

# TLS 4000 MK II Interface A810

10.27.1150

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## PIN ASSIGNMENT OF SLAVE REMOTE CONNECTORS A AND B

SLAVE REMOTE CONNECTOR A :

PIN	SIGNAL NAME	FUNCTION	SIGNALTYPE
1	GND	Ground	0.0V
2	TA	Transmit Data RS422	
3	TB	Transmit Data RS 232/422	
4	GND	Ground	0.0V
5	GND	Ground	0.0V
6			
7			
8	FAD 1	Slave Faderstart 1	
9	FAD 2	Slave Faderstart 2	
10			
11	MOVDIR	Move Direction	Switch IN
12	MOVCL	Move Clock	Switch IN
13			
14			
15			
16			
17			
18	CAPCL	Capstan Clock	OC.out
19	GND	Ground	0.0V
20	CAPEU	Capstan Enable	OC.out
21			
22	RA	Receive Data RS 232/422	
23	RB	Receive Data RS 422	
24	GND	Ground	0.0V
25	REMON+	Remote Power On	+24V

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

SWITCH IN = open collector or  
switch driving to  
ground

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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	Record enable signal	SWITCH IN
3	AUX 1	Auxilliary Input 1	Switch in
4	BVRSPD	Varispeed Enable Bulb	OC.out
5	VSRSPD	External Varispeed Enable SW	Switch in
6	REL 1	Relais contact 1	
7	REL 2	Relais contact 2	
8	AUX 2	Auxilliary Input 2	Switch in
9	FAD 1	Fader 1	
10	FAD 2	Fader 2	
11			
12	SREHSL	Rehearse switch	Switch in
13	REFIN	External Varispeed Reference	Switch in
14			
15	BREHSL	Rehearse Bulb (status)	OC.out.
16			
17			
18			
19			
20			
21	MVCL	Move Clock (8Hz nom.)	OC.out
22			
23			
24	MVDR	Move Direction	OC.out
25	+24V		

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

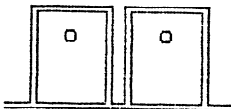
SWITCH IN = open collector or switch driving to ground

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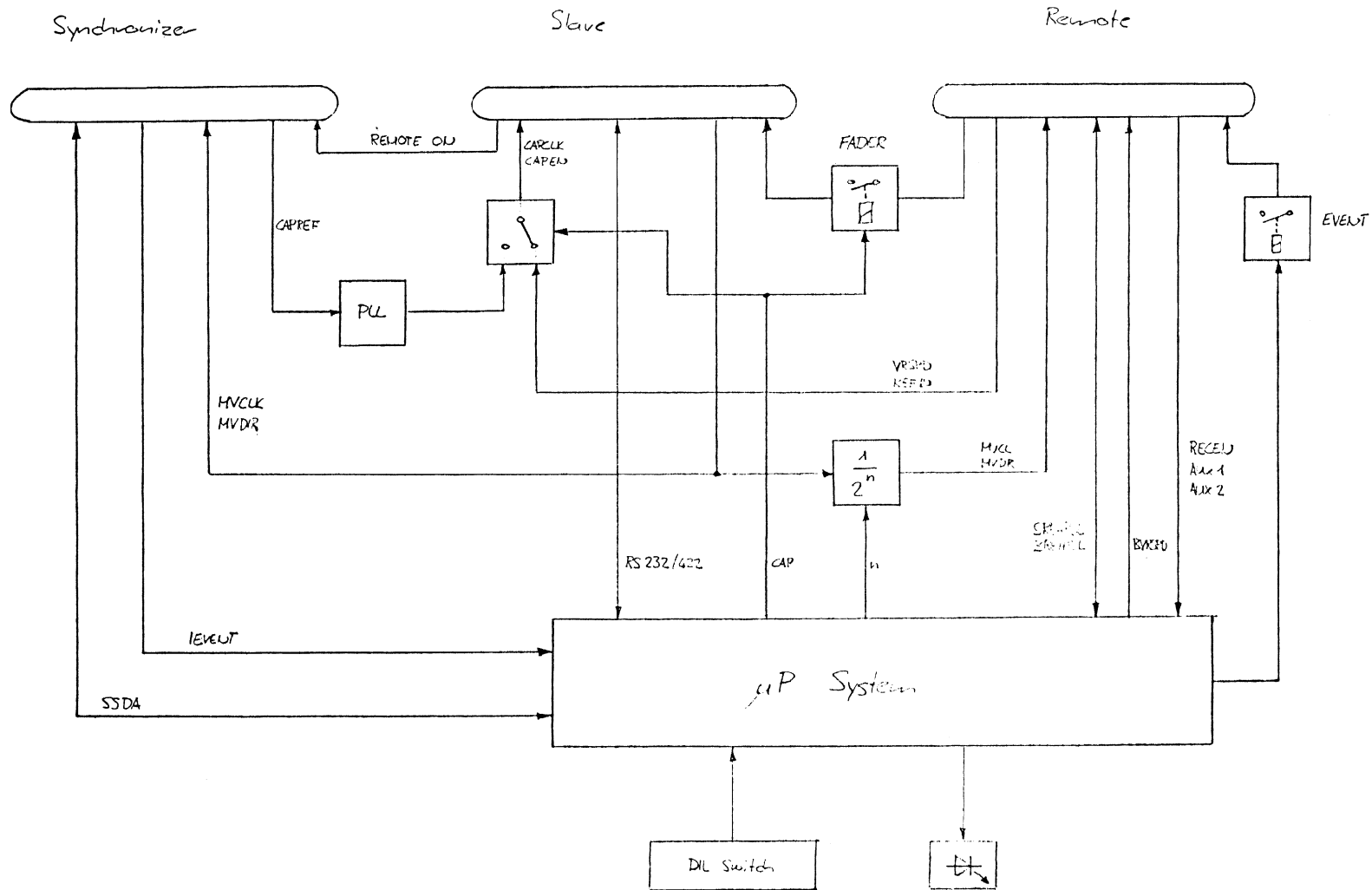
STATUS DISPLAYS ON THE INTERFACE

