

Alfaskop System 41

Technical Description

Drawings

File 1	Communication Processors	1. CPB TAB TUA, TUA-T, TUA-E
	Communication Processor, Local	2. CIB CCC1 CCC2
	Display Units	3. DTC, DTC-A, DTC-B DTC-C, DTC-D ICBD, CHGB TIA, TIA-A, TIA-A/B TIA-B, TIA-S CRB, SPA
File 2	Keyboards	4. KBC KXB MIA KBLB KBSB
	Optional Units	5. GPB, MRW, MRW-A MRW-B, MRW-C, MRO ACA, ACA-A, ACA-B ACA-D, SCA, SCA-B SCA-D, SCA-E, SCC1, SCC2 BCRB, FCU, FCA, CAB
	Flexible Disk Unit	6. FDP FDA RB
	Power Supplies	7. CPS, FPS DPS, UPS UPB, DPB PS, Power Boards
		8.
		9.
		10.

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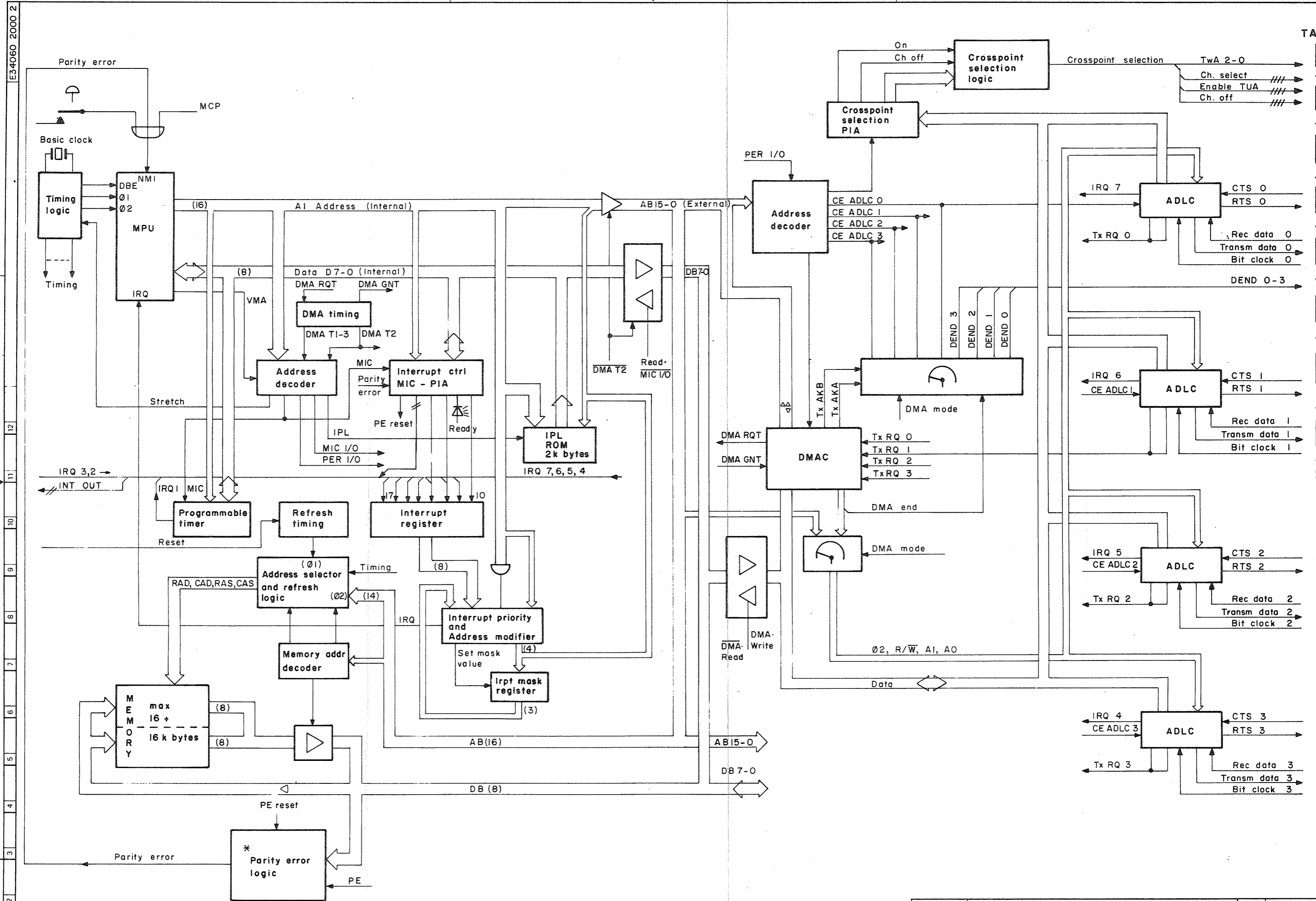
This is a revised edition of publication EE354-810D, with drawing sets on 31 more boards added and 28 revised drawings. Use the new number E9000 3063E when ordering.

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Data Terminals
Documentation
S-175 86 Järfälla, Sweden

Communication Processors

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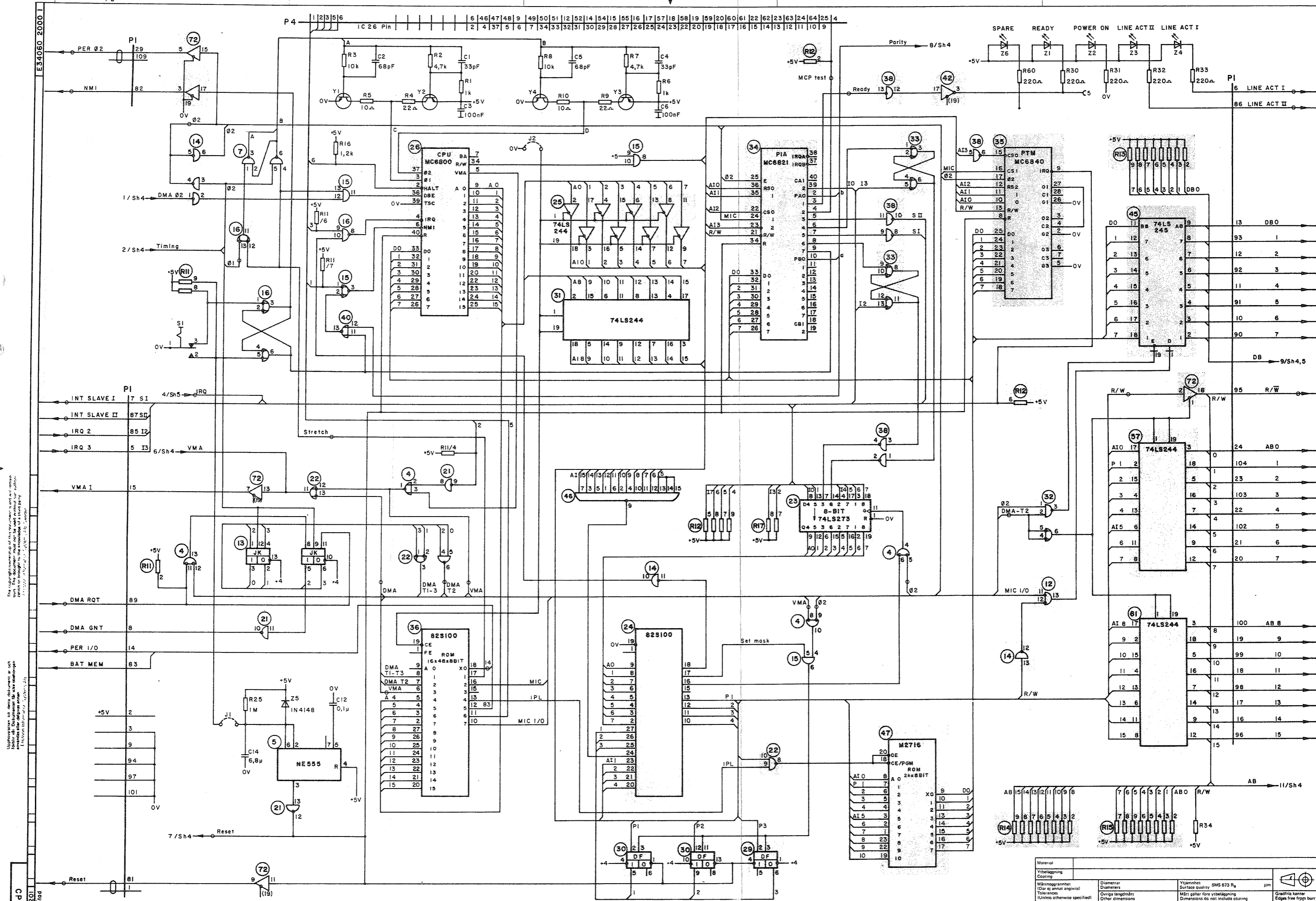
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E34060 2000 2
 REV. 1 821201 2
 Omritad

* If installed

INGAR AVEN 1 ALSO USED ON		REG-NR	
KONTR CHECK	8215	GODK APPROV	8837
SKALA SCALE		KOPIER COPIED	9328
LITFORD ISSUED	9776		GM
800206		CPB Communication Processor Board	
E34060 2000 2		ERICSSON	
		5 BLAD SHEET	
		2	



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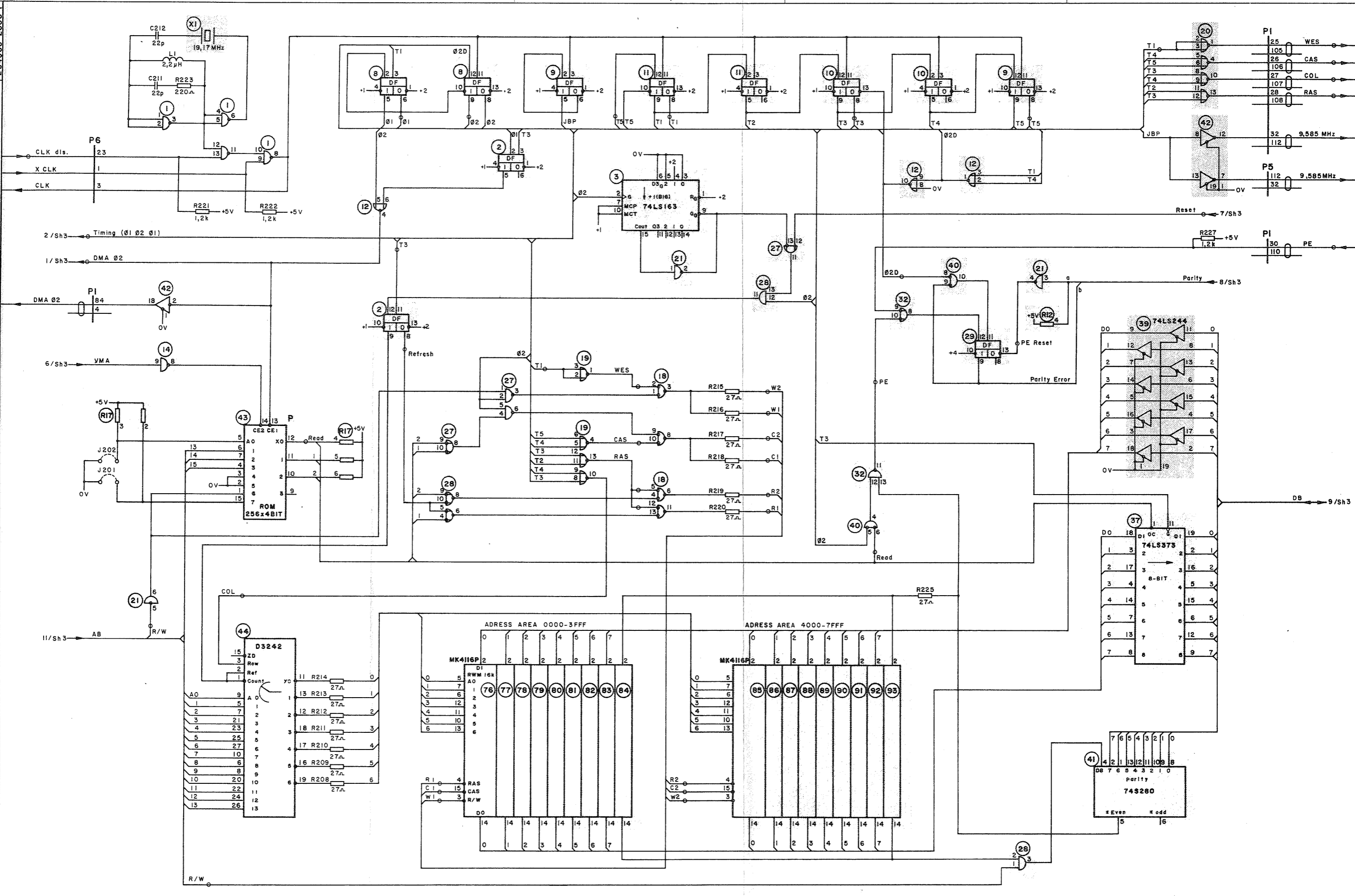
BCP
 Omslag
 Rev. 11 821201

Material		Ytbeläggning		Måttolerans	
Ytbeläggning		Måttolerans (Där ej annat anges)		Ytfinish	
Coating		Tolerances (Unless otherwise specified)		Surface quality	
Måttolerans (Där ej annat anges)		Övriga måttolerans		SMS 673 A	
Tolerances (Unless otherwise specified)		Other dimensions		Mått. gäller före ytbeläggning	
Övriga måttolerans		Dimensions do not include coating		Gradfri kanter	
Mått. gäller före ytbeläggning		Dimensions do not include coating		Edges free from burr	
Uttavd	8203	Datum	800206	CPB	
Utgivd	8203	Skala	1:1	Communication	
Kontr.	8203	Seal		Processor board	
Check.	8203	Seal		E34060 2000 I 3	
Godk.	8203	Seal		ERICSSON	
Approv.	8203	Seal		E34060 2000 I 3	

() = Repeated information

E34060 2000
ANS4500008
CPB
Omrättad
1018120

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Material			
Vibrelagning			
Coating			
Måttolerans (Där ej annat anges)	Diameter	Ytfinish	SMS 873 R _a
Tolerances (Unless otherwise specified)	Other dimensions	Mått gäller före vitbelagning	Dimensions do not include coating
Utförd av	Utgivet	Datum	800206
Kontroll	Skala	Skala	
Godkänn	BS		

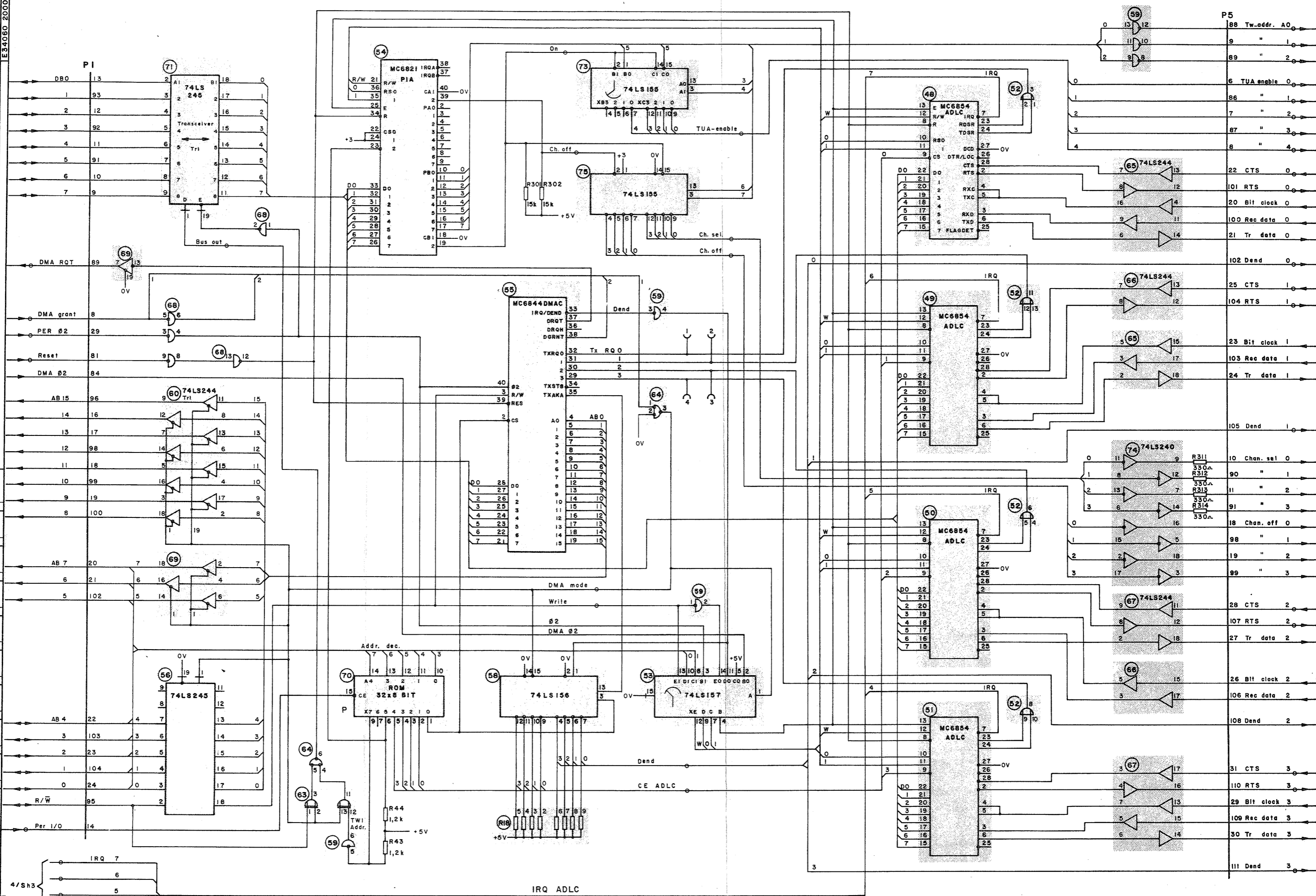
P = Programming and strapping, see separate documentation

CPB
Communication
Processor board

ERICSSON
E34060 2000 1/5
Blank Sheet

E34060 2000 1

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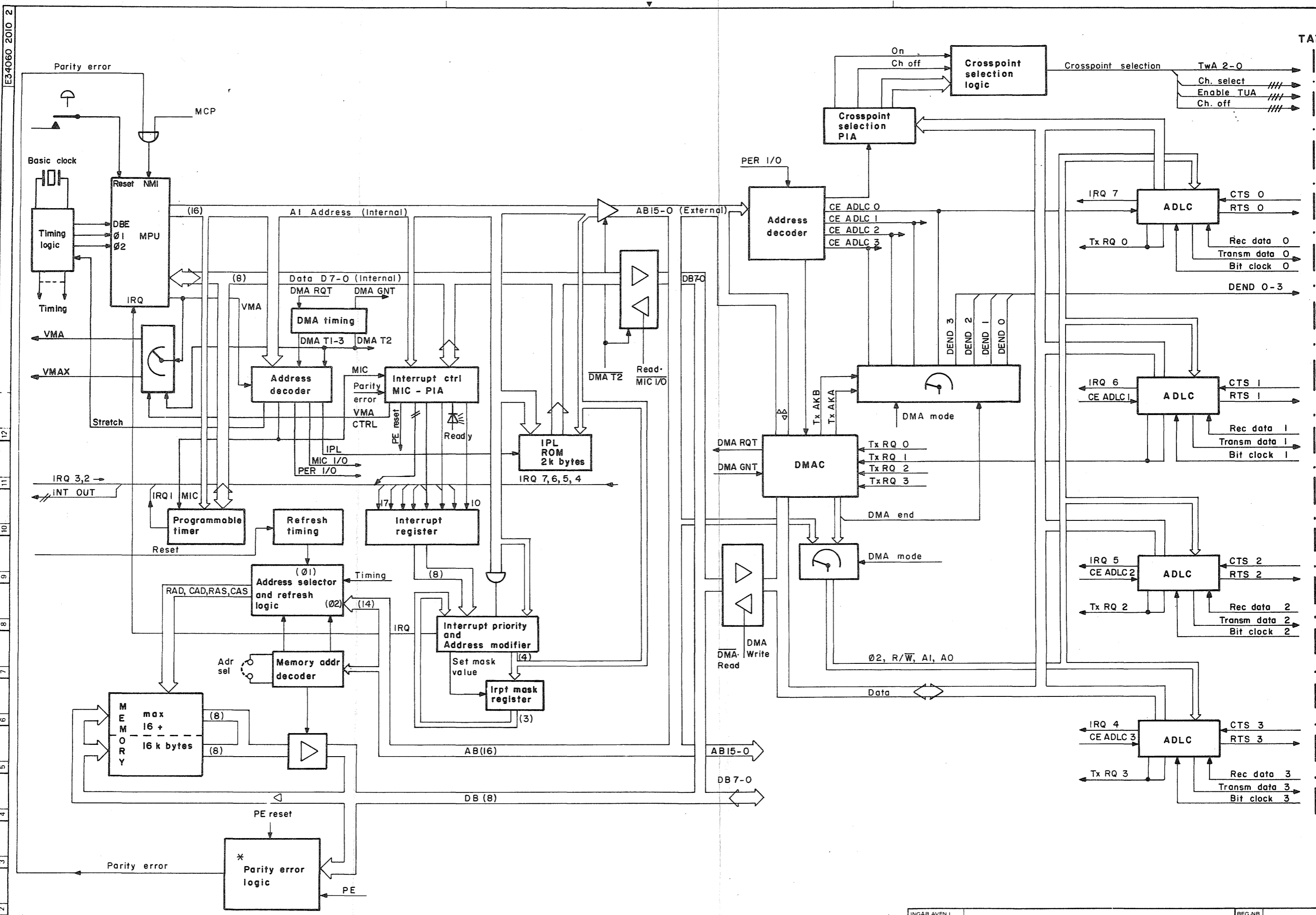


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Gods Approv		Scale	
		K	BS

CPB
Communication processor board

ERICSSON
E 34060 2000 1

P=Programming and strapping, see separate documentation



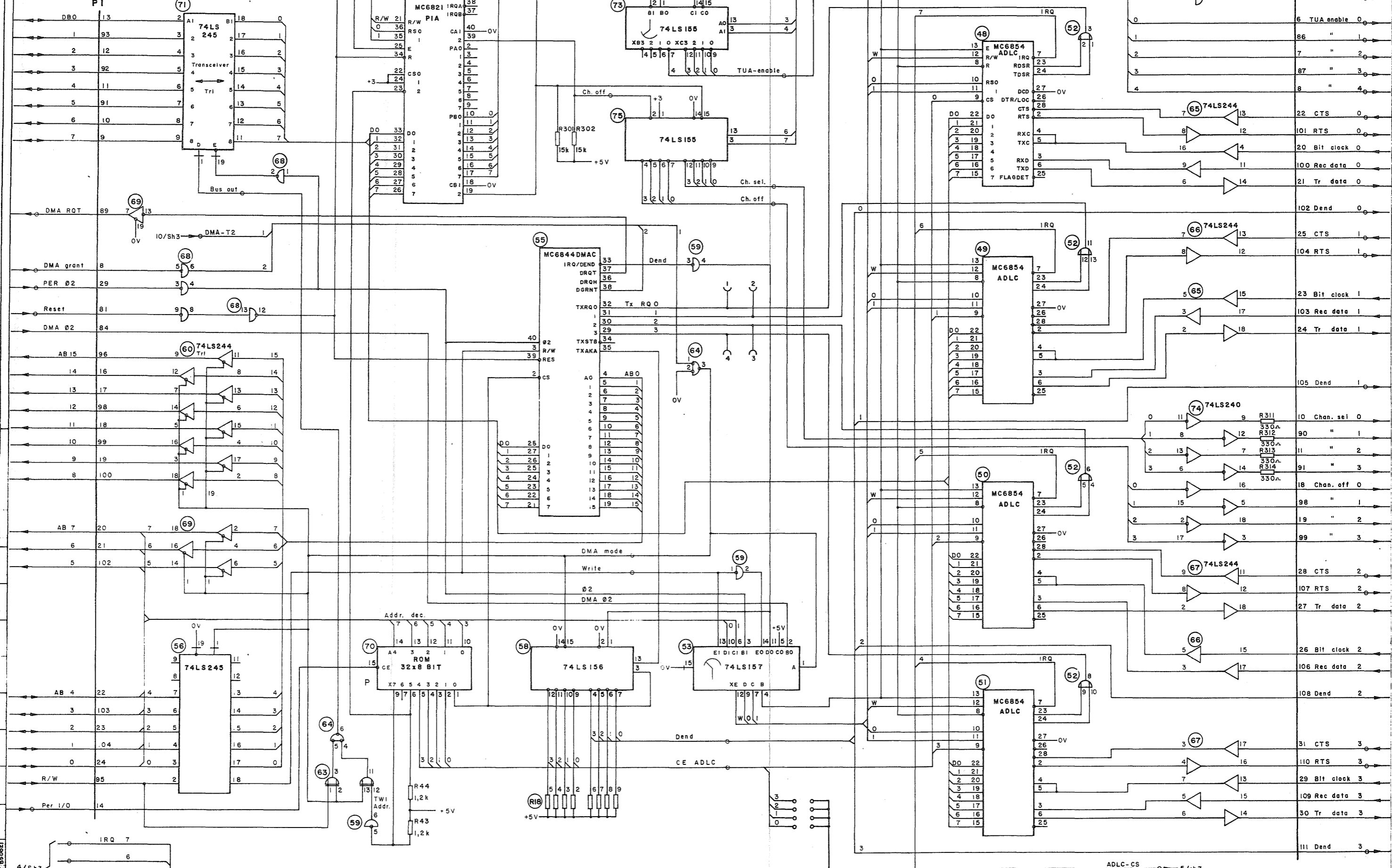
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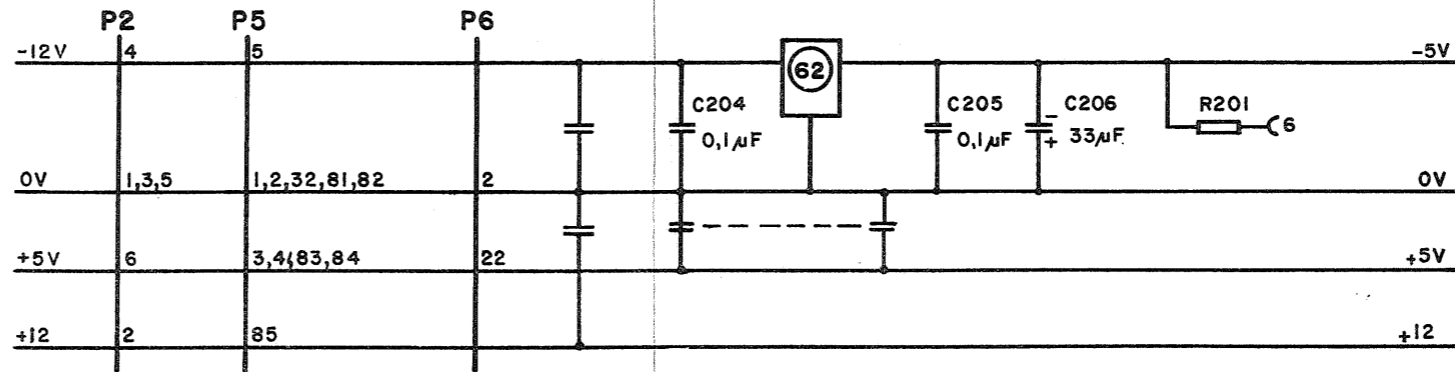
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REV. 821201 2 Omitted
 E34060 2010 2

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KONTR. CHECK	8215			5 SHEET
SKALA SCALE	9977			
UTFÖRD ISSUED	8902 Sgt			810928



TEST POINTS	
NO	SIGNAL
1	TxRQ0
2	" 1
3	" 2
4	" 3
5	Ready
6	-5V
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COMPONENT LIST

NO	TYPE #/
IC20	7428
IC18	74S32
IC8,9,10,11	74S74
IC46	74S133
IC41	74S280
IC16,22,27,32,33	74LS00
IC4,12,19,40	74LS02
IC14,21,39,59,68	74LS04
IC15,28	74LS08
IC52,64	74LS32
IC7	74LS37
IC2,29,30	74LS74
IC63	74LS86
IC13	74LS107
IC94	74LS153
IC73,75	74LS155
IC58	74LS156
IC53	74LS157
IC3	74LS163
IC6	74LS174
IC42,74	74LS240
IC25,31,39,57,60,61	74LS244
IC65,66,67,69,72	74LS245
IC45,56,71	74LS273
IC23	74LS273
IC37	74LS373
IC47	MC2716
IC44	D3242
IC76,77,78,79,80,81	
IC82,83,84,85,86,87	4116P
IC88,89,90,91,92,93	
IC26	MC8600
IC34,54	MC8621
IC35	MC8640
IC55	MC8644
IC48,49,50,51	MC8654
IC24,36	82S100
IC70	ROM32x8BI
IC43	ROM256x4BI
IC5	NE555
IC17	MPQ6842
IC62	µA79M05
Z3,4,6	LD52C
Z1,2	LD57C
X1	KS74103-40
R11,13,14,15,17,18,315	1,2kΩ
R12	4,7kΩ

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS/PIN
+1	R206
+2	R207
+3	R315
+4	R11/5
+5	R11/3

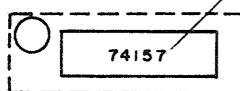
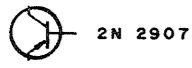
Example +1 CONN. TO R
+1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS		
	NUMBER	SH	MOD.
E34060 2011 2	1	REV.	
"	2	"	
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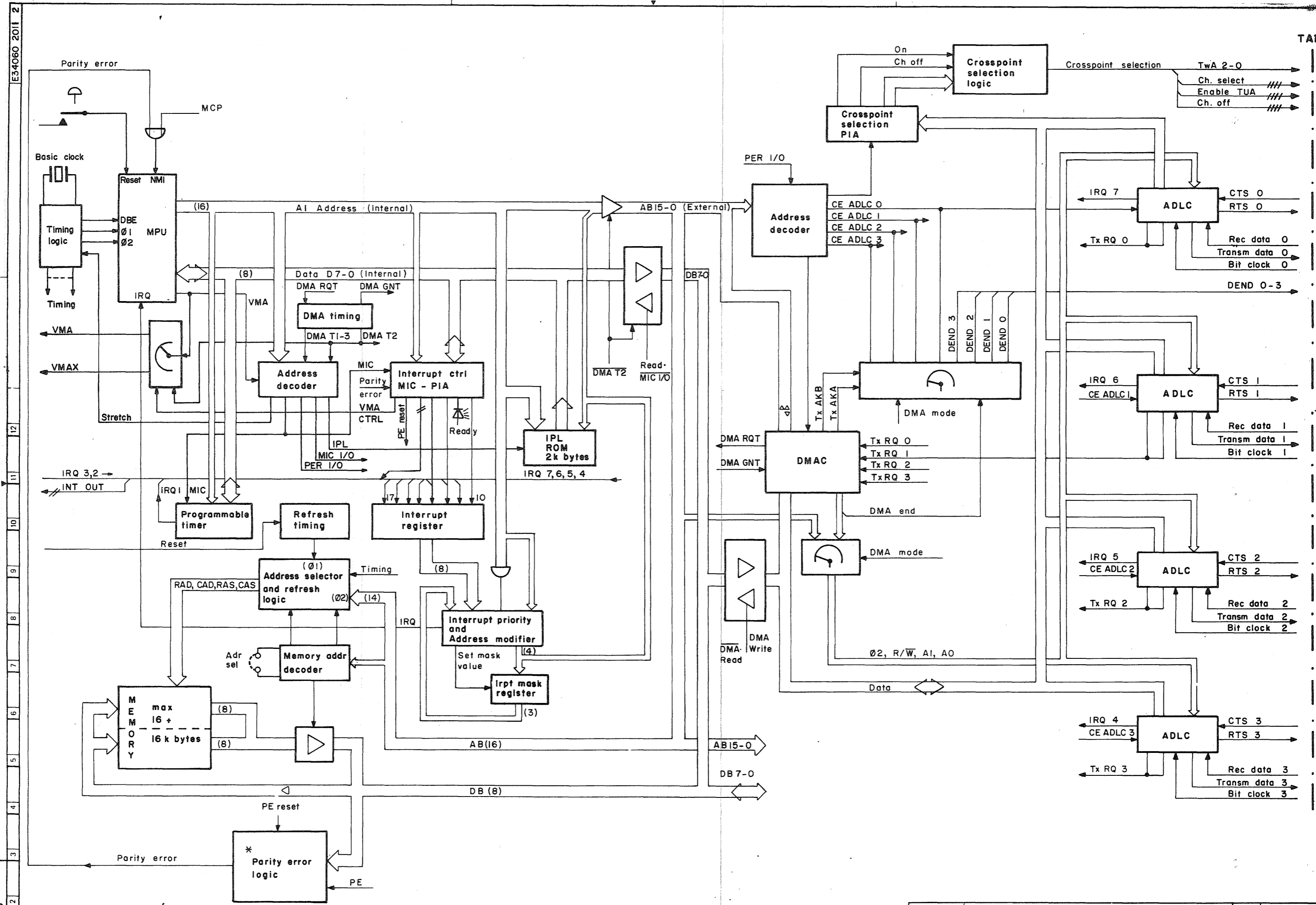
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EXAMPLES OF EXISTING
CIRCUIT TYPES



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CPB

Material		Surface quality		
Ytbelegning		Surface quality		
Material		Surface quality		
Material		Surface quality		
Utford	824	Datum	820621	CPB Communication Processor board
Kont	8215	Skala		
Godk	8237	BS		
ERICSSON				E34060 2011 2 5 Sheet



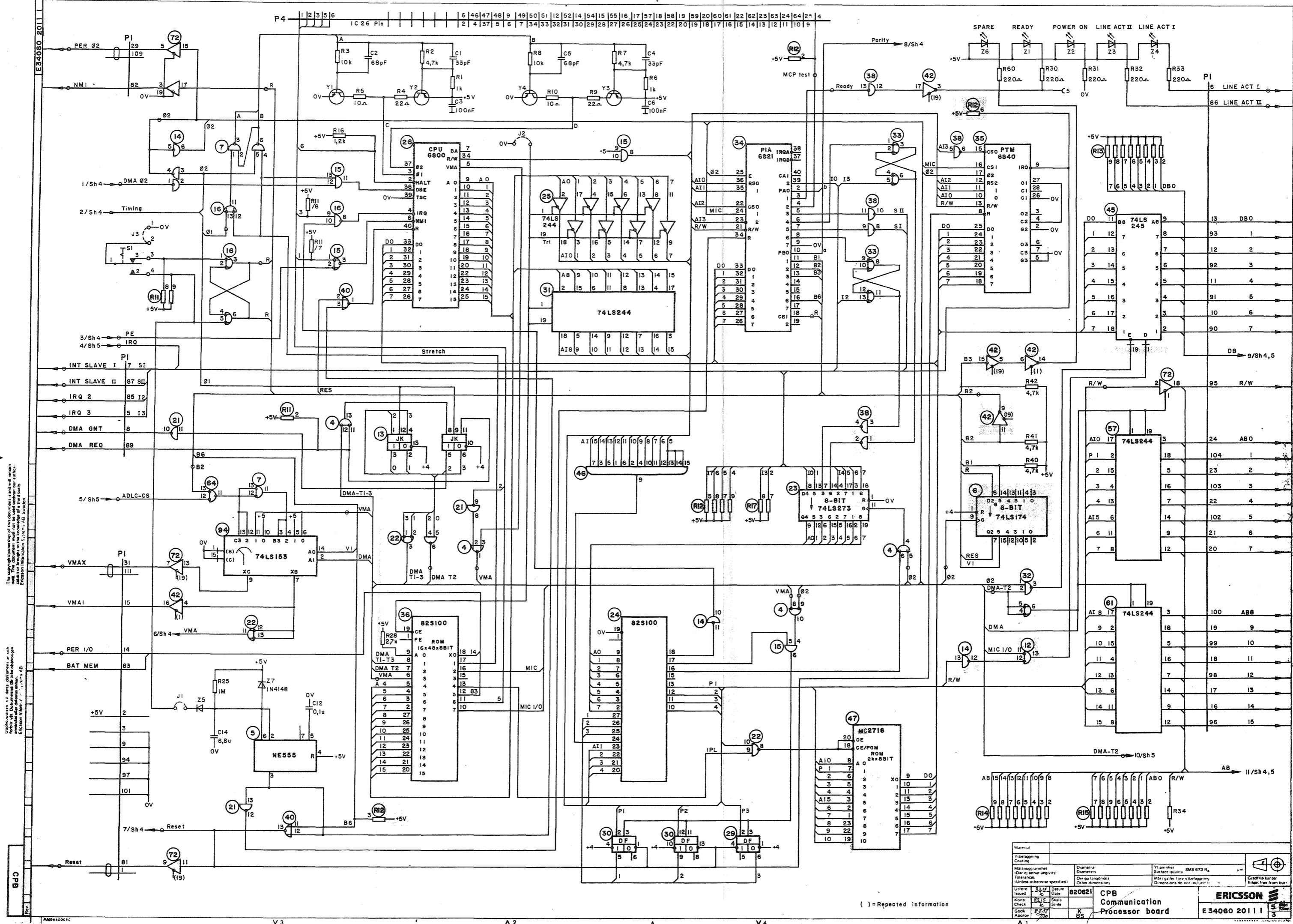
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SKALA	8215	GODK. APPROV. 8231	
UTFORD. ISSUED	820621	KOPIER COPIED 9977	
CPB Communication Processor Board		ERICSSON	
E34060 2011 2		5/2 SHEET	



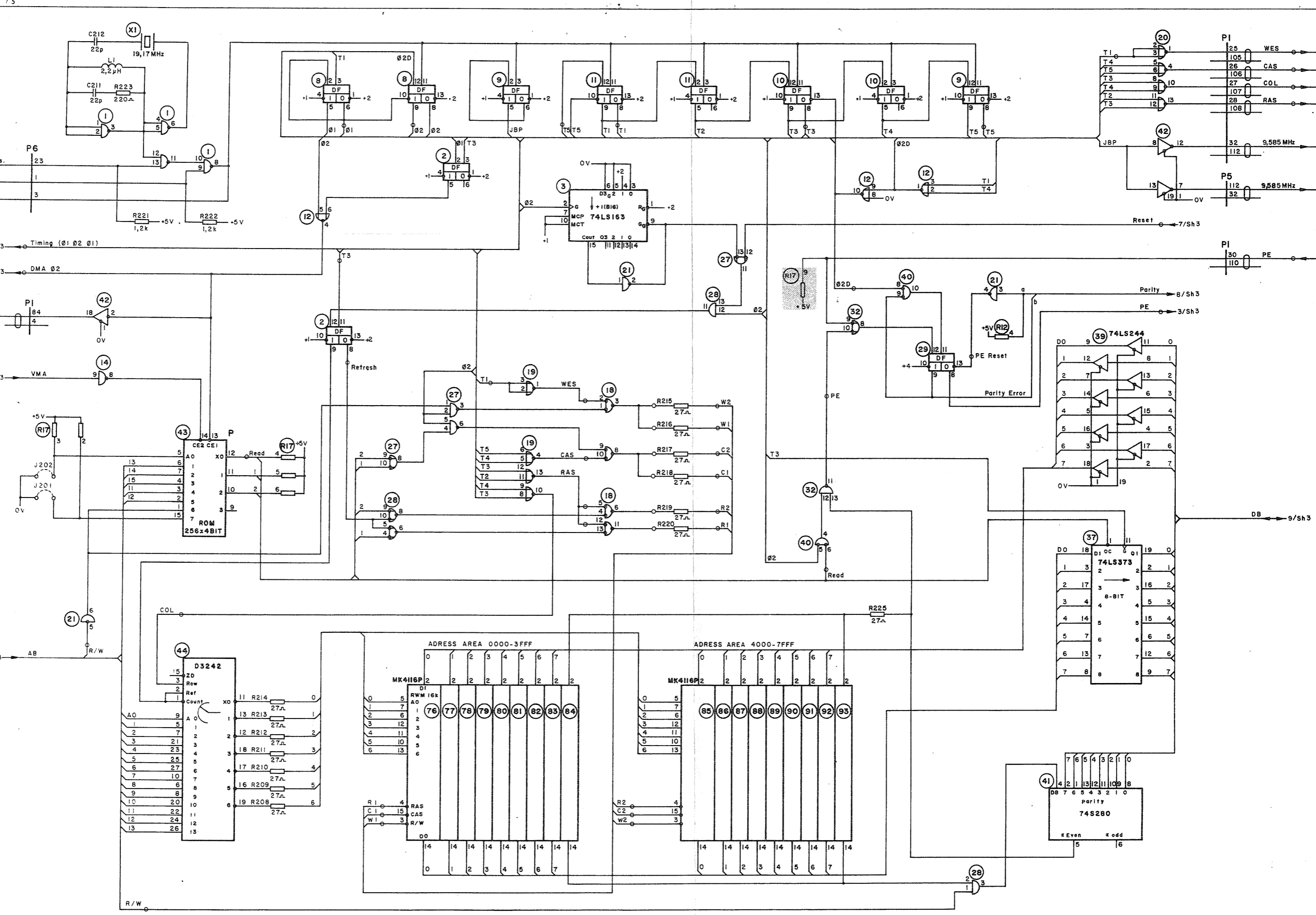
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CPB

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Material		Ytbehandling		
Clöstring		Clöstring		
Måttoleranser (Där ej annat anges)		Diameter		Yttexter SMS 673 R _s
Toleranser (om ej annat anges)		Övriga mått		
Övriga mått (om ej annat anges)		Diameter		Mått gäller för ytbehandling Dimensioner do not include...
Övriga mått (om ej annat anges)		Diameter		
Utgivet	820621	Datum	820621	ERICSSON Processor board E34060 2011 1
Kontroll	820621	Skala	1:1	
Godkänn	820621	Skala	1:1	



P = Programming and strapping, see separate documentation

Material		Ytillagning		
Ytillagning		Coating		
Måttoleranser - (Där ej annat anges):	Diameter	Ytfinish	SMS 673 R _s	
Tolerances (Unless otherwise specified)	Dimensions	Surface quality	µm	
Unfordringsdatum	820621	Skala	1:1	
Kontroll	22-05-82	Skala	1:1	
Godkänn	22-05-82	Skala	1:1	
Godkänn	22-05-82	Skala	1:1	
CPB Communication Processor board		ERICSSON		
		E34060 2011		

CPB

E34073 2000 2

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TAB, TUA

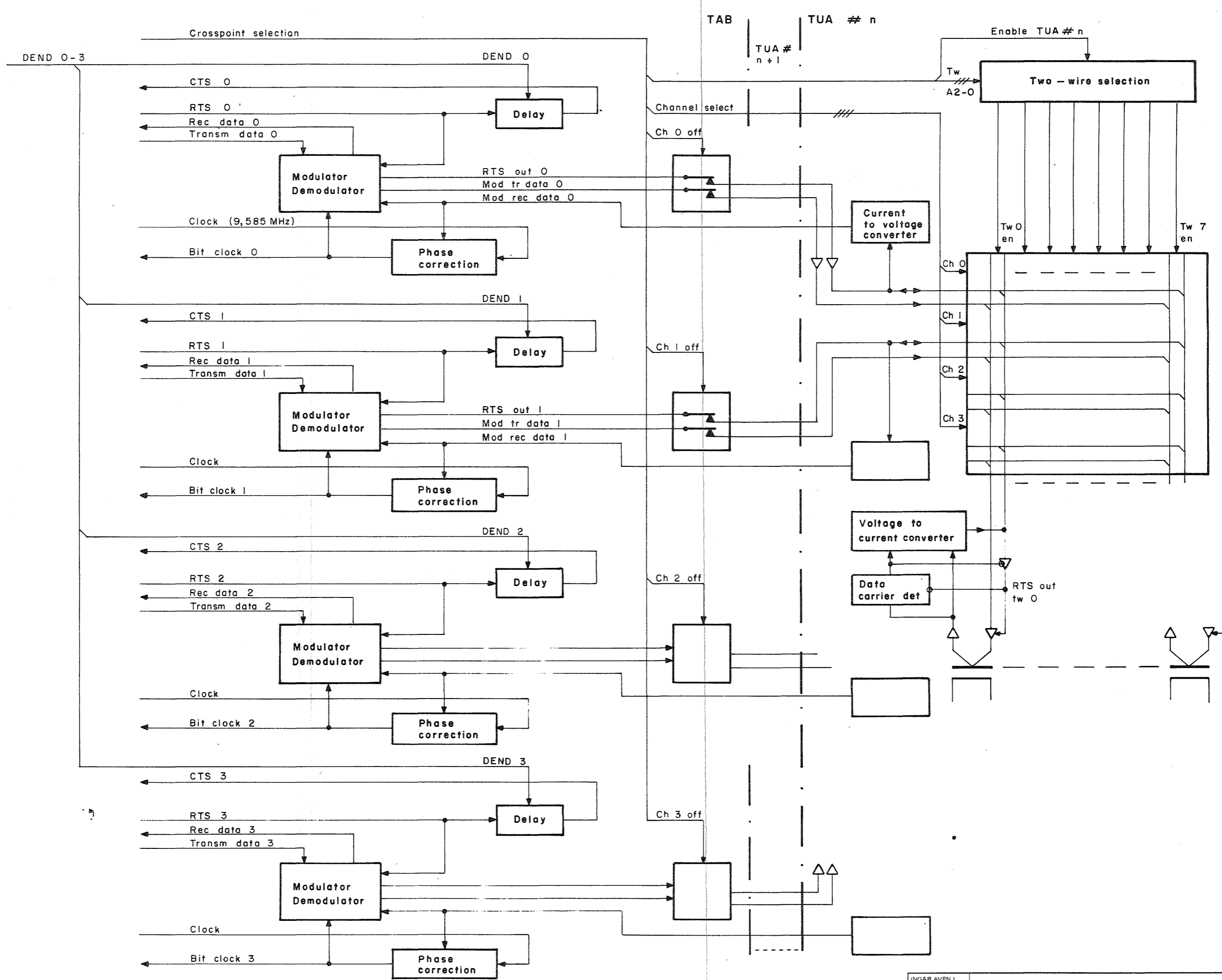
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BL 301.23 Océ-Ingut 85 672

