

10.27.0970  
1.812.420.2122

PAGE

PIN ASSIGNMENT OF SLAVE REMOTE CONNECTORS A AND B

SLAVE REMOTE CONNECTOR A :

PIN	SIGNAL NAME	FUNCTION	SIGNALTYPE
1	GND	0.0V	
2	RI	rem. biphase R	
3	R	Biphase R	TTL
4	GND	0.0V	
5			
6			
7			
8	IN 1	-	
9	OUT 2	RECORD output	OC. OUT
10	OUT 3	REHEARSE output	" "
11	OUT 4	MUTE output	" "
12	IN 2	-	
13	IN 3	-	
14	IN 4	-	
15	SI	rem. biphase S	
16	S	Biphase S	TTL
17	+5V	Rem. power on	
18	OUT 5	-	
19	+5V	Rem. power on	
20	IN 5	-	
21	IN 6	-	
22	OUT 6	-	OC. OUT
23	OUT 7	-	" "
24	OUT 8	-	" "
25	IN 7	-	

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	Record enable signal	SWITCH IN
3	Aux 1		
4	Aux 2		
5			
6	REL 1	Relais contact 1	
7	REL 2	Relais contact 2	
8			
9			
10			
11			
12			
13			
14			
15	OUT 1		OC.OUT
16			
17			
18			
19			
20			
21			
22			
23			
24			
25	+5V	REMON +	

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

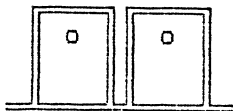
SWITCH IN = open collector or  
switch driving to  
ground

PAGE

STATUS DISPLAYS ON THE INTERFACE

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

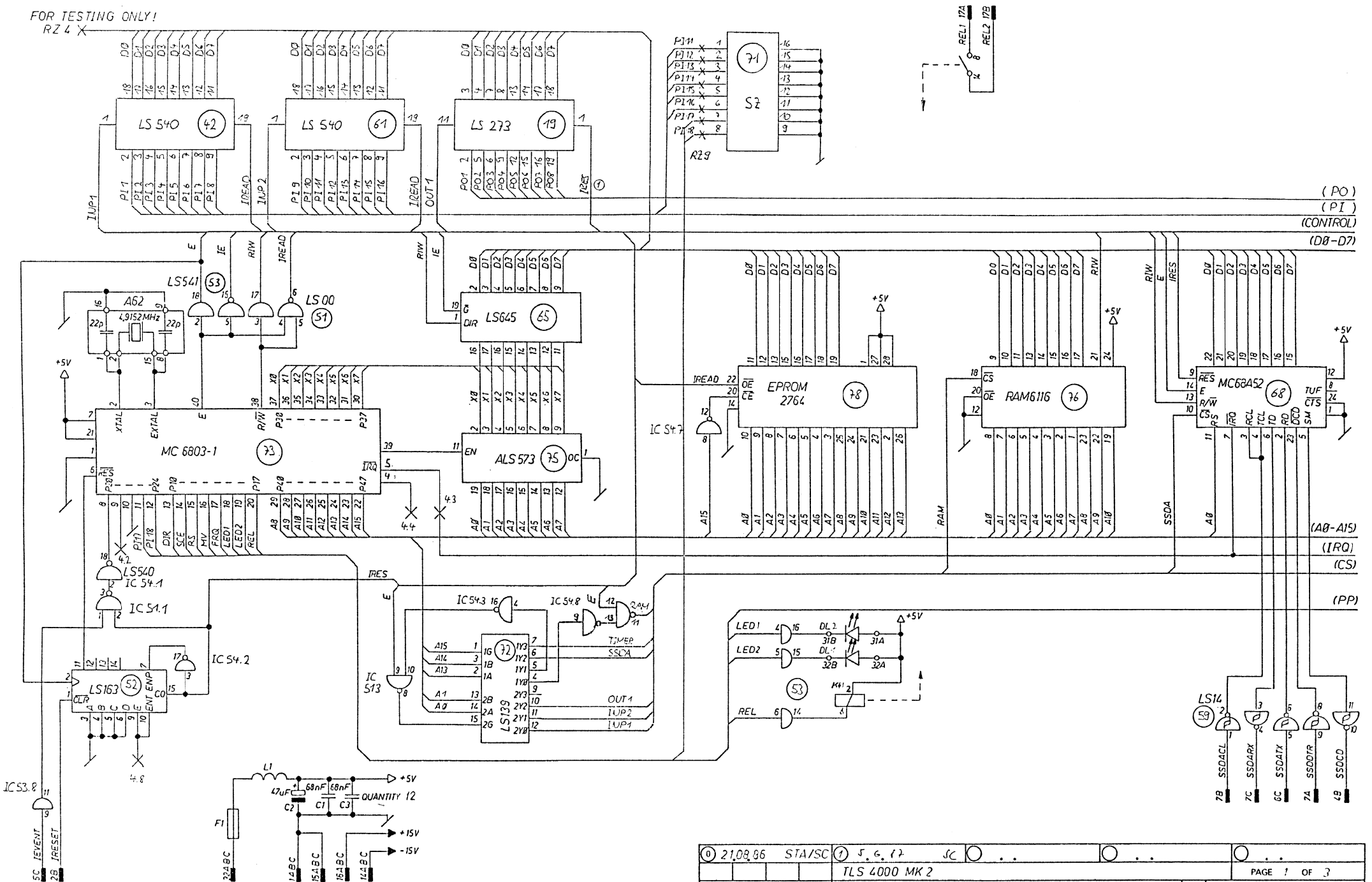
DL1 DL2



- |   |   |   |
|---|---|---|
|   |   | after initialisation                                      |
| - | - | no ERROR  |
| - | * | EPR0M error   |
| * | - | RAM error   |
| * | * | SSDA error (serial I/O) defectiv                          |
|   |   | during operation  |
| - | - | no error  |
| - | * |   |
| * | - | no communication between interface and machine            |
| * | * | no communication between interface and synchronizer board |

FOR TESTING ONLY!