The two LED's on the interface **A810MKII** PCB serve as status indicators and for diagnosing possible problems.

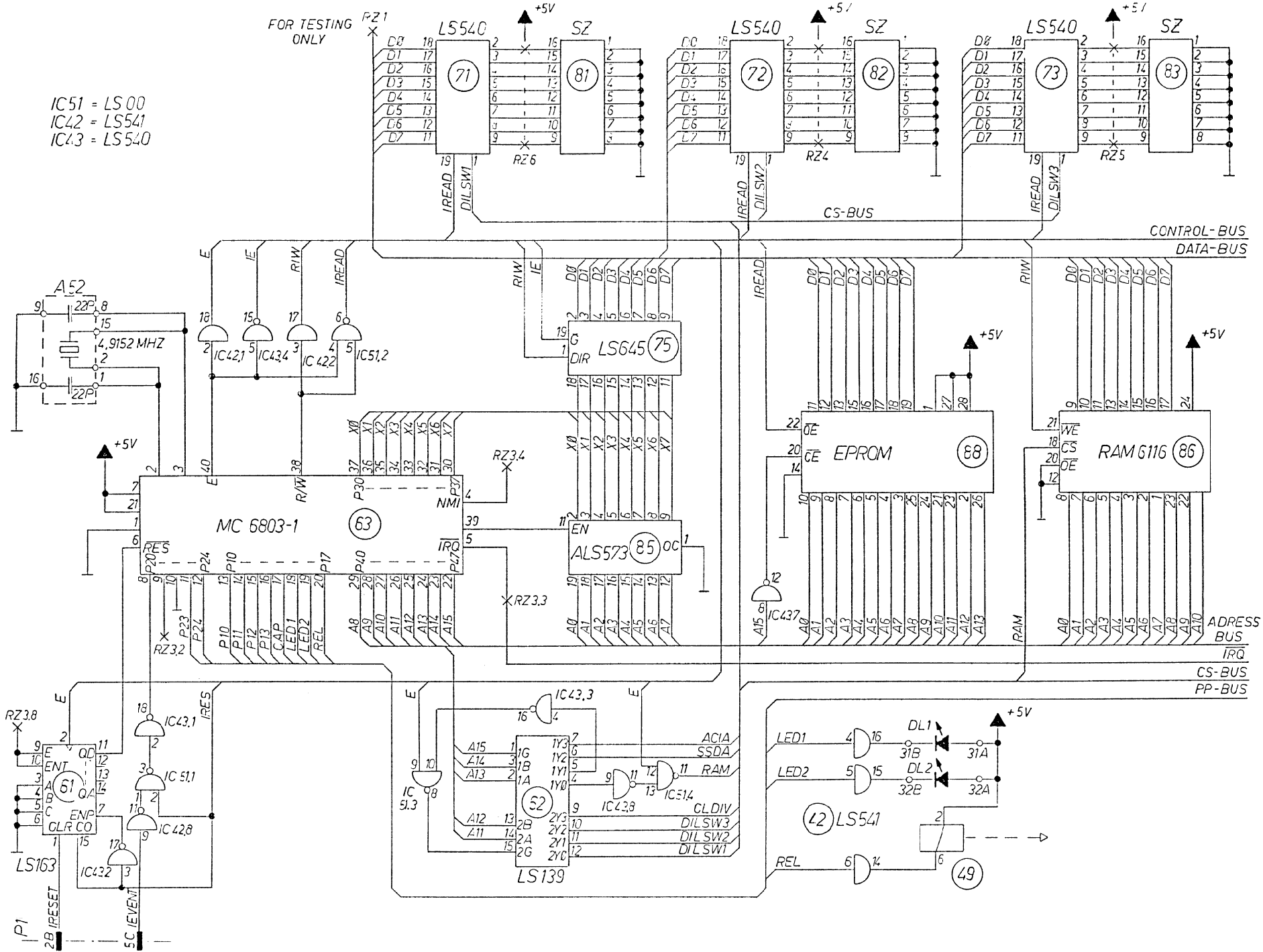
DL1 DL2

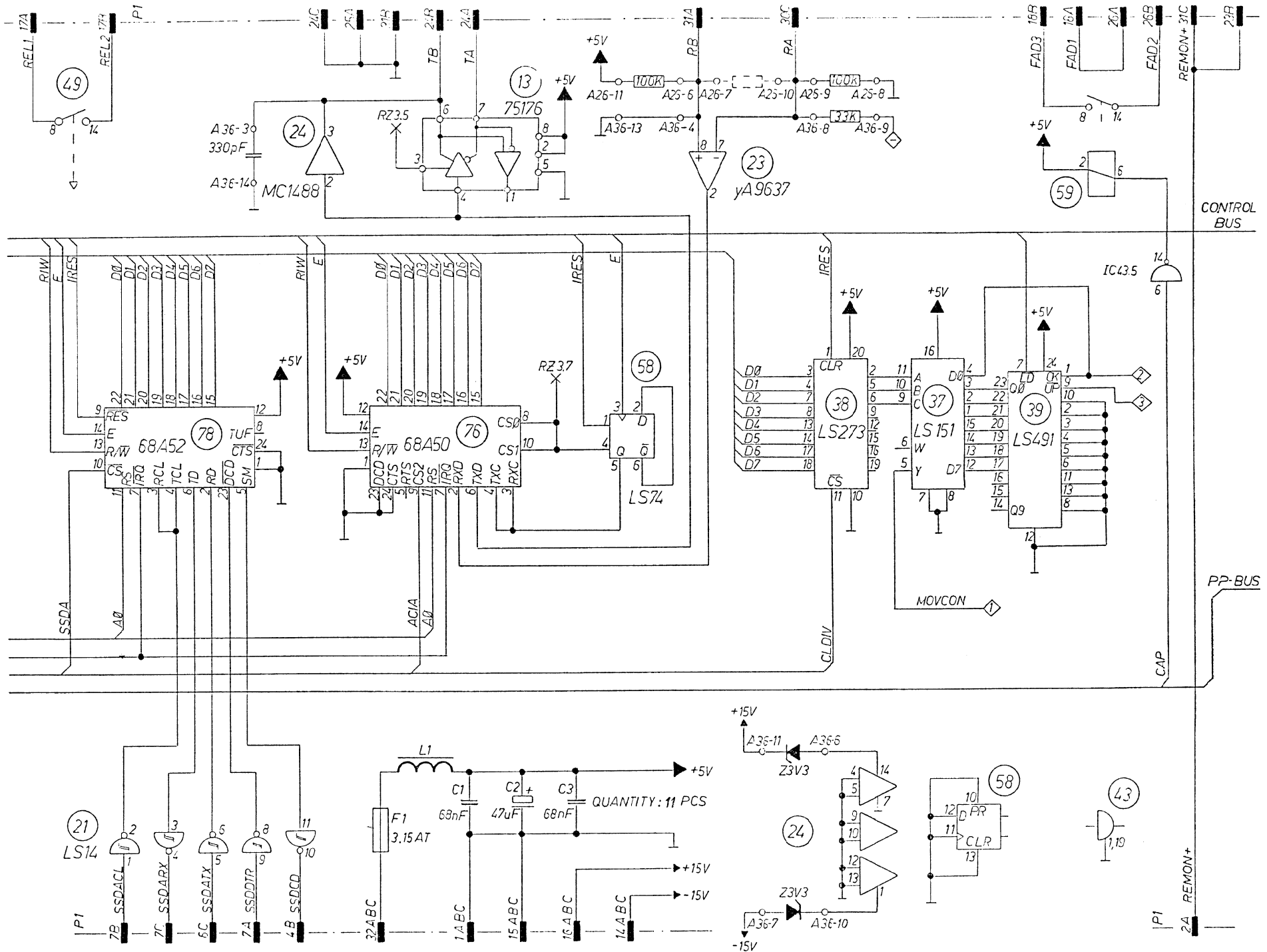


- |   |   |   |
|---|---|---|
|   |   | after initialisation                                      |
| - | - | no ERROR  |
| - | * | EPROM error   |
| * | - | RAM error   |
| * | * | SSDA error (serial I/O) defectiv                          |
|   |   | during operation  |
| - | - | no error  |
| - | * |   |
| * | - | no communication between interface and machine            |
| * | * | no communication between interface and synchronizer board |