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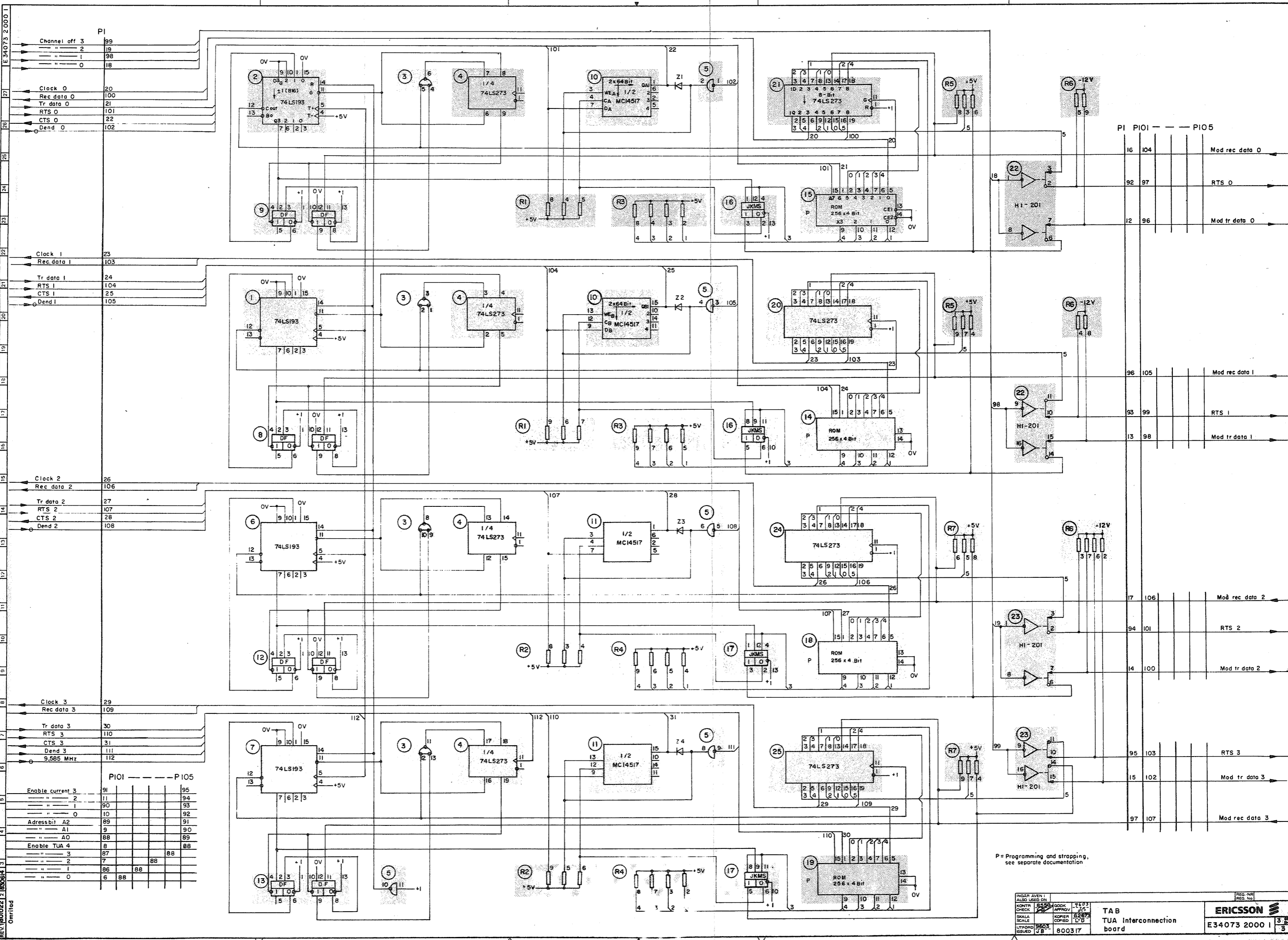
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SKALA SCALE	9328 6M	KOPIER COPIED
UTFORD ISSUED	9776 MG	800207
TAB, TUA TUA Interconnection board Terminal unit adapter		ERICSSON
E34073 2000 2		3 BLAD SHEET 2

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 REV: 19010222 2 800614
 Omitted
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Channel off 3
 99
 19
 98
 1
 18
 0

Clock 0
 20
 Rec data 0
 100
 Tr data 0
 21
 RTS 0
 101
 CTS 0
 22
 Dend 0
 102

Clock 1
 23
 Rec data 1
 103
 Tr data 1
 24
 RTS 1
 104
 CTS 1
 25
 Dend 1
 105

Clock 2
 26
 Rec data 2
 106
 Tr data 2
 27
 RTS 2
 107
 CTS 2
 28
 Dend 2
 108

Clock 3
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 Rec data 3
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 Tr data 3
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 RTS 3
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 CTS 3
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 Dend 3
 111
 9.585 MHz
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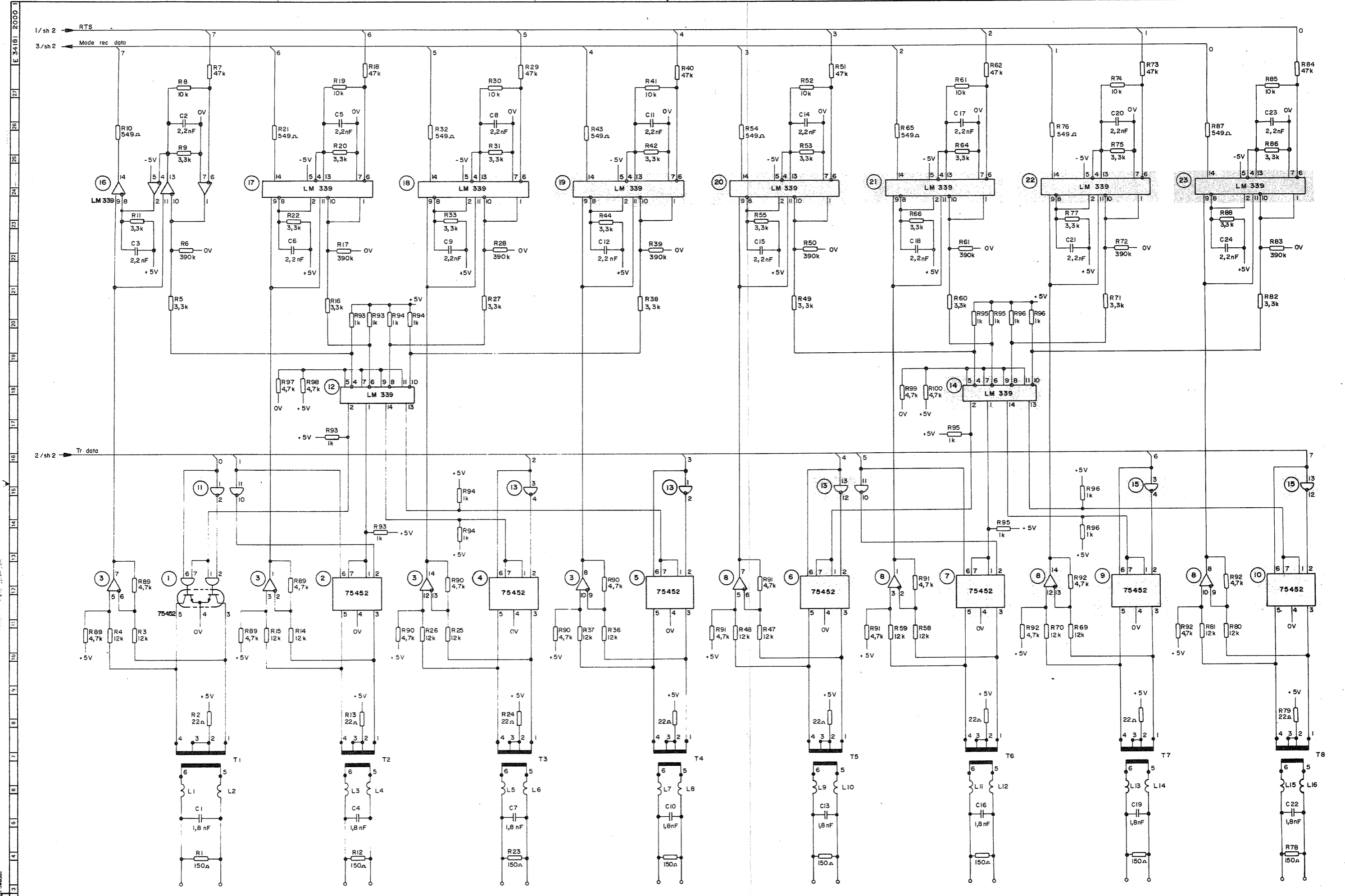
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91	95
11	94
2	93
1	92
10	91
89	90
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A0	88
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3	88
7	88
2	88
1	88
0	88

P = Programming and strapping, see separate documentation

INGAR AVEN 1	REG. NR	REG. NR
ALSO USED ON	REG. NR	REG. NR
CONTROL	APPROV	7473
SCALE	BOOK	75
SCALE	COPIED	52675
LITFORD	ISSUED	800317

TAB TUA Interconnection board

ERICSSON
E34073 2000 1



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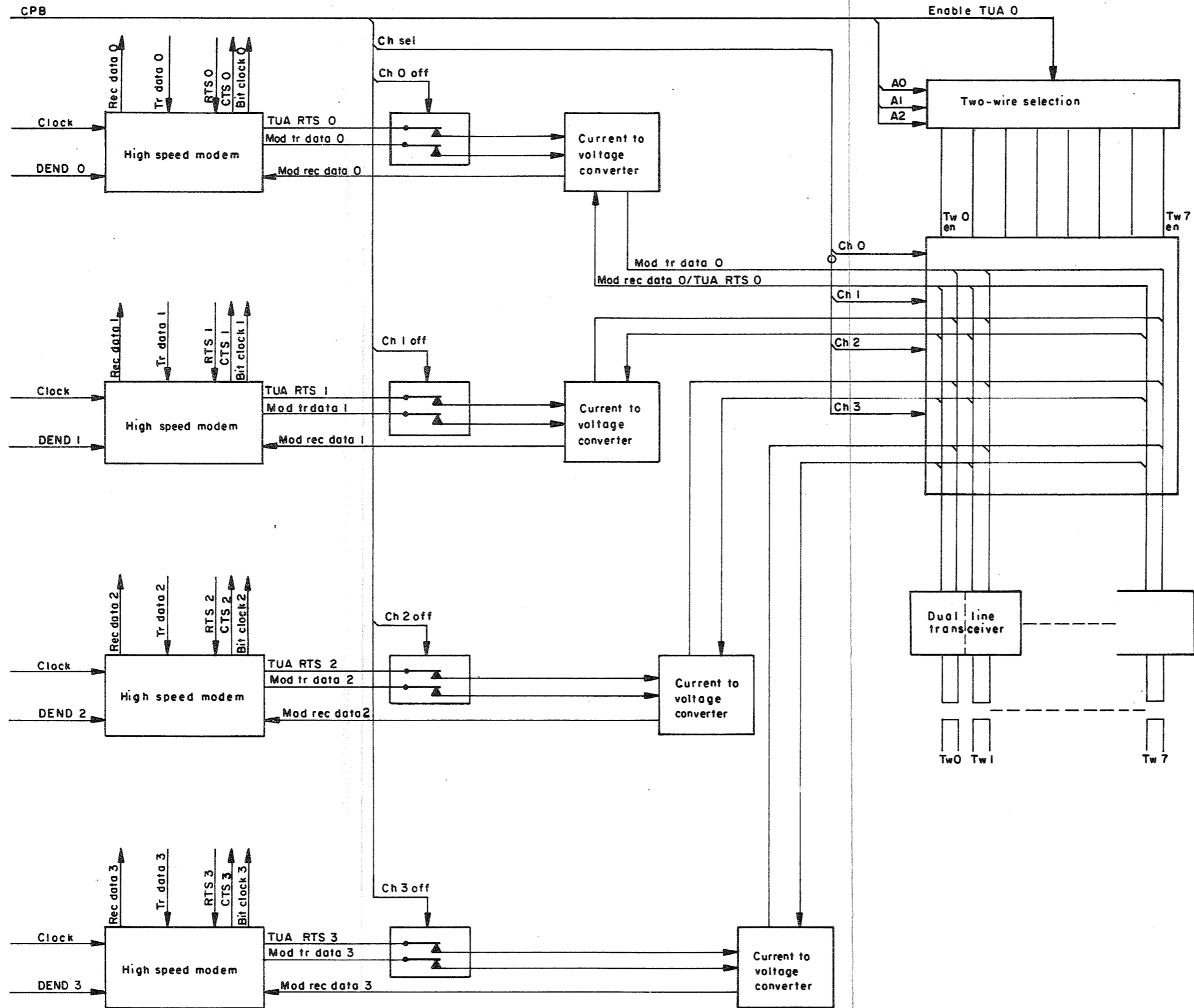
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UTGÅVA ISSUED	781206
TUA Terminal unit adapter	
ERICSSON	
E 34181 2001 I 3	

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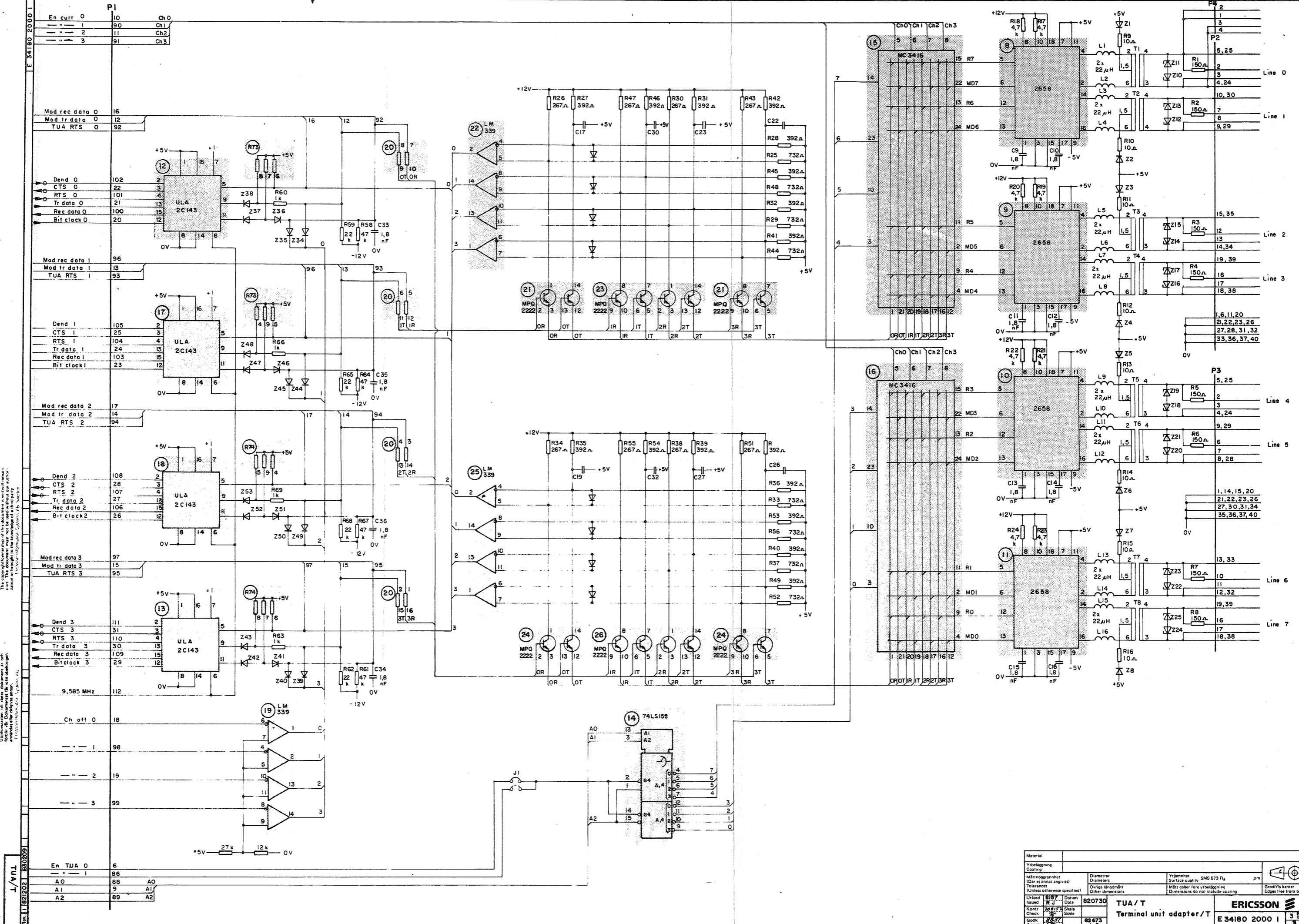
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TUA / T

Rev.



Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality SMS 673 R _z	µm
Utförd Issued	8157 R J	Datum Date	821201
Kontr Check	208157 K	Skala Scale	
Godk Approv	8837 C/20	62673 L-D	
TUA / T Terminal unit adapter / T		ERICSSON	
E 34180 2000 2		3 Sheet 2	

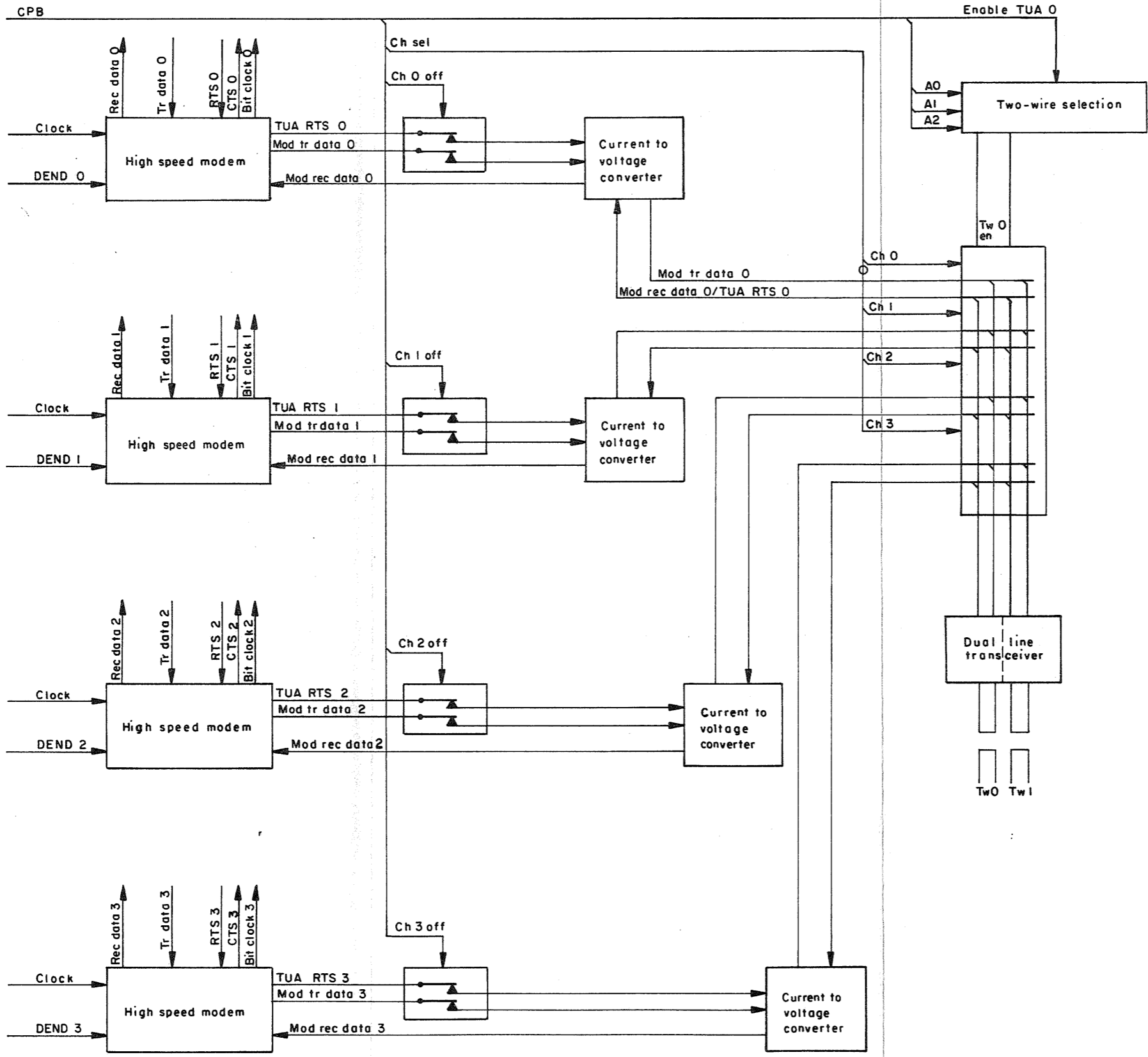


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En TUA 0	6
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A0	88
A1	9
A2	89

TUA/T
 Rev. 11

Material		Ytbeläggning	
Coating		Coating	
Måttolerans (Där ej annat anges)	Diameter	Ytfinish	µm
Tolerances (Unless otherwise specified)	Surface quality	SMS 673 Ra	
Other dimensions	Other dimensions	Mått gäller före yttbeläggning	Dimensions do not include coating
Utförd	8157	Datum	820730
Issued	R 11	Date	
Kontrollerad	8157	Skala	
Checked	R 11	Scale	
Godkänn	8237	Skala	
Approved	R 11	Scale	
TUA/T		ERICSSON	
Terminal unit adapter/T		E34180 2000 I 3	

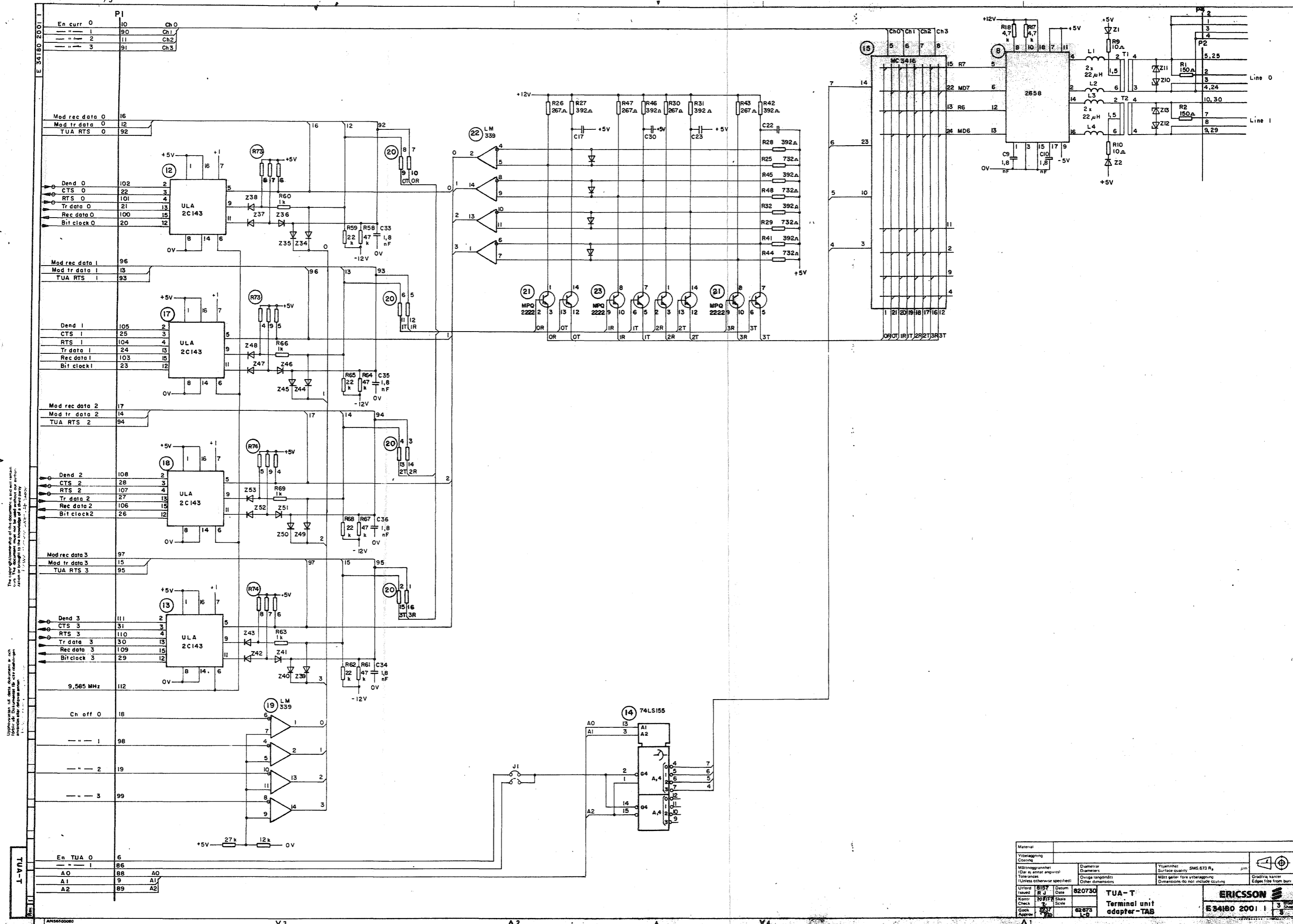


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TUA-T
 Rev.

Material			
Ytbeläggning Coating			
Mått noggrannhet (Dar ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _a μm
Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Grädfria kanter Edges free from burr	
Utford Issued	8157 R J	Datum Date	821201
Kontr Check	109157 P	Skala Scale	
Godk Approv	2231 L	62673 L-D	
TUA - T Terminal unit adapter - TAB			ERICSSON
E 34180 2001 2			3 Blad Sheet 2



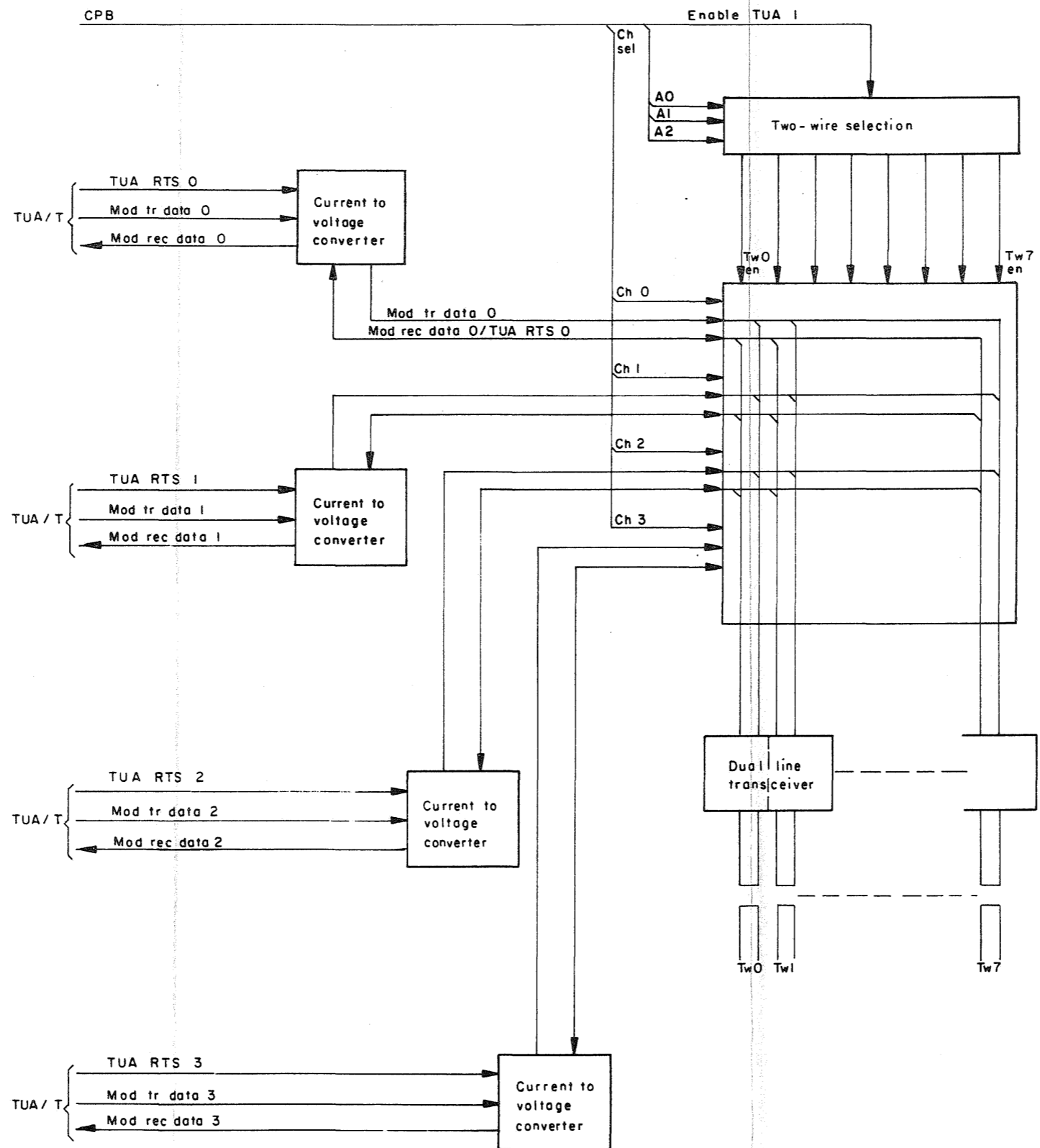
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En TUA 0	6		
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A0	88	A0	
A1	9	A1	
A2	89	A2	

Material		Ytbelegning		Coating	
Måttolerans (Där ej annat angivits)		Diameter		Ytfinish	
Tolerances (Unless otherwise specified)		Surface quality		SMS 673 R _s	
Övriga dimensioner		Mått gäller före ytbelegning		Dimensions do not include coating	
Övriga dimensioner		Dimensions do not include coating		Edges free from burr	
Utförd av	8157	Datum	820730	TUA-1	
Kontroll	RJ	Skala		Terminal unit	
Godkänn	3/7	Skala	62673	adapter-TAB	
Apprövt	7/8	Skala	62673	ERICSSON	
				E34180 2001 1	

E 34180 2010 2

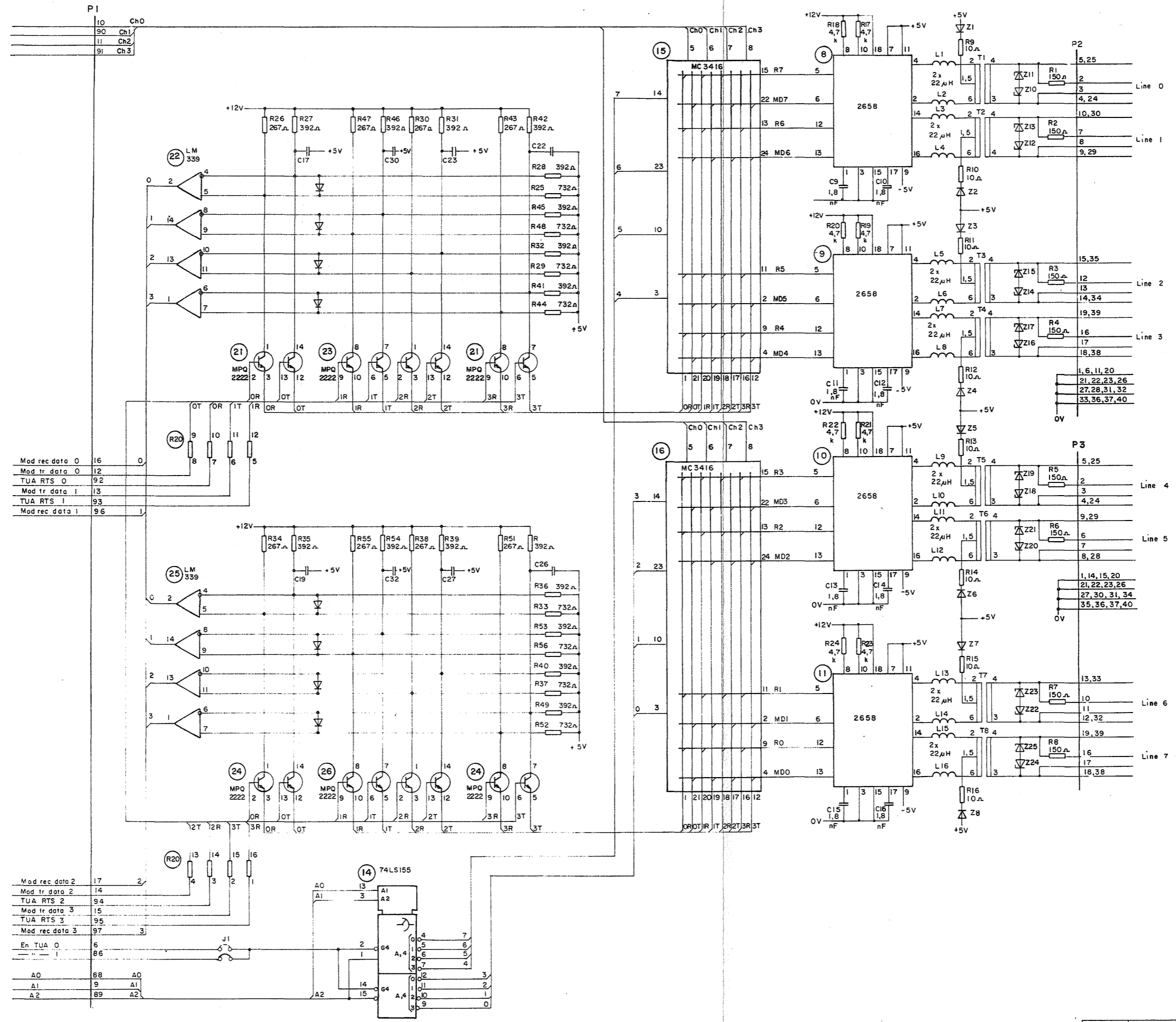


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TUA / E
 Rev.

Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _s μm
Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Gradfria kanter Edges free from burr	
Utförd Issued	157 R J	Datum Date	821202
Kontr Check	157 R J	Skala Scale	
Godk Approv	157 R J	62673 L'D	
TUA / E Terminal unit adapter / E			ERICSSON
E 34180 2010 2			3 Blad Sheet 2



Mod rec data 0	16	0
Mod tr data 0	12	0
TUA RTS 0	92	0
Mod tr data 1	13	0
TUA RTS 1	93	0
Mod rec data 1	96	1

Mod rec data 2	17	2
Mod tr data 2	14	2
TUA RTS 2	94	2
Mod tr data 3	15	2
TUA RTS 3	95	2
Mod rec data 3	97	3

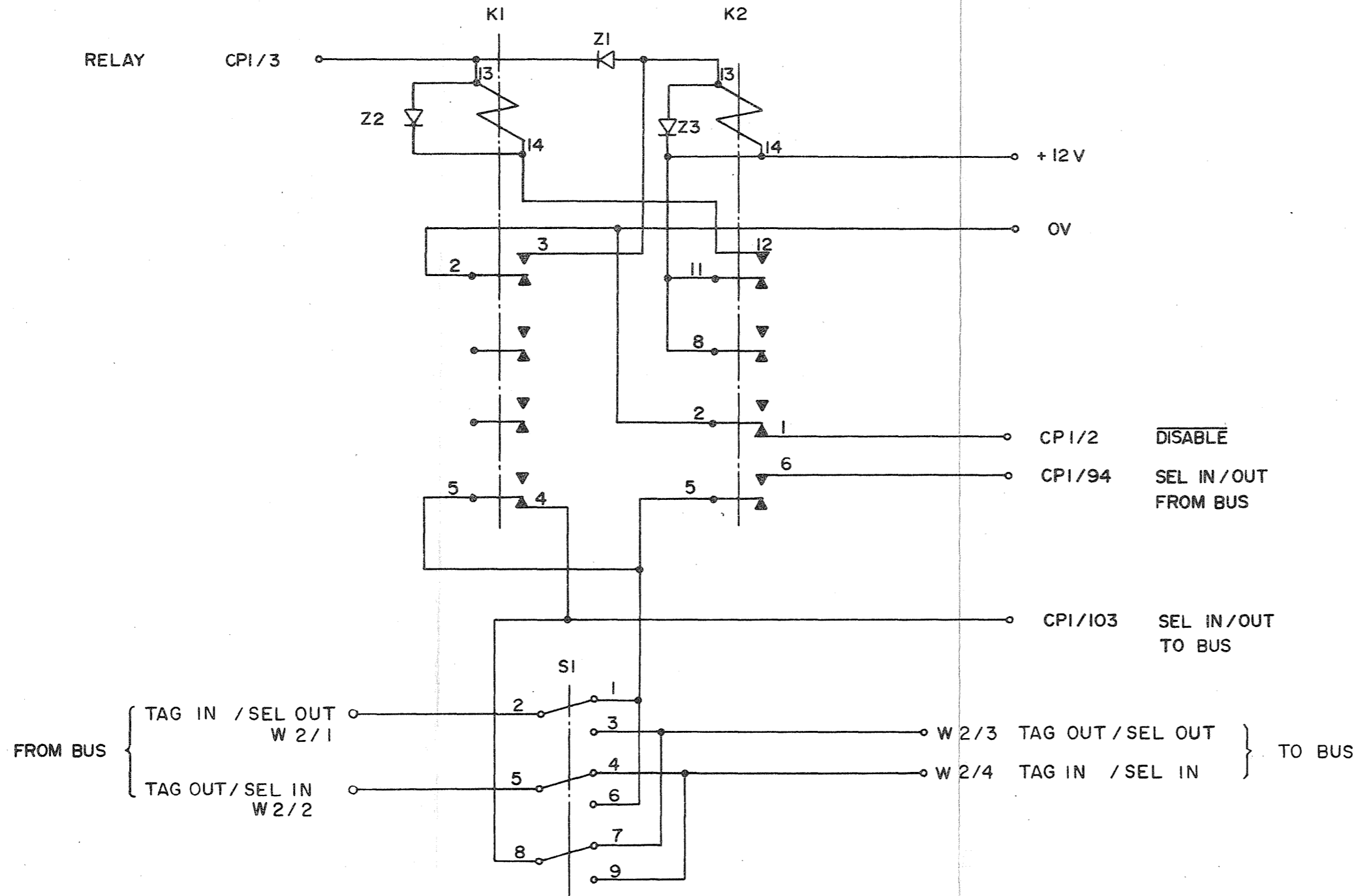
En TUA 0	6	86
En TUA 1	1	86

A0	88	A0
A1	89	A1
A2	90	A2

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Material			
Ytbeläggning			
Coating			
Måttögrannhet (Öar ej annat angivits)	Diameter	Ytfinish	SMS 673 P ₂
Tolerances (Unless otherwise specified)	Other dimensions	Other dimensions	Other dimensions
Urford (Issue)	8157	Datum (Date)	820719
Kontroll (Check)	820719	Skala (Scale)	
Godkänn (Approve)	820719		
TUA / E		Terminal unit adapter/E	
ERICSSON		E 34180 2010 1	
		3	

12
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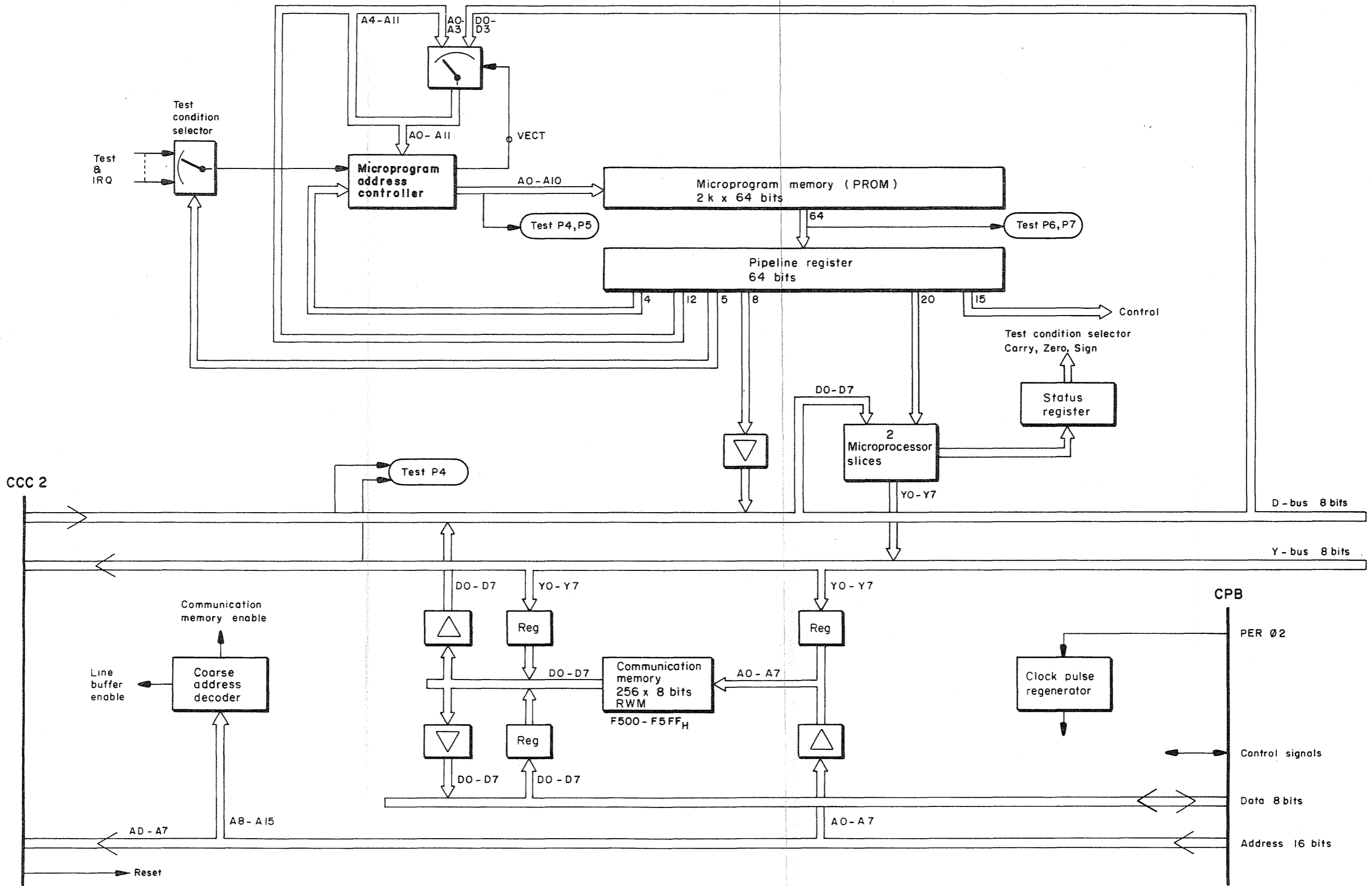


SE ÄVEN: E34070 4000 4 FOIL CONNECTION
 4001 4 EXT. CONNECTION

INGÅR ÄVEN I ALSO USED ON		REG. NR REG. No	
KONTR CHECK	GODK APPROV	8837 920	ERICSSON CIB CCC INTERCONNECTION BOARD
SKALA SCALE	KOPIER COPIED		
UTFÖRD ISSUED	800829	E34070 2000 3 PLAD SHEET	

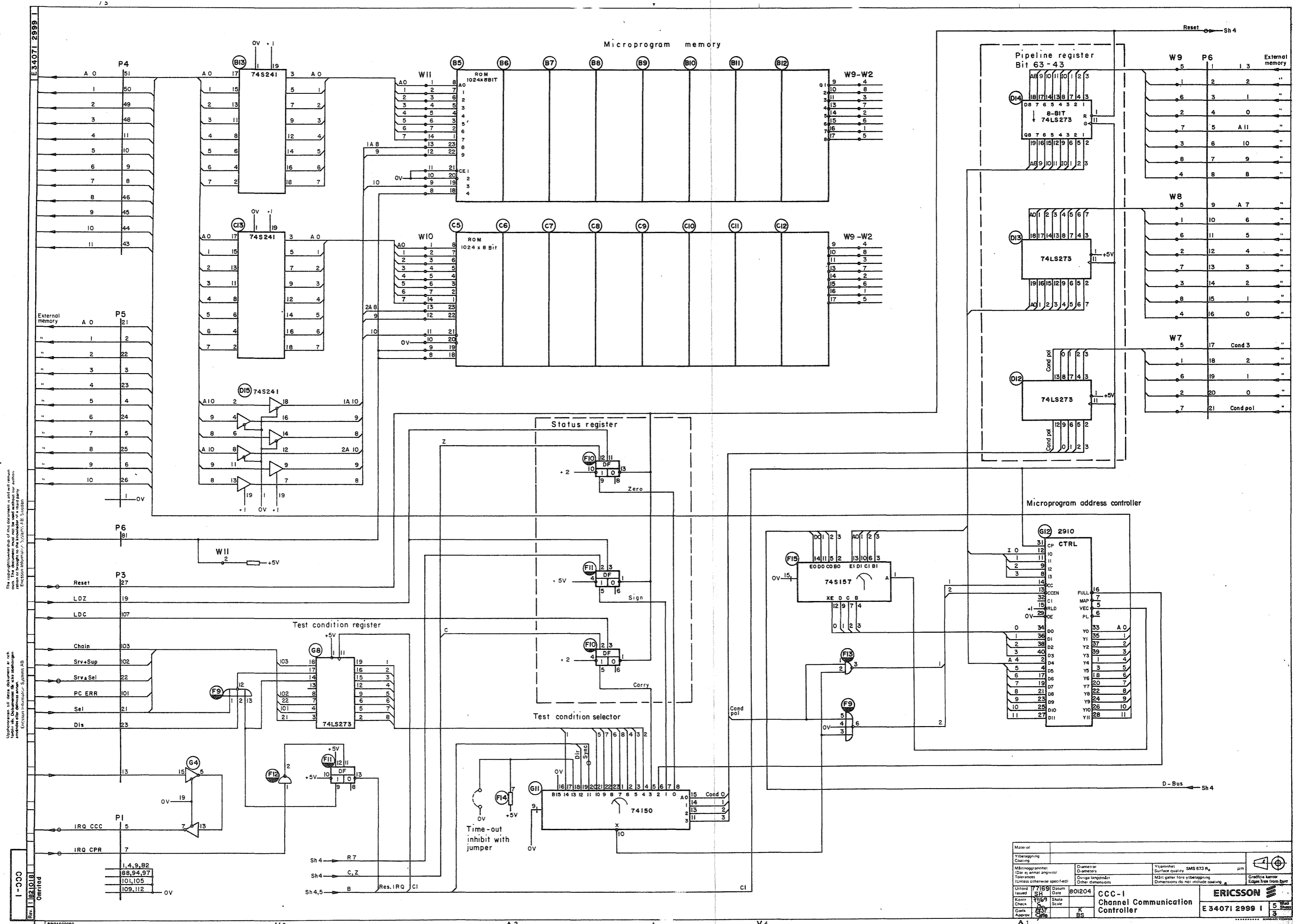
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1.000
Rev. 1 1821018
Omrättad

Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _s μm
Övriga längdmått Other dimensions		Mått gäller före ytbeläggning Dimensions do not include coating	Gradfris kanter Edges free from burr
Utförd Issued	77169 SH	Datum Date	820202
Kontr Check		Skala Scale	
Godk. Approv	815 G	9328 GM	
CCC 1			ERICSSON
E34071 2999 2			5 Blad Sheet 2



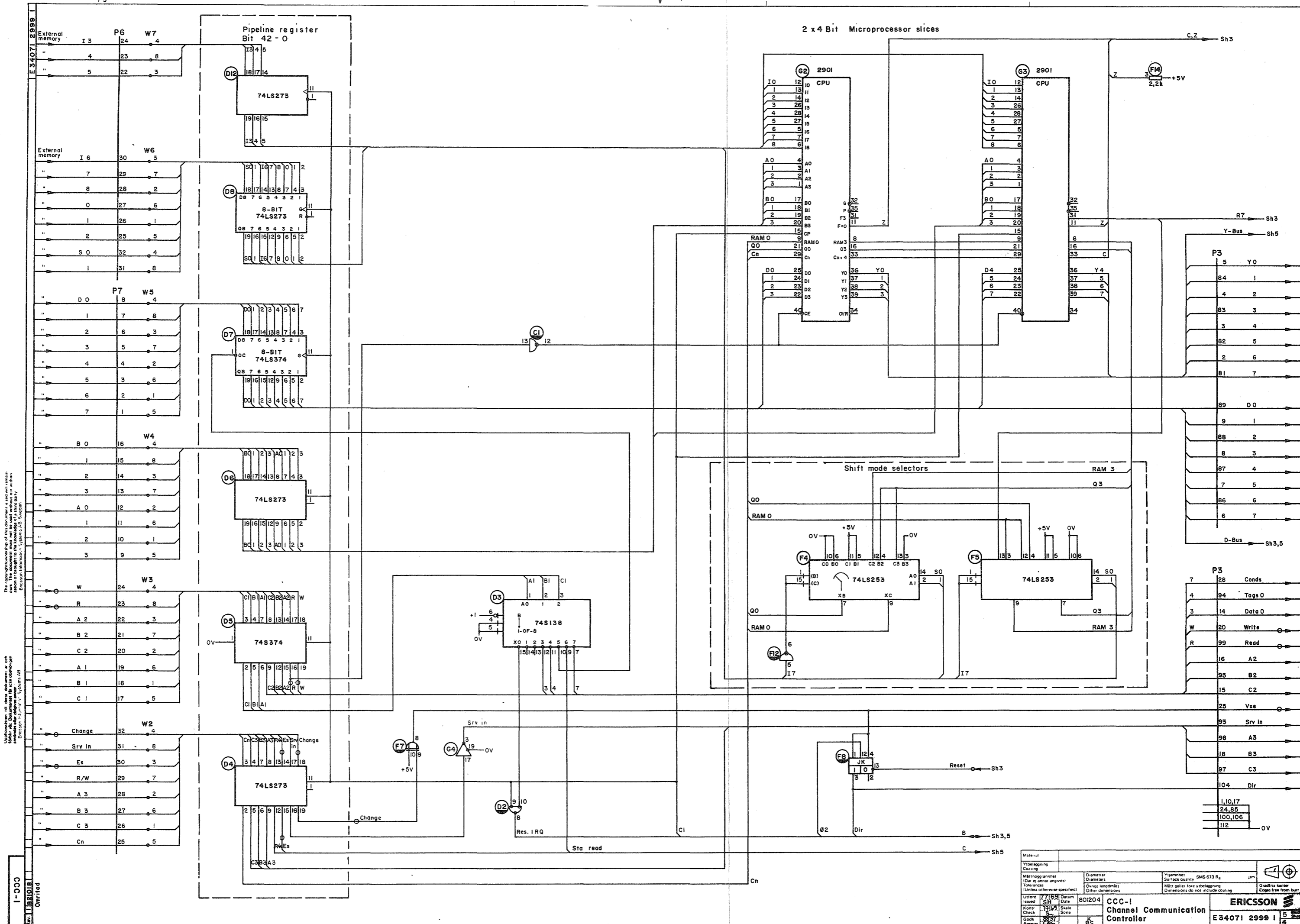
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1-300