RZ 4 X



① 21.08.86 STA/SC	② 5.6.87 SC	③ . . .	④ . . .	⑤ . . .
STUDER			INTERFACE SONDOR LIBRA	
ESE			SC	1.8'2. 420.20
PAGE 1 OF 3				

(CONTROL)

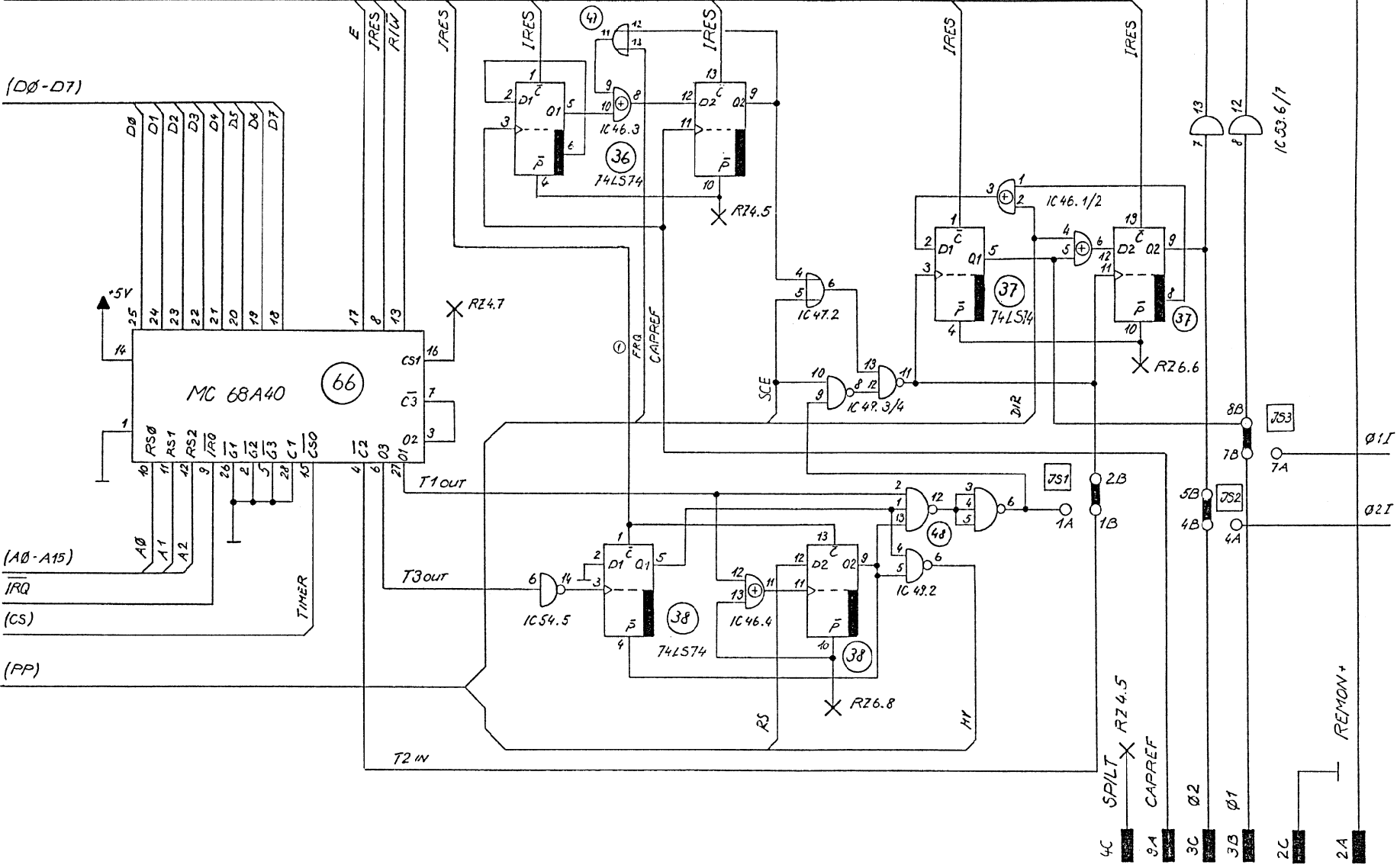
(D0-D7)