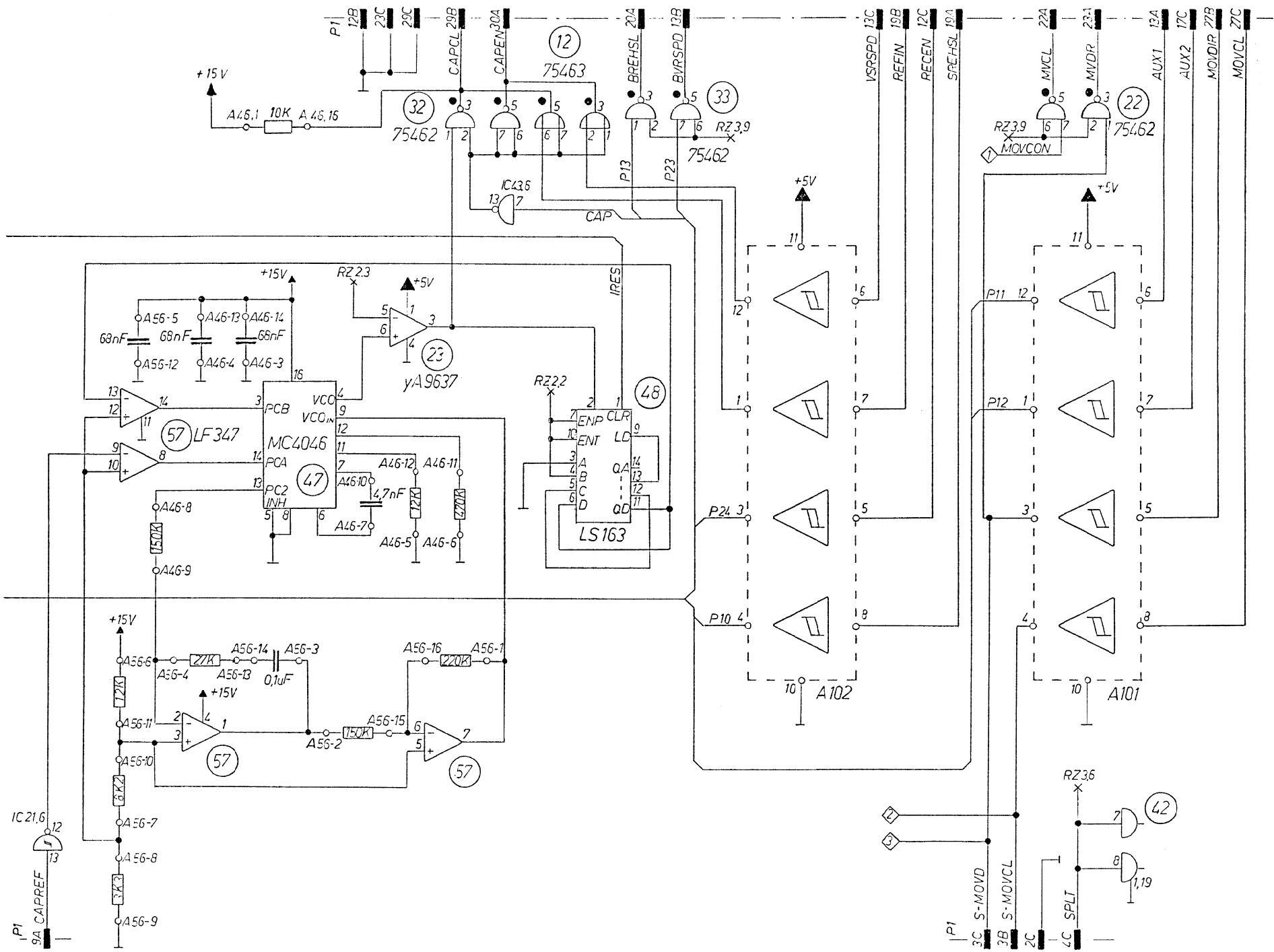


IC51 = LS00  
 IC42 = LS541  
 IC43 = LS540