1, 4, 9, 82
88, 94, 97
101, 105
109, 112

OV

Material		Ytbeläggning		Coating	
Måttoleranser (Där ej annat angivits)		Diameter		Yttre diameter	
Tolerances (Unless otherwise specified)		Diameter		Surface quality	
Utford		Datum		Skala	
Issued		Date		Scale	
Kontroll		Skala		K	
Check		Scale		BS	
Görsk		K		CCC-1	
Approv		BS		Channel Communication Controller	
Ericsson		E 34071 2999 I		5	



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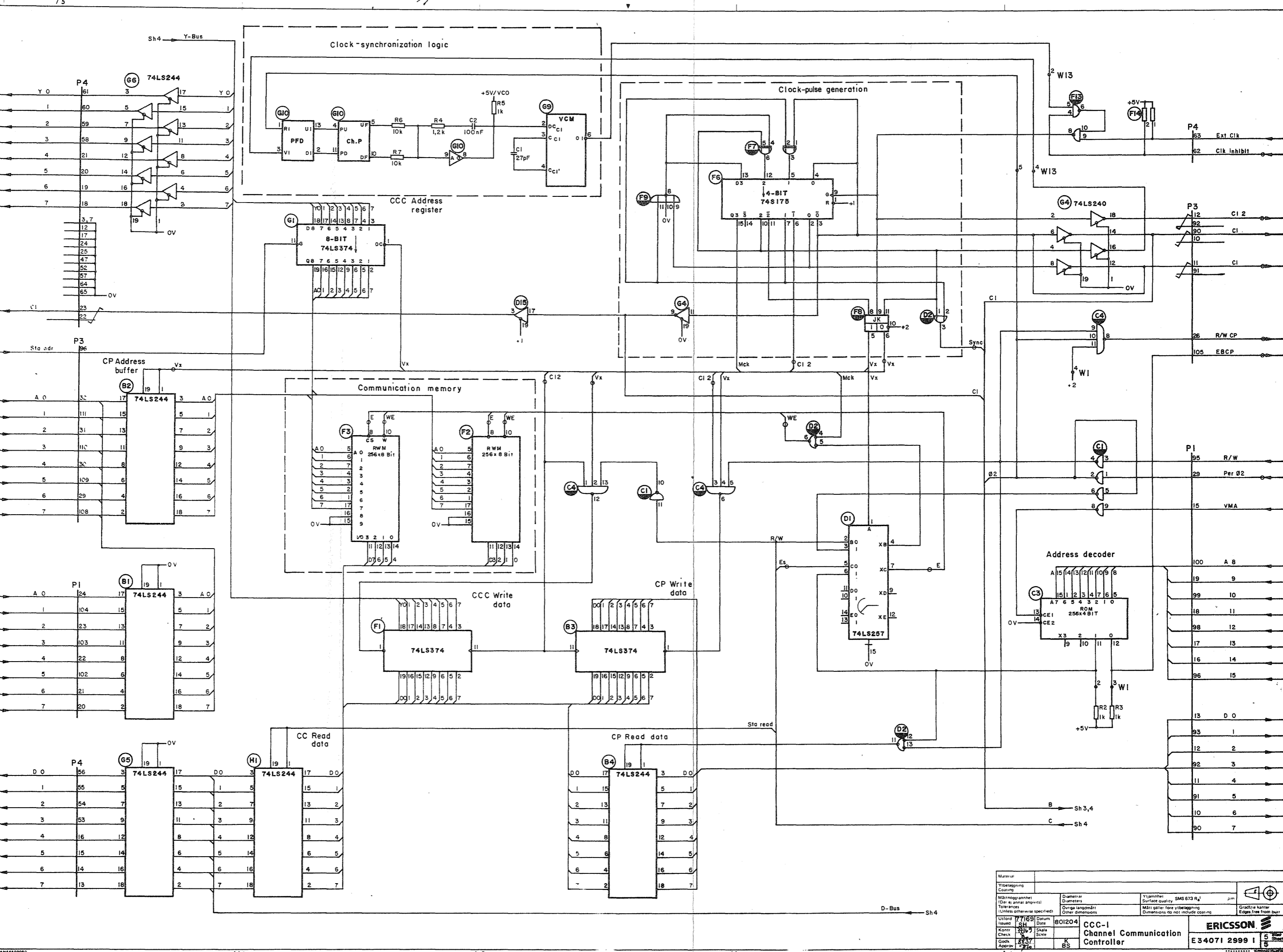
I-000
 1182018
 Omitted

Material		Ytbelegning		
Coating		Surface quality		
Måttolerans (Där ej annat angivits)	Diameter	Ytjämnhet	SMS 673 R _s μm	
Tolerances (Unless otherwise specified)	Other dimensions	Mått gäller före yttbelegning		Gräddfria kanter
Other dimensions		Dimensions do not include coating		Edges free from burr
Utförd	7/7/89	Datum	801204	CCC-1 Channel Communication Controller E34071 2999 I
Kontroll	SH	Skala	BS	
Godkänn	SH	Skala	BS	
Godkänn	SH	Skala	BS	

E34071 2999 I

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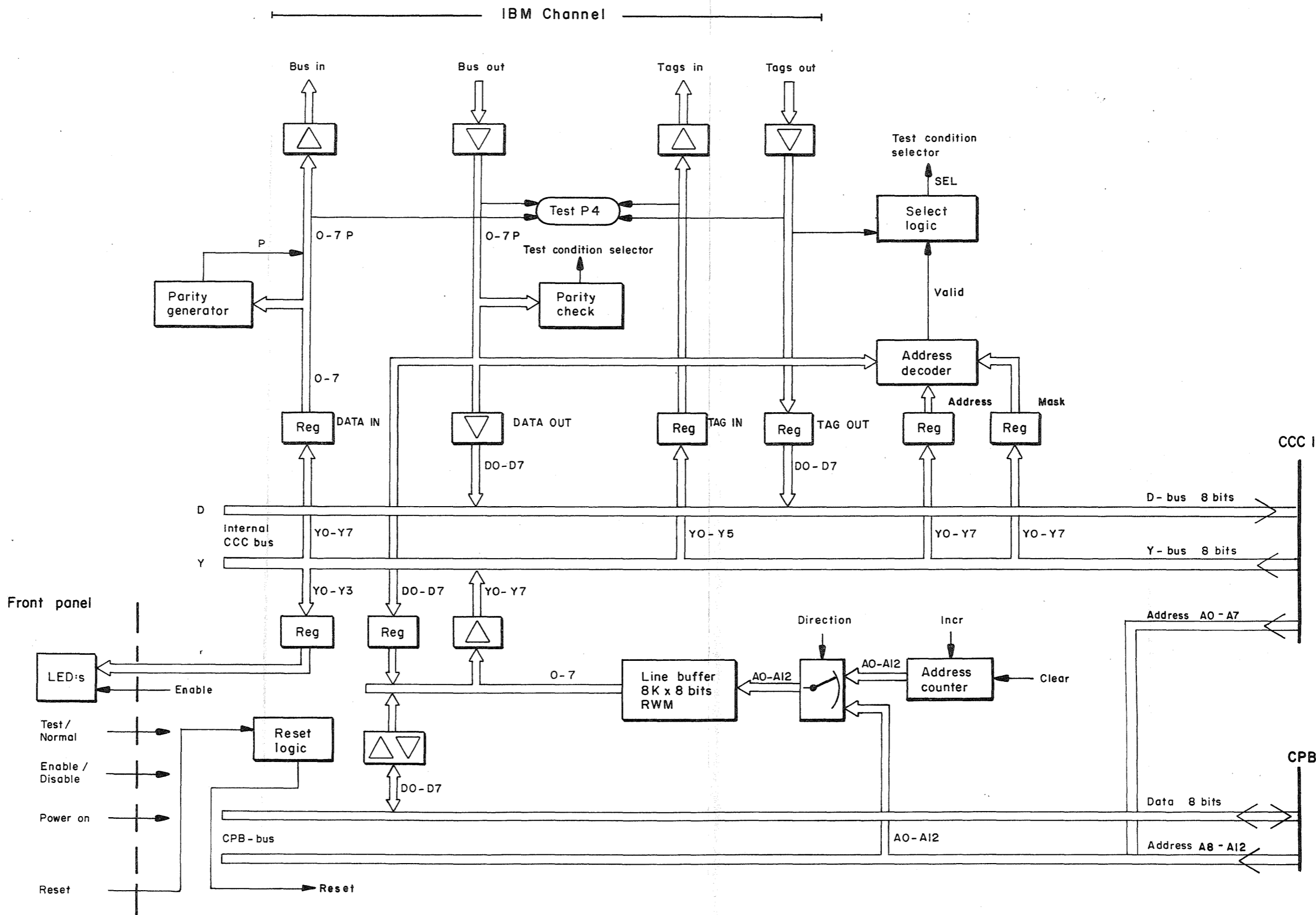
1-CCC
Rev. 1.02.01B
Omitted



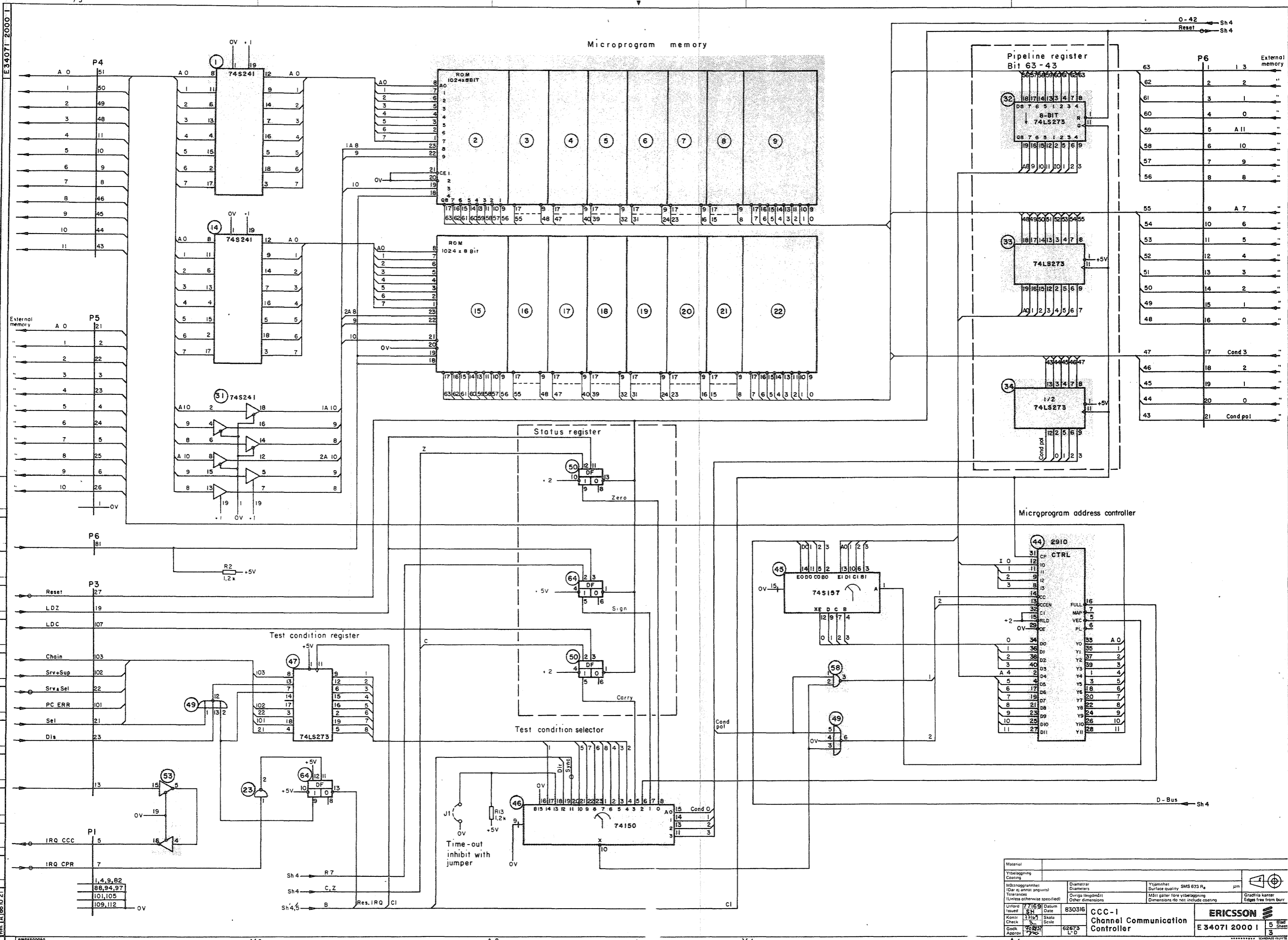
Material		Ytbeläggning Coating		Måttolerans (I de 8 annat angett) Tolerances (Unless otherwise specified)		Diameterar Diameters Övriga mått Other dimensions		Ytfinish Surface quality Mått gäller före yttäckning Dimensions do not include coating		Gröddkännetecken Edges free from burr	
Utfordrad Date	7/16/91	Datum Date	801204	Kontroll Check		Skala Scale		CCC-1 Channel Communication Controller		ERICSSON E34071 2999 I 5	

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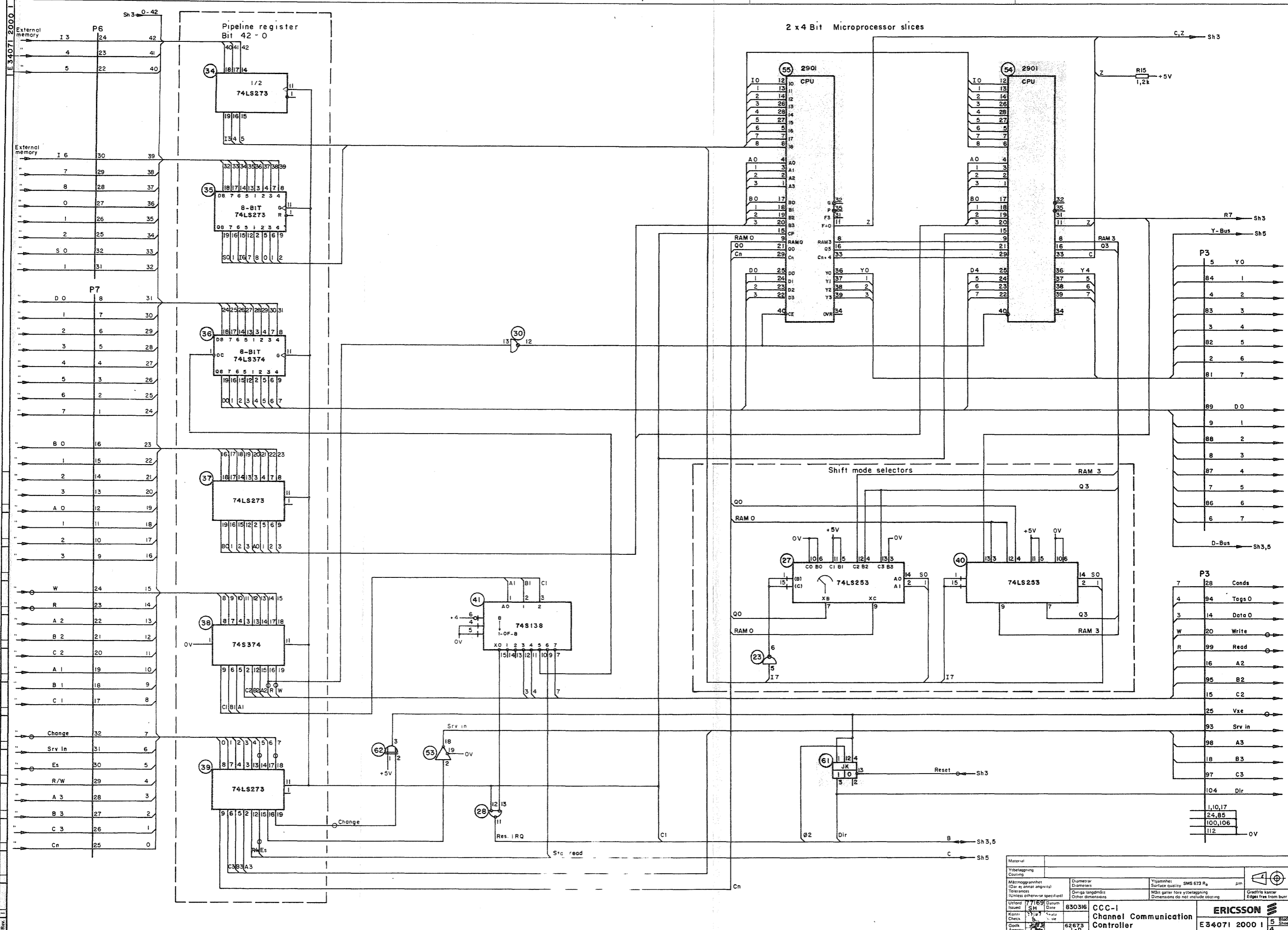
Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 Ra μm
Utförd Issued	77169 SH	Datum Date	830316
Kontr Check	77167	Skala Scale	
Godk Approv	70221	62673 L-D	
CCC I		ERICSSON	
E34071 2000 2		5 Sheet	
		2	



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Material		Ytbeläggning	
Coating		Coating	
Måttoleranser (I de fall som anges)		Diameter	
Tolerances (Unless otherwise specified)		Surface quality	
Other dimensions		Mitt gäller före ytbeläggning	
		Dimensions do not include coating	
Gradfri kanter		Edges free from burr	
Uttford	7/7/89	Datum	830316
Utgivet	3/1/89	Date	
Kontroll	3/1/89	Skala	
Godk. Appr.	3/1/89	L-D	62873
CCC-1 Channel Communication Controller		ERICSSON	
E 34071 2000 1		5 Blad	
		3	

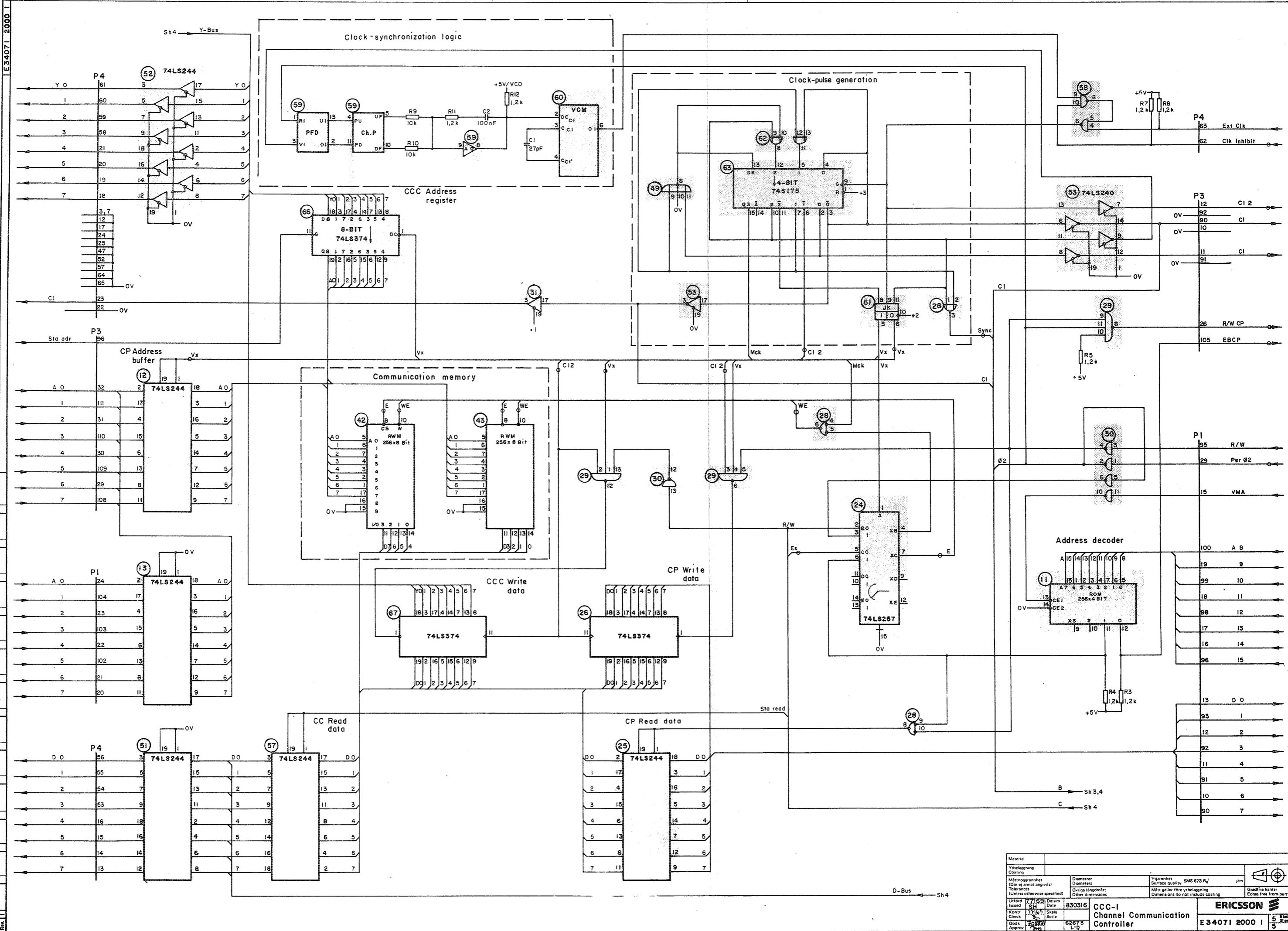
1-CCC
 Rev. A 10810 21



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CCC-1

Material		Ytbeläggning		Ytbeläggning	
Coating		Coating		Coating	
Måttolerans (Dar ej annat angivits)	Diameter	Ytfinish		µm	
Tolerances (Unless otherwise specified)	Diameters	Surface quality		SMS 673 Pa	
Övriga längdmått		Mått gäller före ytbeläggning		Grädfria kanter	
Other dimensions		Dimensions do not include coating		Edges free from burr	
Utförd 17/169	Datum	850316		CCC-1	
Issued	Date	Date		Channel Communication	
Kontroll	Check	62673		L-D	
Godkänn	Approv	62673		L-D	
Ericsson				E34071 2000 1	
Channel Communication Controller				5	
				4	



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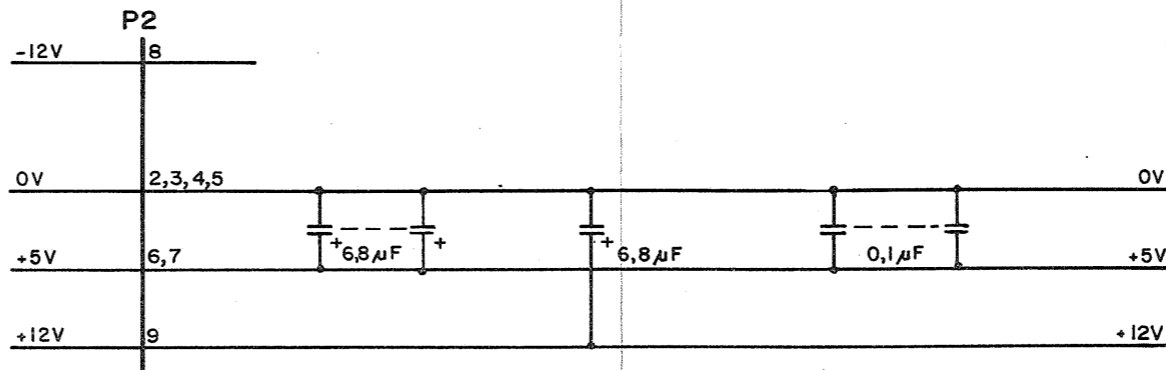
1-300

Material		Ytbeläggning		Coating	
Måttoleranser (Om ej annat anges)		Diameter	Ytjämnhet	SMS 673 R _z	
Tolerances (Unless otherwise specified)		Diameters	Surface quality	µm	
Övriga mått		Mått gäller före yttbeläggning		Gräddria kanter	
Other dimensions		Dimensions do not include coating		Edges free from burr	
Utfärd	7.7.89	Datum	830316	ERICSSON	
Skedd	SH	Skala	1:1	CCC-1 Channel Communication Controller	
Kontroll	3023	Skala	1:1	E 34071 2000 1	
Godkänn	3023	Skala	1:1	5	
Godkänn	3023	Skala	1:1	5	

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Ericsson Information Systems AB

TEST POINTS	
NO	SIGNAL (P4)
1	
2	
3	OV
4	Srv out
5	Cmd out
6	Hid out
7	OV
8	Data out 4
9	" " 5
10	" " 6
11	" " 7
12	OV
13	Data in 0
14	" " 1
15	" " 2
16	" " 3
17	OV
18	
19	Req in (Not suppressible)
20	Opl in
21	Adr in
22	
23	
24	OV
25	OV
41	
42	
43	Data out 0
44	" " 1
45	" " 2
46	" " 3
47	
48	Sel out
49	Sup out
50	Adr out
51	Opl out
52	OV
53	Data in 4
54	" " 5
55	" " 6
56	" " 7
57	OV
58	Sta in
59	Srv in
60	Req in (Suppressible)
61	Sel in
62	
63	
64	OV
65	OV



COMPONENT LIST

NO	TYPE #/
IC G4	74S74
IC H4	74S133
IC G1,9	74S138
IC D5,7,G8,H3,5,6	74LS00
IC C6	74LS08
IC C7	74LS27
IC C12,G2	74LS32
IC C4,5,D8,G3	74LS74
IC G6,7	74LS86
IC C11	74LS138
IC C8-10,D9	74LS161
IC F2,6	74LS174
IC D4,10,H1	74LS175
IC F9	74LS240
IC A5,9,F3,10-13	74LS244
IC A6	74LS245
IC B6-9	74LS257
IC F1,5	74LS273
IC H2	74LS279
IC B5,G5	74LS280
IC A7,8,F4	74LS374
IC G11	75452
IC A10-17,B10-17	M2114
IC G14	MPQ 2222
IC G13	ED5201 3383
IC G12	NE555
IC A1-4,B1-4,G15	8T23
IC C1-3,D1-3	8T24
G10	330Ω
D6,11	1,2kΩ

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS/PIN
+1	D6/1
+2	D6/2
+3	D6/3
+5	D6/5
+6	D6/6
+7	D11/10
+8	D11/11

Example +1 CONN. TO R
+1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS			
	NUMBER	SH	MOD.	1 2
E 34072 2999 2	1	REV.	1 2	
"	2	"	1	
"	3	"	1	
"	4	"	1 2	
"	5	"	1	

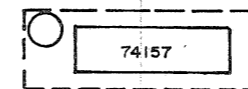
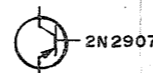
ASSEMBLY DRAWING NO. 34072 0999 21

TRANSLATION OF PIN NO					
	8/16	8/12		8/14	
1	1	1		1	1
2	2	2		2	2
3	3	3		3	3
4	4	4		4	4
5	5		1	5	5
6	6		2	6	7
7	7		3	7	7
8			4	8	8
9			5	9	9
10	8		6	10	
11	9		7	11	5
12	10		8	12	6
13	11	5		13	7
14	12	6		14	8
15	13	7			
16	14	8			

SYMBOLS

- = 0V FOIL DISTR.
- = +5V FOIL DISTR.
- ◇ = VOLTAGE PIN
- ⊥ = STATED PIN NO. CONN.
- A:1,2,3 = FOIL CONN. BROKEN
- Y = TEST JACK
- Y = TEST JACK, REPEATED SYMBOL
- ↯ = TWISTED WIRE
- ⊙ (8/16) = 14-PIN DIP MOUNTED IN 16-PIN HOLDER (HOLDER PIN 1 CORRESPONDS TO DIP PIN 1)
- ⊙ (8/12) = 8-PIN DIP MOUNTED IN 16-PIN HOLDER, POSITION 1 (HOLDER PIN 1 CORRESPONDS TO DIP PIN 1)
- ⊙ (8/14) = 8-PIN DIP MOUNTED IN 16-PIN HOLDER, POSITION 2 (HOLDER PIN 5 CORRESPONDS TO DIP PIN 1)
- ⊙ (A10) = 8-PIN DIP MOUNTED IN 14-PIN HOLDER (HOLDER PIN 1 CORRESPONDS TO DIP PIN 1)

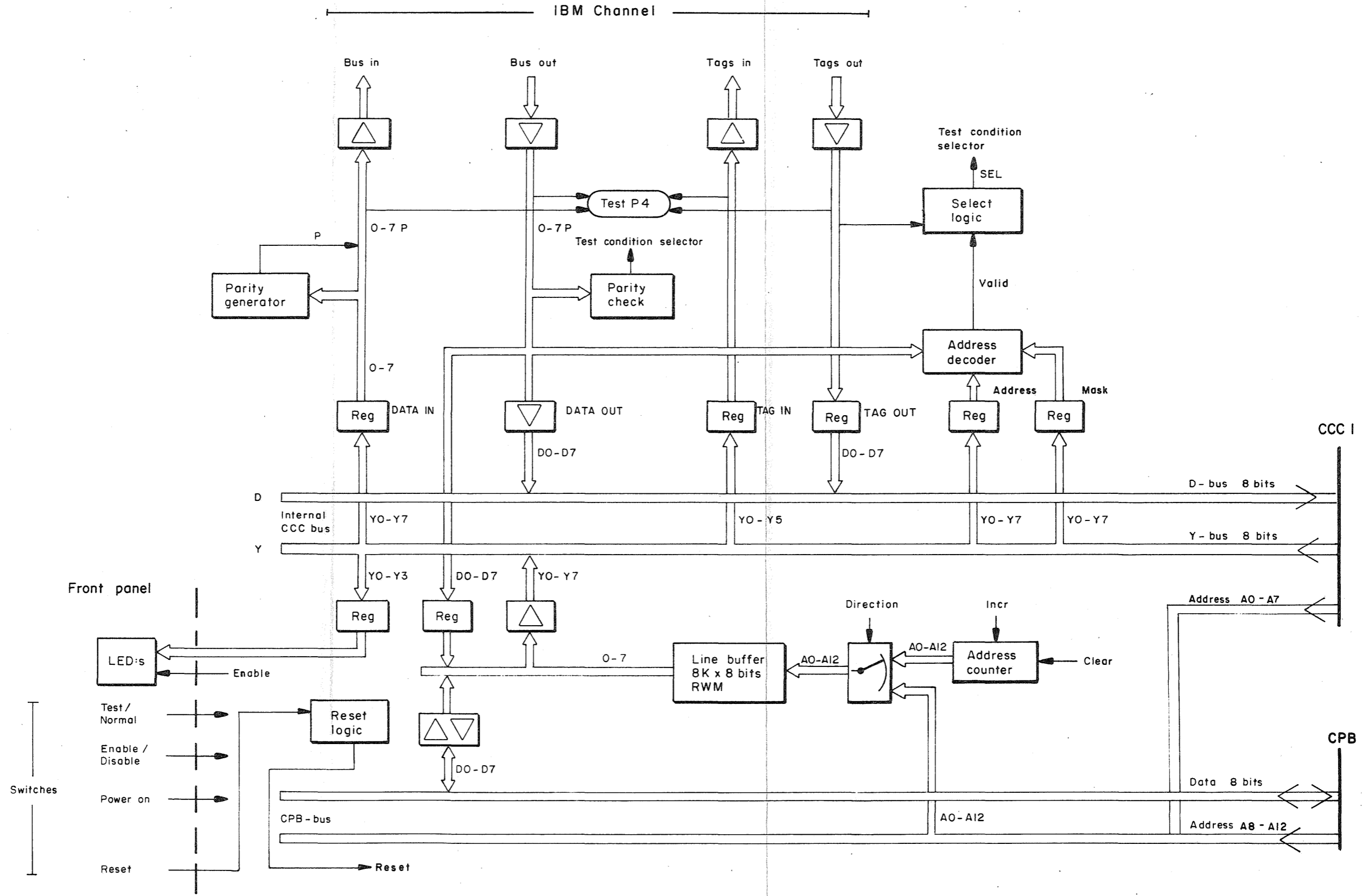
*/ INDICATED DESIGNATIONS
EXAMPLES ONLY OF
EXISTING CIRCUIT TYPES



Material			
Ytbeläggning Coating			
Måttillaggränshet Dar ej annat angivits: Tolerances Unless otherwise specified:	Diameter Diameters	Ytjämnhet Surface quality	SMS 673 Ra μm
Utförd Issued	7/169 SH	Datum Date	801204
Kontroll Check	7/169 S	Skala Scale	
Görk Approv	8/31 CNO	K BS	
CCC-2 Channel Communication Controller		ERICSSON	
E34072 2999 2		5 Blad Sheet	

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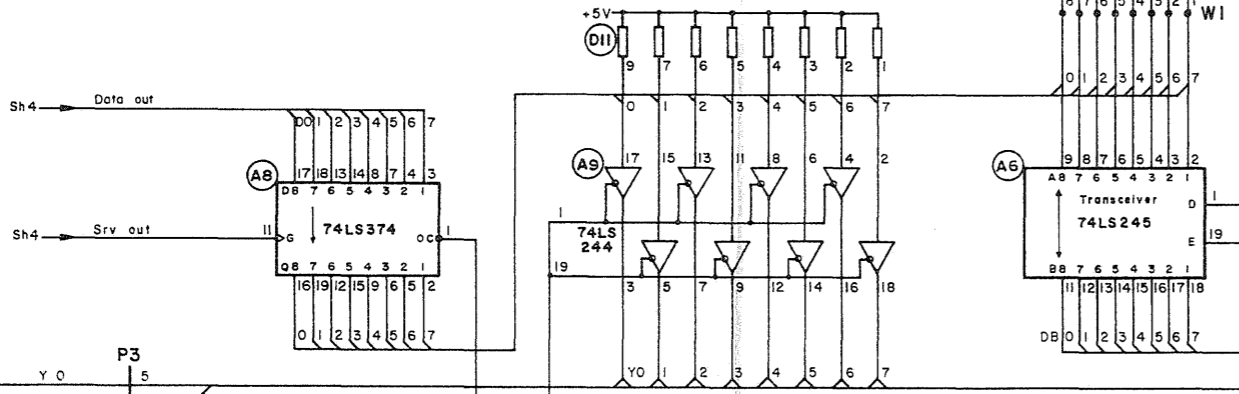
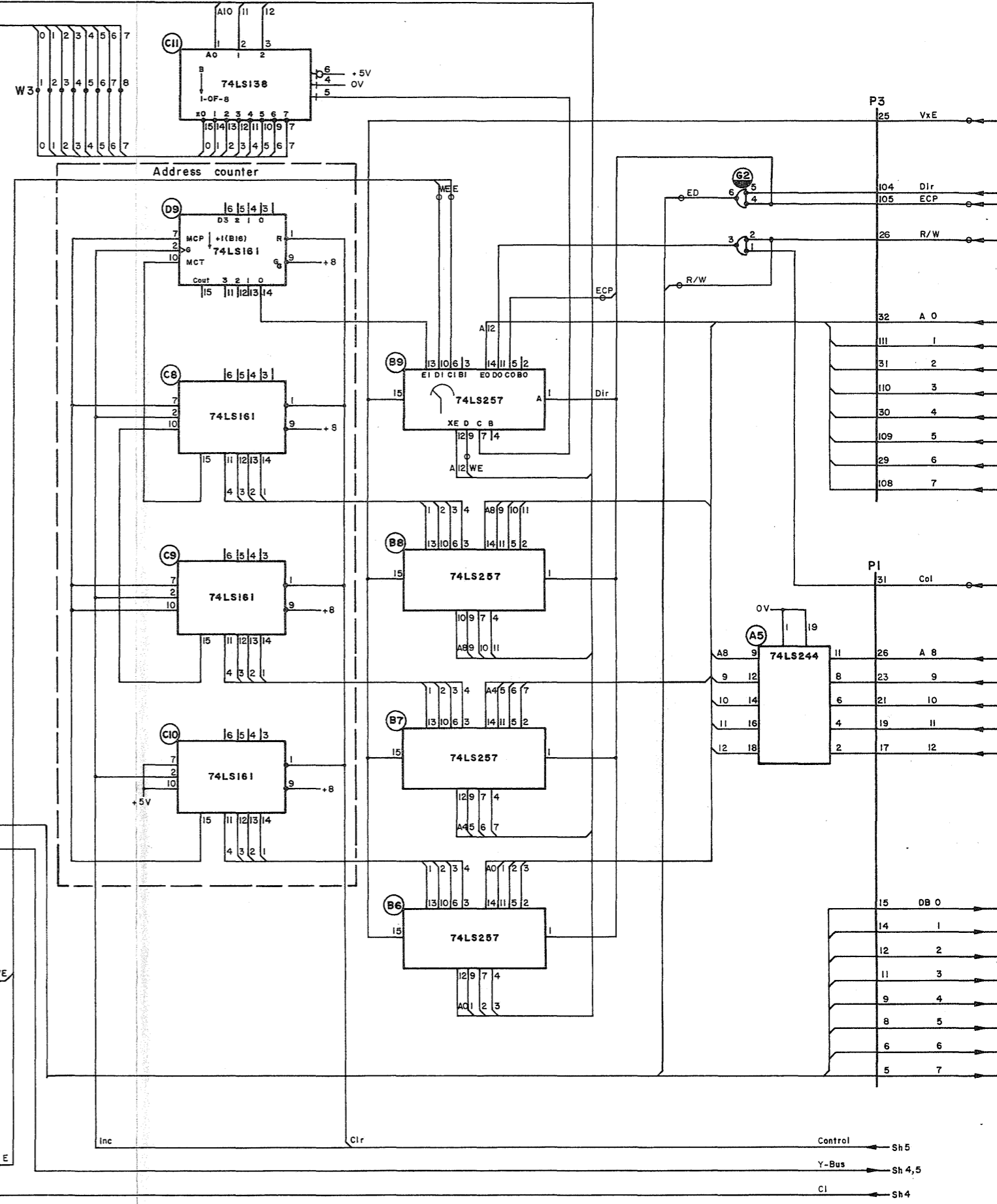
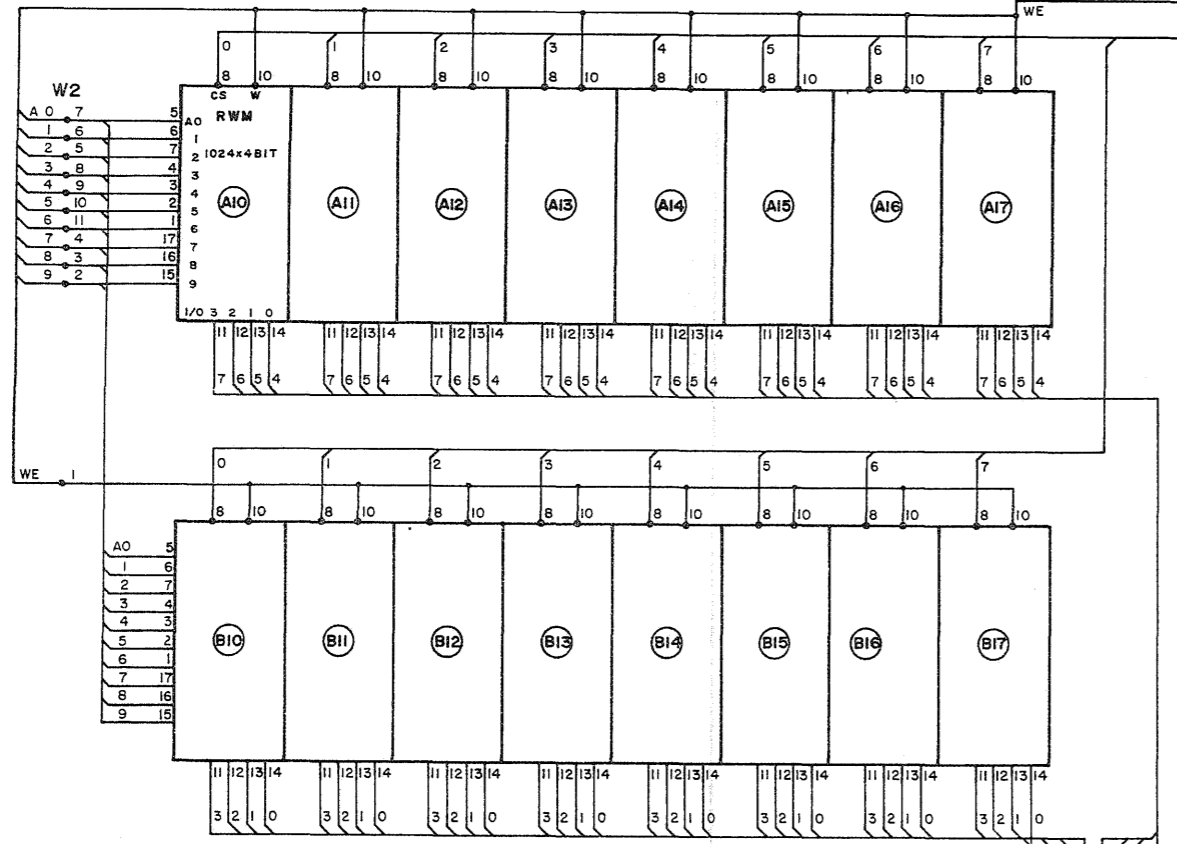
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2 CCC
Rev. 11821018
Omritad

Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _a μm
Tolerances (Unless otherwise specified)	Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Grädfria kanter Edges free from burr
Utförd Issued	7.7.69 S.H.	Datum Date	820202
Kontr. Check	7.7.69 S.H.	Skala Scale	
Godk. Approv	8.2.7 G.M.	9328	G.M.
CCC 2		ERICSSON	
E34072 2999 2		Blad Sheet	
		2	

Line buffer



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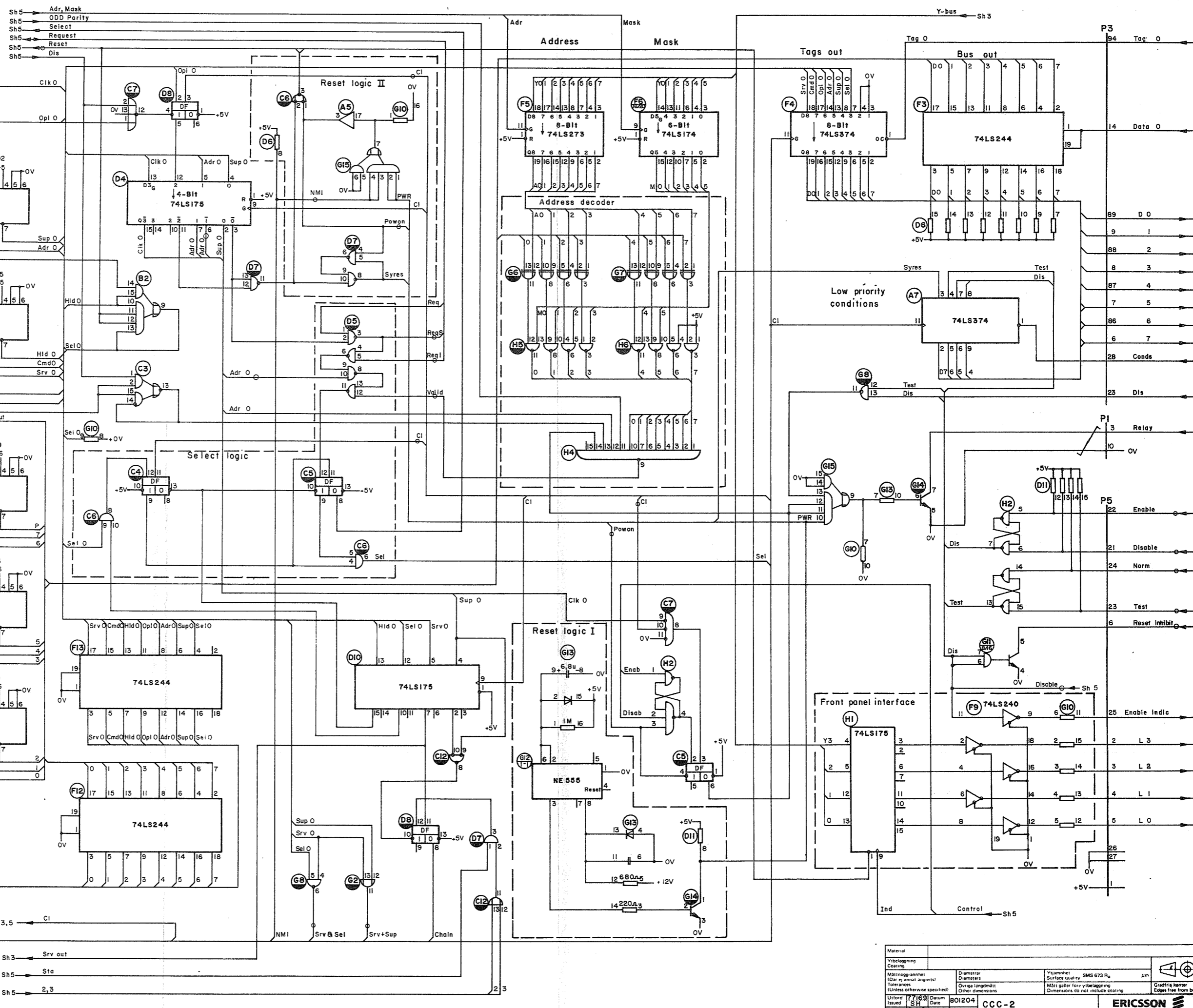
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CCC-2
Rev. 1 182/D18
Områd

Material			
Ytbeläggning			
Coating			
Microstruktur	Diameter	Ytstruktur	SMS 673 R ₂ μm
Idar ej annat angivits	Diameters	Surface quality	
Tolerances	Övriga angivnings	Mått gäller före ytbeläggning	Grindfri kant
Unless otherwise specified	Other dimensions	Dimensions do not include coating	Edges free from burr
Utförd	77/69	Datum	801204
Issued	SH	Date	BS
Kontroll	77/69	Skala	
Check	SH	Scale	
Godkänn	77/69	Skala	
Approved	SH	Scale	
CCC-2 Channel Communication Controller			ERICSSON E34072 2999 1 5

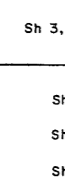
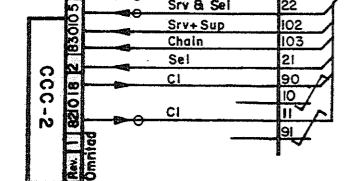
E34072 2999 1