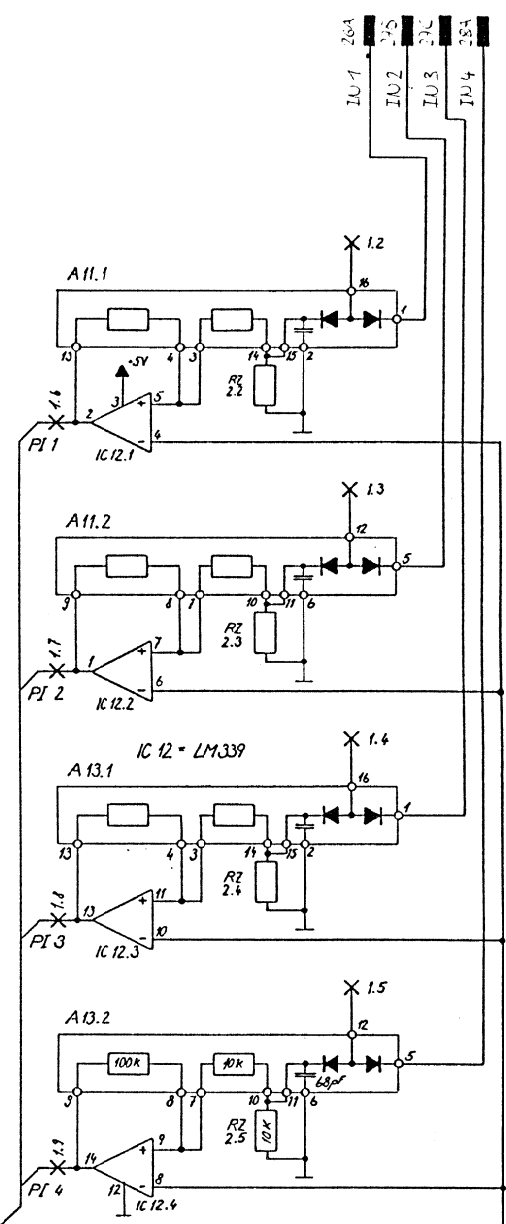
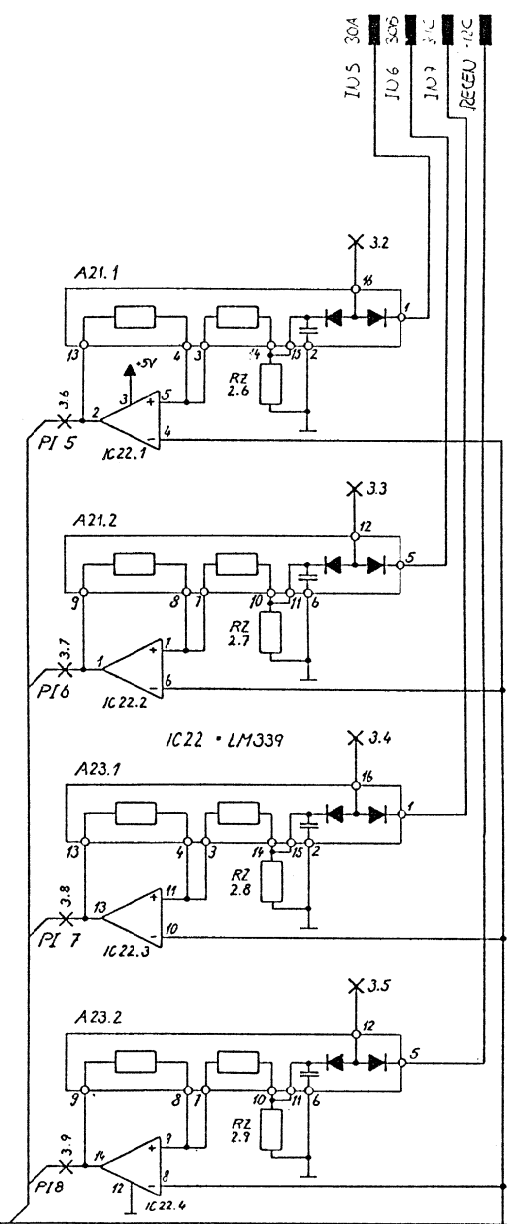
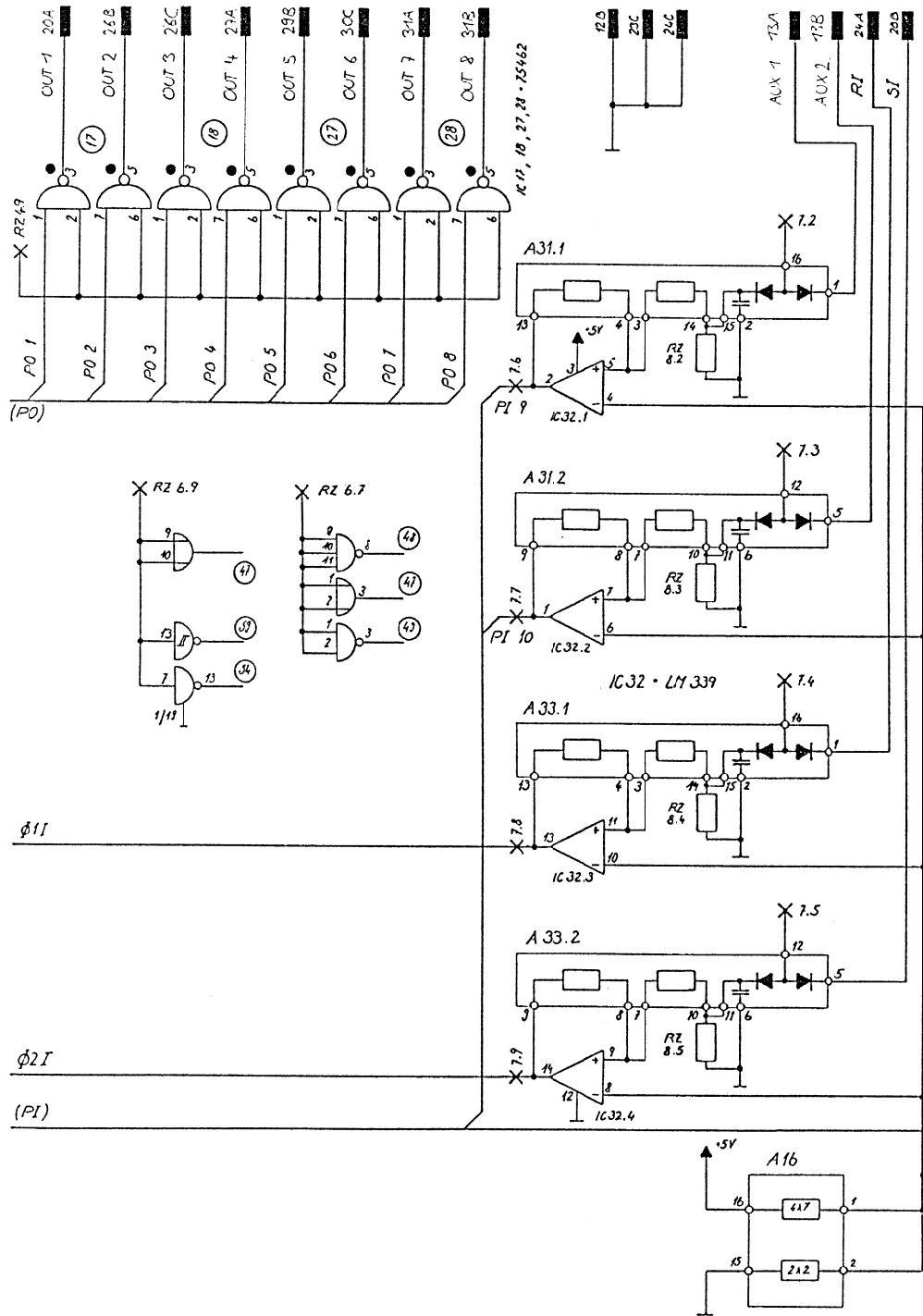
(A0-A15)