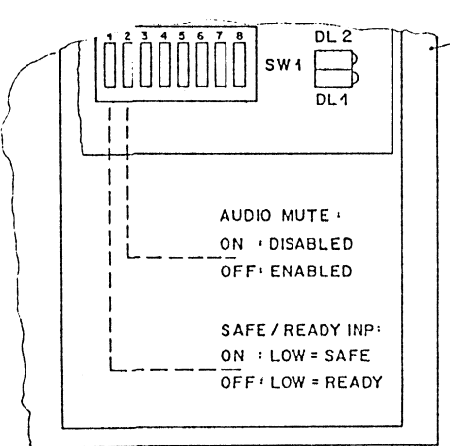
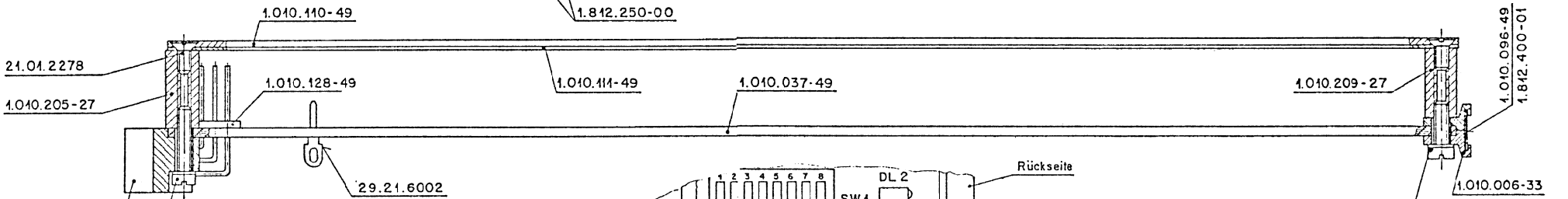
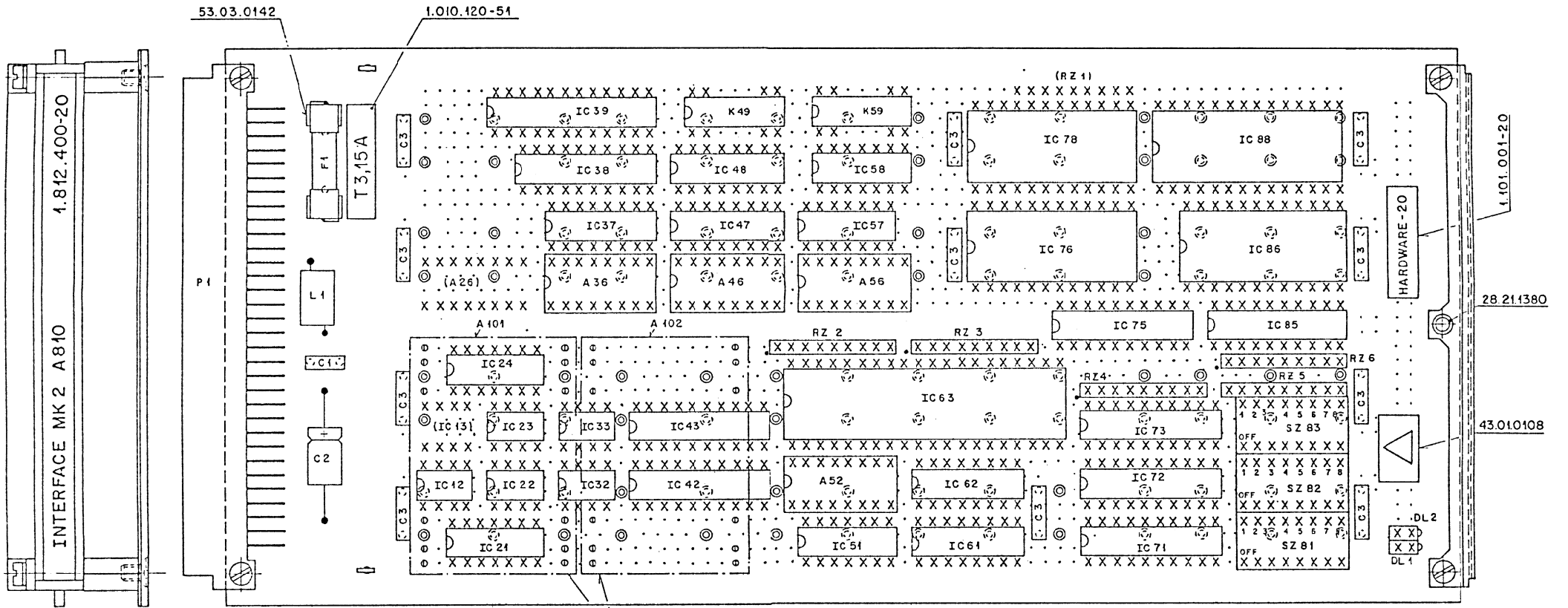