15



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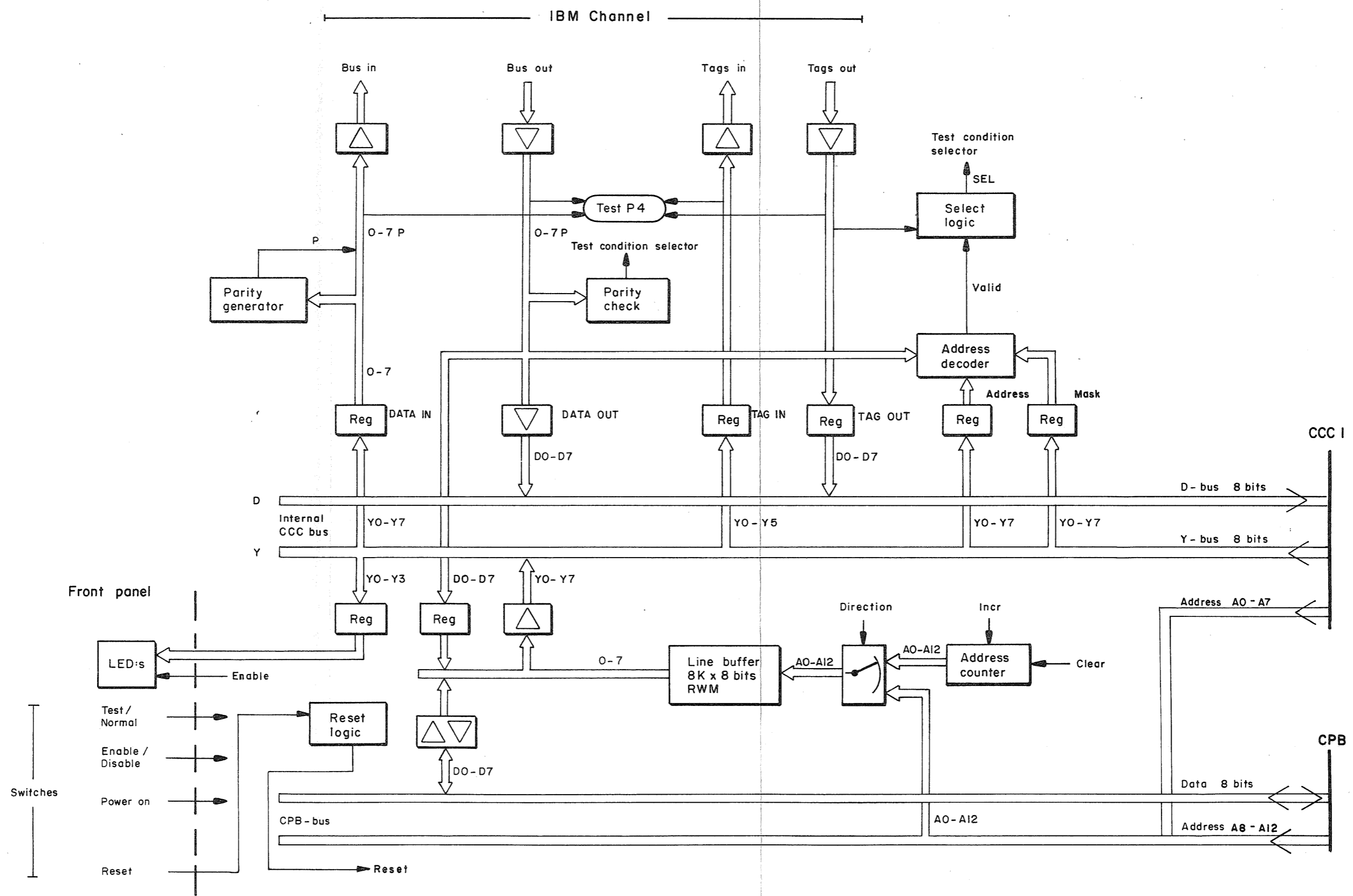
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Material		Ytbeläggning		Coating	
Måttoleranser (utom så annat angivits)		Diameter		Ytjämnhet	
Tolerances (Unless otherwise specified)		Diameter		Surface quality	
Other dimensions		Other dimensions		Mått gäller före ytbeläggning	
Dimensions do not include coating		Dimensions do not include coating		Edges free from burr	
Utförd av	7/769	Datum	801204	CCC-2 Channel Communication Controller	
Kontroll	SH	Skala		ERICSSON	
Godkänn	BS			E 34072 2999 1	

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2 CCC

Rev. 11

AN56500079

V 2

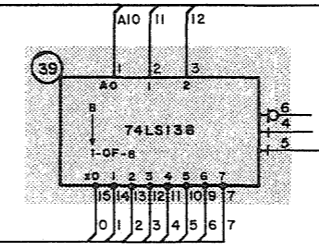
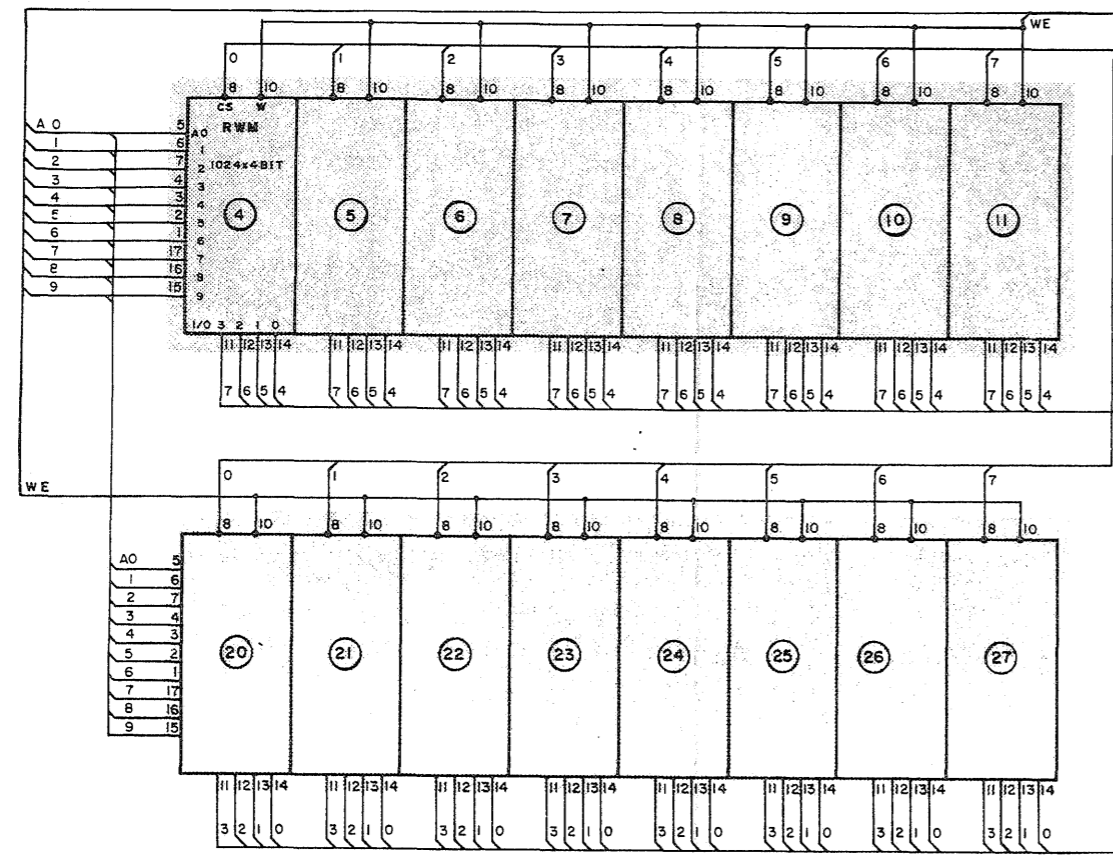
A

A 1

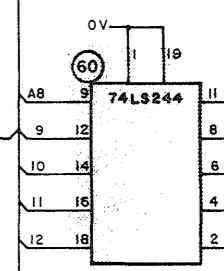
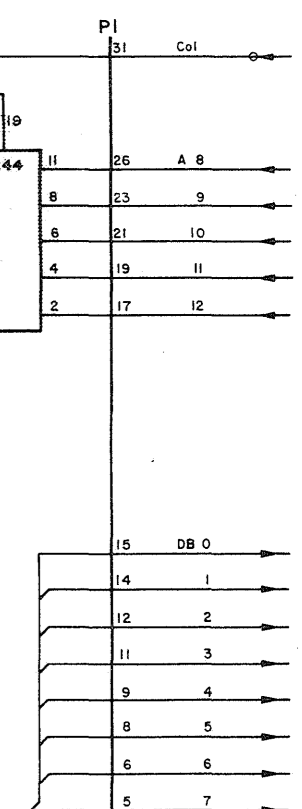
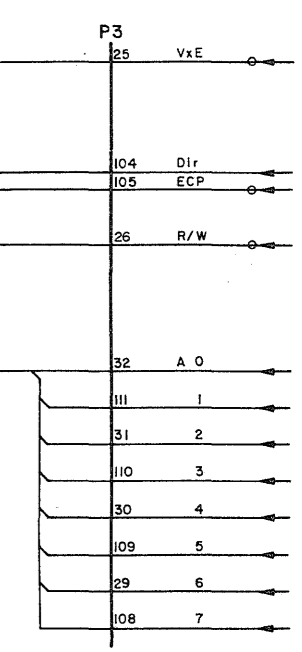
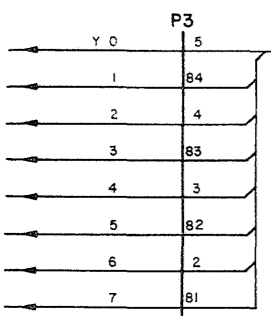
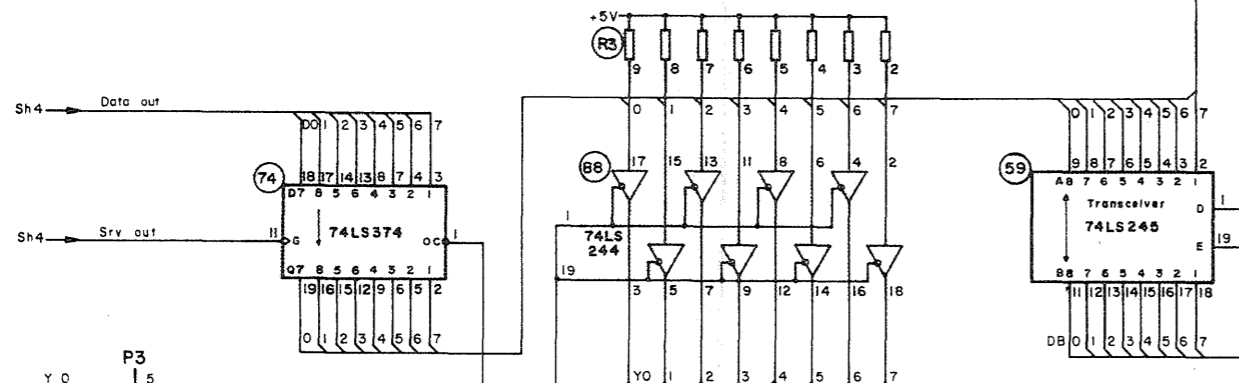
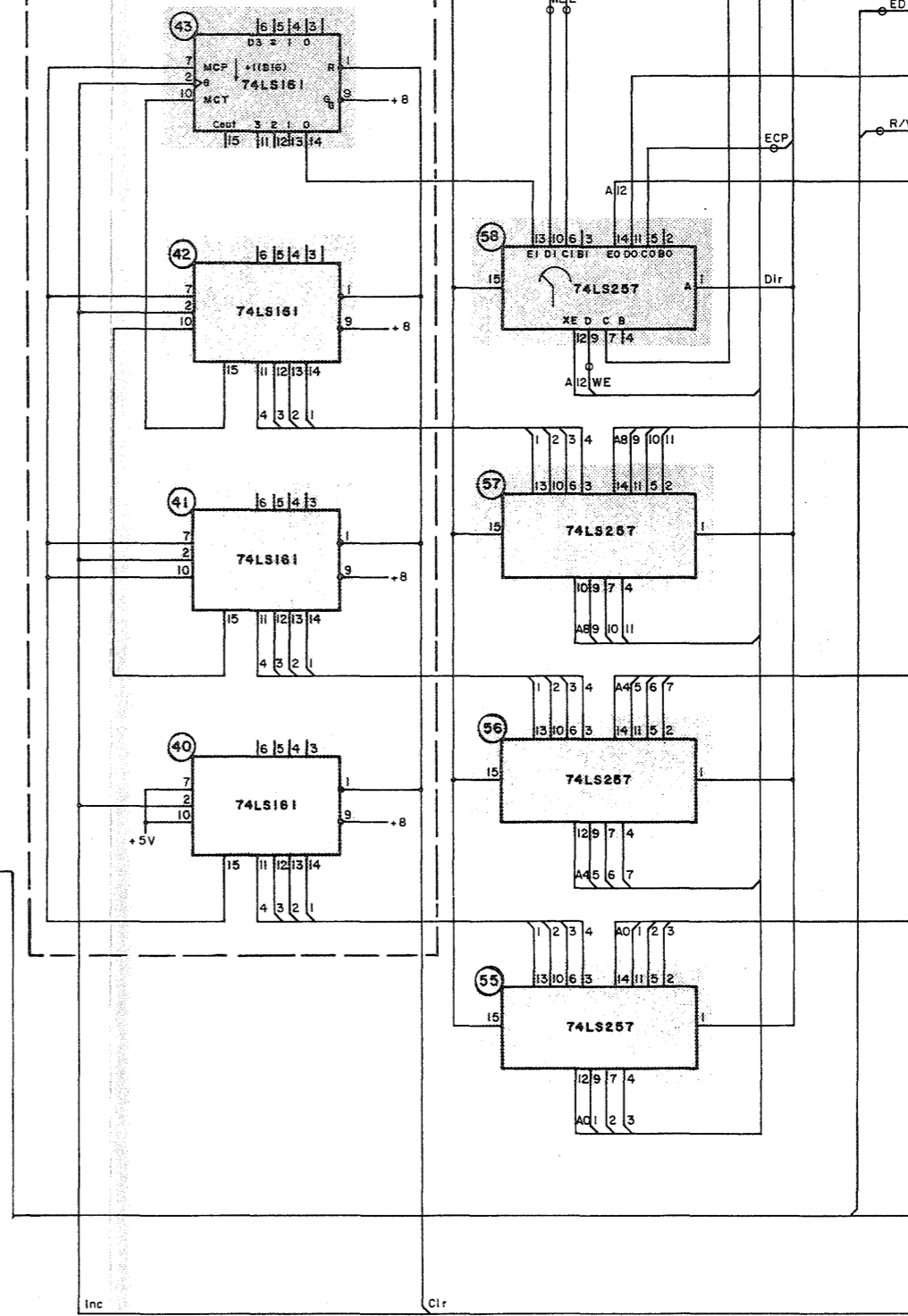
Material			
Ytbeläggning Coating			
Mått noggrannhet (Dar ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _p μm
Utförd Issued	77169 SH	Datum Date	830317
Kontr Check	77169 Su	Skala Scale	
Godk Approv	40831 C/ro	62673 L-D	
CCC 2 Channel Communication Controller		ERICSSON	
E34072 2000 2		2	

E 34072 2000 I

Line buffer



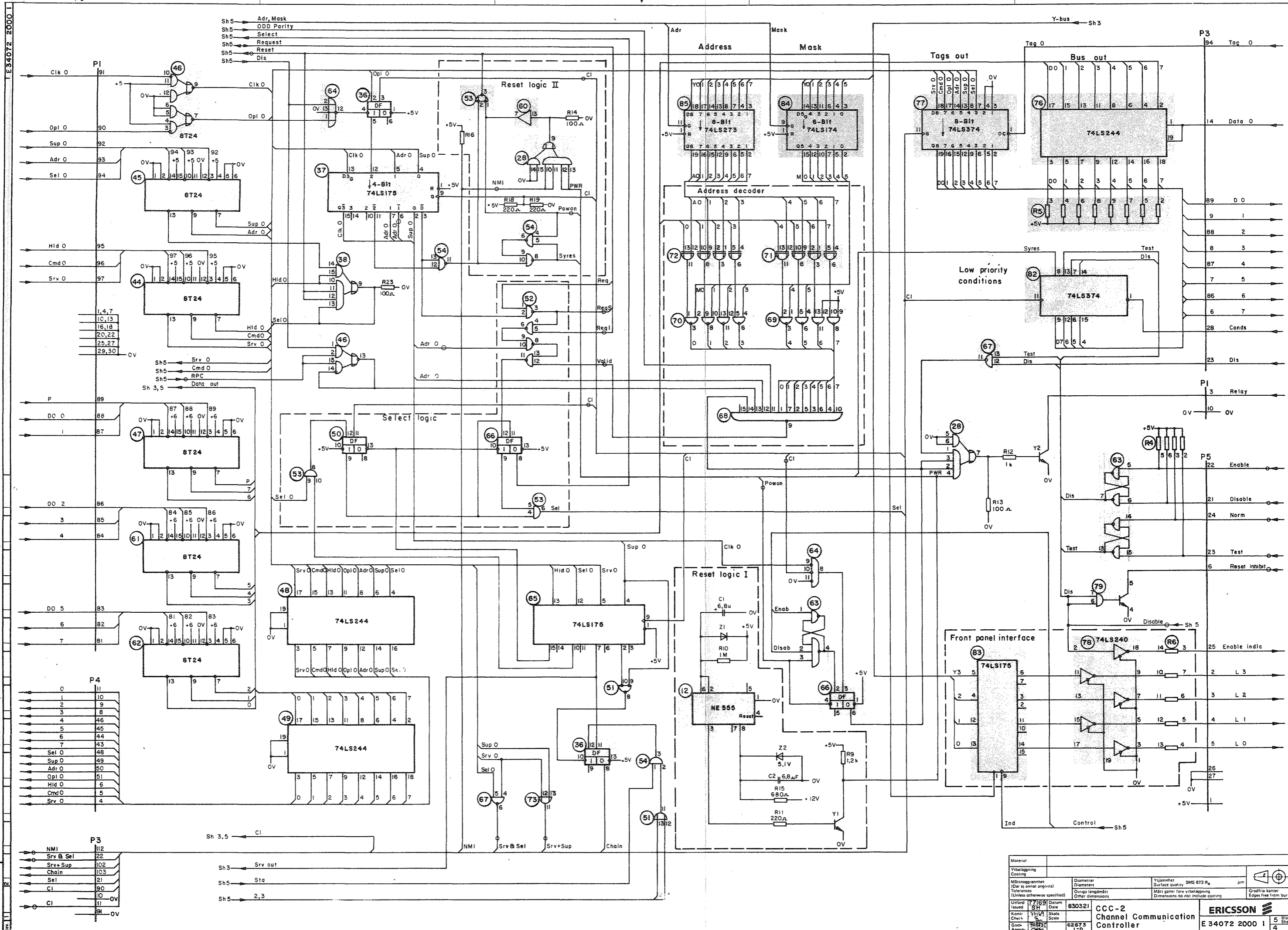
Address counter



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2-333

Material		Ytbeläggning		Coating	
Måttoleranser (för ej anslutnings)		Diameter		Ytfinish	
Tolerances (Unless otherwise specified)		Other dimensions		Surface quality	
Utförda		Datum		830321	
Kontroll		Skala		1:1	
Godkänn		62673		L.O	
CCC-2 Channel Communication Controller				ERICSSON	
E 34072 2000 I				Blad 5	



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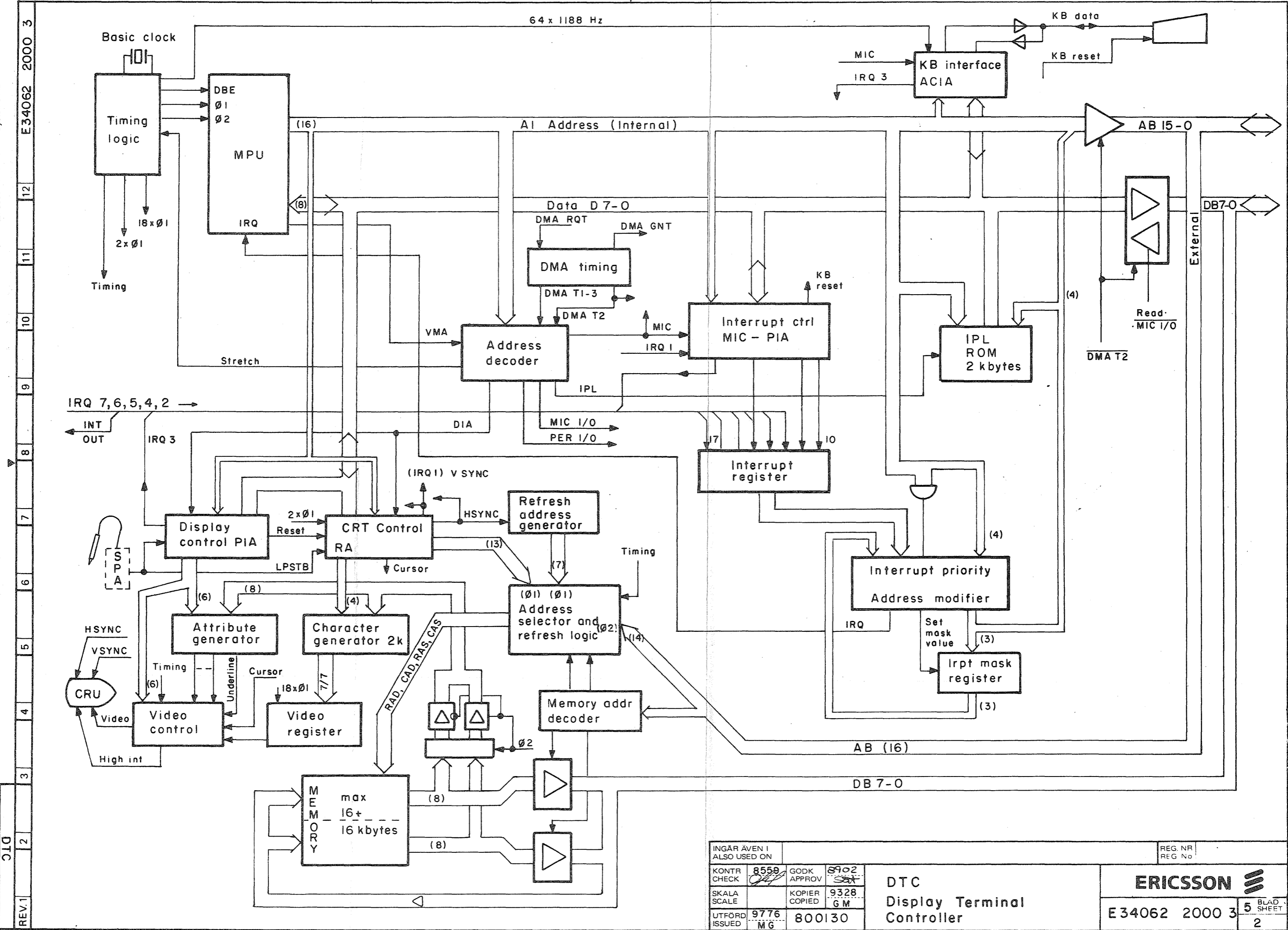
Material		Ytbeläggning		
Coating				
Måttolerans (Där ej annat angivits)	Diametrar	Ytjämnhet	SMS 873 R _z	µm
Tolerans (Unless otherwise specified)	Övriga längdmått	Mått gäller före ytbeläggning	Diameter	
Övriga dimensioner	Övriga dimensioner	Dimensioner do not include coating		Gränslinjer fria från burr
Utförd	17/59	Datum	630321	CCC-2
Skedd	SH	Skala	1:1	Channel Communication
Kontroll	SH	Skala	1:1	Controller
Godkänn	SH	Skala	1:1	ERICSSON
Godkänn	SH	Skala	1:1	E 34072 2000 1
Godkänn	SH	Skala	1:1	5 Blad
Godkänn	SH	Skala	1:1	4

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INGÅR ÄVEN I ALSO USED ON	KONTR CHECK	8558	GODK APPROV	8902
SKALA SCALE	UTFÖRD ISSUED	9776 MG	KOPIER COPIED	9328 GM
			800130	

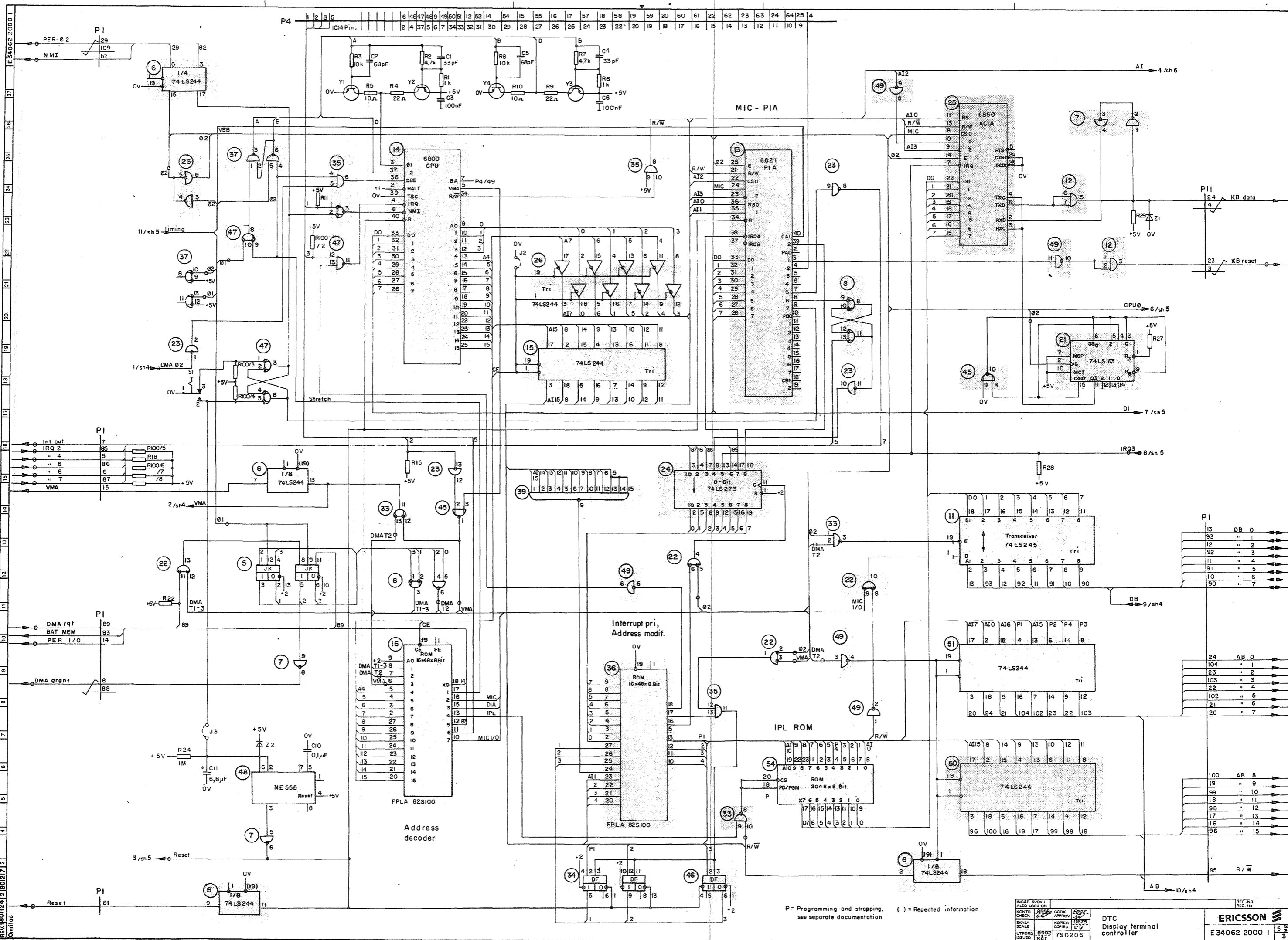
DTC
 Display Terminal
 Controller

REG. NR REG No	ERICSSON	E 34062 2000 3	5 BLAD SHEET
			2

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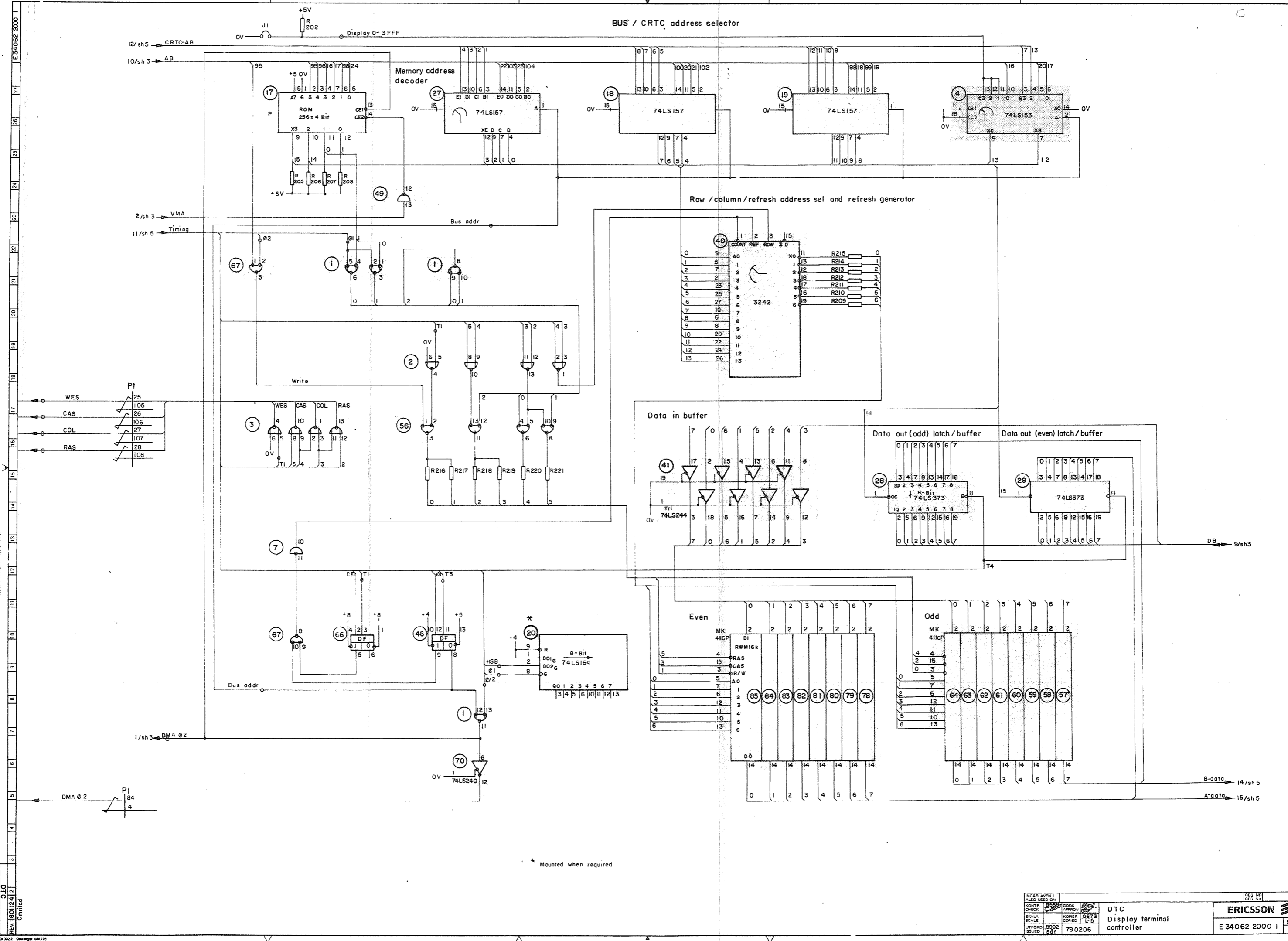
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P = Programming and strapping, () = Repeated information, see separate documentation

INGÅR AVEN I	ALSO USED ON	REG. NO.	REG. NO.
KONTROLL	REVISION	790206	790206
SKALA	KOPIER	06/73	06/73
UTFÖRD	UTFÖRD	8902	8902
ISSUED	ISSUED	5/87	5/87

DTC Display terminal controller
 E34062 2000 1 5/87



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* Mounted when required

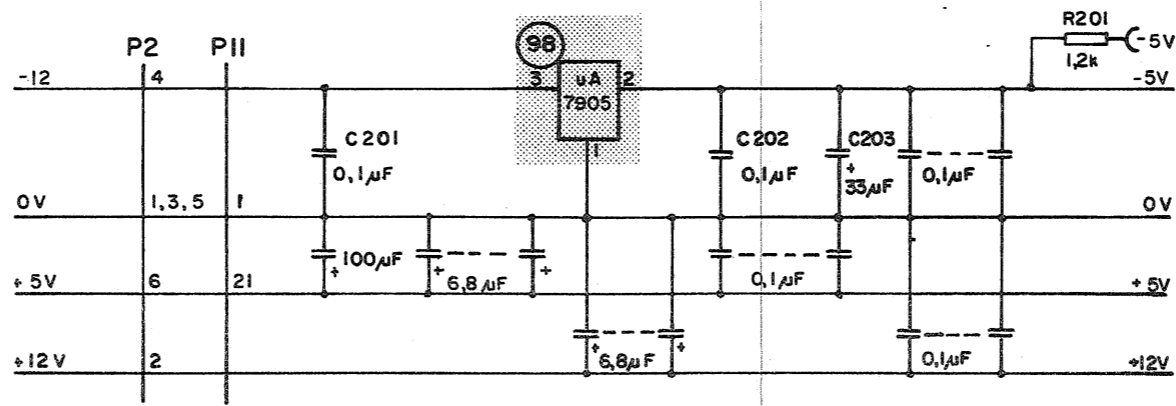
INGÅR AVEN I ALSO USED ON	REG. NR. REG. NO.
KONTROLL CHECK	8556
SKALA SCALE	1:1
UTGIVNING ISSUED	8902
UTGIVNING ISSUED	8902
DTC Display terminal controller	ERICSSON
E 34062 2000 1	4

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TEST POINTS	
NO	SIGNAL
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COMPONENT LIST

NO	TYPE *)
IC 1, 4, 19, 70	74LS00
IC 18, 30, 68	74LS02
IC 5, 6	74LS04
IC 2, 45	74LS08
IC 90	74LS10
IC 35	74LS14
IC 71	74LS20
IC 69	74LS32
IC 26	74LS37
IC 20, 21, 37, 72, 92	74LS74
IC 89	74LS96
IC 3	74LS107
IC 48	74LS153
IC 32, 33, 47	74LS157
IC 27	74LS163
IC 52	74LS164
IC 43, 51	74LS240
IC 9, 10, 15, 22, 25, 44	74LS244
IC 23	74LS245
IC 8	74LS273
IC 66, 86	74LS373
IC 67, 87	74LS374
IC 49	74LS390
IC 38	74LS398
IC 50	74S08
IC 46, 73	74S32
IC 57, 74	74S37
IC 53, 76, 77, 88, 91, 94	74S74
IC 95, 96	74S86
IC 93	74S86
IC 11	74S133
IC 29, 75	74S273
IC 54	74S373
IC 56	74S374
IC 16	MC68050
IC 13, 14	MC68050
IC 12	MC68055
IC 24	MC68055
IC	MC68050
IC	ROM16x48x8 Bit
IC 34, 36	ROM256x4 Bit
IC 40, 41	ROM1024x8 Bit
IC 42	ROM2048x8 Bit
IC 31	D3242
IC 58-65, 78-85	MK4116
IC 97	NE555
IC 17	MPQ6842
Y55	UA79M05
Z1	IN750A
R300	1,2k
X1	KS74103-40
Z2	IN4148

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS/PIN
+ 1	R16
+ 2	R25
+ 3	R27
+ 4	R203
+ 5	R204
+ 6	R305
+ 7	R314
+ 8	R315
+ 9	R316

Example: +1 CONN. TO R
+IG CONN TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS			
	NUMBER	SH	MOD.	7
E 34062 2001 2	1	REV.	1	
" " " " " "	3	"	"	"
" " " " " "	1	3	"	"
" " " " " "	1	4	"	"
" " " " " "	1	5	"	"
" " " " " "	"	"	"	"
" " " " " "	"	"	"	"
" " " " " "	"	"	"	"

ASSEMBLY DRAWING NO. E34062 0000 2

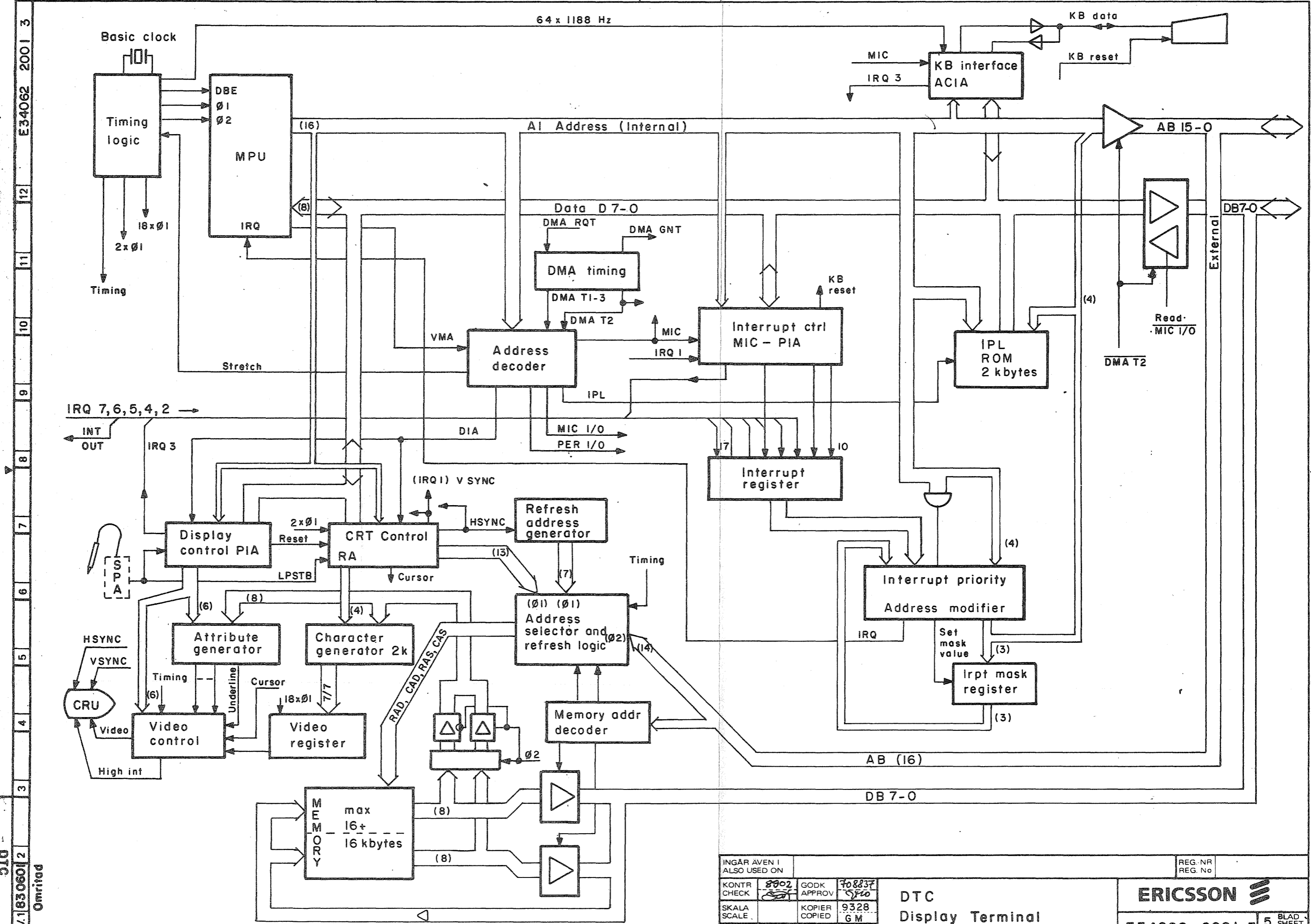
NGAP ALEN RÄLS ÖSD 111	REG-NR REG-NO	DTC Display terminal controller	ERICSSON
PORT- CIRCUIT 8902 8901	790206		
SKALA SCALE 0673 L-D	UTFORD ISSUED 8902 8901	5	E 34062 2001 2

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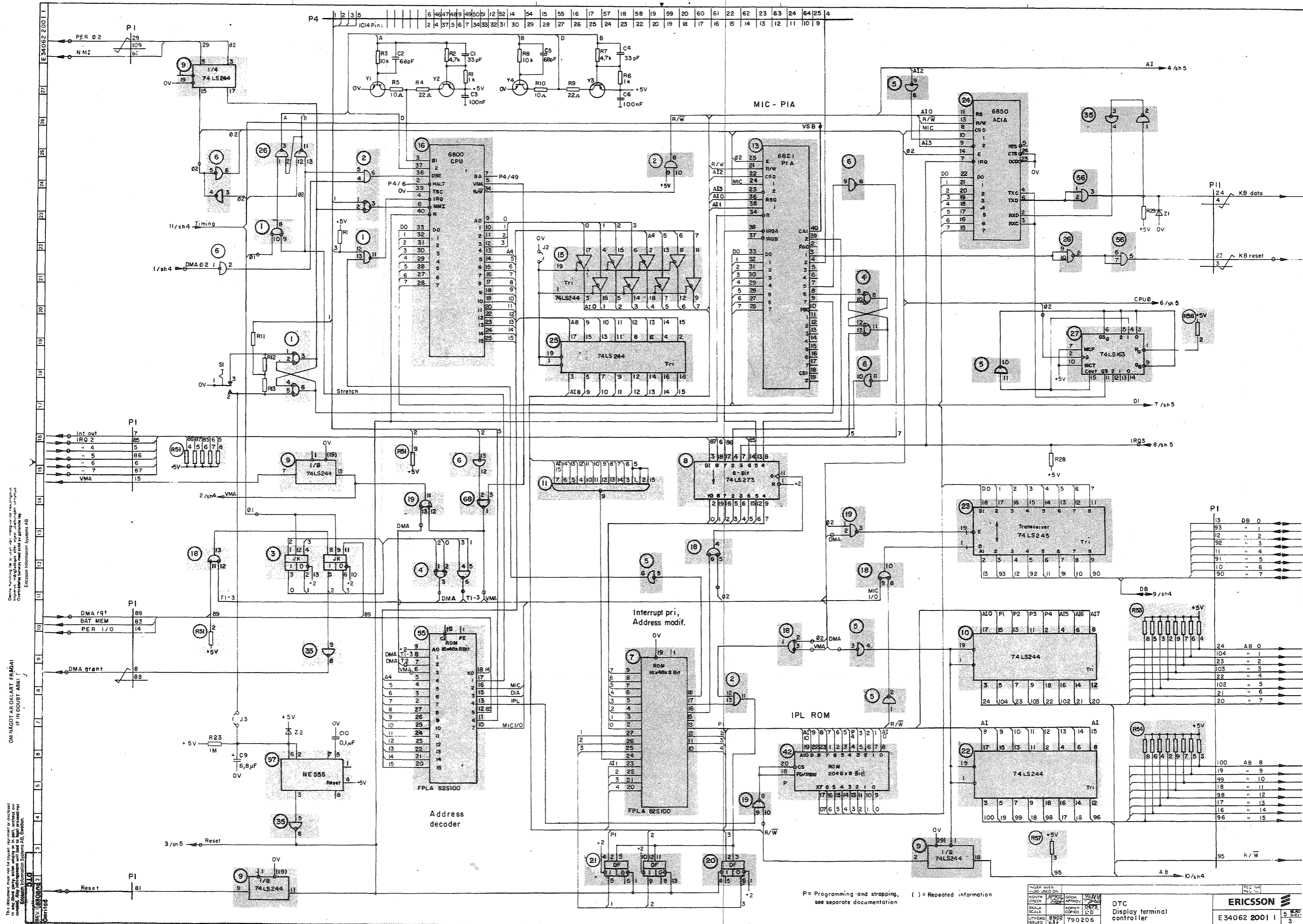
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INGÅR ÄVEN I ALSO USED ON			
KONTR CHECK	8902	GODK APPROV	708837
SKALA SCALE		KOPIER COPIED	9328 GM
UTFÖRD ISSUED	9776 MG	800130	

DTC
Display Terminal
Controller

REG-NR REG. No	
ERICSSON	
E34062 2001 3	5 BLAD SHEET
	2



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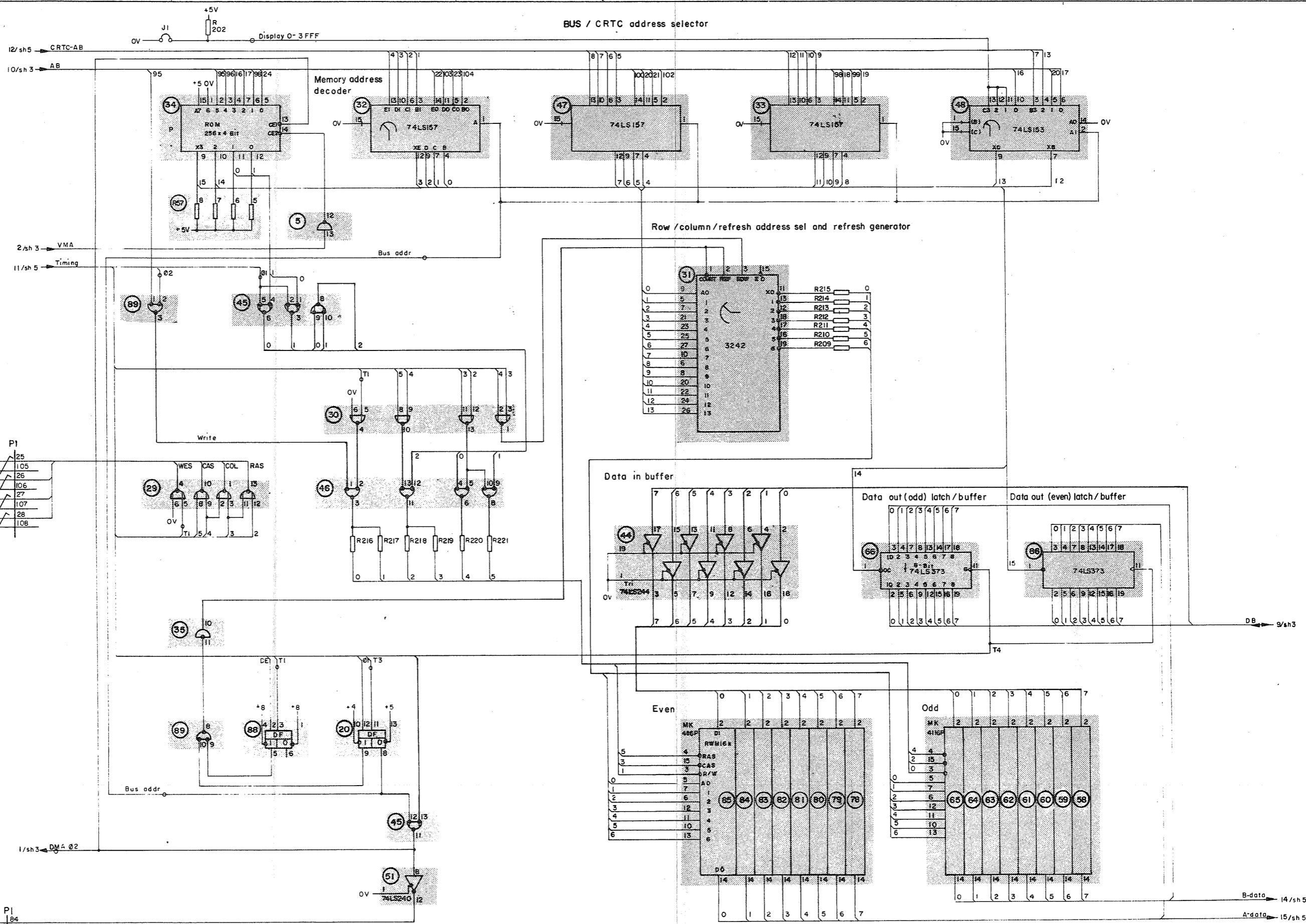
P = Programming and strapping, see separate documentation
 () = Repeated information