IRQ

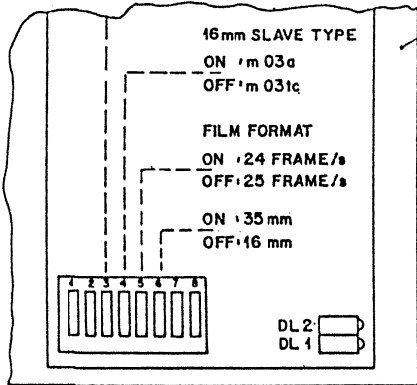
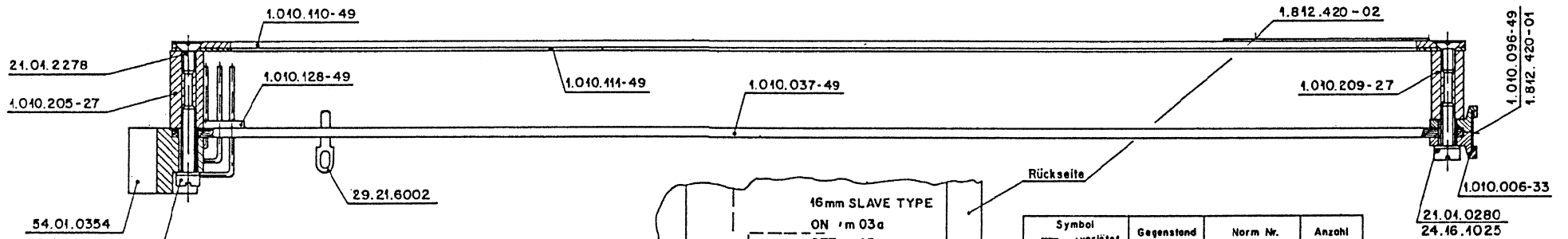
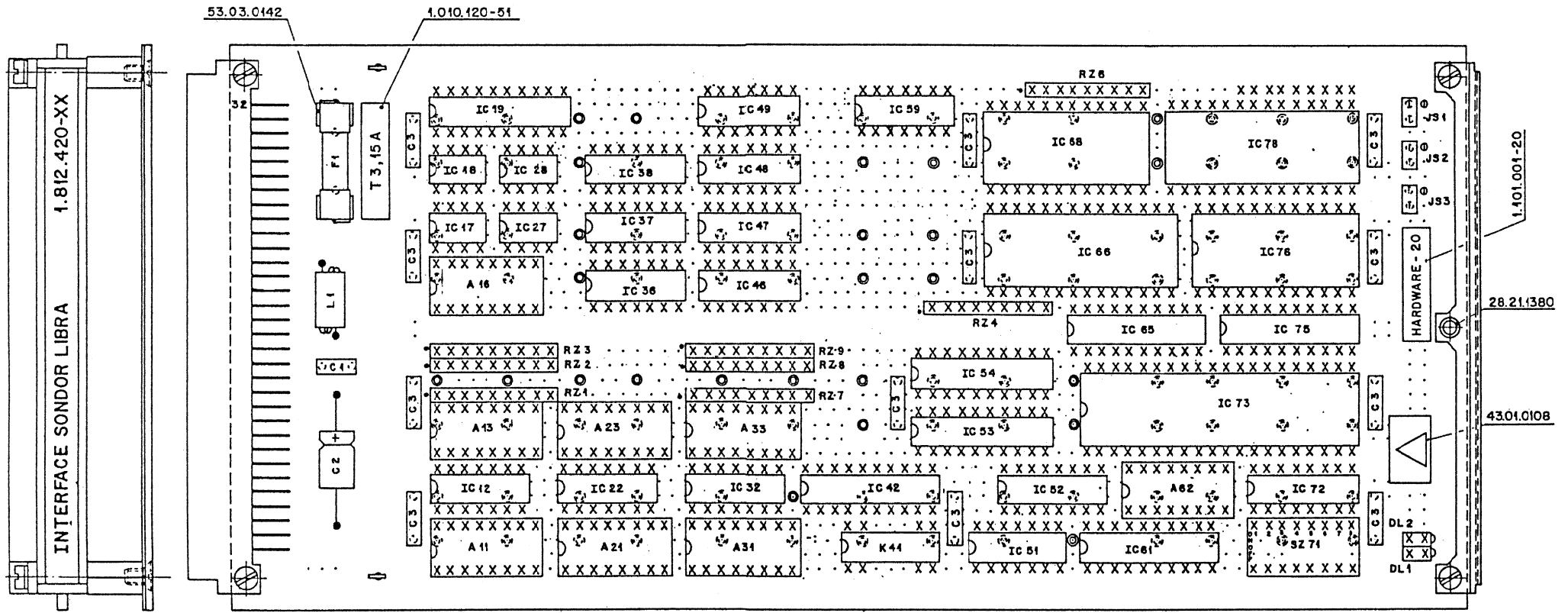
(CS)