STUDER



STUDER



Symbol	verlötet	Gegenstand	Norm Nr.	Anzahl
⊙	⊙	Front Pin	1.010.027-54	24
X	○	Kontakt Pin	1.010.028-54	720
○	⊙	Dummy Pin	1.010.029-54	112

Werkstoff:	Norm-Nr.:	Orientierung:	Güte:	Änderung:	③
	DIN-Nr.:		Beh.:		②
	Abmessung:				①
Zugehörige Unterlagen:	Freuasstoleranz:	Maßstab:		15.9.87 A.Ho. KS	⊙
PL	+	2:1		Datum	Gez. Gepr. Ges. Index
Ersatz für:	Ersetzt durch:	Kopie für:			
Brennung: STUDEF REGENSDORF ZÜRICH		Bezeichnung: INTERFACE MK 2 A 810 ESE		Nummer: 1.842.400-20	



IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	A....26			not used	
	A....36	1.812.223.00		Assembly 400-26	St
	A....46	1.812.213.00		Assembly 400-46	St
	A....52	1.812.201.00		Assembly 120-52	St
	A....56	1.812.203.00		Assembly 120-35	St
	A...101	1.812.250.00		Input Network	St
	A...102	1.812.250.00		Input Network	St
	C....01	59.99.0205	68 nF	-20%, 63V , CER	
	C....02	59.25.3470	47 uF	-20%, 16V , EL	
	C....03	59.99.1200	68 nF	20%, 63V , PET Quantity: 11	
	DL...01	50.04.2107		LED red ,555-2007	Di
	DL...02	50.04.2107		LED red ,555-2007	Di
	F....01	51.01.0122	3.15 AT	250V, 5 * 20	
	IC...12	50.05.0203		SN 75 463 JG, DS 75 463	
	IC...13		not used		
	IC...21	50.06.0014		SN 74 LS 14	
	IC...22	50.05.0227		SN 75 462 JG, SN 75 472 P	
	IC...23	50.15.0114		uA 9637 ACP ,A	
	IC...24	50.15.0106		MC 1488 P, DS 1488	
	IC...32	50.05.0227		SN 75 462 JG, SN 75 472 P	
	IC...33	50.05.0227		SN 75 462 JG, SN 75 472 P	
	IC...37	50.06.0151		SN 74 LS 151	
	IC...38	50.06.0273		SN 74 LS 273	
	IC...39	50.06.0491		SN 74 LS 491	
	IC...42	50.06.0541		SN 74 LS 541	
	IC...43	50.06.0540		SN 74 LS 540	
	IC...47	50.07.0046		CD 4046 BE, MC 14046 BCP ,A	RCA,Mot
	IC...48	50.06.0163		SN 74 LS 163	
	IC...51	50.06.0000		SN 74 LS 00	
	IC...57	50.09.0104		LF 347N	NS
	IC...58	50.06.0074		SN 74 LS 74	
	IC...61	50.06.0163		SN 74 LS 163	
	IC...62	50.06.0139		SN 74 LS 139	