NGAR AVEN. 1-30 USED ON	REV. 1	DATE	BY
CONTR. LESTER	790206		
CHECK			
SKALA	06/73		
SCALE	COMED L/D		
UTGÅVA	8902		
ISSUED	547	790206	

DTC
 Display terminal controller

ERICSSON
 E 34062 2001 I 5

BUS / CRTIC address selector



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OM NAGOT AR OKLADT FRAGI
 19 IN COURT ASKI
 Ericsson Information Systems AB
 REV. 880601 2
 Omitted

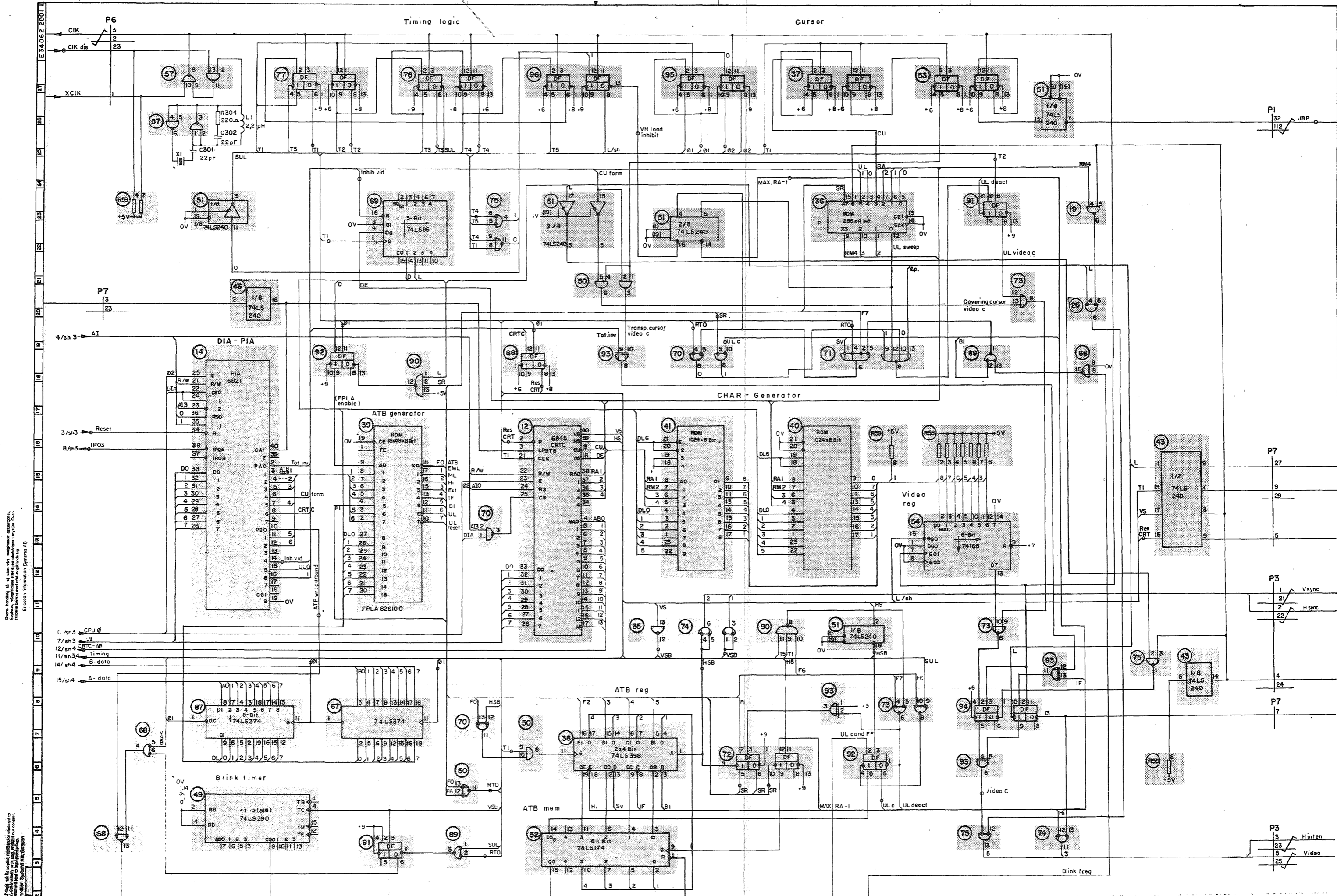
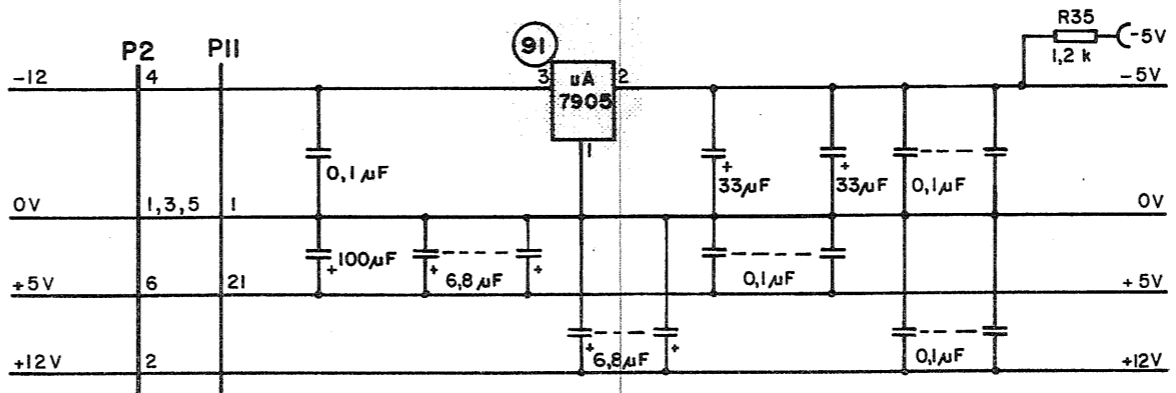


Diagram showing the logic for the display terminal controller. The diagram is a complex network of lines representing electrical connections between various digital components. The components are labeled with their part numbers and pin configurations. The diagram is organized into several functional blocks: Timing logic, Cursor, DIA - PIA, ATB generator, CHAR - Generator, ATB reg, Blink timer, and Wraparound. The diagram also shows power supply connections for +5V and +15V, and various control signals like CIK, XCIK, Res, and others. The diagram is labeled with component numbers in circles and various signal names like 'Timing logic', 'Cursor', 'DIA - PIA', 'ATB generator', 'CHAR - Generator', 'ATB reg', 'Blink timer', 'Wraparound', 'Video reg', 'Video c', 'UL deact', 'UL sweep', 'UL video c', 'Covering cursor video c', 'Transp cursor video c', 'Tot inv', 'Res CRT', 'DIA', 'ATB 2', 'ATB 1', 'ATB 0', 'ATB 3', 'ATB 4', 'ATB 5', 'ATB 6', 'ATB 7', 'ATB 8', 'ATB 9', 'ATB 10', 'ATB 11', 'ATB 12', 'ATB 13', 'ATB 14', 'ATB 15'.

P = Programming and strapping, see separate documentation
 () = Repeated information

INGAR AVEN I ALSO USED ON KONTR CHECK L-002 SKALA SCALE L-002 UTTFORD 8802 REVID 8802	BOOK APPROV 7/75 KOPER COPIED 05/75 L-D	DTC Display terminal controller 790206	REG. NR (REG. NO) ERICSSON E 34062 2001 I 5
--	---	--	--

TEST POINTS	
NO	SIGNAL
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COMPONENT LIST

NO	TYPE #/
IC 5, 36, 64, 67, 94	74LS00
IC 10, 46, 63, 95, 98	74LS02
IC 45, 48	74LS04
IC 6, 24, 40, 97	74LS06
IC 70	74LS14
IC 41, 54, 96	74LS32
IC 34	74LS37
IC 7, 23, 37, 68, 69, 93	74LS74
IC 65	74LS107
IC 26	74LS109
IC 27	74LS139
IC 42	74LS151
IC 31	74LS153
IC 18	74LS163
IC 3, 38, 47	74LS174
IC 28, 53	74LS240
IC 15, 17, 20, 29, 33, 58, 66	74LS244
IC 30	74LS245
IC 49	74LS273
IC 80, 101	74LS373
IC 56, 78, 79, 100	74LS374
IC 4	74LS390
IC 39	74LS398
IC 14, 92	7428
IC 73	74166
IC 25	74S08
IC 102	74S32
IC 1	74S37
IC 8, 9, 72	74S74
IC 35	74S86
IC 16	74S133
IC 2	74S175
IC 99	74S280
IC 71	75451
IC 90	NE555
IC 43, 44, 60	29693
IC 62	D3242
IC 21	MC68A00
IC 12, 19	MC68A21
IC 13	MC68A45
IC 32	MC68A50
IC 82-89, 104-111	MK4116P
IC 61	Rom256x48Bit
IC 74-77	Rom1024x88Bit
IC 52	M2716
IC 11, 50, 51, 55	82S100
IC 22	MPQ6842
IC 91	µA 79M05
Z 1, 3	IN4148
Z 2	IN750
R 9	1k
R 5, 6, 7, 51, 52, 53, 56, 57	1,2k
R 55, 58	2,2k
R 59	4,7k
X 1	KS74103-40
L 1, 2	2,2µH

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

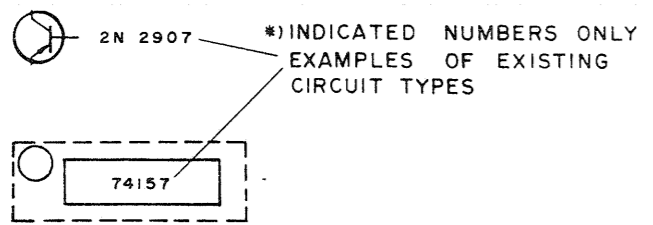
NO	POS/PIN
+1	R5
+2	R6
+3	R7
+4	R9
+5	R57/9
+6	R57/5
+7	R57/2
+8	R57/7
+9	R57/8

Example +1 CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS			
	NUMBER	SH	MOD.	3
E34062 2100 2	1	REV.	1	
"	2	"	1	
"	3	"	1	
"	4A	"	1	
"	4B	"	1	
"	5	"	1	

ASSEMBLY DRAWING NO. E34062 0100 21



Material	8902	830429	DTC-A	ERICSSON
Part No.	S4f		Display	
Order No.	8837	K	Terminal controller - A	E34062 2100 2
Appr.	7k0	BS		

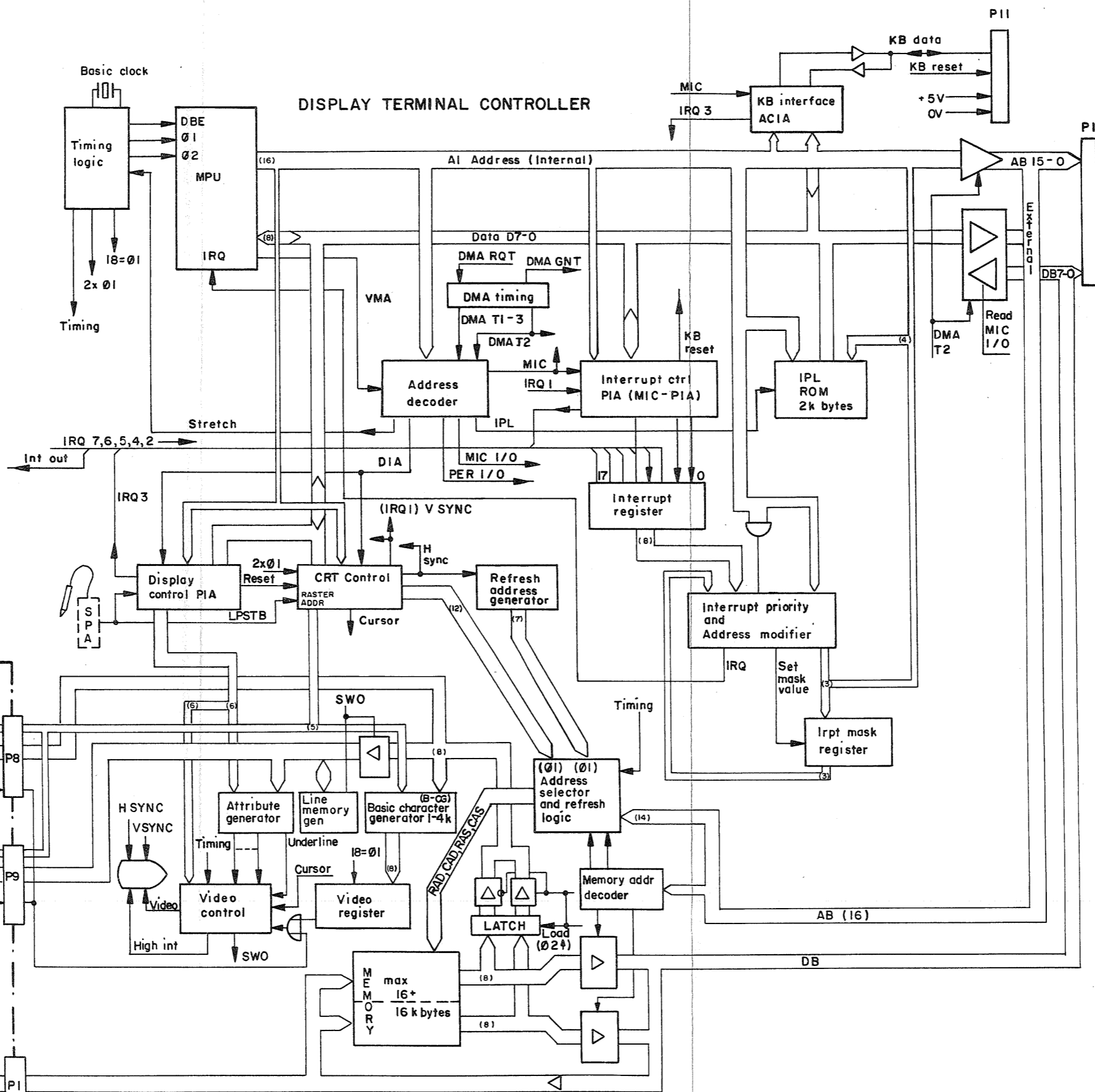
5 Sheet

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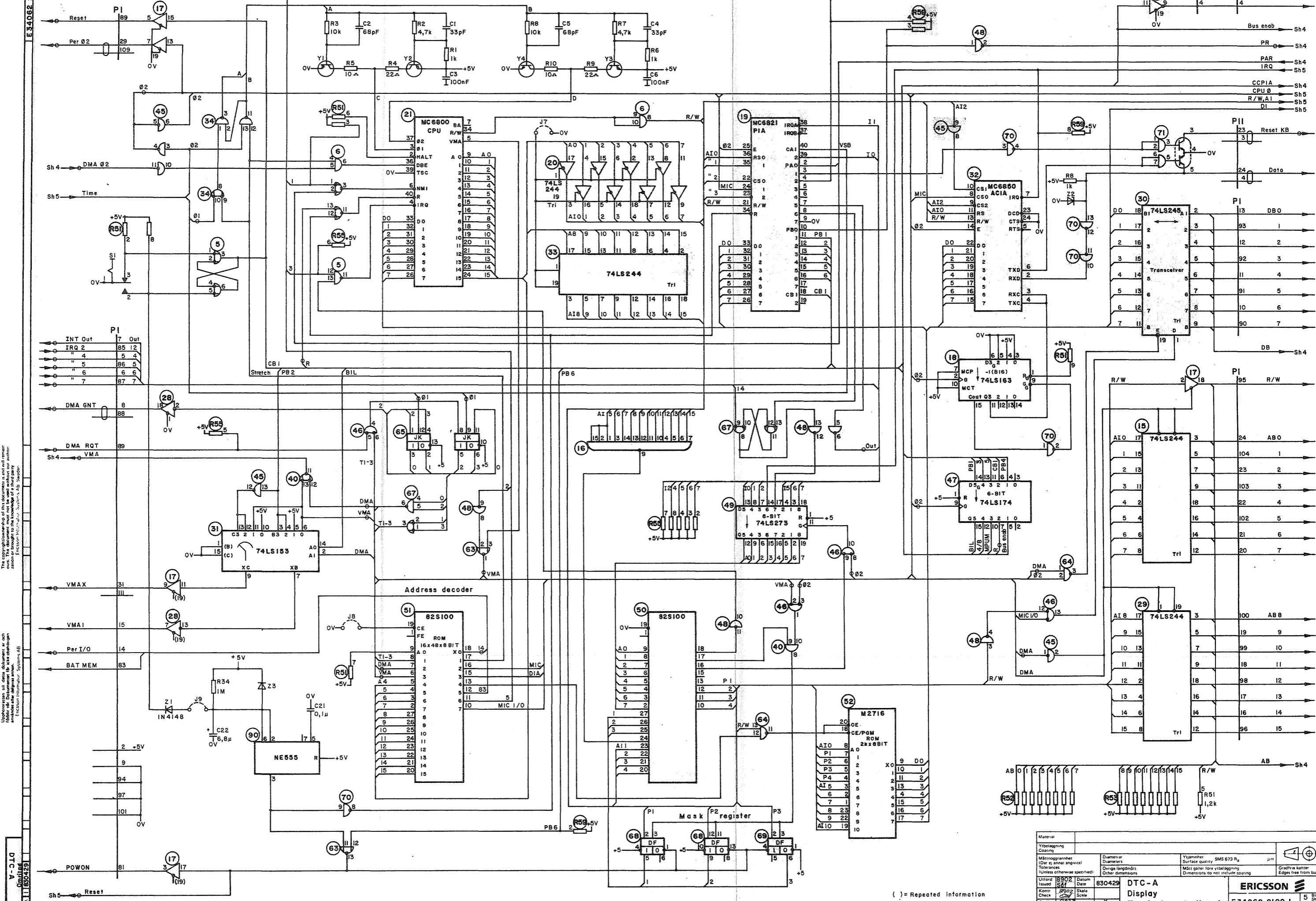
DTC - A

Rev. I 830429 Omritad



PART OF TIA-A

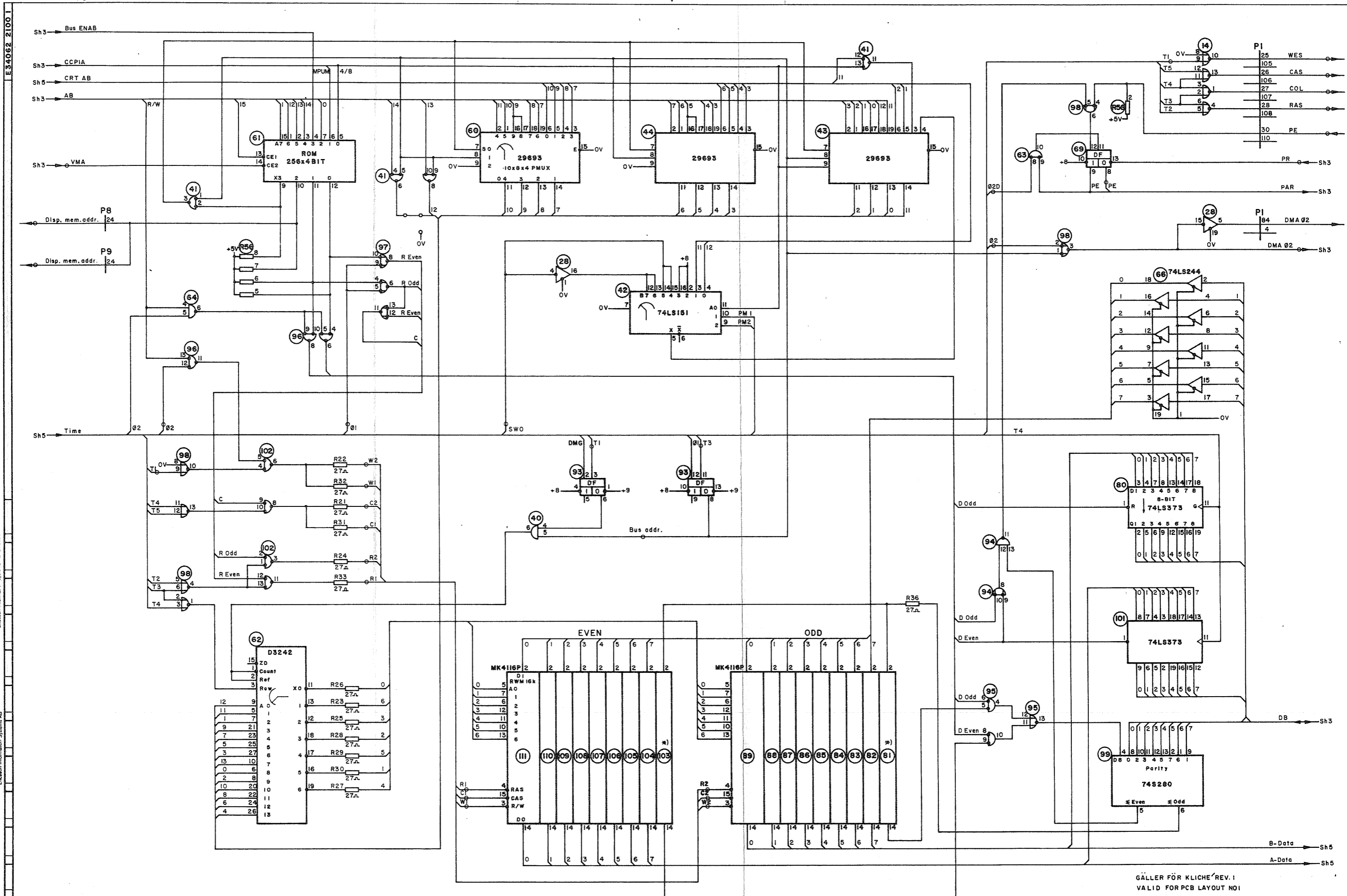
Material			
Ytbeläggning Coating			
Mått noggrannhet (Dar ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 Ra μm
Utford Issued	8902 Sdf	Datum Date	830429
Kontr Check	8902 Sdf	Skala Scale	
Gdsk Approv	8837 7910	62673 L-D	
DTC - A Display terminal controller - A		ERICSSON	
E34062 2100 2		5 Blad Sheet 2	



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Material		Ytbehandling		Coating	
Måttögngränshet (Der g annat angivits)		Diameter		Diameter	
Tolerances		Surface quality		Surface quality	
Unless otherwise specified		Other dimensions		Other dimensions	
Mitt gällande för yttre mått		Dimensions do not include coating		Dimensions do not include coating	
Edges free from burr					
Utförd	8302	Datum	830429	DTC - A	
Kontroll	8302	Skala	1:1	Display	
Godkänn	8302	Skala	1:1	Terminal controller-A	
Godkänn	8302	Skala	1:1	E34062 2100 I	
				5 Bud Sheet	
				3	

() = Repeated information



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 ericsson information systems AB

DTC-A
 Omitted

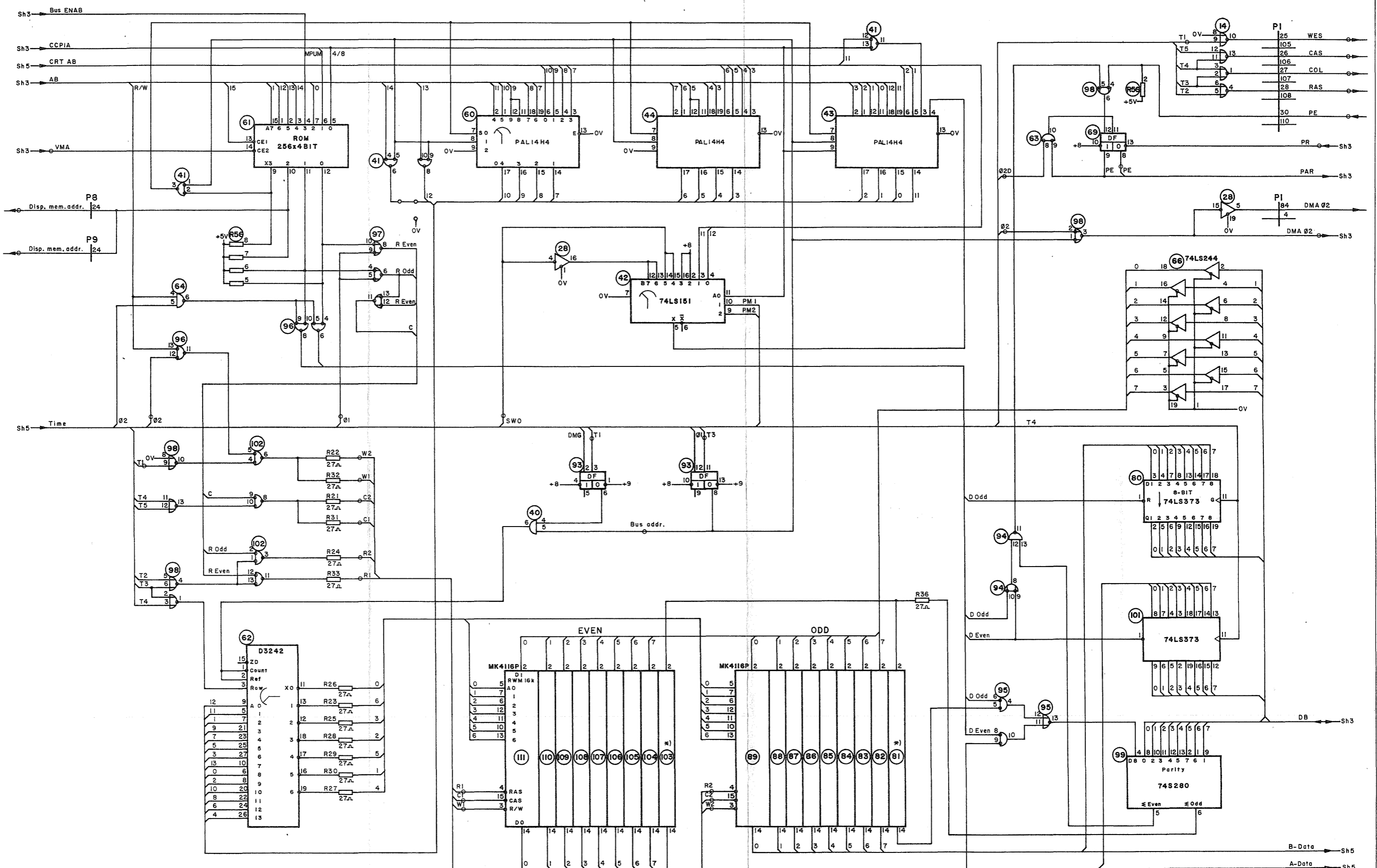
GÄLLER FÖR KLICHE' REV. 1
 VALID FOR PCB LAYOUT NO1

*1) Mounted only when PC is used

Material	Ytbeläggning	Coating	
Måttoleranser (Ivar m. annat angivet)	Diameter	Ytjämnhet	Surface quality
Tolerances	Diameters	Surface quality	SMS 673 R _z μm
Övriga mått (Ivar m. annat angivet)	Övriga dimensioner	Mått gäller före ytbeläggning	Dimensions do not include coating
Other dimensions	Other dimensions	Dimensions do not include coating	Edges free from burr
Utgivningsdatum	830429	DTC-A	ERICSSON
Skala	1:1	Display	E34062 2100 1
Skala	1:1	Terminal controller-A	5
Skala	1:1		4 A

E34062 2100 1

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GÄLLER FÖR KLICHE' REV. 2
VALID FOR PCB LAYOUT NO 2

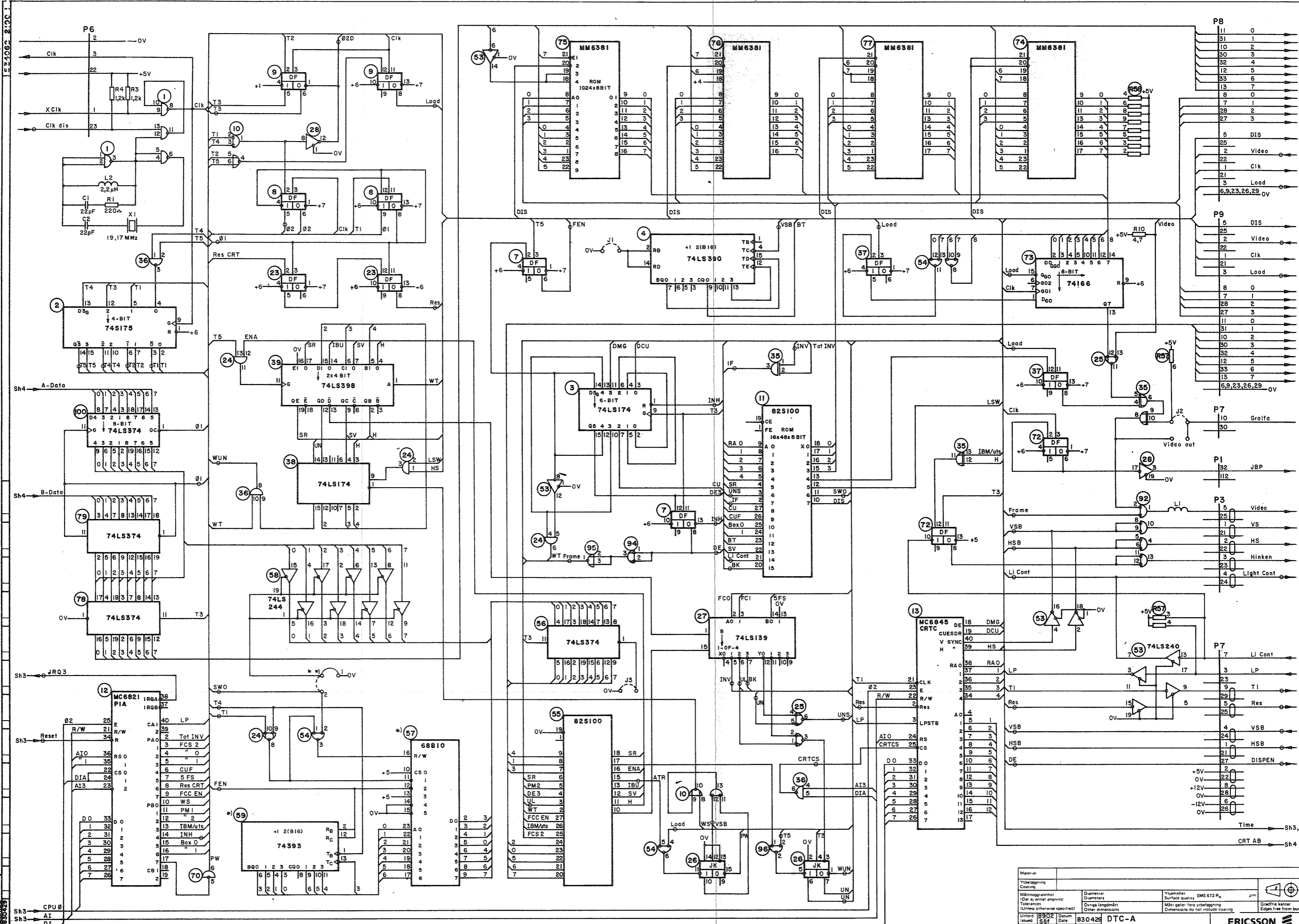
Material:					
Ytbehandling Coating		Diameter: Diameters		Yttenhet: Surface quality	
Måttolerans: Tolerances		Övriga måttolerans: Other dimensions		Mått gällande för yttbehandling Dimensions not including coating	
Utlämningsdatum: Date		830429		DTC-A	
Kontroll: Check		S-102		Display	
Godkännande: Approval		K-BS		Terminal controller-A	
Utlämningsnummer: Issue number		830429		ERICSSON	
Skala: Scale		K		E34062 2100 1	
Folioslag: Sheet		48		5 Blad 48	

V-3110

Rev. 1 (830429)

Omritad

*) Mounted only when PC is used



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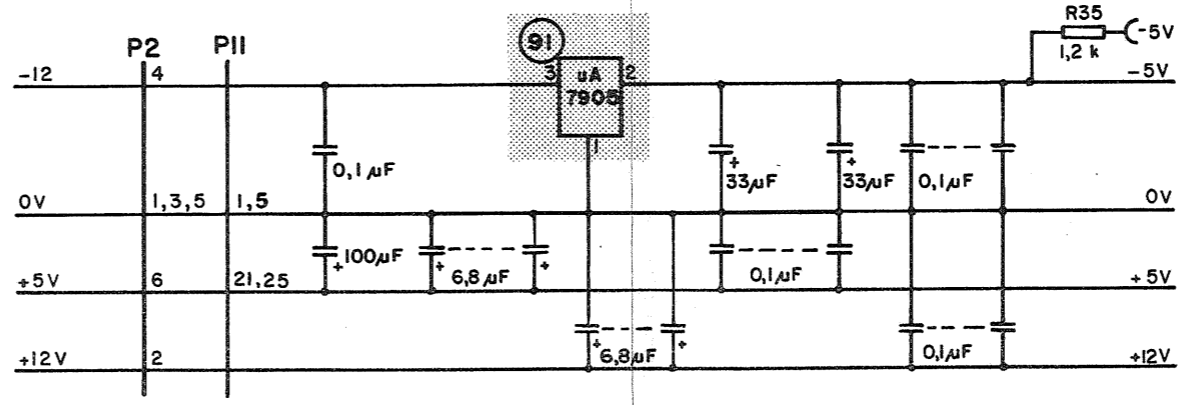
DTC-A

*) Only mounted at field attributes **) When 57 and 59 are mounted, shall the wire connection be moved from 1 to 2

Material		Yrbelegning		Coating	
Måttolerans		Diameter		Yrbelegning	
Tolerances		Diameters		Surface quality	
Unless otherwise specified		Other dimensions		Dimensions do not include coating	
Urford		Date		Scale	
Kontroll		Date		Scale	
Godkänn		Date		Scale	
Approved		Date		Scale	
8302		830425		DTC-A	
367		83		Display	
367		83		Terminal controller-A	
367		83		Ericsson	
367		83		E34062 2100 1 5	
367		83		Sheet 5	

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TEST POINTS	
NO	SIGNAL
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COMPONENT LIST

NO	TYPE #/
IC 5, 36, 64, 67, 94	74LS00
IC 10, 46, 63, 95, 98	74LS02
IC 45, 48	74LS04
IC 6, 24, 40, 97	74LS08
IC 70	74LS14
IC 41, 54, 96	74LS32
IC 34	74LS37
IC 7, 23, 37, 68, 69, 93	74LS74
IC 65	74LS107
IC 26	74LS109
IC 27	74LS139
IC 42	74LS151
IC 31	74LS153
IC 18	74LS163
IC 3, 38, 47	74LS174
IC 28, 53	74LS240
IC 15, 17, 20, 29, 33, 58, 66	74LS244
IC 30	74LS245
IC 49	74LS273
IC 80, 101	74LS373
IC 56, 78, 79, 100	74LS374
IC 4	74LS390
IC 39	74LS398
IC 14, 92	7428
IC 73	74166
IC 25	74S08
IC 102	74S32
IC 1	74S37
IC 8, 9, 72	74S74
IC 35	74S86
IC 16	74S133
IC 2	74S175
IC 99	74S280
IC 71	75451
IC 90	NE555
IC 43, 44, 60	29693
IC 62	D3242
IC 21	MC68A00
IC 12, 19	MC68A21
IC 13	MC68A45
IC 32	MC68A50
IC 82-89, 104-111	MK4116P
IC 61	Rom256x4Bit
IC 74-77	Rom1024x8Bit
IC 52	M2716
IC 11, 50, 51, 55	82S100
IC 22	MPQ6842
IC 91	µA 79M05
Z 1, 3	IN4148
Z 2	IN750
R 9	1k
R 5, 6, 7, 51, 52, 53, 56, 57	1,2k
R 55, 58	2,2k
R 59	4,7k
X 1	KS74103-40
L 1, 2	2,2µH

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

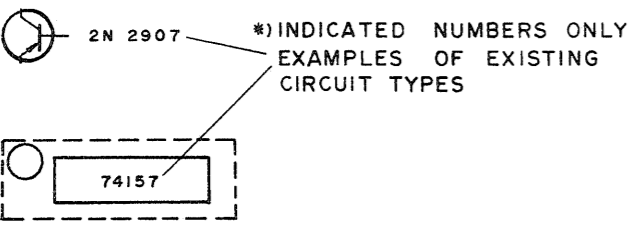
NO	POS/PIN
+1	R5
+2	R6
+3	R7
+4	R9
+5	R57/9
+6	R57/5
+7	R57/2
+8	R57/7
+9	R57/8

Example +1 CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

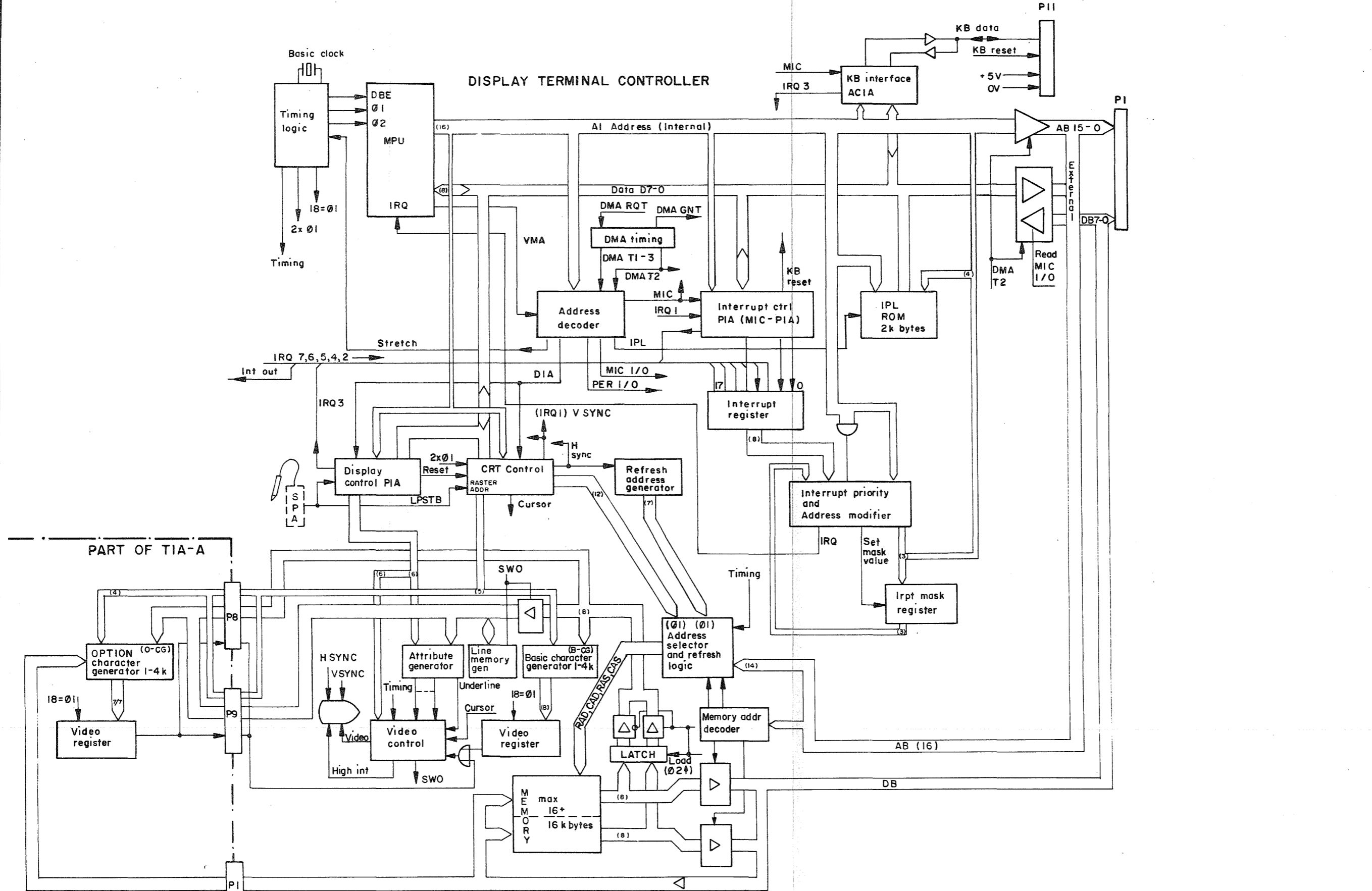
DIAGRAM AND DRAWING	STATUS			
	NUMBER	SH	MOD.	3
E34062 2101 2	1	REV.	1	
"	2	"	1	
"	3	"	1	
"	4	"	1	
"	5	"	1	

ASSEMBLY DRAWING NO. E34062 0101 21



Material			
Ytterlaggning			
Coating			
Måttoleranser	Diameter	Ytjämnhet	SMS 673 Ra
Dimensions	Surface quality	µm	
Tolerances	Other dimensions	Mått gäller före ytterlaggning	Gräddria kanter
Unless otherwise specified	Dimensions do not include coating		Edges free from burr
Utförd	Datum	830429	DTC-A
Issued	Date		Display
Kontroll	Skala		
Checked	Scale		
Godkänn		K	Terminal controller - A
Approved		BS	
ERICSSON			E34062 2101 2
			5 Blad
			Sheet

DISPLAY TERMINAL CONTROLLER

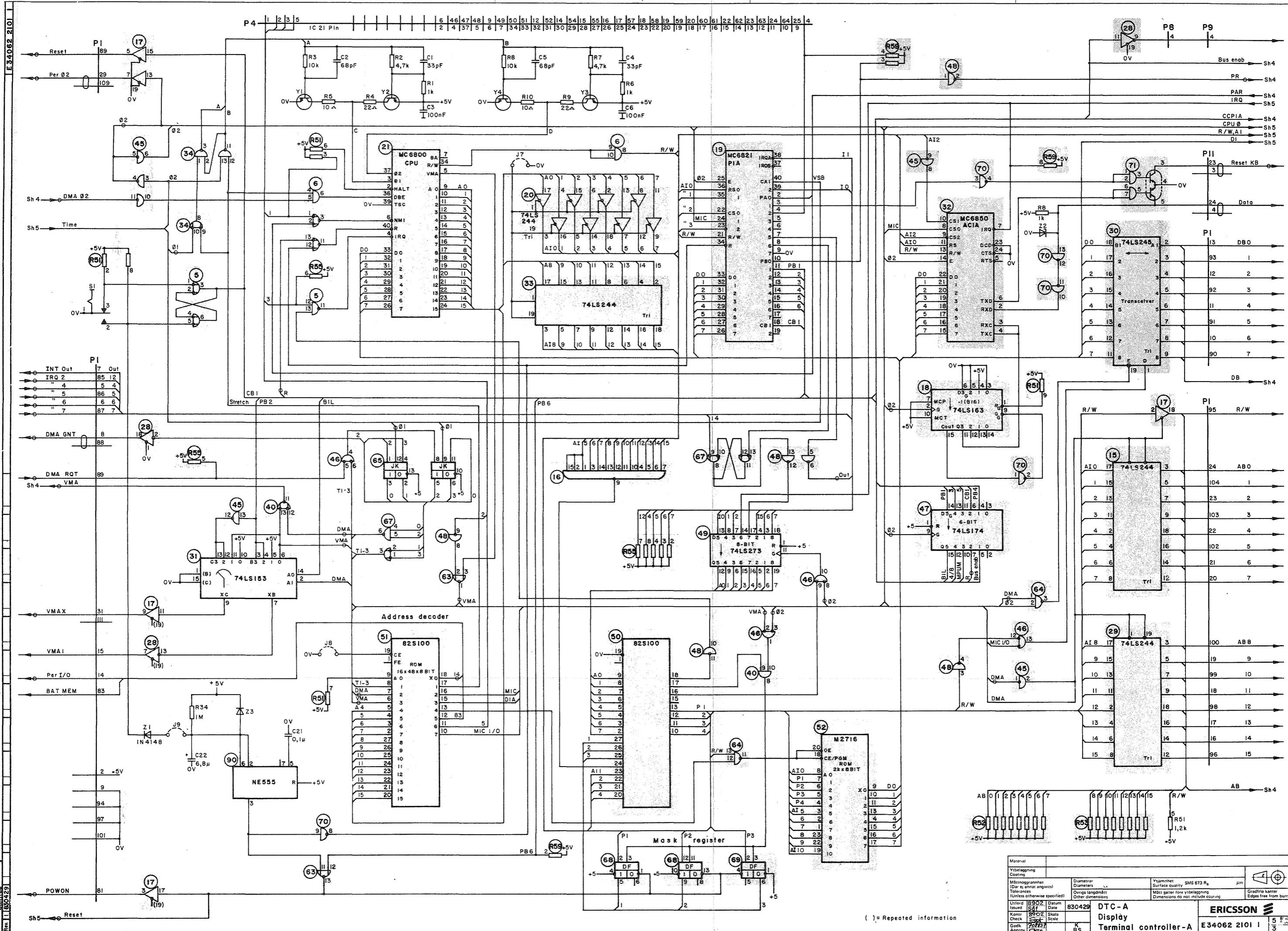


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 Ericsson Information Systems AB

DTC - A
 Rev. 1 | 830429
 Omritad

Material		Ytbeläggning Coating		Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)		Diametrar Surface quality		Ytjämnhet SMS 673 Ra		µm	
Utförd Issued		Datum Date		Övriga längdmått Other dimensions		Mått gäller före ytbeläggning Dimensions do not include coating		Gradfria kanter Edges free from burr			
Kontr. Check		Skala Scale		Mått för yttillagning Dimensions for coating		Mått för yttillagning Dimensions for coating		Mått för yttillagning Dimensions for coating			
Gdsk. Approved		L-D		8902		830429		DTC - A			
				8902		830429		Display terminal controller - A		E34062 2101 2 5 2	



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 Systems AB, Division.