(PP)





21.08.86	STA/SC	5.6.87	SC					
STUDIER							INTERFACE SONDOR LIBRA	ESE SC 1.012.420.20
							PAGE 3	OF 3



Symbol	verletzt	Gegenstand	Norm Nr.	Anzahl
⊙	⊗	Front Pin	1.010.027-54	9
X	o	Kontakt Pin	1.010.028-54	753
o	⊙	Dummy Pin	1.010.029-54	112

Werkstoff	Norm-Nr.	Qualität	Änderung	①
	DN-Bez.	Beh.		②
	Abmessung			③
Zugehörige Unterlagen.	Freemastoleranz:	Maßstab	5.9.86 A Ho 3	④
PL		2:1	Datum	Gez. Gepr. Ges. Index
Erstellt für	Ersetzt durch	Kopie Nr.		
STUDER REGENSDORF ZÜRICH		INTERFACE SONDOR LIBRA ESE		Nummer 1.812.420-20

IND.	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....16		1.812.217.00		Assembly 416-16	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		1.812.201.00		Assembly 120-52	St
C....01		59.99.0205	68 N	-20%, 63V, CER	
C....02		59.25.3470	47 U	-20%, 16V, EL	
C....03		59.99.1200	.068U	20%, 63V, PE	Quantity: 12
DL...01		50.04.2107		Red ; 555-2007	
DL...02		50.04.2107		Red ; 555-2007	
IC...12		50.11.0104		LM 339 N	
IC...17		50.05.0227		SN 75 472 P, SN 75 462 JG,	
IC...18		50.05.0227		SN 75 472 P, SN 75 462 JG,	
IC...19		50.06.0273		SN 74 LS 273 N	
IC...22		50.11.0104		LM 339 N	
IC...27		50.05.0227		SN 75 472 P, SN 75 462 JG,	
IC...28		50.05.0227		SN 75 472 P, SN 75 462 JG,	
IC...32		50.11.0104		LM 339 N	
IC...36		50.06.0074		SN 74 LS 74 N	
IC...37		50.06.0074		SN 74 LS 74 N	
IC...38		50.06.0074		SN 74 LS 74 N	
IC...42		50.06.0540		SN 74 LS 540 N	
IC...46		50.06.0086		SN 74 LS 86 N	
IC...47		50.06.0032		SN 74 LS 32 N	
IC...48		50.06.0010		SN 74 LS 10 N	
IC...49		50.06.0000		SN 74 LS 00 N	
IC...51		50.06.0000		SN 74 LS 00 N	
IC...52		50.06.0163		SN 74 LS 163 AN	
IC...53		50.06.0541		SN 74 LS 541 N	
IC...54		50.06.0540		SN 74 LS 540 N	
IC...59		50.06.0014		SN 74 LS 14 N	