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	IC...63	50.16.0107		MC 6803P-1, HD 6803P-1	,A Mot,Hi
	IC...71	50.06.0540		SN 74 LS 540	
	IC...72	50.06.0540		SN 74 LS 540	
	IC...73	50.06.0540		SN 74 LS 540	
	IC...75	50.06.0645		SN 74 LS 645	
	IC...76	50.16.0101		MC 68A50 P, S 68A50	,A Mot,AMI
	IC...78	50.16.0114		MC 68A52 P, S 68A52	,A Mot,Hi,AMI
	IC...85	50.06.1573		SN 74ALS 573	TI
	IC...86	50.14.0107		HM 6116 LP-4, MSM 5128-15	,A Hi,OKI
	IC...88	50.14.0125	see note	HM 4827128 G-25, MBM 27 128-30	Hi,It,Fuj
	K....49	56.02.1003	5 V 1*A	100V/0.5A, Print	
	K....59	56.02.1003	5 V 1*A	100V/0.5A, Print	
	L....01	62.01.0115		Wide Band HF-Choke	
	P....01	54.01.0354		Card Connector 3 * 32 Euro Wrap	
	RZ...02	57.88.4332	8 * 3.3K	2%, Single Line	
	RZ...03	57.88.4332	8 * 3.3K	2%, Single Line	
	RZ...04	57.88.4332	8 * 3.3K	2%, Single Line	
	RZ...05	57.88.4332	8 * 3.3K	2%, Single Line	
	RZ...06	57.88.4332	8 * 3.3K	2%, Single Line	
	SZ...81	55.01.0168		8 * ON, DIL-Switch	
	SZ...82	55.01.0168		8 * ON, DIL-Switch	
	SZ...83	55.01.0168		8 * ON, DIL-Switch	

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
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NOTE : Software release 1.812.950.20 (IC 88)

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

MANUFACTURERS : AMI = American Microsystem Inc.

Di = Dialco

Fuj = Fujitsu

Hi = Hitachi

It = Intel

Mot = Motorola

NS = National Semiconductors

Ph = Philips

RCA = RCA Corporation

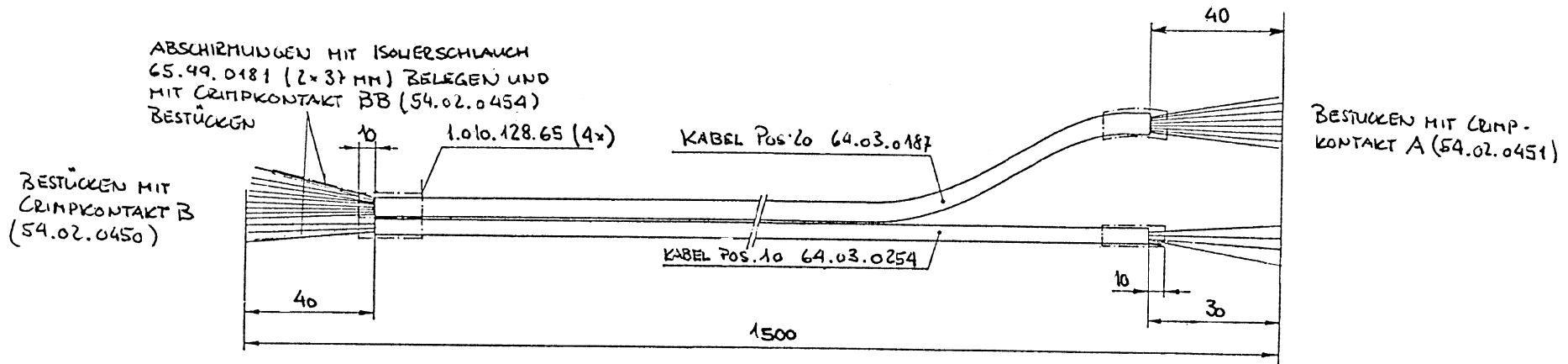
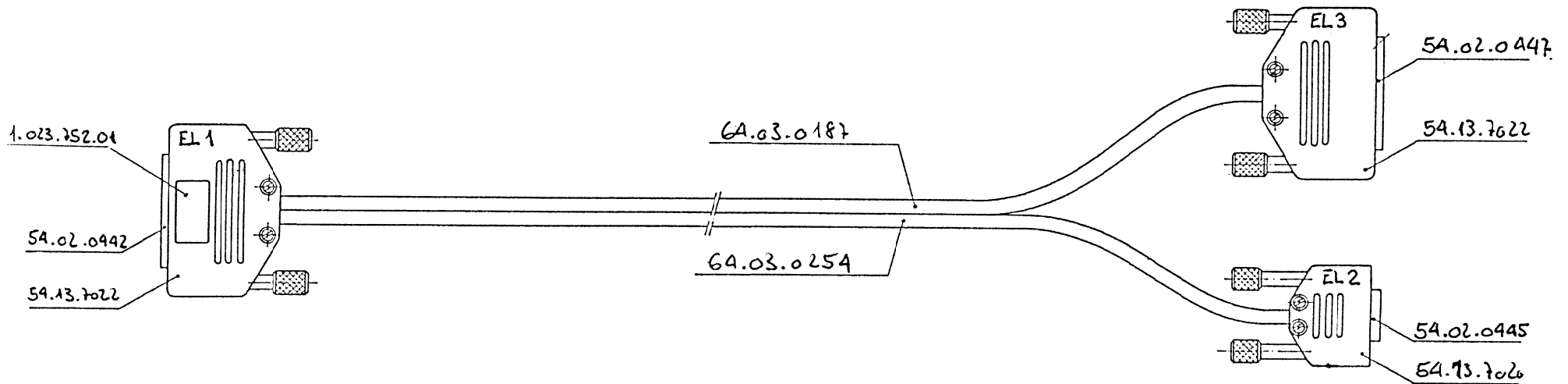
St = Studer