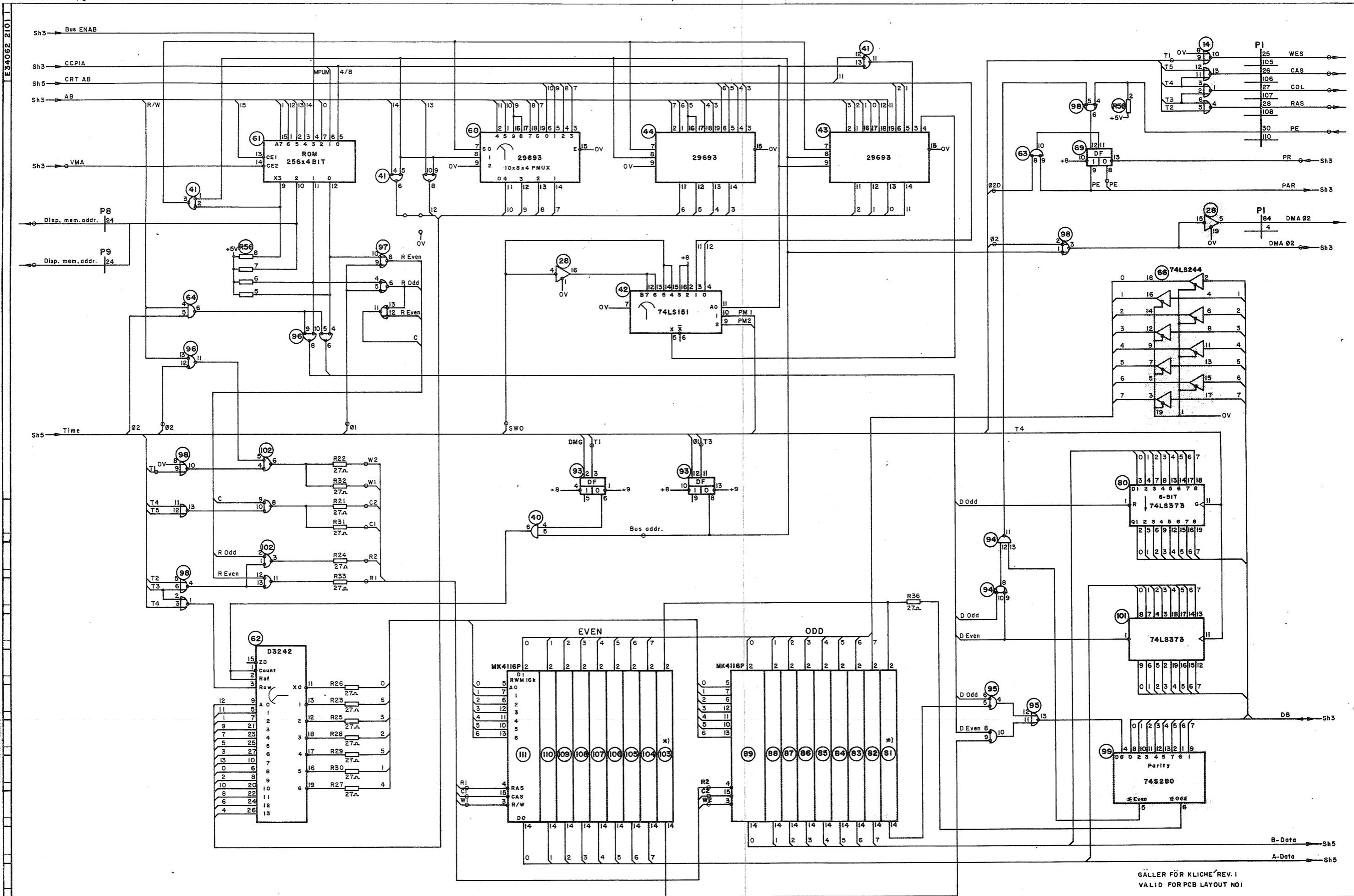
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 Information Systems AB.

DTC-A
 Rev. 1.1 (830523)

Material	Ytbehandling	Coating	Diameter	Ytjämnhet
Måttoleranser	(Där ej annat anges)	Tolerances	(Unless otherwise specified)	Surface quality
Övriga mått	Other dimensions	Övriga mått	Other dimensions	MSM 673 R _s
Utförd av	8302	Datum	830429	Mått gäller före ytbehandling
Kontroll	8302	Skala	1:1	Dimensions do not include coating
Godkänn	8302	Scale	1:1	Edges free from burr
Godkänn	8302	Scale	1:1	
Godkänn	8302	Scale	1:1	

() = Repeated information

ERICSSON
 DTC-A
 Display
 Terminal controller-A
 E34062 2101 | 5



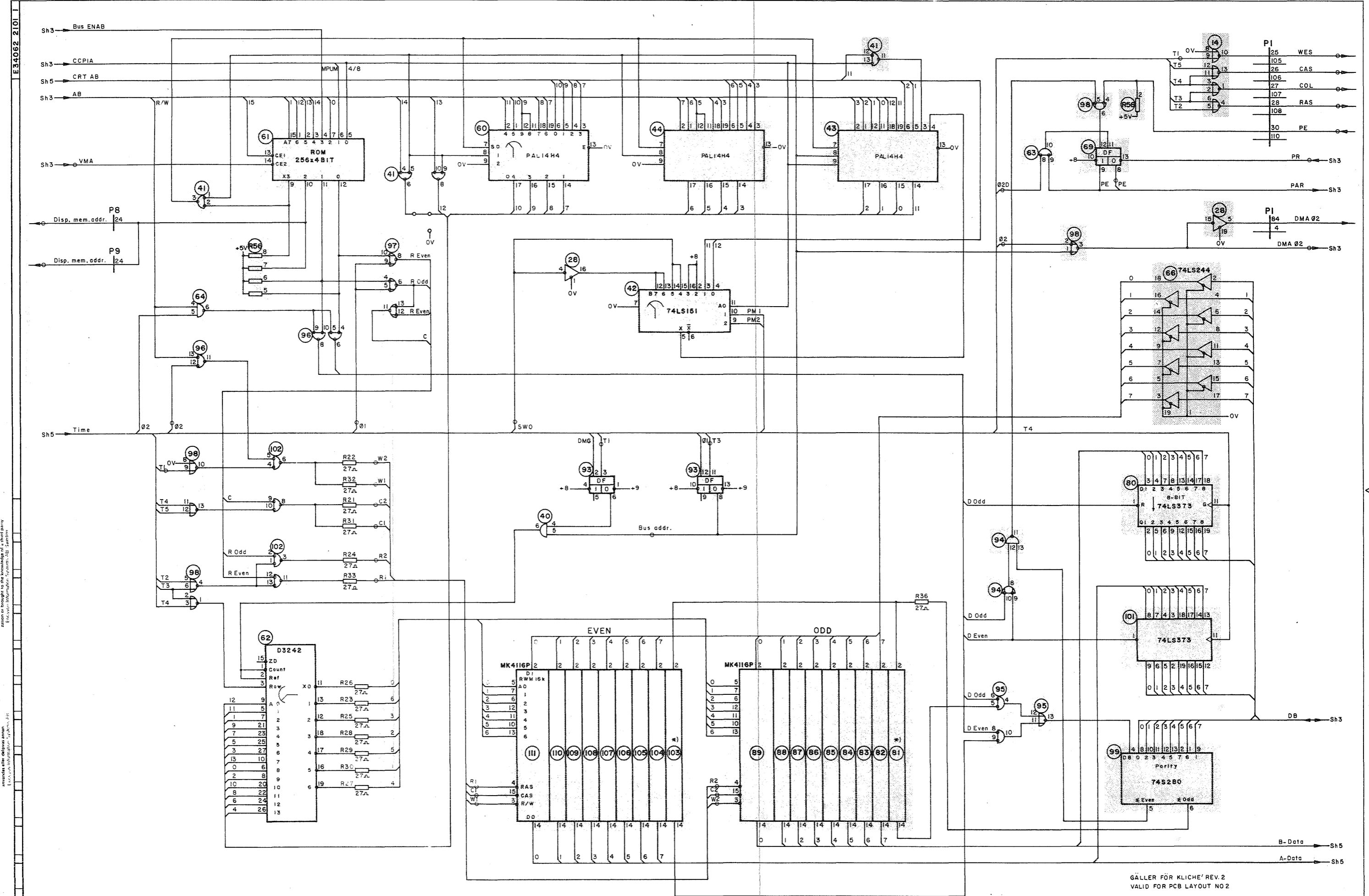
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V-T-C
 DTC-A
 Rev. 11 (830429)
 Qmited

*) Mounted only when PC is used

GÄLLER FÖR KLICHE' REV. 1
 VALID FOR PCB LAYOUT NO1

Material	Ytbeläggning	Castning	Diameter	Ytjämnhet	SMS 673 R _a	µm
Måttolerans	(Där ej annat anges)	Övriga längdmått	Skala	Mått gäller före ytbeläggning	Dimensioner do not include coating	Gränslinjer
Utförd	8302	Datum	830429	DTC-A		
Kontroll	8302	Skala	83	Display		
Godkänn	8302	Skala	83	Terminal controller-A		
ERICSSON					E34062 2101 1	



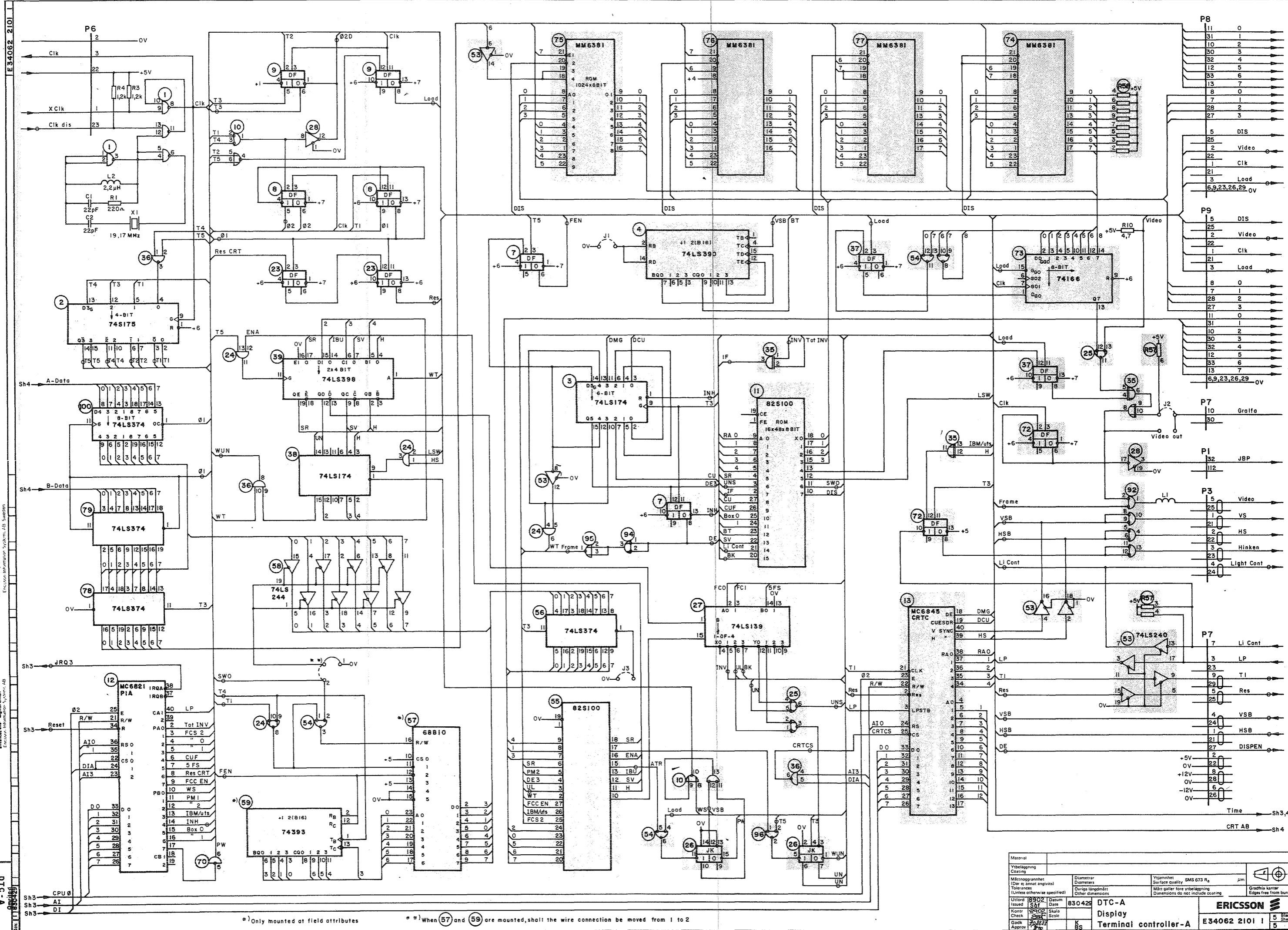
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V-CID
 Rev. 11 830429
 Omrikt

*) Mounted only when PC is used

GÄLLER FÖR KLICHE' REV. 2
 VALID FOR PCB LAYOUT NO 2

Material		Ytbeläggning		Coating	
Måttolerans (Där ej annat angivits)		Tolerances (Unless otherwise specified)		Other dimensions	
Urford Issued		Date		830429 DTC-A	
Kontroll Check		Skala Scale		K BS	
Godkänn Approv		Date		830429 DTC-A	
Ericsson		Display		Terminal controller-A	
E34062 2101		5		Blad Sheet	
		4		B	



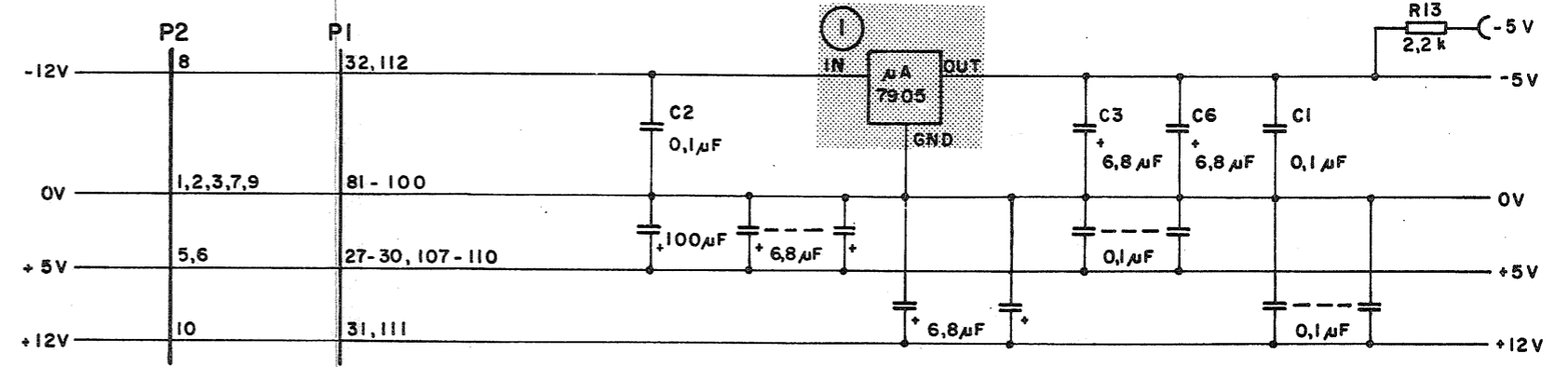
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*) Only mounted at field attributes *) When (57) and (59) are mounted, shall the wire connection be moved from 1 to 2

Material		Ytbeläggning		
Ytbeläggning		Coating		
Måttoleranser (I de fall annat angivits)		Diameter		Ytfinish Surface quality SMS 673 R _z
Tolerances (Unless otherwise specified)		Diameter		
Uttilld		Datum		Mått gällande för ytbeläggning Dimensions do not include coating
Issued		Date		
Kontroll		Skala		Gränslinjer Edges free from burr
Checked		Scale		
Godkänn		K		ERICSSON Terminal controller-A
Approved		K		
8902		830425		E34062 2101 1 5 Blad 5 Sheets
DTC-A		DTC-A		

TEST POINTS	
NO	SIGNAL
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COMPONENT LIST

NO	TYPE #/
IC13,37,79,83	74LS00
IC15,42,56,82	74LS02
IC14	74LS04
IC16,59	74LS08
IC40	74S08
IC102	74LS14
IC75	74LS30
IC12,43,97	74LS32
IC78	74S37
IC44,65	74LS74
IC62,63,95	74S74
IC81	74S86
IC39	74LS109
IC41	74LS139
IC106	74LS157
IC108	74LS163
IC98	74166
IC38,60	74LS174
IC64,92	74S175
IC76,91,107	74LS240
IC11,52,53,69,73,88	74LS244
IC31,51	74LS245
IC56,68	74LS273
IC86,87	74LS365
IC30,48	74LS373
IC29,47,84	74LS374
IC57	74LS390
IC66	74393
IC61	74LS398
IC85	74LS640
IC101	75451
IC104	75452
IC103	MLM339
IC36	555 NSC
IC32	2964 B
IC105	Mod.FERRANTI
IC3-9	4116
IC21-28	4164
IC99,100	2048 x8
IC34	MC68A00
IC67	MC68B10
IC35,70	MC68A21
IC17	MC6842
IC74	MC68A44
IC33	MC68A45
IC89	MC68A50
IC90	MC68A54
IC77	2716
IC45,46,54	82S100
IC49,50,55,71,72	16L8CN
TI	I301 Reg 525
X1	PS741030-40

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

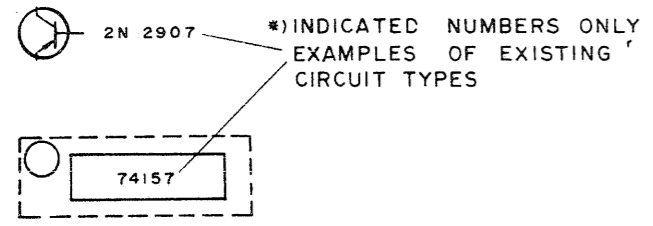
Example +1 CONN. TO R
+1G CONN. TO IC

NO	POS/PIN
+1	R43
+2	R42

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS	
	NUMBER	SH MOD. REV.
E34062 2110 2	1	REV. 1 2
" " " 2	2	" " " " " "
" " " 1	3	" " " " " "
" " " 1	4	" " " " " "
" " " 1	5	" " " " " "
" " " 1	6	" " " " " "
" " " "	"	" " " " " "
" " " "	"	" " " " " "
" " " "	"	" " " " " "

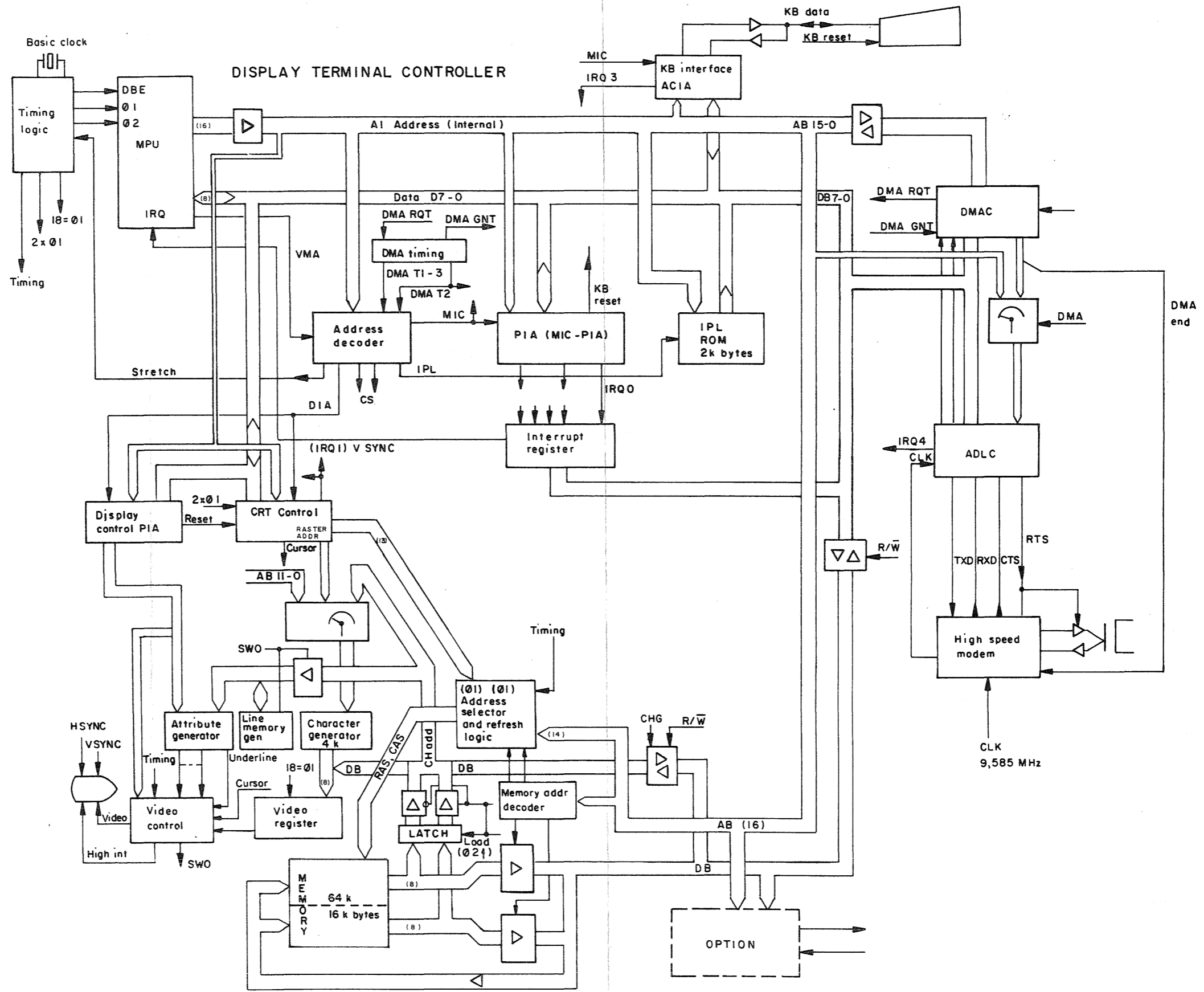
ASSEMBLY DRAWING NO. E 34062 0110 21



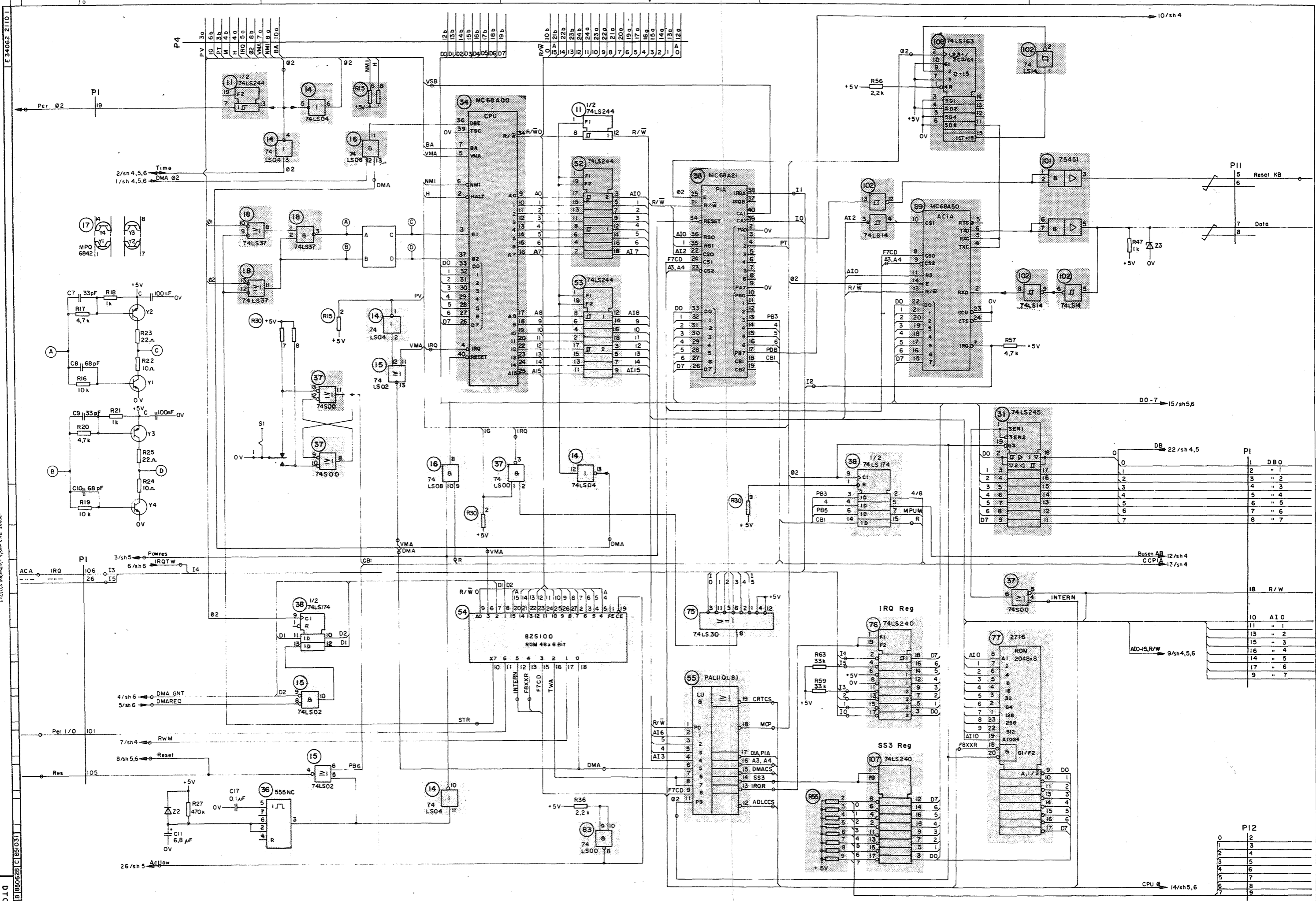
8215 LE 8215	821209	DTC - B Display terminal controller - B	ERICSSON	E 34062 2110 2	6 Sheet
708837 5770	62673 L-D				

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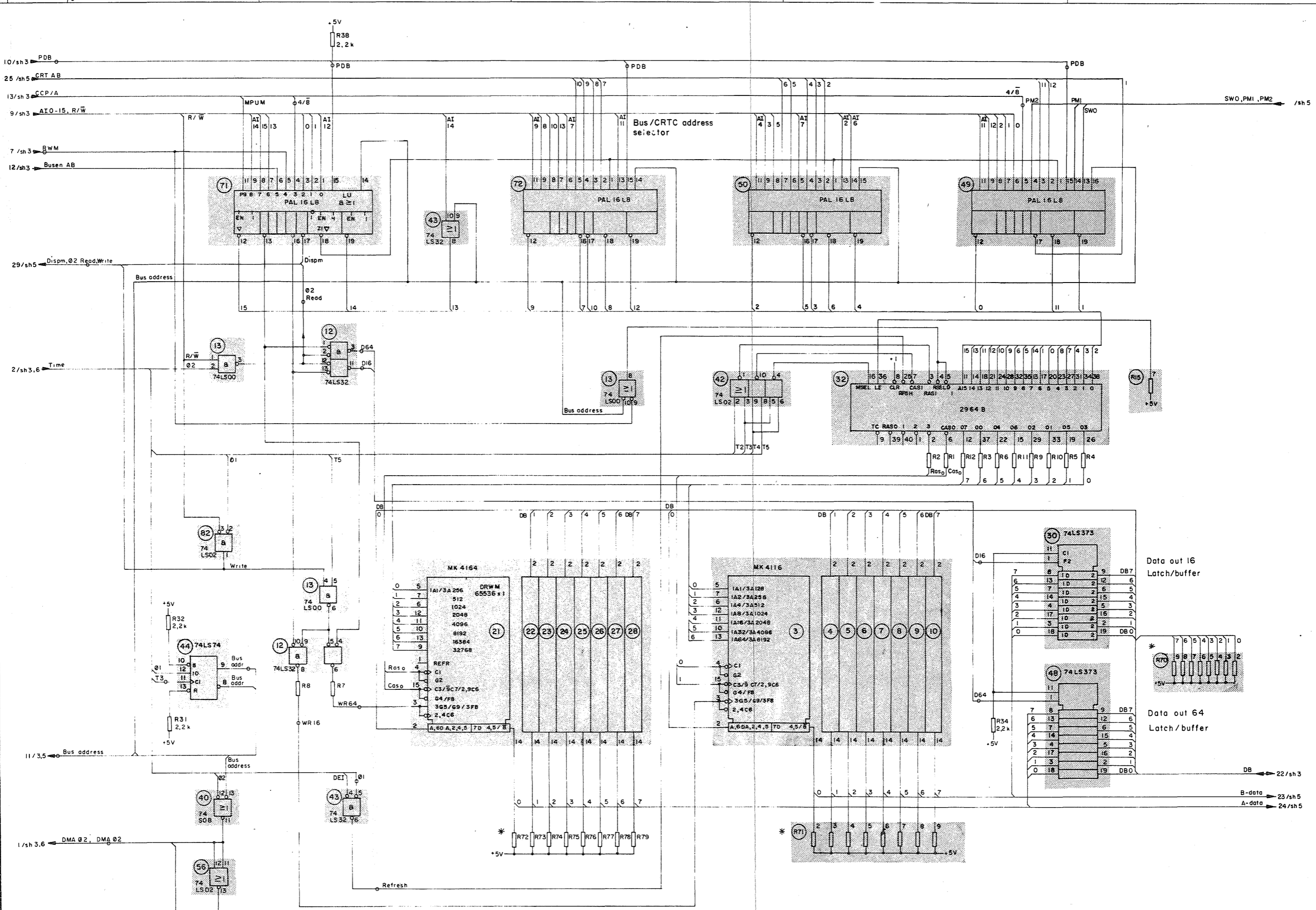


Material			
Ytbeläggning Coating			
Mått noggrannhet (Dar ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _z μm
Utförd Issued		Datum Date	8215
Kontr Check		Skala Scale	830420
Godk Approv		62673 L-D	
DTC - B Display terminal controller - B			ERICSSON
E 34062 2110 2			6 Blad Sheet 2



E 34062 2110 1
 Rev. 1
 B-D-C-D
 ANS500000

E 34062 2110 1

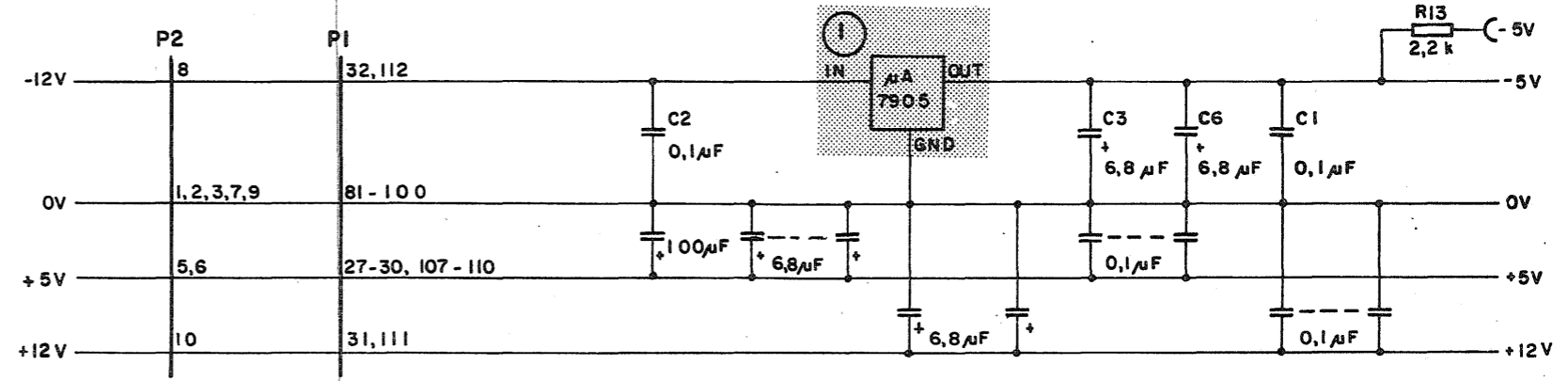


* Not mounted

Material		Ytbeläggning Coating		Måttoleranser (Dar ej annat angivits) Tolerances (Unless otherwise specified)		Diameter Diameters		Ytjämnhet Surface quality		SMS 673 Ra		µm	
Utförd Issued		8215 Date		821209		DTC - B		Mått gäller före ytbeläggning Dimensions do not include coating		Gräddfri kantar Edges free from burr		ERICSSON	
Kontroll Check		8215 Scale		821209		Display terminal		Mått gäller före ytbeläggning Dimensions do not include coating		Gräddfri kantar Edges free from burr		E 34062 2110 1	
Godkänn Approv		8215 L-D		821209		controller - B		Mått gäller före ytbeläggning Dimensions do not include coating		Gräddfri kantar Edges free from burr		6 4	

B - 010

TEST POINTS	
NO	SIGNAL
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COMPONENT LIST

NO	TYPE #/
IC 13,37,79,83,95	74LS00
IC 93	74S00
IC 15,42,56,82	74LS02
IC 14, 81	74LS04
IC 16,59	74LS08
IC 40	74S08
IC 103	74LS14
IC 75	74LS30
IC 12, 43	74LS32
IC 18	74LS37
IC 78	74S37
IC 44,65	74LS74
IC 62,63,97	74S74
IC 96	74S86
IC 39	74LS109
IC 41	74LS139
IC 107	74LS157
IC 109	74LS163
IC 99	74166
IC 38,60	74LS174
IC 92	74S174
IC 94	74LS175
IC 64	74S175
IC 76, 91, 108	74LS240
IC 11,52,53,69,73,88	74LS244
IC 31, 51	74LS245
IC 58,68	74LS273
IC 86,87	74LS365
IC 30,48	74LS373
IC 29,47,84	74LS374
IC 57	74LS390
IC 66	74393
IC 61	74LS398
IC 85	74LS640
IC 102	75451
IC 105	75452
IC 104	MLM 339
IC 36	555 NS C
IC 32	2964 B
IC 106	Mod.FERRANTI
IC 3-10	4116
IC 21-28	4164
IC 100, 101	2048 x 16
IC 34	MC68A00
IC 67	MC68B10
IC 35,70	MC6842
IC 74	MC68A44
IC 33	MC68A45
IC 89	MC68A50
IC 90	MC68A54
IC 77	2716
IC 54	82S100
IC 45	16L8CN
T 1	1301 Reg 525
X 1	FS741030-40

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

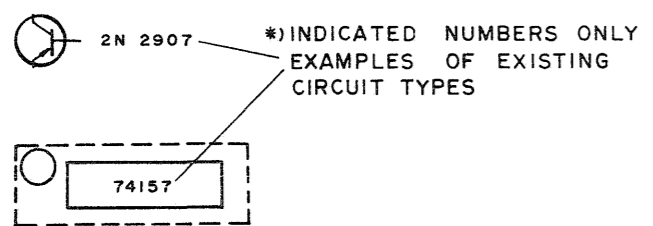
NO	POS/PIN
+1	R43
+2	R42

Example +1 CONN. TO R
+1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING NUMBER	STATUS			
	SH	MOD.	1	2
E34062 2120 2	1	REV.	1	2
" " " " " "	2	"		
" " " " " "	3	"		
" " " " " "	4	"		
" " " " " "	5	"	-	1
" " " " " "	6	"		
" " " " " "	"	"		
" " " " " "	"	"		
" " " " " "	"	"		

ASSEMBLY DRAWING NO. E 34062 0120 21



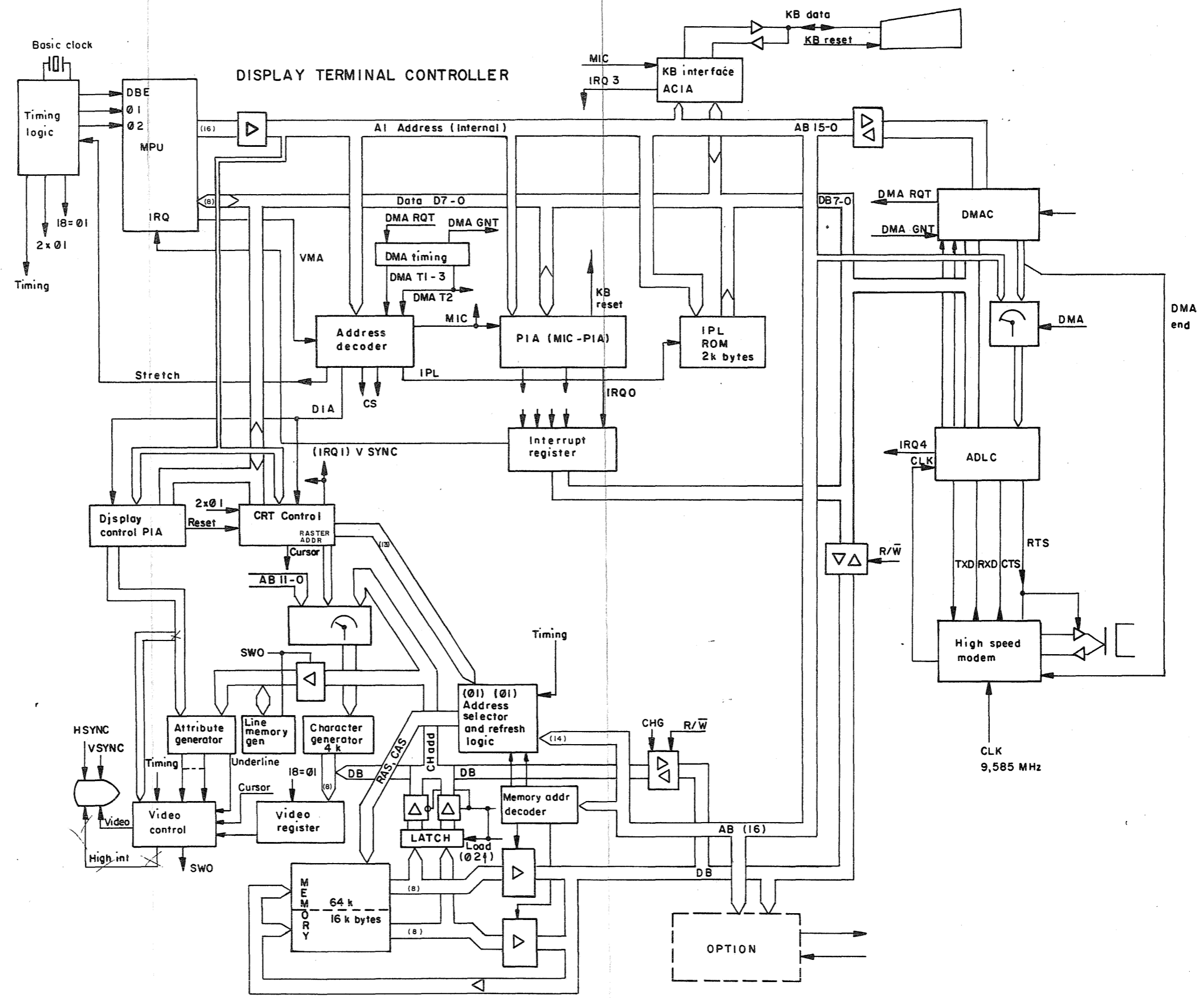
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Material		Ytbehandling		
Material		Coating		
Måttögn		Diameter		Ytfinish Surface quality SMS 673 Ra μm
Diameter		Diameter		
Tolerans		Tolerans		Gradfri kanter Edges free from burr
Övrigt		Övrigt		
Utformad	8215	Datum	830520	DTC-C Display terminal controller-C
Kontrollerad	8215	Skapad		
Godkännad	83778	Skapad		
Appr.:	875	Skapad		
				ERICSSON
				E 34062 2120 2
				6 Blad Sheet 1

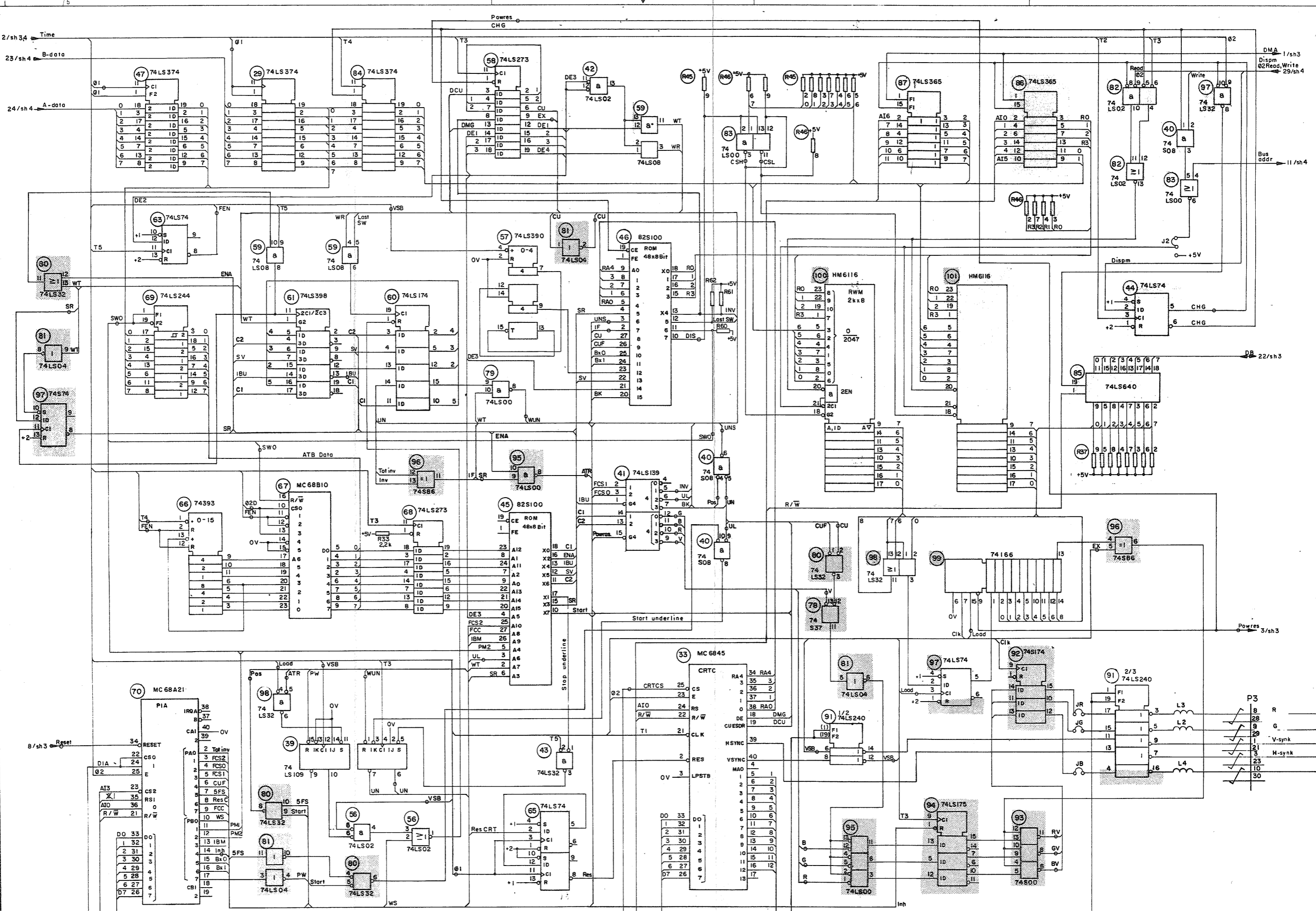
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DTC - C



Material			
Ytbelagning Coating			
Mått noggrannhet (Dar ej annat angivits)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _a μm
Tolerances (Unless otherwise specified)	Övriga längdmått Other dimensions	Mått gäller före ytbelagning Dimensions do not include coating	Gradfria kanter Edges free from burr
Utförd Issued	8215 LE	Datum Date	830520
Kontroll Check	8215 E	Skala Scale	
Godkänn Approv.	7/3798 B7c		62673 L-D
DTC - C		Display terminal controller - C	
ERICSSON		E 34062 2120 2	
		6 2	



() = Repeated information

8215	830520	LTC C	ERICSSON
8216	62673	Display terminal	E 34062 2120 I
8217	LD	control: C	6
8218			5

E 34062 2130 2

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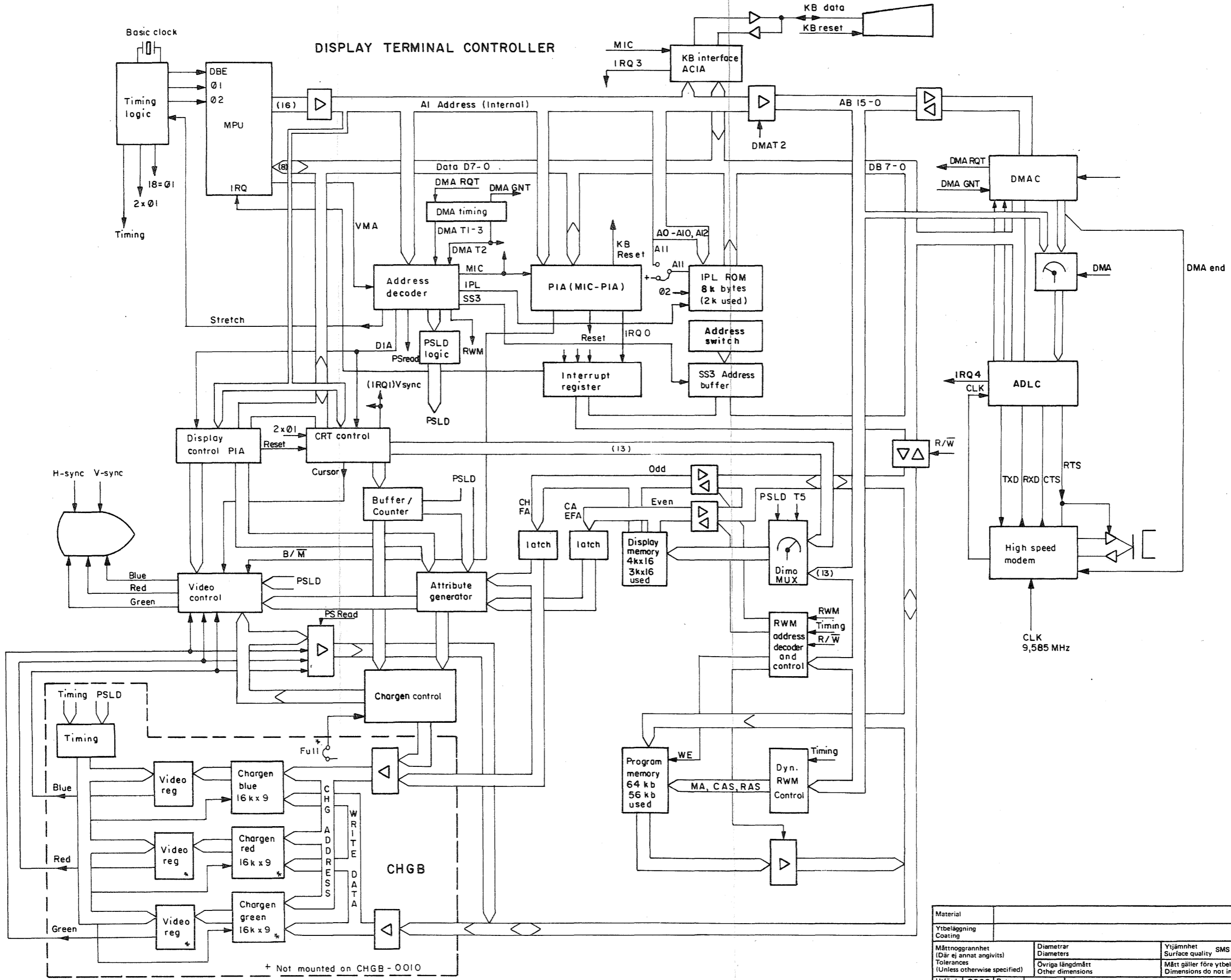
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DTC-D

Rev.