IND.	POS. NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
	IC. . . . 61	50.06.0540		SN 74 LS 540 N	
	IC. . . . 65	50.06.0645		SN 74 LS 645 N	
	IC. . . . 66	50.16.0113		MC68 A40 HD68 A40,	‡A Mot,Hi
	IC. . . . 68	50.16.0114		MC68 A52 HD68 A52, S68A52	‡A Mot,Hi,AMI
	IC. . . . 72	50.06.0139		SN 74 LS 139 N	
	IC. . . . 73	50.16.0107		MC 6803P-1, HD 6803P-1	‡A Mot,Hi
	IC. . . . 75	50.06.1573		SN 74 ALS 573 N,	TI
	IC. . . . 76	50.14.0107		HM 6116 LP-4, MSM 5128-15	‡A Hi,OKI
	IC. . . . 78	50.14.0113	see Note	D 2764-3 HN 482764 G-3	‡A It,Hi,TI,SGS
	JS. . . . 01	54.01.0021		Jumper	
	JS. . . . 02	54.01.0021		Jumper	
	JS. . . . 03	54.01.0021		Jumper	
	K. . . . . 41	56.02.1003	5 V 1*A	100V/0.5A, Print	
	L. . . . . 01	62.01.0115		Wide Band HF-Choke	
	RZ. . . . 01	57.88.4332	8*3.3K	5%, Single Line	
	RZ. . . . 02	57.88.4103	8*10K	5%, Single Line	
	RZ. . . . 03	57.88.4332	8*3.3K	5%, Single Line	
	RZ. . . . C4	57.88.4332	8*3.3K	5%, Single Line	
	RZ. . . . 06	57.88.4332	8*3.3K	5%, Single Line	
	RZ. . . . C7	57.88.4332	8*3.3K	5%, Single Line	
	RZ. . . . 08	57.88.4103	8*10K	5%, Single Line	
	RZ. . . . C9	57.88.4332	8*3.3K	5%, Single Line	
	SZ. . . . 71	55.01.0168		8*A, DIL	

IND.	POS.NO.	PART NO.	VALUE	SPECIFICATIONS / EQUIVALENT	MANUF.
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Note : Software release 1.812.961.20 (IC 78)

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

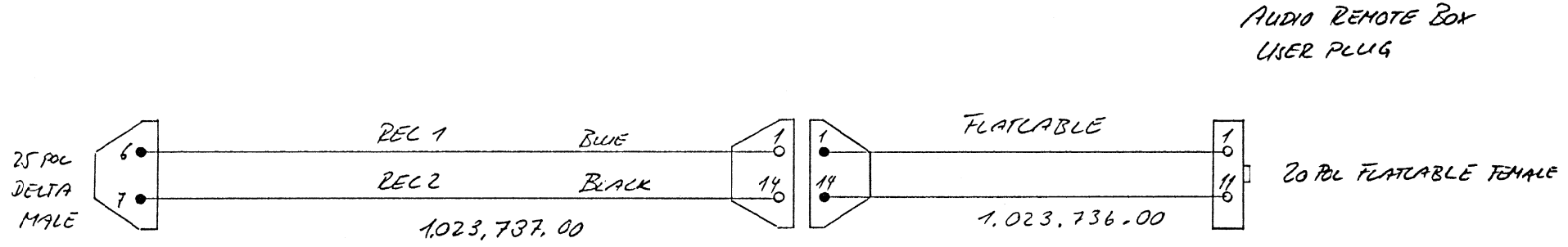
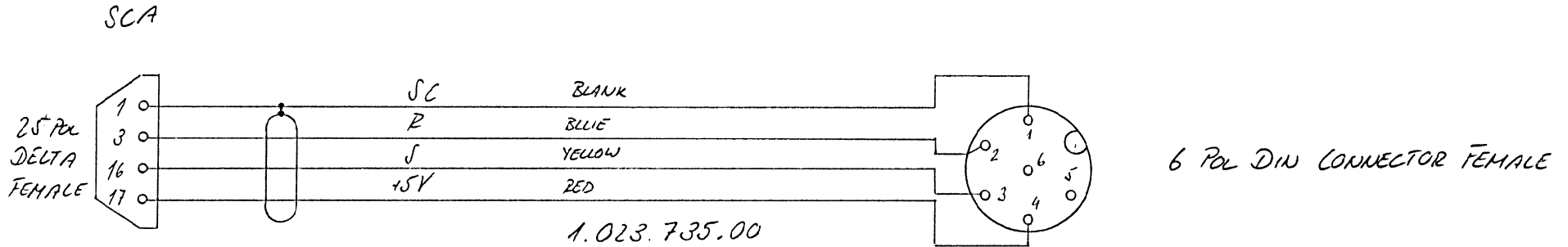
MANUFACTURERS : TI=Texas Instrument, St=Studer, Mot=Motorola  
Hi=Hitachi, It=Intel, OKI=OKI Semiconductor  
AMI=American Microsystem Inc., SGS=SGS/Ates

ORIG 86/08/21

S T U D E R (00) 86/08/21 SC INTERFACE SONDR LIBRA 1.812.420.20 PAGE 3

TLS 4000 MK2

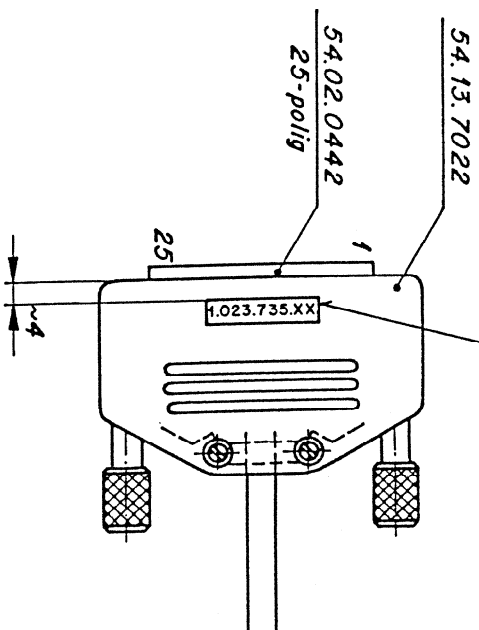
SONDOR LIBRA



Anfang

1.023.735-01

Steckergehäuse vor dem  
Aufkleben entfettet



1.023.735-94

Anschlüsse 1-4 mit  
Schrumpfschlauch  
1.010.106-65 abdecken

Alle Litzenenden nach  
innen verdrängen.

