choke	
	P.....1	54.01.0354		Card Connector 3 * 32 Euro Wrap	
	RZ...14	57.88.4332	8 *3.3K	5%, Single Line	
	RZ...24	57.88.4332	8 *3.3K	5%, Single Line	
	RZ...34	57.88.4332	8 *3.3K	5%, Single Line	
	RZ...43	57.88.4332	8 *3.3K	5%, Single Line	
	RZ...44	57.85.3103	15*10K	5%, DIL16	

Note : Software release 1.812.953.21 (IC 77)

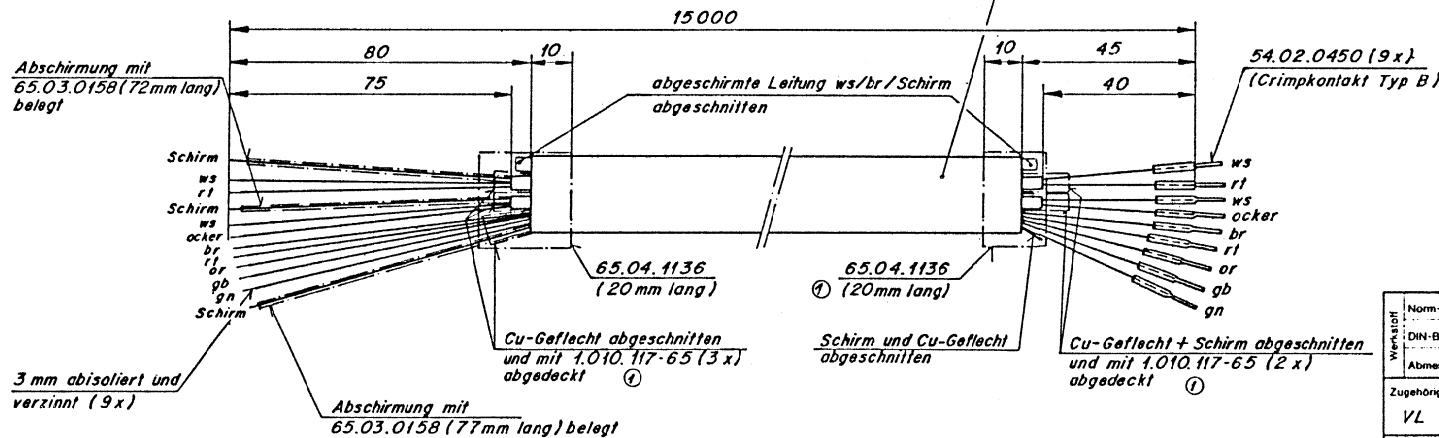
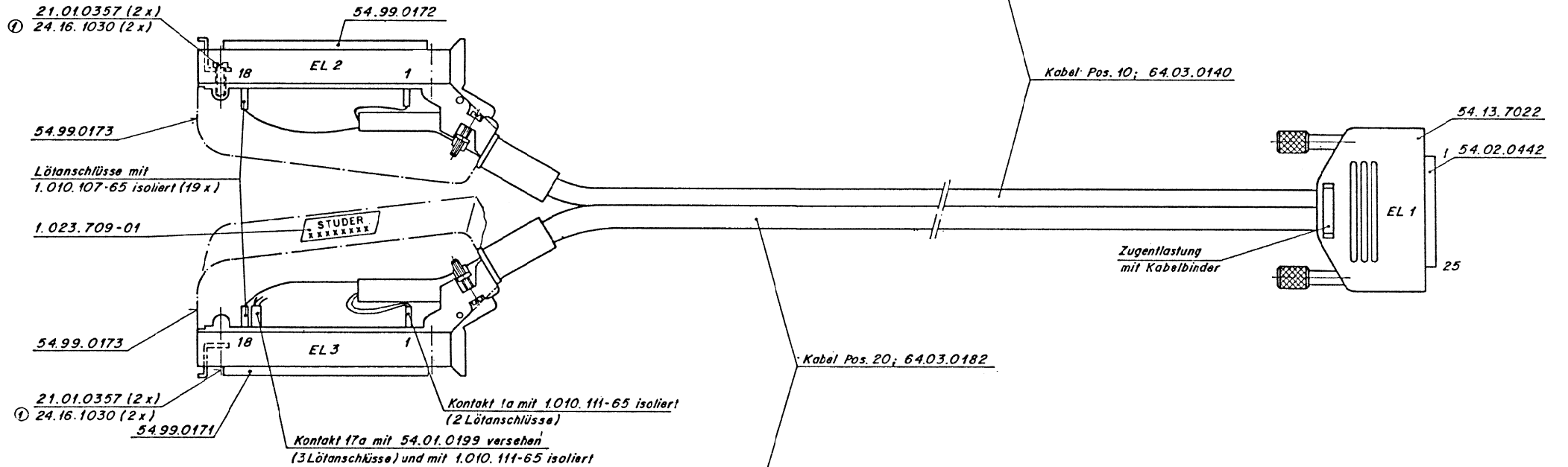
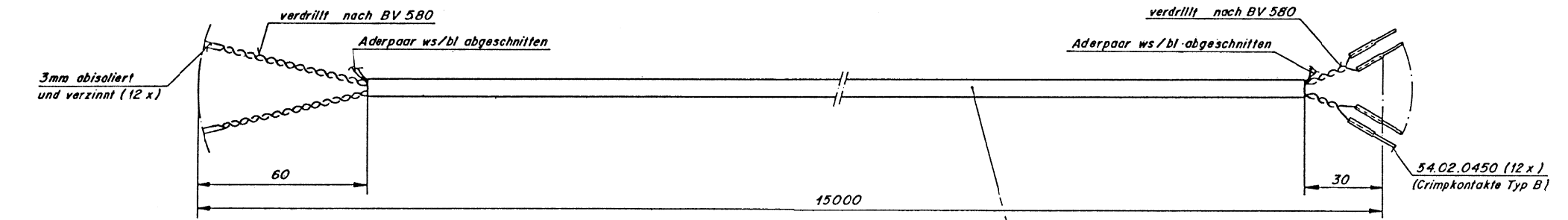
CER = Ceramic, EL = Electrolytic, MPETP = Met. Polyester