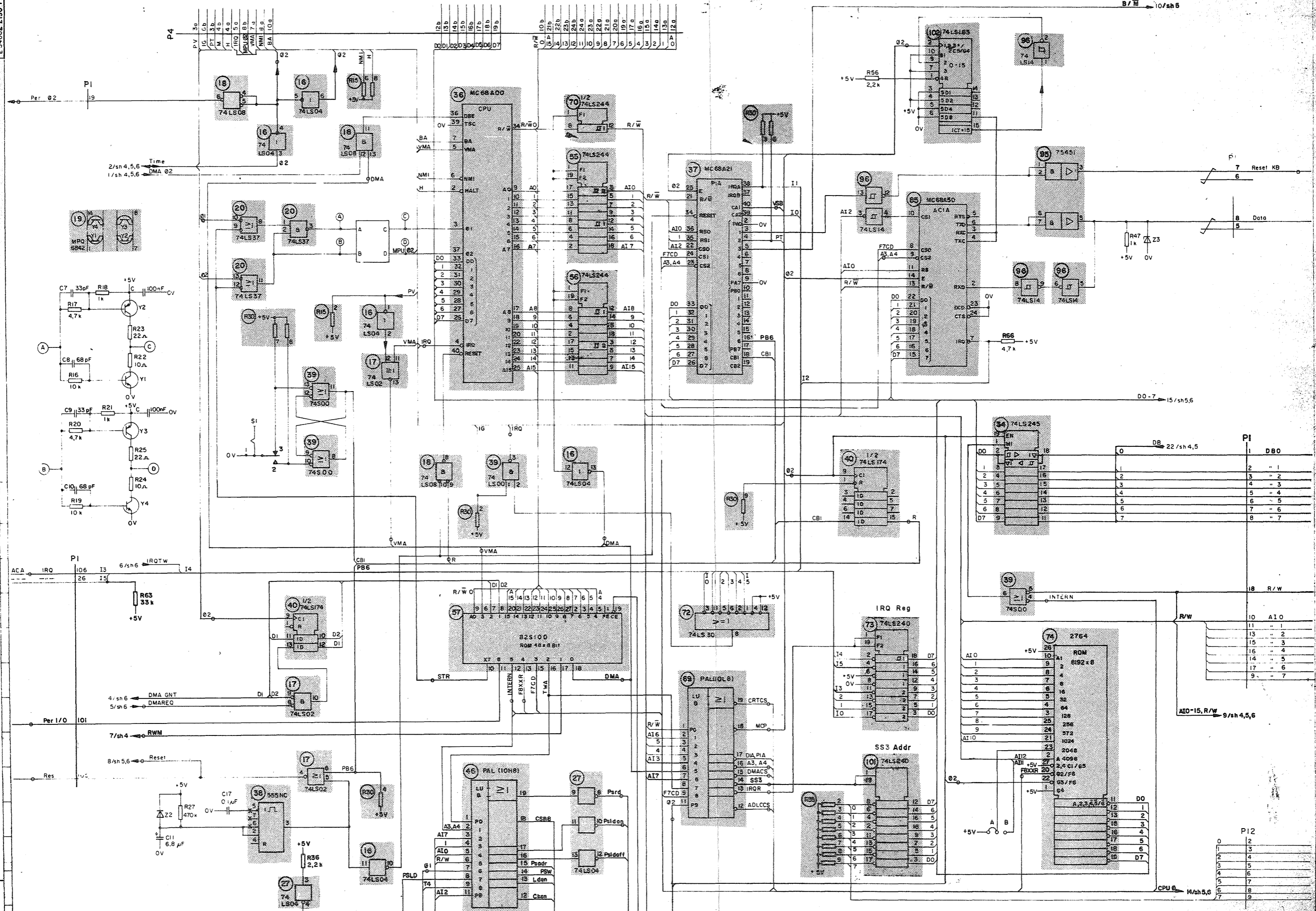
AN5650079

DISPLAY TERMINAL CONTROLLER



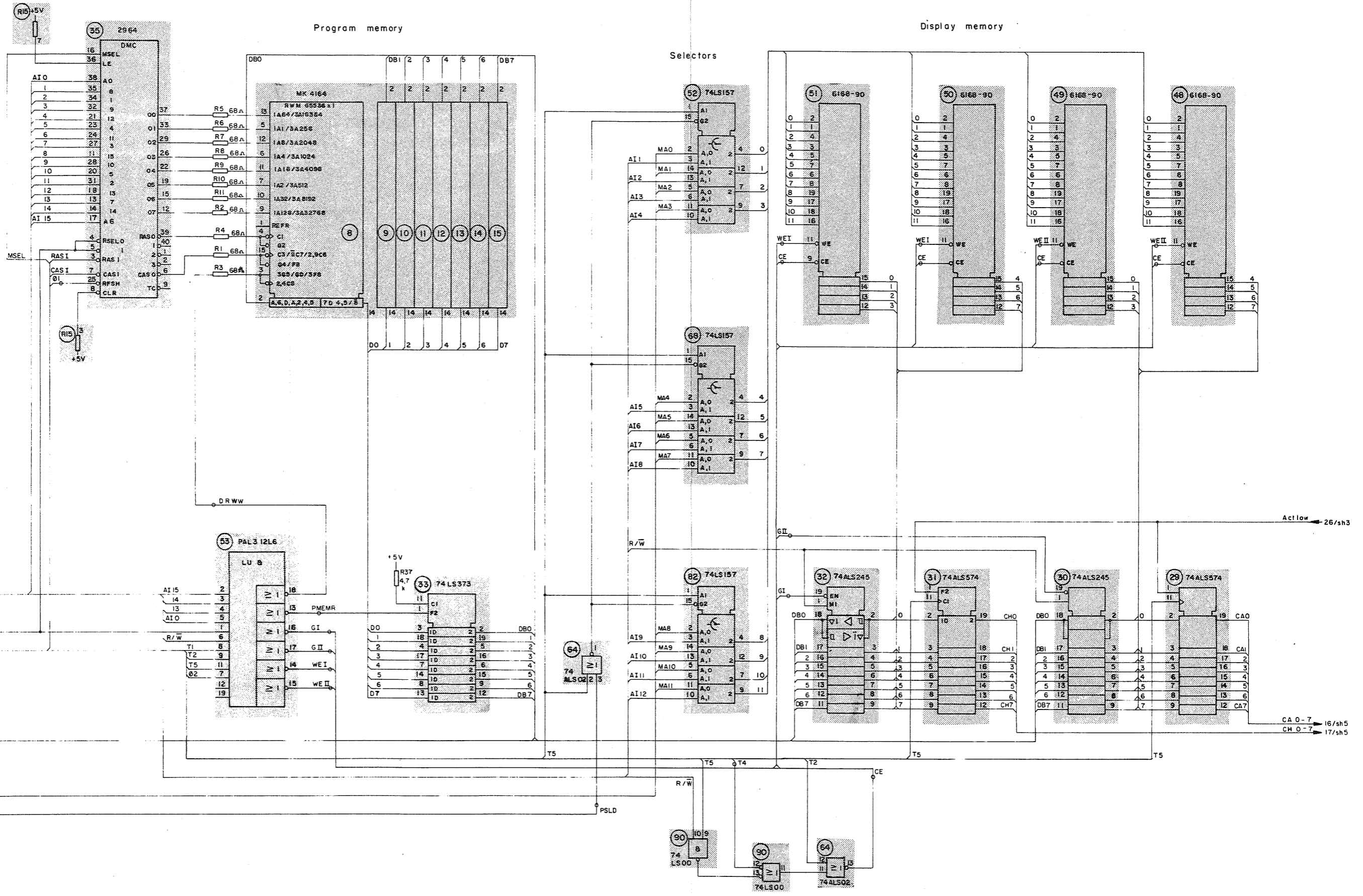
+ Not mounted on CHGB - 0010

Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Yjämnhet Surface quality	SMS 673 R _z μm
Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating		Grädfria kanter Edges free from burr
Utförd Issued	8.20.82 Å 82	Datum Date	840807
Kontr. Check	7/21	Skala Scale	
Godk. Approv	7/3798	62673 L'D	
DTC-D Display terminal controller			ERICSSON
E 34062 2130 2			6 Blad Sheet 2



DB	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7
1	1	2	3	4	5	6	7	8
2	1	2	3	4	5	6	7	8
3	1	2	3	4	5	6	7	8
4	1	2	3	4	5	6	7	8
5	1	2	3	4	5	6	7	8
6	1	2	3	4	5	6	7	8
7	1	2	3	4	5	6	7	8
8	1	2	3	4	5	6	7	8

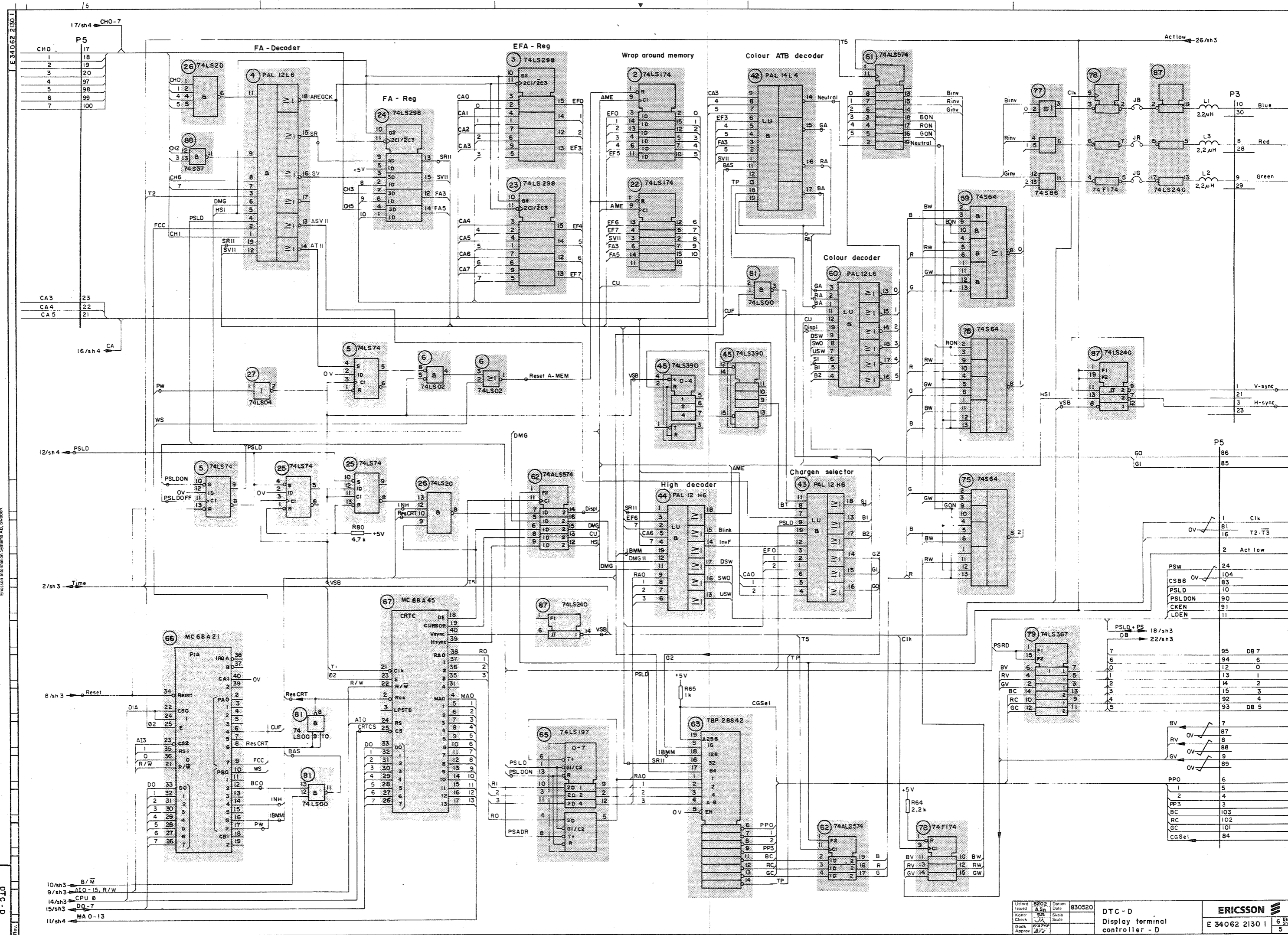
PI	PI1	PI2
0	2	3
1	4	5
2	6	7
3	8	9
4	10	11
5	12	13
6	14	15
7	16	17
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DTC-D

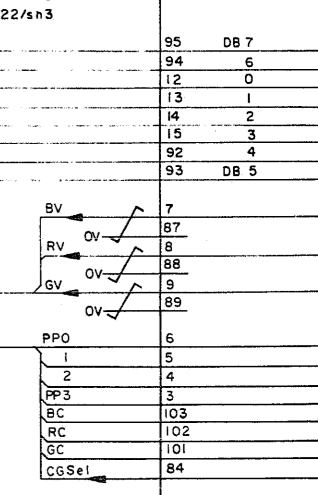
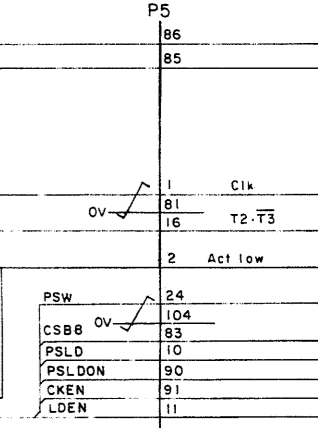
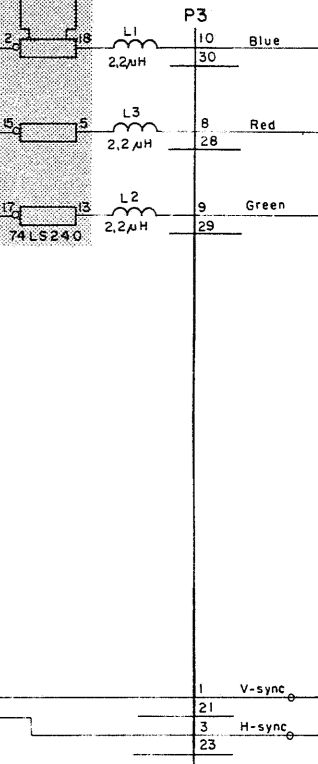
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Ytbeläggning Coating					
Måttoleranser (Där ej annat anges) Tolerances (Unless otherwise specified)		Diameter Diámetros		Ytfinish Surface quality	
Övriga mått Other dimensions		Datum Date		Skala Scale	
Utförd Issued		830520		DTC-D	
Kontrollerad Checked		62673		Display terminal controller-D	
Godkänt Approved		L-D		ERICSSON	
				E 34062 2130 1	
				6 Blad Sheet 4	

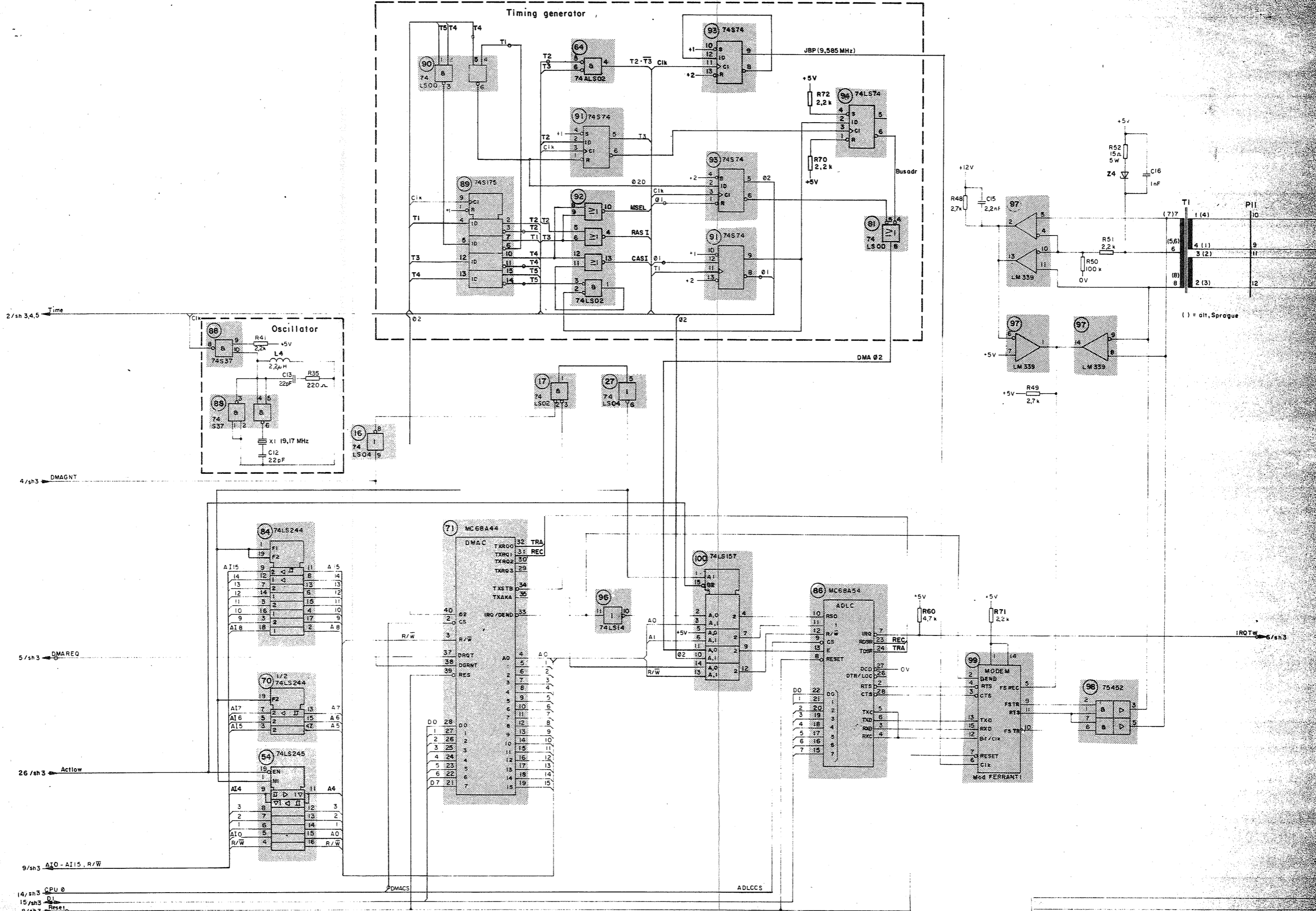


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10/sh3 B/M
 9/sh3 AIO-15, R/W
 14/sh3 CPU 0
 15/sh3 DQ-7
 11/sh4 MA 0-13

Act low ← 26/sh3

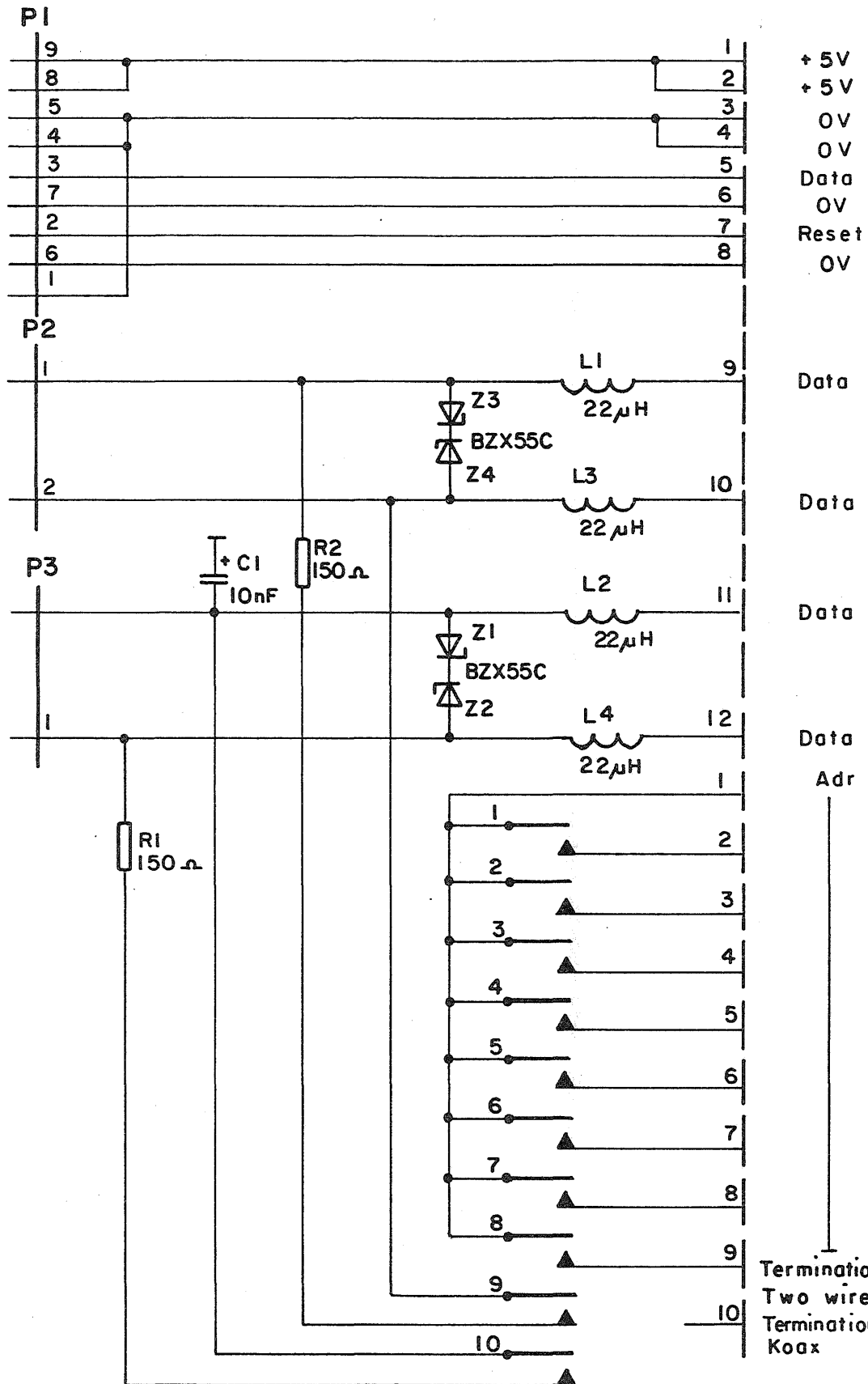




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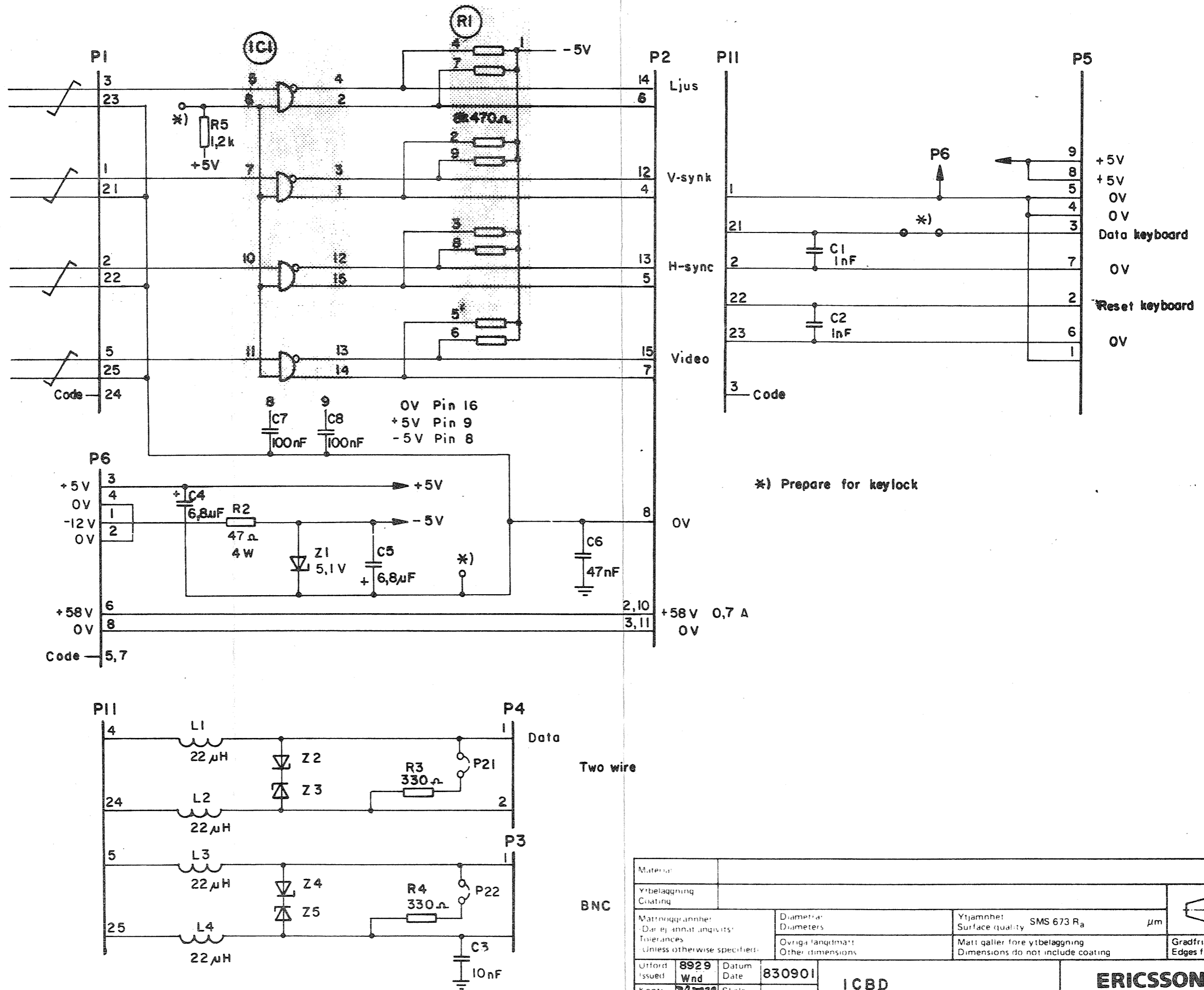
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Ericsson Informations Systems AB

E 34081 2000 4



Termination resistor
Two wire
Termination resistor
Coax

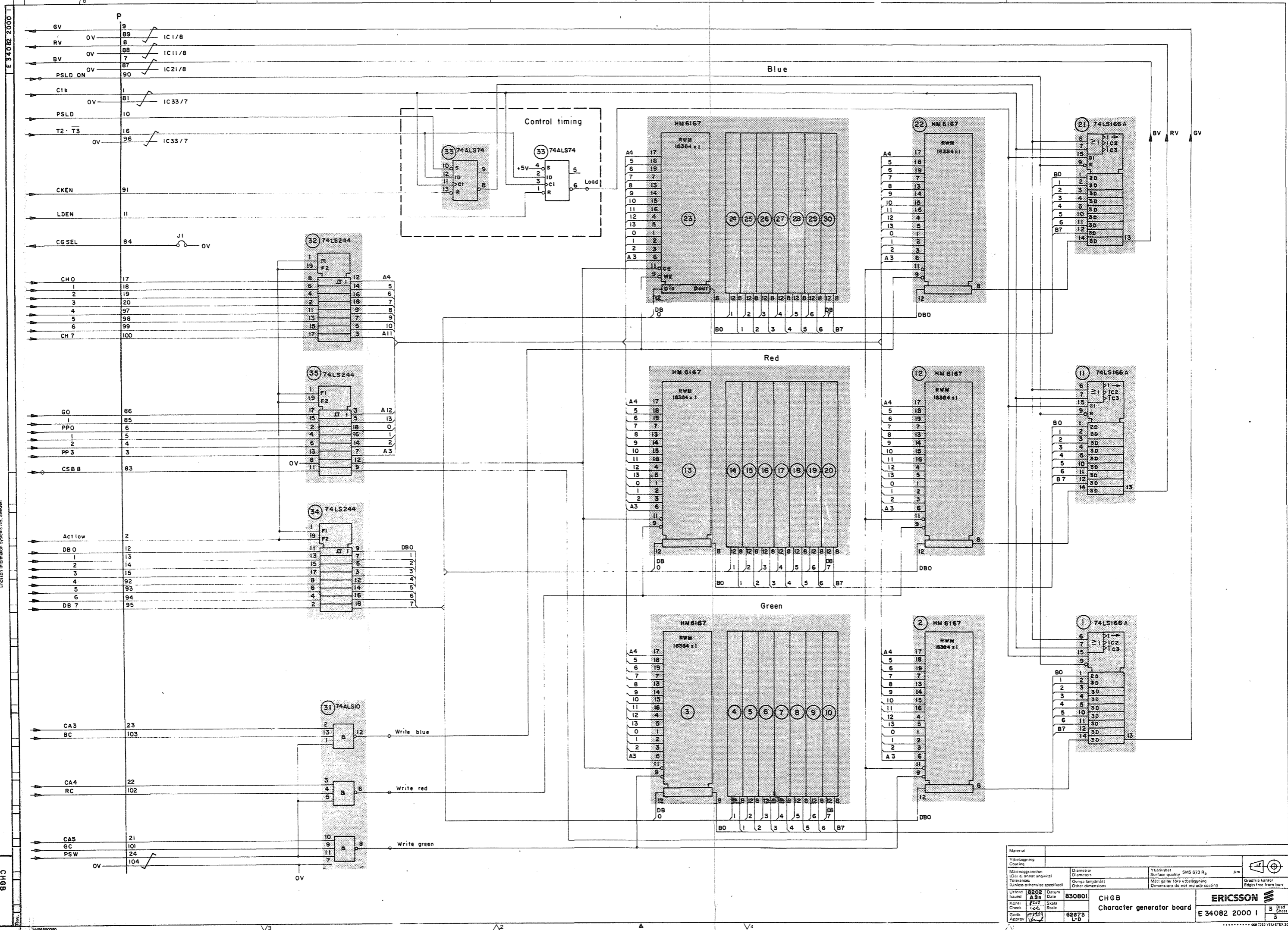
Ytbeläggning Coating		Diametrar Diameters		Ytjämnhet Surface quality SMS 673 R _a μm				
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)		Övriga längdmått Other dimensions		Mått gäller före ytbeläggning Dimensions do not include coating		Gradfria kanter Edges free from burr		
Utförd Issued	9289 KH	Datum Date	820622	Interconnection board		ERICSSON		
Kontr Check	2289	Skala Scale						E 34081 2000 4
Godk Approv	8827		62673 L-D					



*) Prepare for keylock

Material			
Ytbeläggning Coating			
Mattnoggrannhet Dar ej annat angivits Tolerances Unless otherwise specified		Ytjämnhet Surface quality SMS 673 R _a μm	
Övriga längdmått Other dimensions		Matt galler före ytbeläggning Dimensions do not include coating	
Gradfria kanter Edges free from burr			
Utförd Issued	8929 Wnd	Datum Date	830901
Kontr. Check	200729	Skala Scale	
Godk. Approv	200729		62673 L-D
ICBD Inter Connection Board			ERICSSON
E 34081 2100 3			Blad Sheet

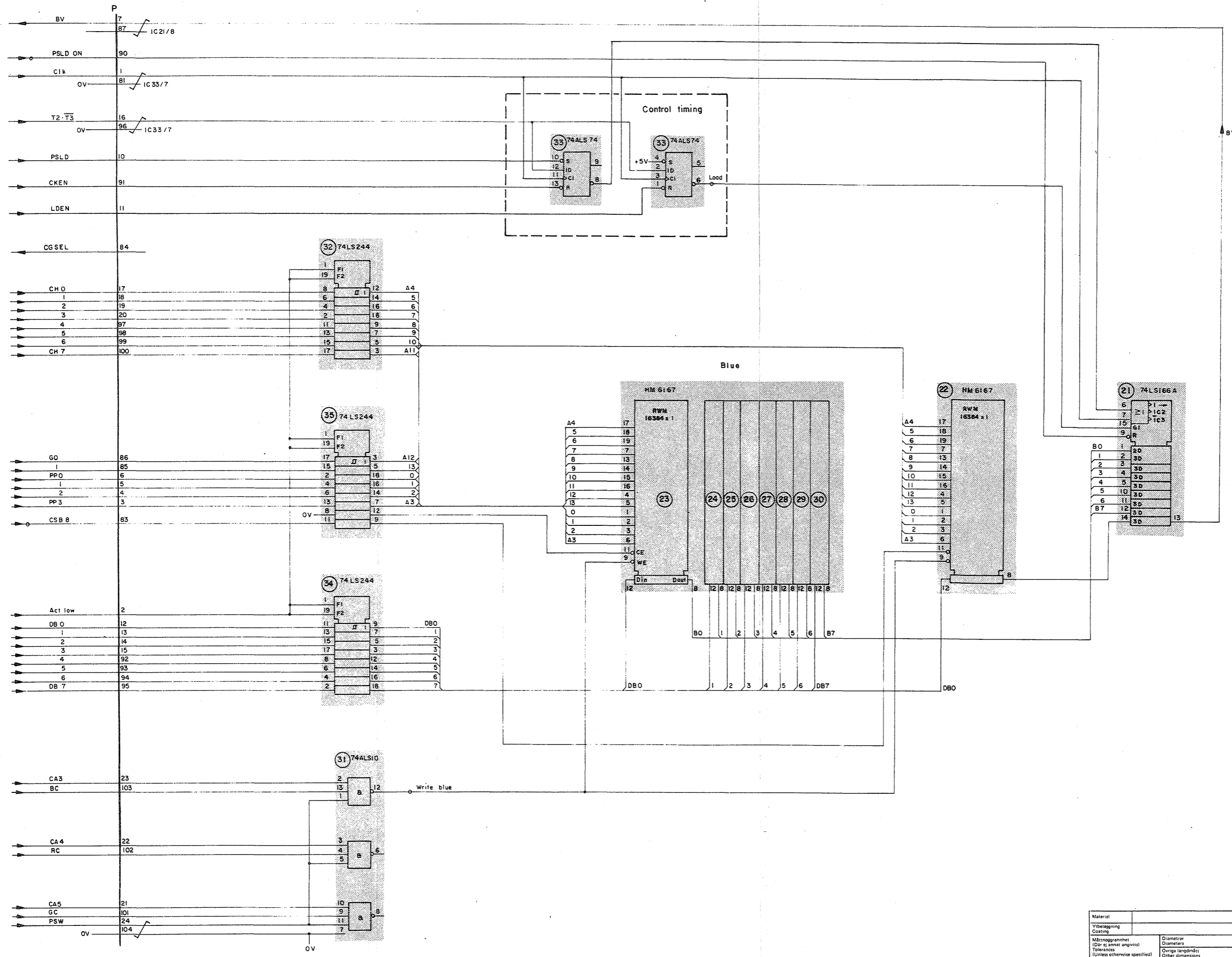
Rev 840704



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BØHC

Material		Ytbeläggning		Cladding	
Måttoleranser (Där ej annat angivits)		Diameter		Ytjämförelse	
Tolerances (Unless otherwise specified)		Diameters		Surface quality	
Övriga mått (Andra dimensioner)		Övriga dimensioner		Mått gäller före yttbeläggning (Dimensions do not include coating)	
Utgivet		Datum		Grafiska katter	
Issued		Date		Edges free from burr	
Kontrollerad		Skala		ERICSSON	
Checked		Scale		Character generator board	
Godkänn		L-D		E 34082 2000 1	
Approved		L-D		3	
				3	



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CHGB

Material		Ytbeläggning		Coating	
Måttolerans (Där ej annat angivits)	Diametrar	Ytjämnhet	Surface quality: SMS 673 R _a μm		
Tolerans (Unless otherwise specified)	Övriga längdmått	Mått gäller före ytbeläggning	Dimensions do not include coating		
Utförd	8202	Datum	930801	ERICSSON	
Issued	ASR	Date	Scale	CHGB	
Kontroll	22/2	Skala	Scale	Character generator board	
Godkänn	22/2	Skala	Scale	E 34082 2010 1	
Approved	22/2	Skala	Scale	3	
				3	

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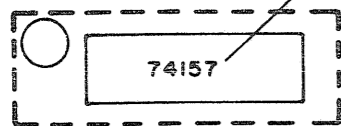
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14	

TEST POINTS	
NO	SIGNAL
1	Mod rec data
2	+ TTL
3	
4	Carry 600 kHz
5	D in
6	Mod Tr data
7	CTS
8	IRQ 7
9	TR data
10	Rec data
11	Bit clock
12	Mod fr data
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2N 2907

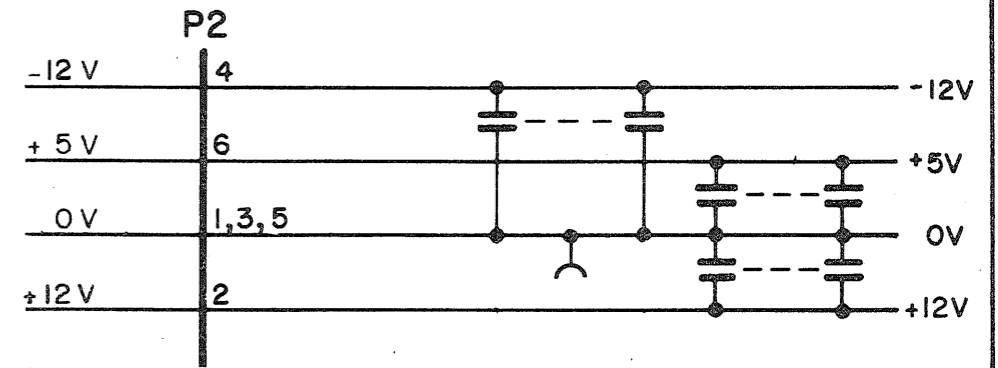
* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



74157

COMPONENT LIST

NO	TYPE */
IC 2	74LS04
IC 11	74LS32
IC 22	74LS74
IC 10	74LS86
IC 21	74107
IC 1	74LS157
IC 23	74LS174
IC 24	74LS193
IC 6,13	74LS244
IC 4,14	74LS245
IC 18	74LS273
IC 28	75452
IC 20	MC14517
IC 5	MC6844
IC 3	MC6854
IC 12	ROM 32x8 BIT
IC 19	ROM 256x4BIT
IC 30	LM 339
IC 29	TLO84
Z 1	IN 4148
L 1,2	KS66300-B
TR 1	66Z1133



NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN

Example : +I CONN. TO R
 +IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS			
NUMBER	SH.	MOD.	2	3	
E34063 2000 3	1	REV.	-	1	
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	1	"	-	1	
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		"			
		"			
		"			
		"			
		"			

ASSEMBLY DRAWING NO. E34063 0000 2

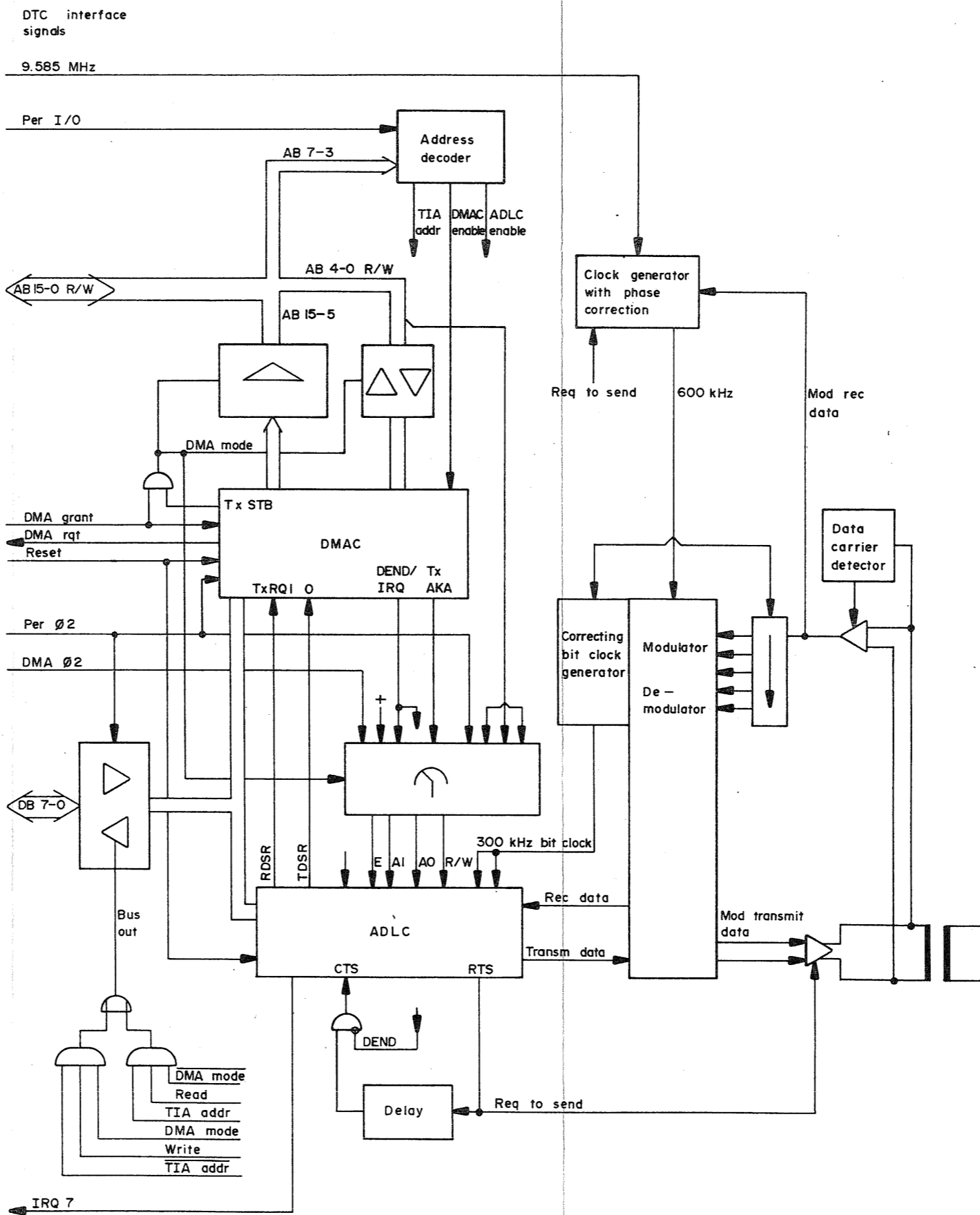
INGÅR AVEN I ALSO USED ON	REG-NR REG. NO.	ERICSSON E34063 2000 3	3 BLAD SHEET 1
FORST ANVÄND FIRST USED ON	KONTR CHECK		
GODK APPROV	KOPIER COPIED	TIA Two Wire Interface Adapter	
SKALA SCALE	UTFORD ISSUED	791219	

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Ericsson Information Systems AB

12	11	10	9	8	7	6	5	4	3	2	1
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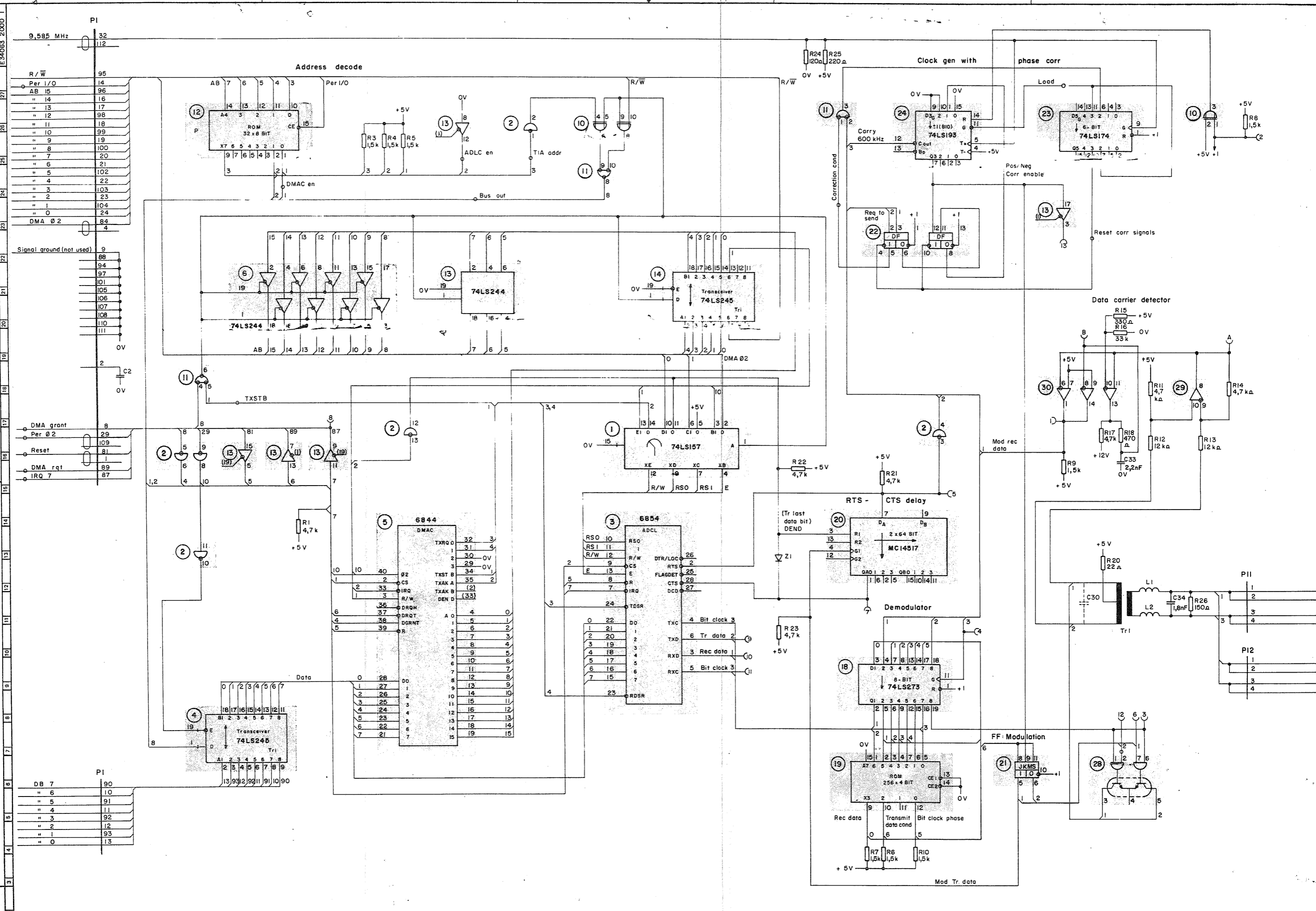


INGÅR ÄVEN ÄLSTÄLLNINGAR		REG NR REG No
KONTROLL CHECK	8550	GODKÄNT APPROV
SKALA SCALE	9603	9328
UTGÅVA ISSUED	9603	781206
TIA Two Wire Interface Adapter		ERICSSON
E34063_2000_2		3 SHEET

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PI

9,585 MHz	32
	112
R/W	95
Per I/O	14
AB 15	96
" 14	16
" 13	17
" 12	98
" 11	18
" 10	99
" 9	19
" 8	100
" 7	20
" 6	21
" 5	102
" 4	22
" 3	103
" 2	23
" 1	104
" 0	24
DMA 02	84
	4

Signal ground (not used)

9	OV
88	
94	
97	
101	
105	
106	
107	
108	
110	
111	
	OV
2	
	OV

DMA grant	8
Per 02	29
Reset	81
DMA rqt	89
IRQ 7	87

PI

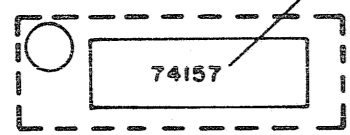
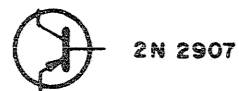
DB 7	90
" 6	10
" 5	91
" 4	11
" 3	92
" 2	12
" 1	93
" 0	13

() = Repeated information
 P = Programming and strapping, see separate documentation

INGÅR AVEN I	REG-NR
ALSO USED ON	
CHOK	8550
SKALA	1:1
UTGIVNING	1982
ISSUED	1982
781206	
TIA Two Wire interface Adapter	
ERICSSON	
E34063 2000 1	3

REV 1	801020	2	801120	3	820920	4	17	18	19	20	21	22	23	24	25	26
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TIA-A																

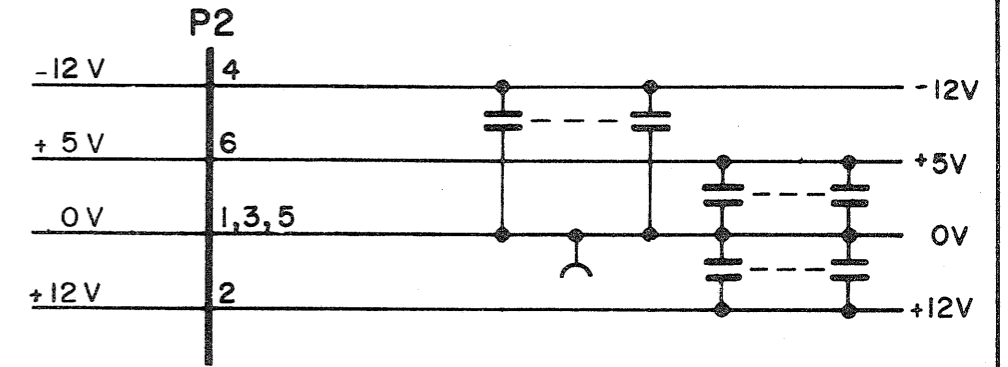
TEST POINTS	
NO	SIGNAL
1	Mod rec data
2	+ TTL
3	
4	Carry 600 kHz
5	D in
6	Mod Tr data
7	CTS
8	IRQ 7
9	TR data
10	Rec data
11	Bit clock
12	Mod tr data
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33	