54.02.0250



Ende

Werkstoff		Oberfläche		Änderung	
Norm-Nr.:		Güte:			③
DIN-Bez.:		Beh.:			②
Abmessung:					①
Zugehörige Unterlagen:	Freimassoleranz:	Maßstab:			④
KL, VL	±	1:1			
Ersatz für:	Ersetzt durch:		Kopie f3		

STUDER REGENSDORF ZÜRICH	Benennung: <b>IF-Kabel</b> Sandor Libra 3m	Nummer: <b>1.023.735-00</b>
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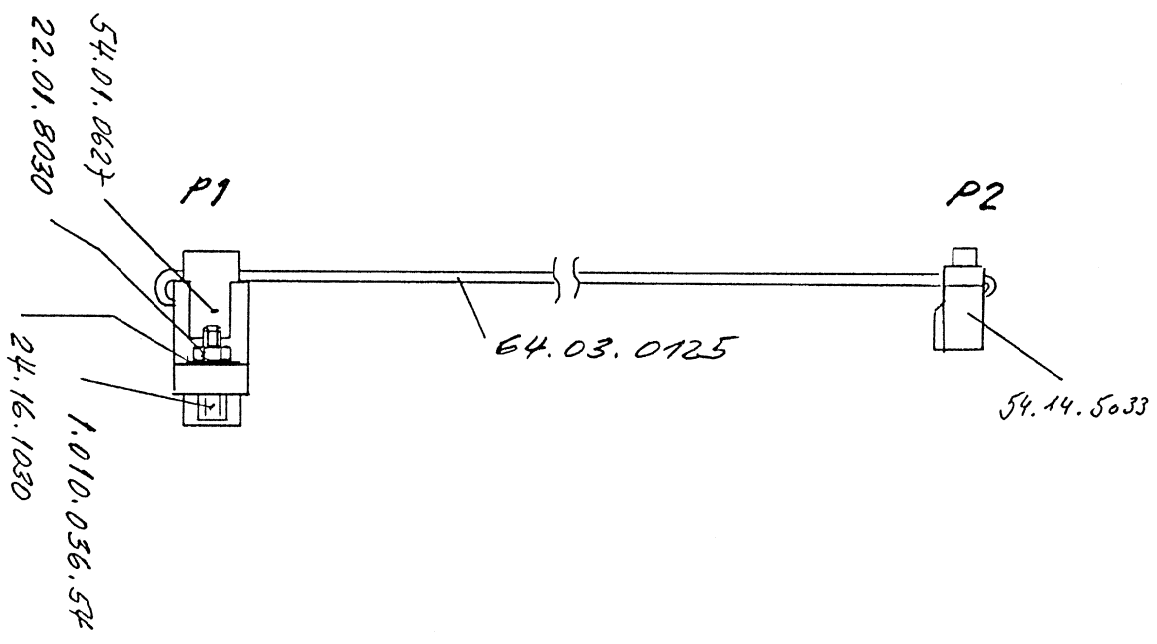
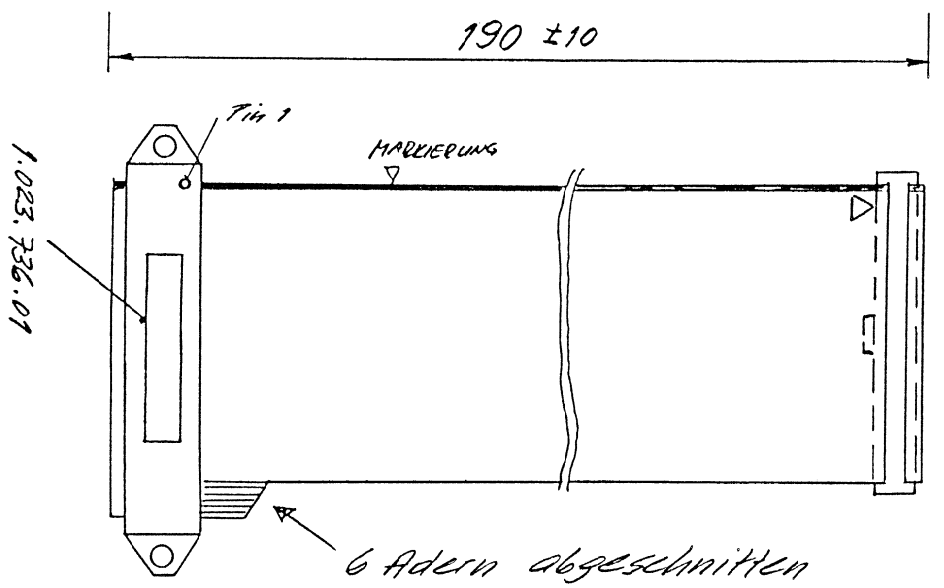
\*\*\*\*\*  
 IF-KABEL SONDOR LIBRA 3M  
 PROC.DAT. 86/09/22 \* 11:52  
 TOTAL 1 SEITE