MANUFACTURERS : Di=Dialco, Ph=Philips, St=Studer, Mot=Motorola  
Hi=Hitachi, It=Intel, CKI=OKI Semiconductor

ORIG 86/10/31

S T U D E R (00) 86/10/31 SC INTERFACE MB51

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Werkstoff	Norm-Nr.:	Güte:	Änderung
	DIN-Bez.:		
Abmessung:	Abmessung:	Oberfläche:	13.12.85 A.Ho. ①
	Zugehörige Unterlagen:		Beh.:
Ersatz für:	VL	Freemasstoleranz:	28.8.85 A.Ho. ②
			Maßstab:
Ersatz durch:		Ausgabe:	Datum
			Gez. Gepr. Ges. Index
STUDER REGENSDORF ZÜRICH		Benennung: IF-Kabel MB51, 15m	
		Nummer: 1.023.709-00	

UEBERFLUESSIGE ADERN ABSCHNEIDEN  
 KABEL POS. 10: ADERN VERDRILLEN NACH BV 580 : 10-20;30-40;50-60;70-80;  
 90-100;110-120

KABEL POS. 20: (&K1) SCHUTZSCHIRME AM KABELLENDE ABSCHNEIDEN  
 SCREEN POS. 10 ZU ADERN 20,30,40,50,60  
 SCREEN POS. 70 ZU ADERN 80,90  
 SCREEN POS.100 ZU ADERN 110,120

MOD IDX	BAUTEIL NR.	POS/A. NR.	FARBE	SIGNAL NAME	-- A N F A N G --				--- A N Z A P F U N G ---				----- E N D E -----				BEW			
					TYP	VERDRAHTUNGSORT	LAENGE	TYP	VERDRAHTUNGSORT	LAENGE	TYP	VERDRAHTUNGSORT	LAENGE	TYP	VERDRAHTUNGSORT	LAENGE				
					AS	GR	EL	PT	ANFANG	AS	GR	EL	PT	TOTAL	AS	GR	EL	PT		
	1.023.709.00	0010												15000						
		0060	OR	W3	SN3	00	00	02	04A						B	00	00	01	10	
		0050	WS	W2	SN3	00	00	02	05A						B	00	00	01	22	
		0040	OR	W1	SN3	00	00	02	06A						B	00	00	01	09	
		0090	WS	A3	SN3	00	00	02	08A						B	00	00	01	24	
		0120	GR	A3I	SN3	00	00	02	08C						B	00	00	01	13	
		0080	BR	A2	SN3	00	00	02	09A						B	00	00	01	11	
		0110	WS	A2I	SN3	00	00	02	09C						B	00	00	01	25	
		0070	WS	A1	SN3	00	00	02	10A						B	00	00	01	23	
		0100	GN	A1I	SN3	00	00	02	10C						B	00	00	01	12	
		0030	RT	SYNCHRON	SN3	00	00	02	13C						B	00	00	01	21	
		0020	BL	STOP	SN3	00	00	02	17C						B	00	00	01	08	
		0010	RT	REWIND	SN3	00	00	02	18C						B	00	00	01	20	
	1.023.709.00	0020												15000						
		0010	SC	SCREEN	SN3	00	00	03	01A							00	00	00	00	&K1
		0020	BR	OV	SN3	00	00	03	01A						B	00	00	01	01	
		0030	RT	+24V	SN3	00	00	03	01C						B	00	00	01	17	
		0050	GB	COIN	SN3	00	00	03	06C						B	00	00	01	14	
		0110	OCKER	RI	SN3	00	00	03	13A						B	00	00	01	02	
		0120	WS	SI	SN3	00	00	03	13C						B	00	00	01	15	
		0040	OR	FILTER	SN3	00	00	03	15B						B	00	00	01	05	
		0060	GN	OV	SN3	00	00	03	17A						B	00	00	01	04	
		0070	SC	SCREEN	SN3	00	00	03	17A							00	00	00	00	&K1
		0100	SC	SCREEN	SN3	00	00	03	17A							00	00	00	00	&K1
		0090	WS	S	SN3	00	00	03	18A						B	00	00	01	16	
		0080	RT	R	SN3	00	00	03	18B						B	00	00	01	03	