TI = Texas Instruments

ORIG 87/09/10

S T U D E R (00) 87/09/10 SC INTERFACE MK 2 A810

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Werkstoff	Norm-Nr.:	Oberfläche	Güte:						③	
	DIN-Bez.:		Beh.:							②
	Abmessung:									①
Zugehörige Unterlagen:		Freimasstoleranz:	Maßstab:	Ausgabe						
		±		Datum	Gez.	Gepr.	Ges.	Index	①	
Ersatz für:		Ersetzt durch:		Kopie für:						
STUDER REGENSDORF ZÜRICH		Benennung: IF KABEL STUDER MK2 1,5m		Nummer: 1.023.752.00						

PRODUKTIONS-VERDRÄHTUNGS-LISTE

\*\*\* 1.023.752.00 \*\*\*

AEND.DAT. 87/09/07-00

SFITE 1

IF-KABEL STUDER MK2

1,5M

PROC.DAT. 87/09/08 \* 15:55

TOTAL 1 SEITE

MUD 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 -----				REM		
						TYP	VERDRÄHTUNGSORT	LAENGE	TYP	VERDRÄHTUNGSORT	LAENGE	TYP	VERDRÄHTUNGSORT	LAENGE	TYP	VERDRÄHTUNGSORT	LAENGE			
						AS	GR	EL	PT	ANFANG	AS	GR	EL	PT	TOTAL	AS	GR	EL	PT	
	1.023.752.94	0020													1500					
		0010	WHITE	GND		B	00	00	01	01						A	00	00	03	01
		0070	BLUE	FAJ1		B	00	00	01	03						A	00	00	03	11
		0080	RED	FAJ2		B	00	00	01	09						A	00	00	03	12
		0050	GREY	MOVDIR		B	00	00	01	12						A	00	00	03	10
		0060	PINK	MOVCL		B	00	00	01	13						A	00	00	03	07
		0040	YEL	CAPCL		B	00	00	01	18						A	00	00	03	13
		0090	BLANK	SCREEN		BB	00	00	01	19						A	00	00	00	00
		0030	GREEN	CAPEN		B	00	00	01	20						A	00	00	03	05
		0020	BROWN	REMCN+		B	00	00	01	25						A	00	00	03	25
	1.023.752.94	0010													1500					
		0040	YEL	TA		B	00	00	01	02						A	00	00	02	03
		0020	GREEN	TR (RX)		B	00	00	01	03						A	00	00	02	08
		0060	BLANK	SCREEN		BB	00	00	01	04							00	00	00	00
		0030	GREY	GND(GND)		B	00	00	01	05						A	00	00	02	09
		0010	WHITE	RA (TX)		B	00	00	01	22						A	00	00	02	02
		0050	BROWN	RE		B	00	00	01	23						A	00	00	02	07