MOD IDX	BAUTEIL NR.	PDS/A. NR.	FARBE	SIGNAL	NAME	-- A N F A N G --				--- A N Z A P F U N G ---				----- F N D E -----				BEM		
						TYP	VERDRÄHTUNGSORT	LAENGE	TYP	VERDRÄHTUNGSORT	LAENGE	TYP	VERDRÄHTUNGSORT	LAENGE	TYP	VERDRÄHTUNGSORT	BEM			
						AS	GR	EL	PT	ANFANG	AS	GR	EL	PT	TOTAL	AS	GR	EL	PT	
	1.023.735.94	0010													3000					
		0010	SC	SCREEN		BB	00	00	01	01						SN3	00	00	02	01
		0020	BL	R		B	00	00	01	03						SN3	00	00	02	02
		0030	GB	S		B	00	00	01	16						SN3	00	00	02	03
		0040	RT	+5V		B	00	00	01	17						SN3	00	00	02	04

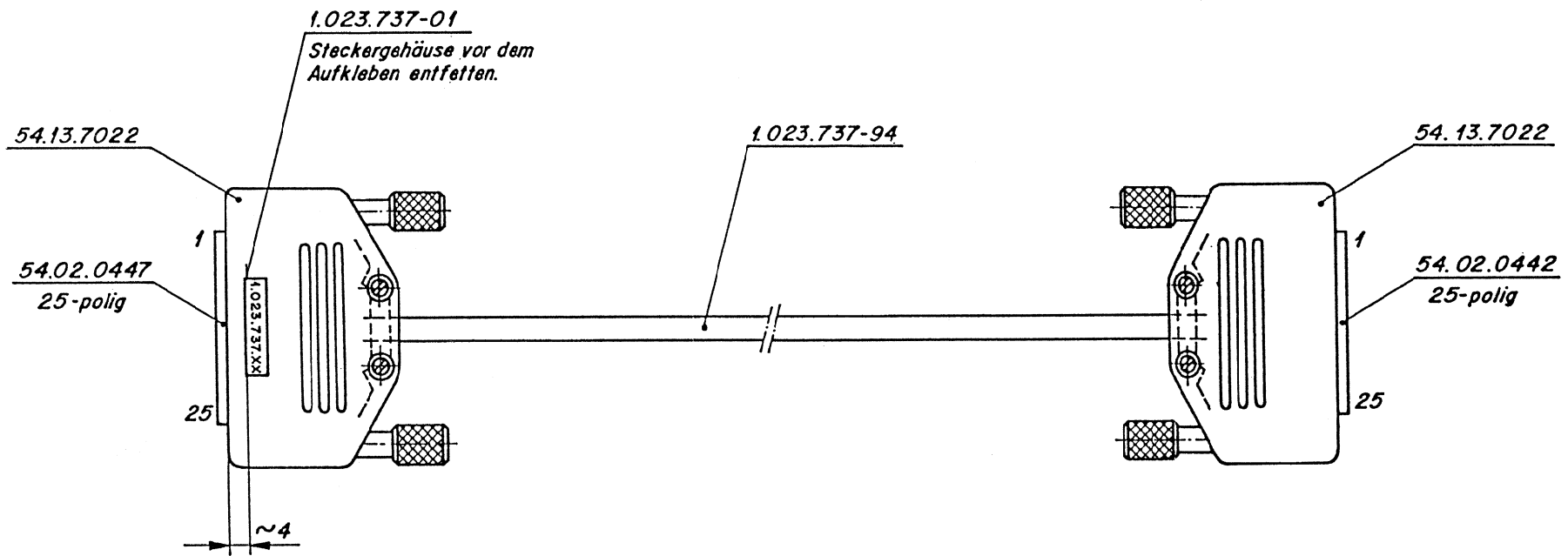
Kabelanfang: 3-Steckerkontakte in Gehäuse 54.02.0447 einstecken

Kabelende: Litzen in 6-pol. 3N Stecker 54.02.0250<sup>9</sup> verlöten.

LABEL VERARBEITEN NACH ZY 618  
 ZUSCHNEIDLÄNGE 220 MM



13.9.86 Schmid	...	...	...	PAGE 1 OF 1
STUDER	IF FLACHKABEL SONDER LIBER 9,24	...	...	1.023.736.00.



Werkstoff	Norm-Nr.:	Güte:							③
	DIN-Bez.:	Beh.:							②
	Abmessung:								①
Zugehörige Unterlagen:		Freimasstoleranz:	Maßstab:	Ausgabe	1.10.86	A.Ha			④
KL, VL		±	1:1	Datum	Gez.	Gepr.	Ges.	Index	
Ersatz für:		Ersetzt durch:		Kopie					
STUDER REGENSDORF ZÜRICH	Benennung: <b>IF-Kabel Rec.</b> Sondor Libra 3mm			Nummer: <b>1.023.737-00</b>					

MOD IDX	BAUTEIL NR.	POS/A. NR.	FARBE	SIGNAL	NAME	-- AN F A N G --				-- AN 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	FL	PT	TOTAL	AS	GR	EL	PT		
	1.023.737.94	0010													3000						
		0010	BL	REC 1		A	00	00	01	06						R	00	00	02	01	
		0020	SW	REC 2		A	00	00	01	07						R	00	00	07	14	

Kabelanfang: A-Steckerkontakte in Gehäuse St.02.0447 einstecken.

Kabelende: B-Steckerkontakte in Gehäuse St.02.0442 einstecken.