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES

COMPONENT LIST

NO	TYPE #/
IC8	74LS04
IC23	74LS32
IC30	74LS74
IC9	74LS86
IC37	74107
IC29	74LS157
IC31	74LS174
IC38	74LS193
IC21,5	74LS244
IC7,14	74LS245
IC43	74LS273
IC39	75452
IC16	MC14517
IC15	MC6844
IC22	MC6854
IC6	ROM 32x8 BIT
IC44	ROM 256x4 BIT
IC41	LM 339
IC40	TLO84
Z1	IN 4148
L1,2	KS66300-B
TR1	66Z1133



NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN

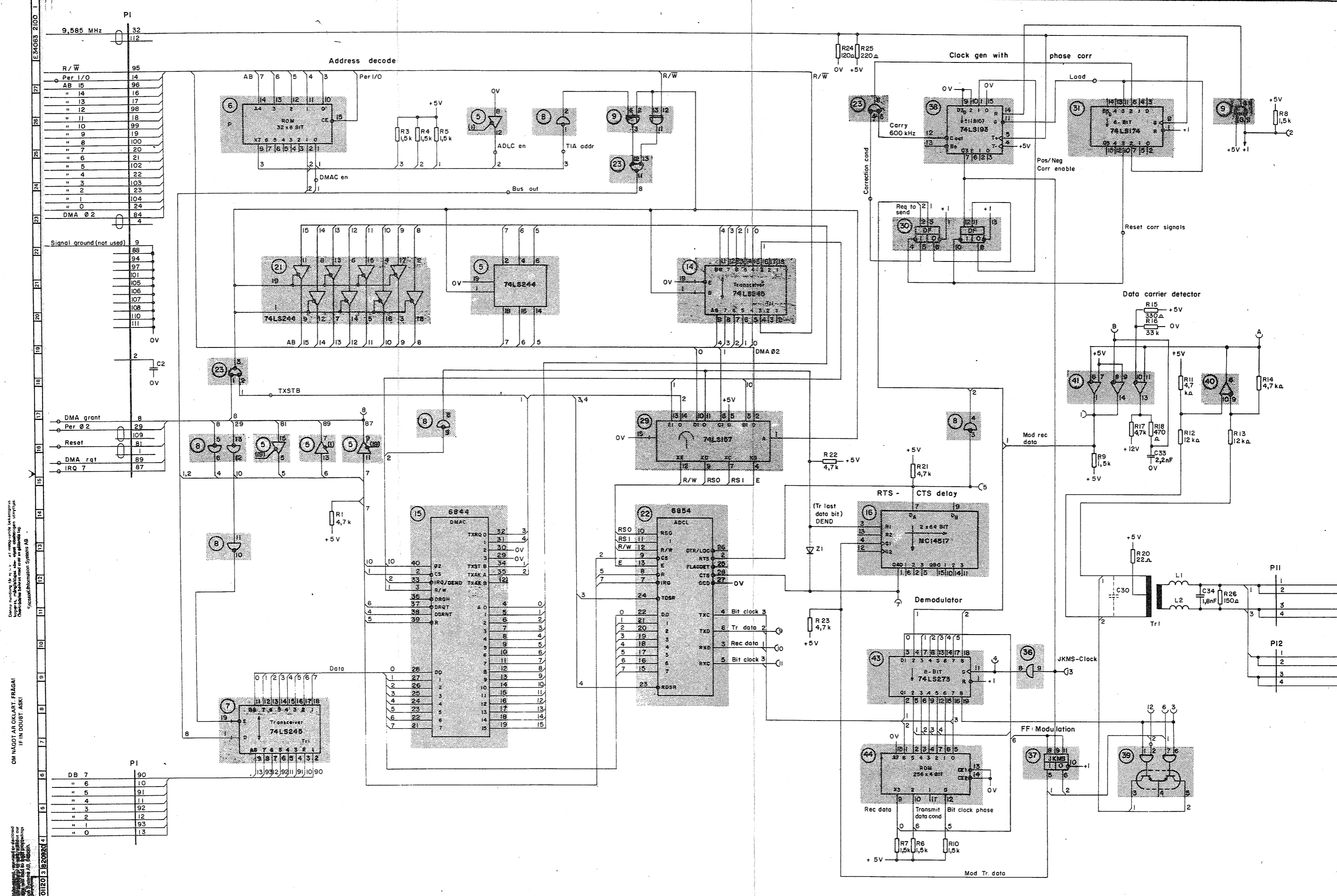
Example : +I CONN. TO R
 +IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS									
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E34063 2100 3	1	REV.	1	2	3						
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"	"	"									
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"	"	"									
"	"	"									
"	"	"									
"	"	"									

ASSEMBLY DRAWING NO. E034063 0100 21
BLOCKDIAGRAM SEE NO. E034063 2000 2

INGÅR AVEN I ALSO USED ON	REG. NR REG. No
FÖRST ANVÄND FIRST USED ON	
KONTR CHECK	GODK APPROV
SKALA SCALE	KOP. ER COPIED
UTFÖRD ISSUED	9603 791219
TIA-A Two Wire Interface Adapter	
ERICSSON	
E34063 2100 3	2 BLAD SHEET
	1



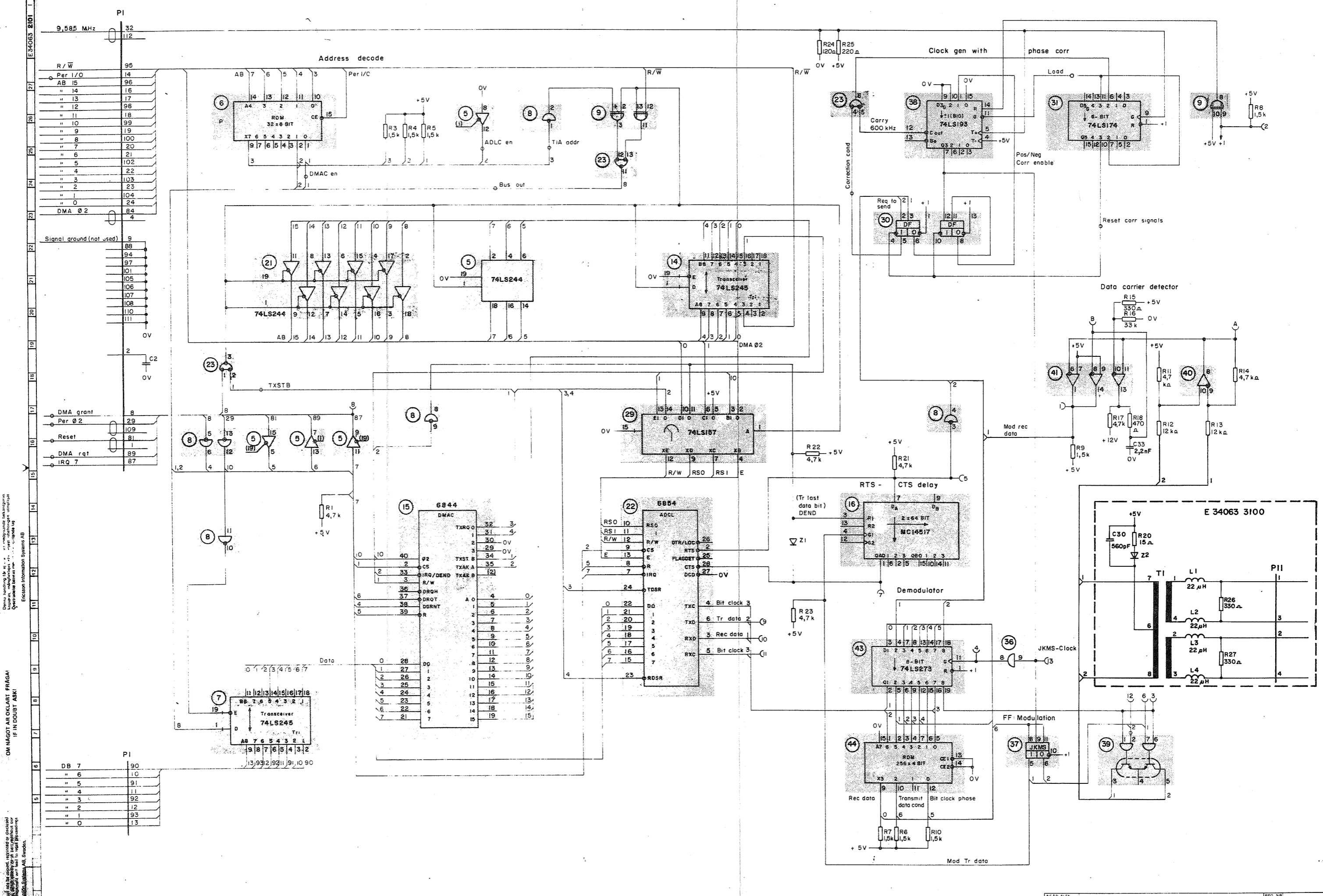
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INGÅR AVEN I ALSO USED ON	REG. NR. (PMS. 76)
KONTY CHECK	8559
SKALA SCALE	1:1
UTFÖRD ISSUED	9603
OKOK APPROV	9603
KOPIER COPIED	54
781206	

TIA-A
Two Wire Interface
Adapter

ERICSSON
E34063 2100 1



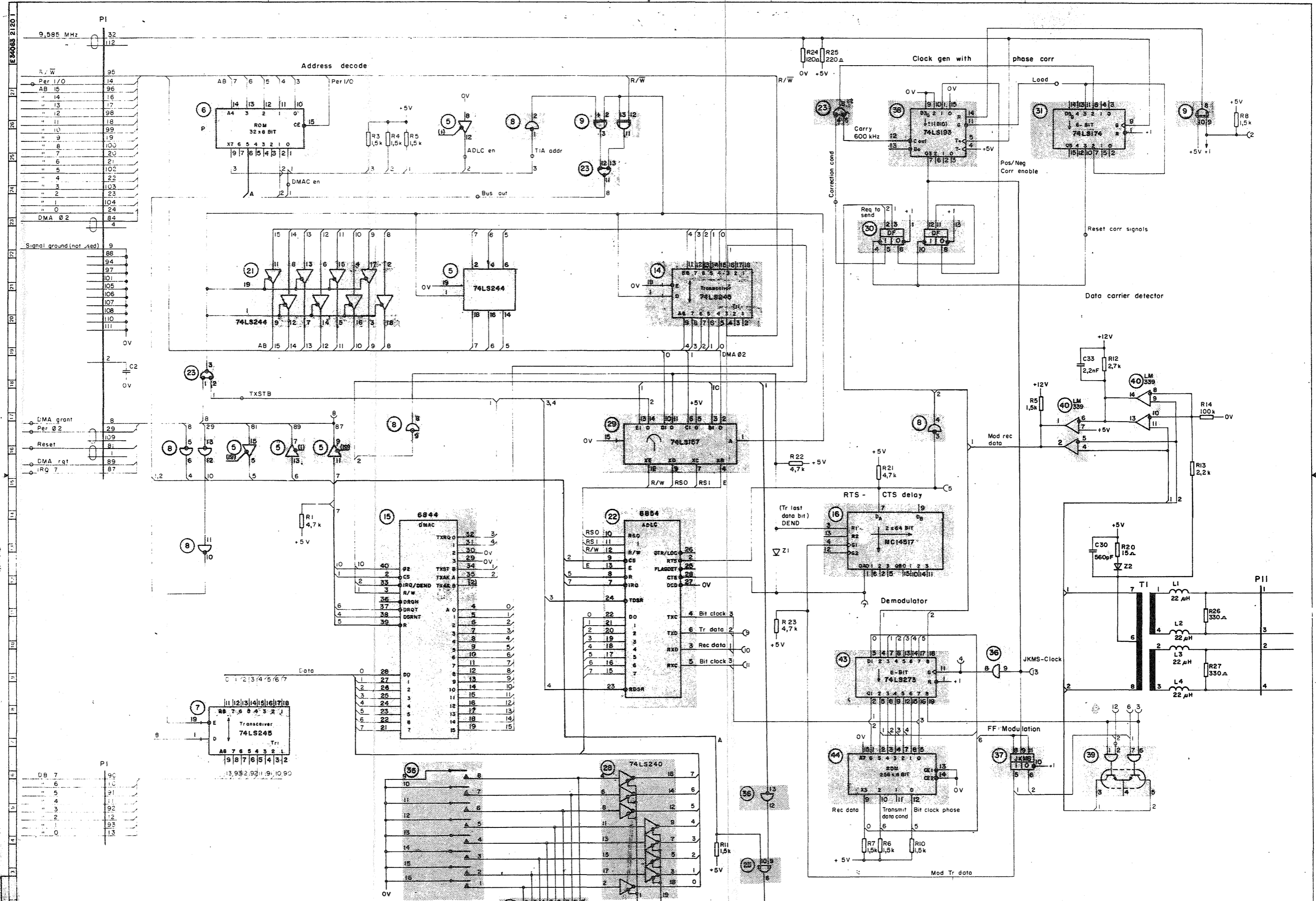
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REG NR	REG NR	REG NR	REG NR
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49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

TIA-A/B
 Two Wire Interface
 Adapter

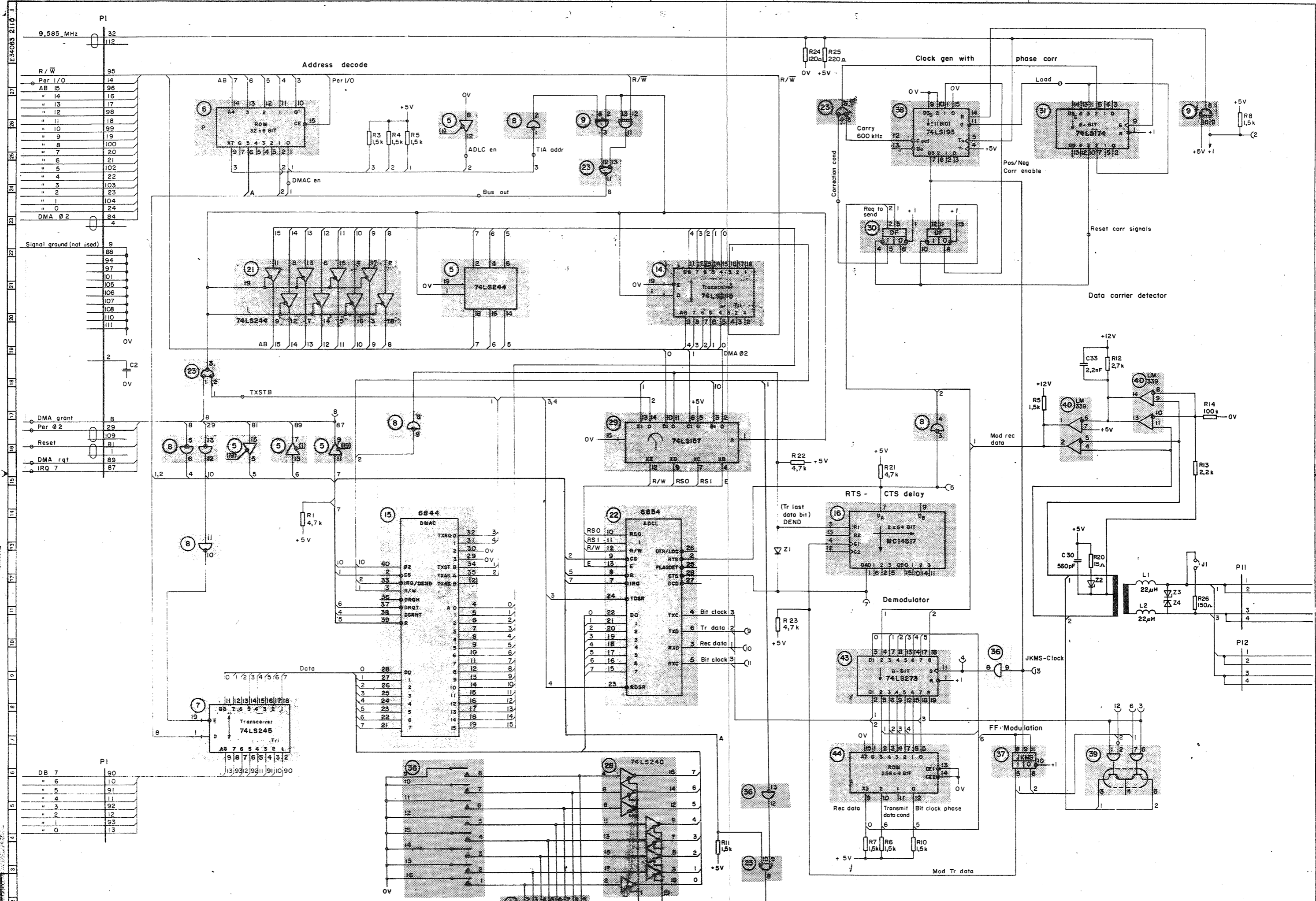
ERICSSON
 E34063 2101 I



() = Repeated information
 P = Programming and strapping, see separate documentation

DATE	1981	DESIGN	10/22
MONTH	10	APPROV	10/22
CHECK		NOV 10 1981	
SCALE		COPY	1:1
LTOR	817	65LEC	RJ
	850519		

TIA-B
 Two Wire Interface
 Adapter



PI

9,585 MHz	32
	112
R/W	95
Per I/O	14
AB 15	96
" 14	16
" 13	17
" 12	98
" 11	18
" 10	99
" 9	19
" 8	100
" 7	20
" 6	21
" 5	102
" 4	22
" 3	103
" 2	23
" 1	104
" 0	24
DMA 02	84
	4

Signal ground (not used)

9	OV
88	
94	
97	
101	
105	
106	
107	
108	
110	
111	

DMA grant	8
Per 02	29
Reset	81
DMA rqt	89
IRQ 7	87

PI

DB 7	90
" 6	10
" 5	91
" 4	11
" 3	92
" 2	12
" 1	93
" 0	13

() = Repeated information
P = Programming and strapping,
see separate documentation.

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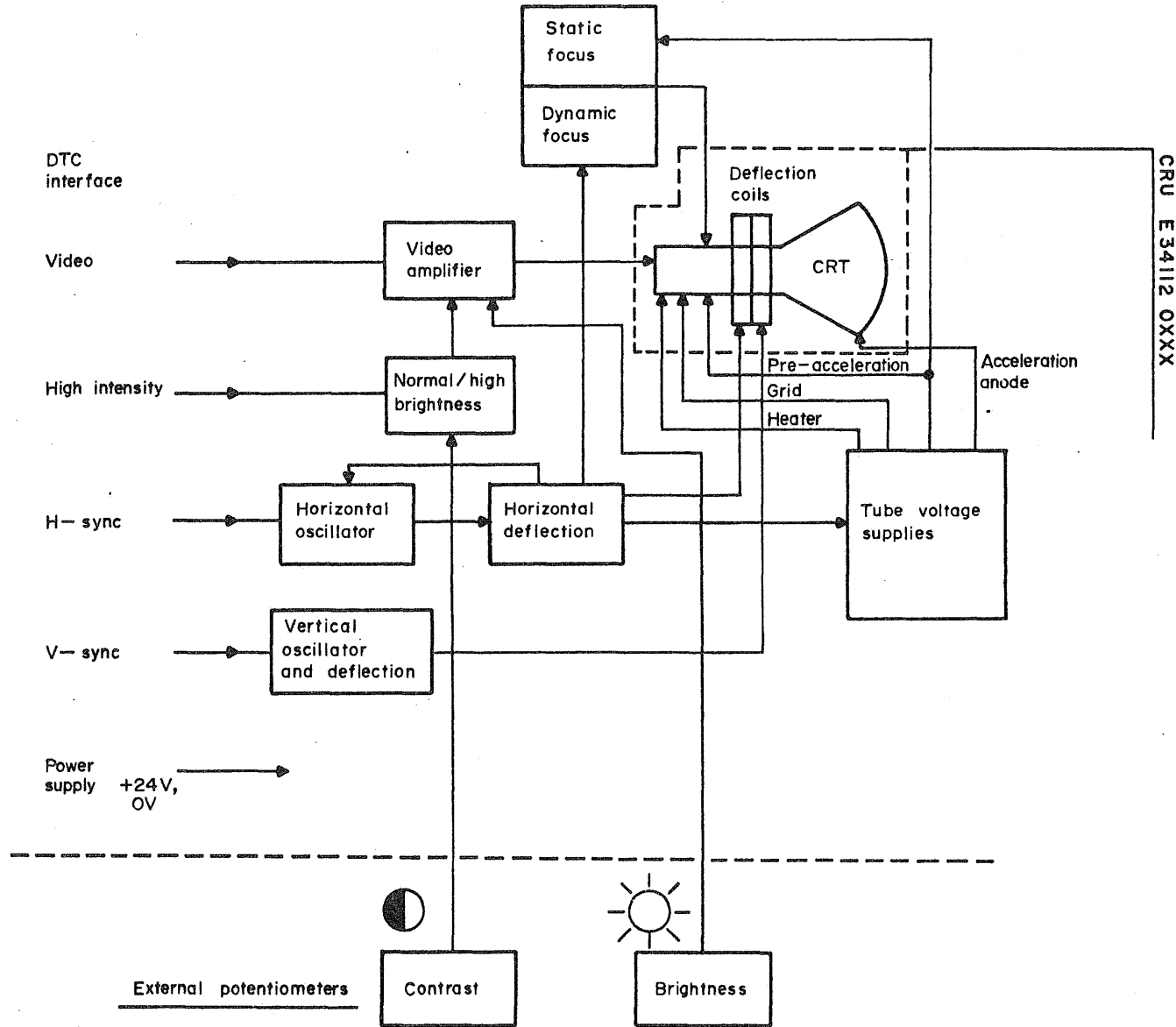
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CRB													
REV. 1	810612	2	3	4	5	6	7	8	9	10	11	12	E34111 2000 4

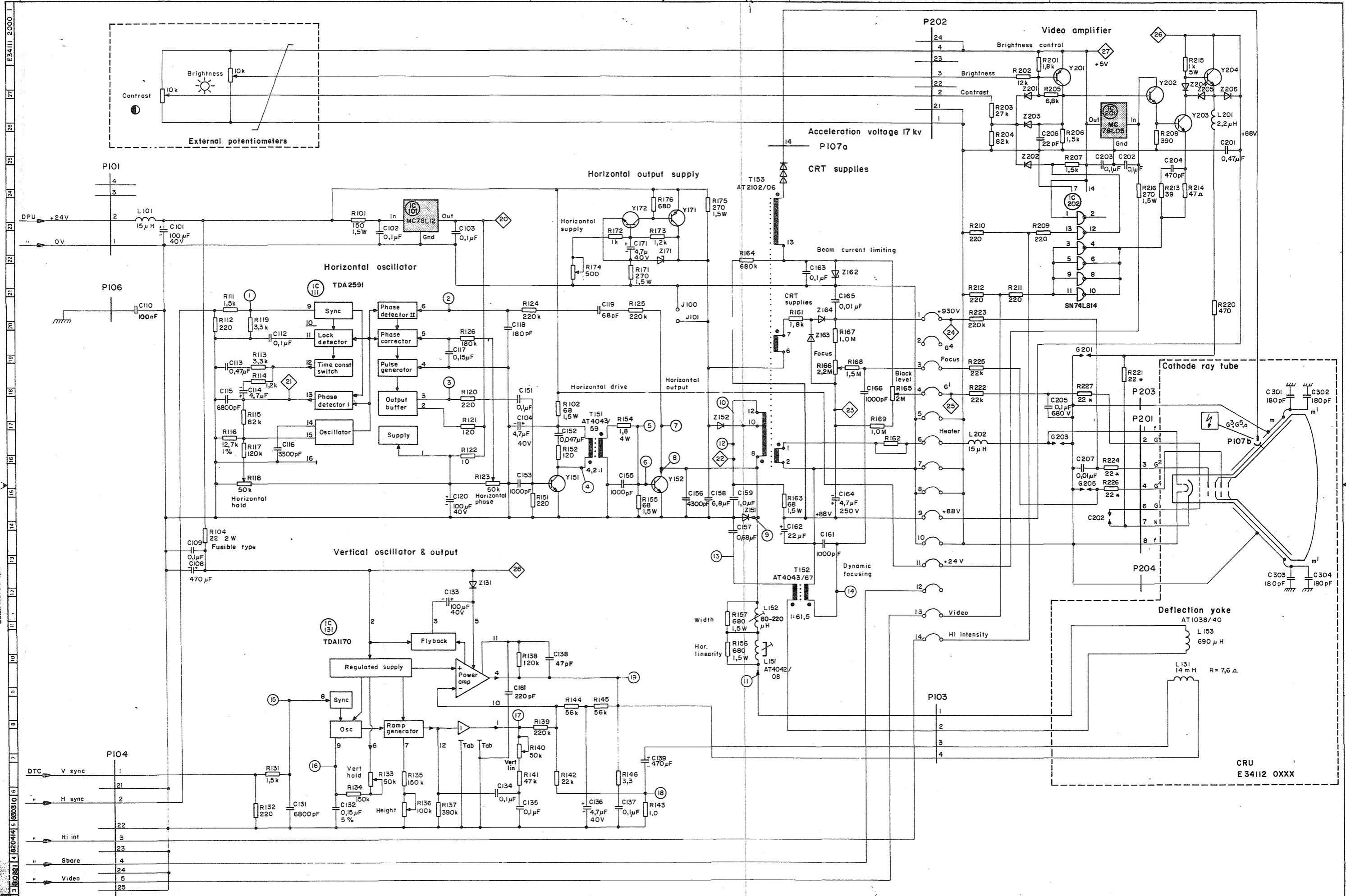
ISSUED	MG	9776	UTFORD	SCALE	SKALA	SCALE	SKALA	APPROV	8039	8555	KONTR	8039	AL	9328	KOPIER	6M	800211
ERICSSON																	
E34111 2000 4																	
CRB CRT Unit Board																	
REG. NR. REG. NO.																	
3																	
2																	



BL 301:43

A

SCANDINAVO VERVETS



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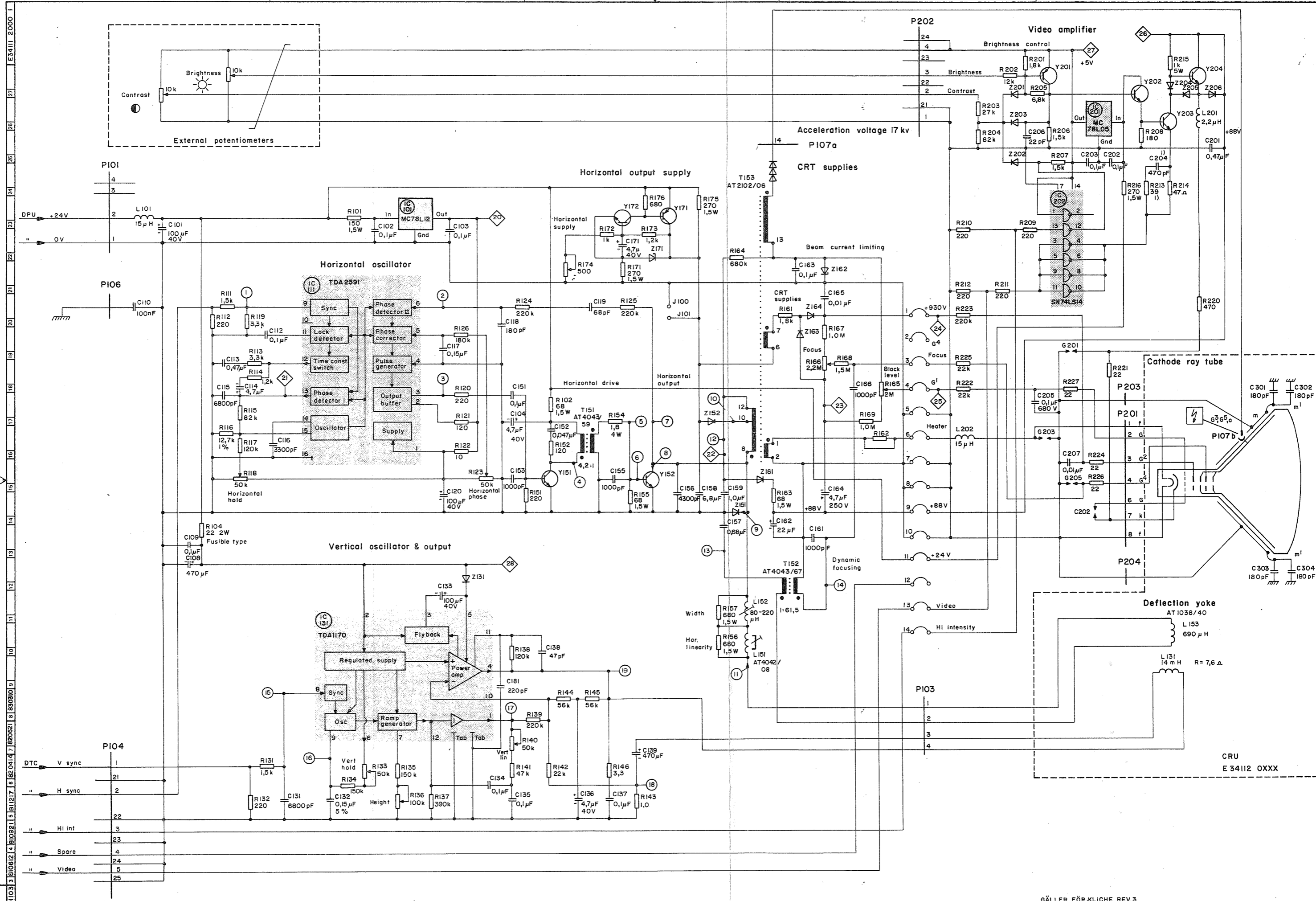
GÄLLER FÖR KLICHE' REV.2
VALID FOR PCB LAYOUT NO.2

INGÅR ÄVEN I ANDRA ENHETER	REG. NR.	REG. NO.
KONTROLL CHECKED	8039	41
SKALA SCALE	KOPIER COPIED	GM
UTGIVNING ISSUED	80 02 12	

CRB
CRT Unit Board

ERICSSON

E34111 2000 I 3
3a



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REV: 1801015 12 1801013 3 1801012 4 1801011 5 1801010 6 1801009 7 1801008 8 1801007 9 1801006 10 1801005 11 1801004 12 1801003 13 1801002 14 1801001 15 1801000 16 1800999 17 1800998 18 1800997 19 1800996 20 1800995 21 1800994 22 1800993 23 1800992 24 1800991 25

1) Värder utprovats, typiskt värde angivet
To be tested out, typical value stated

GÄLLER FÖR KLICHE REV.3
VALID FOR PCB LAYOUT NO.3

INGÅR AVEN I ALSO USED ON	MONTH	ISSUED	CODE	APPROV	2032	REG. NR	REG. NO.
CHECK	1985	1	3328	4			
SKALA	KOPIER	COPIED	6 M				
UTGIVNING	ISSUED	80 02 12					

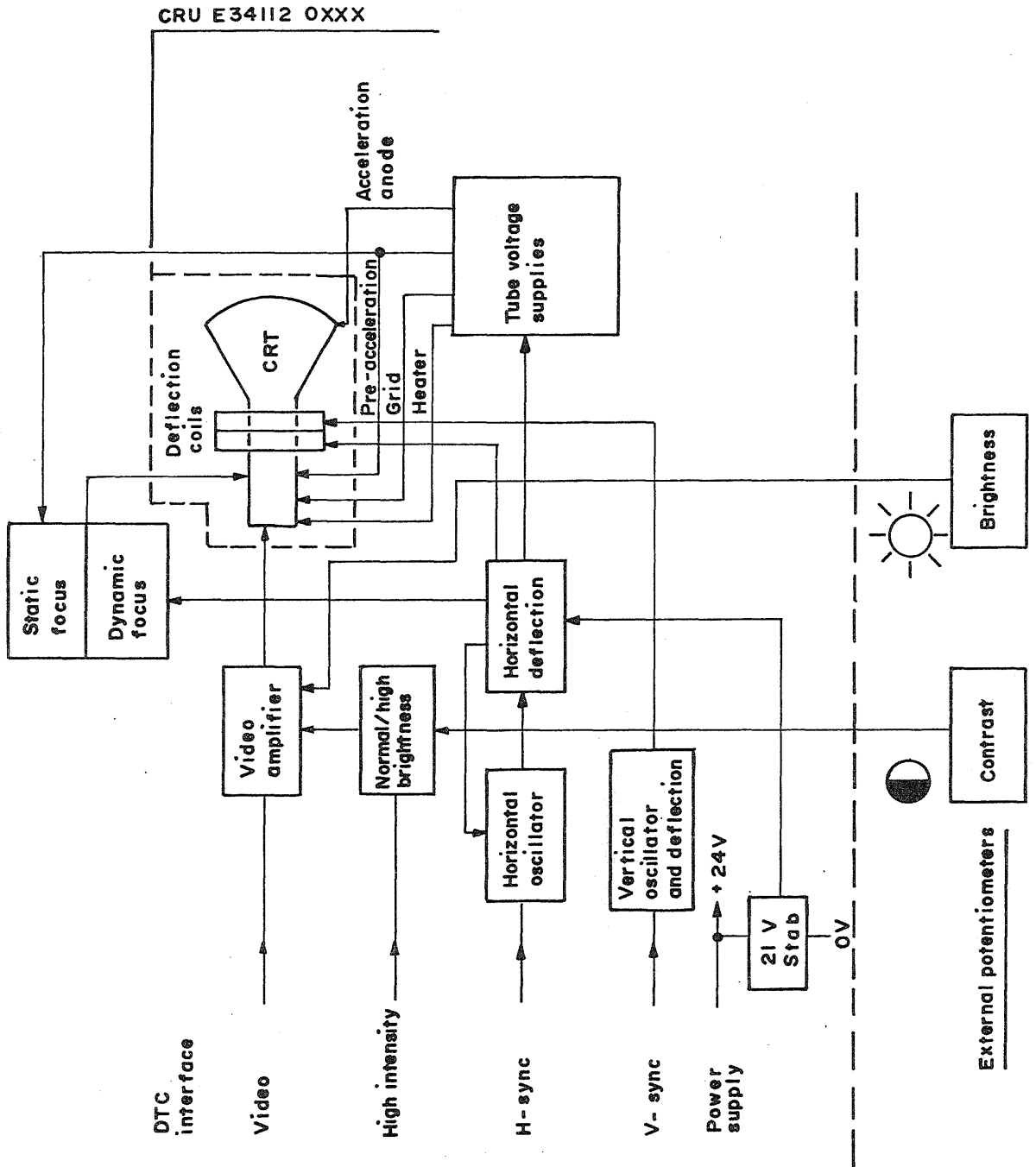
CRB
CRT Unit Board

ERICSSON
E34111 2000 1 3 b
3 b

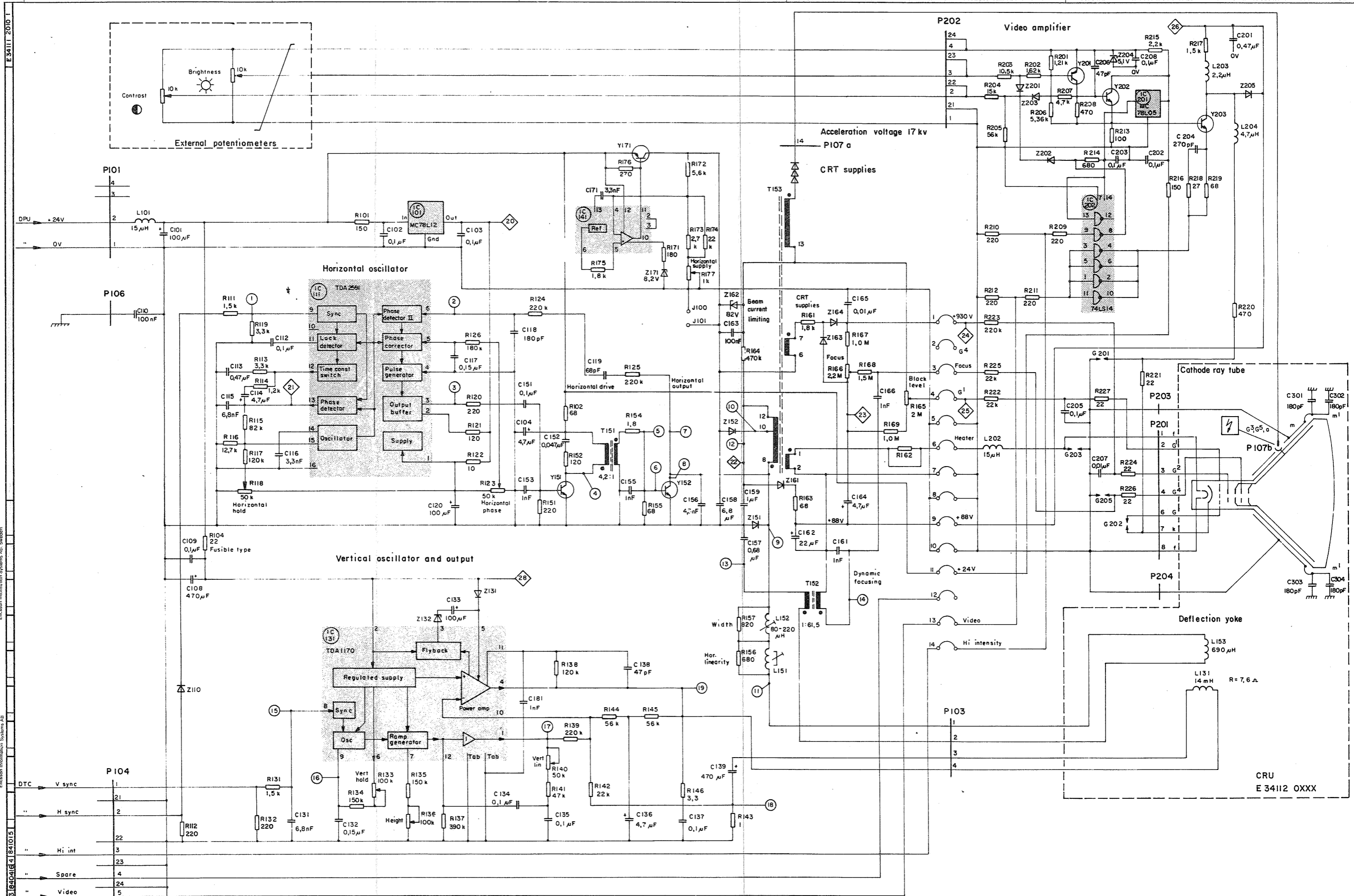
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E 34 III 2010 4



Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)		Diametrar Diameters	Ytjämnhet Surface quality SMS 673 R _a μm
Utförd Issued		Datum Date	Gradfria kanter Edges free from burr
Kontr Check		Skala Scale	
Godk Approv			
8039 AL		820715	
8857 AL			
8857 AL		62673 L-D	
CRB		CRB CRT Unit board	
ERICSSON		E 34 III 2010 4	
3 Blad Sheet		2	



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Material		Ytbeläggning		Coating	
Måttolerans (Där ej annat angivits)		Diameter		Ytfinish	
Tolerances (Unless otherwise specified)		Surface quality		SMS 673 Ra	
Övriga mått (Specify other dimensions)		Mått gäller före ytbeläggning		Dimensions do not include coating	
Utformad av: 8099		Datum: 820715		Skala: CRB	
Kontrollerad av: AL		Godkännande: 62673		L-D: CRT Unit board	
Godkännande: 62673		L-D: CRT Unit board		ERICSSON	
Godkännande: 62673		L-D: CRT Unit board		E 34112 OXX	
Godkännande: 62673		L-D: CRT Unit board		Sheet 3	

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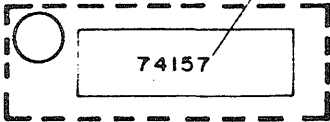
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REV. 1840215 2 1 0 9 10 11 12 E 34111 21004



2N 2907

*/ INDICATED NUMBERS ONLY EXAMPLES OF EXISTING CIRCUIT TYPES



COMPONENT LIST

NO	TYPE */
IC 6	74F86
IC1	LM 329CZ
IC5	LM 358
IC3	78L05
IC4	3240 A
IC7	F10125
IC2	TDA 1770
IC100	TDA 2593
Y14,15	BC547 B
Y100	BD 237
Y1	BD 650
Y101	BF 419
Y102	BUV 83
Y2,3,5,6,7	MPS A 42
Y4, 8	MPS A 92
Y10,12,13	2N2369
Y9,11, 17, 18	2N 54 86
Y16	BC557
Z 3 - 9,10	1N 4448
Z 100,110,200,201	BAV 21
Z 103 -108	BYV 96 E
Z102	BYW96 E
Z2	BZX55 C5VI
Z101	BZX55 C 11
Z109	BZX55 C 18
Z1	1N 4004

ASSEMBLY DRAWING NO. E

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS	
	SH. MOD.	REV.
E 34111 2100 4	1	1
— " — 1	2	1

CRB

INGAR AVEN 1
ALSO USED ON

KONTR CHECK 9000
GODK APPROV 205424
SKALA SCALE
KOPIER COPIED 62673 L-D
UTFORD ISSUED 9000 B N

CRB
Minor 12 "

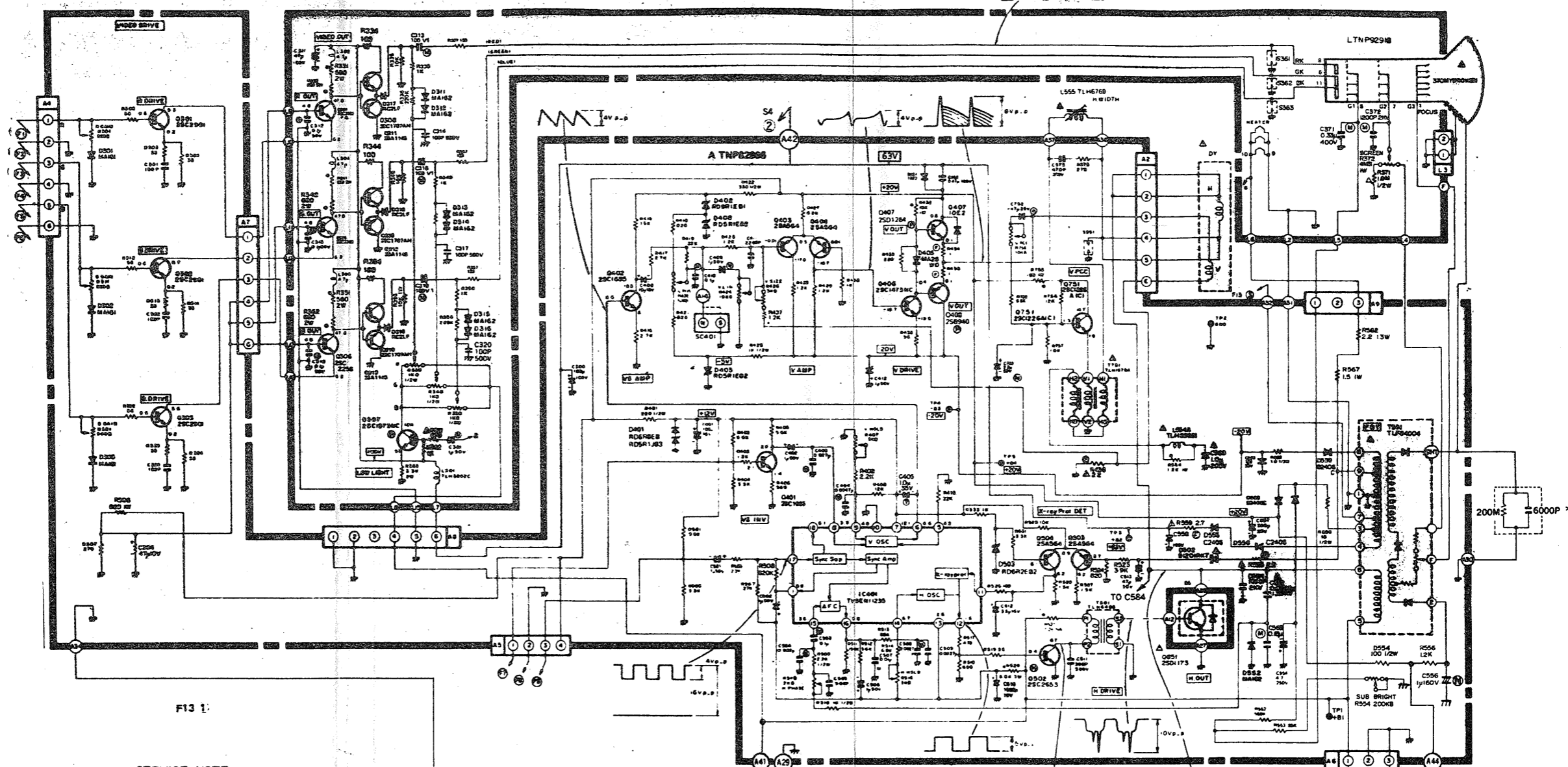
REG - NR
REG. No

ERICSSON

E 34111 2100 4

2 BLAD SHEET
1

SCHEMATIC DIAGRAM FOR TX1404EGA



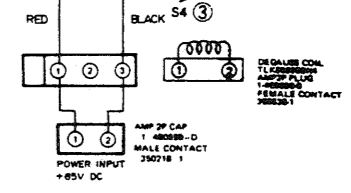
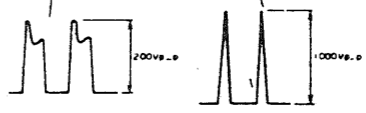
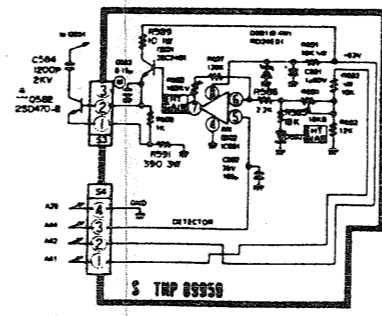
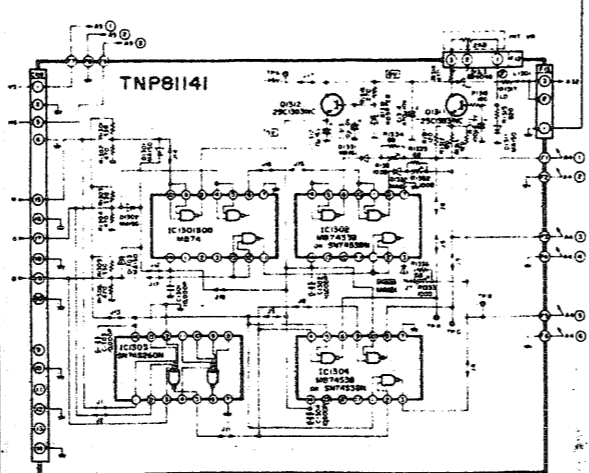
F13 1:

SERVICE NOTE

1. RESISTOR
All resistors are carbon 1/4W resistor, unless otherwise noted the following marks.
Unit of resistance is OHM(N), K=1,000, M=1,000,000
Δ: Solid resistor ⊕: Non Flame
2. CAPACITOR
All capacitors are ceramic 50V capacitor, unless otherwise noted the following marks.
Unit of capacitance is μF unless otherwise noted.
⊗: Polyester ⊙: Polystyrene capacitor
⊖: Electrolytic capacitor ⊕: Tantalum
3. COIL
Unit of inductance is μH.
4. VOLTAGE MEASUREMENT
a. Voltage is measured by a digital meter with DC 10MΩ, 0.1MΩ/V receiving normal signal.
b. Use each measurement voltage for reference.

IMPORTANT SAFETY NOTICE

The component identified by shading or the international symbol on this schematic diagram incorporates special features important for protection from X-Radiation, fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for these critical components.



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Utford Issued	Datum Date	841004
Kontr. Check	Skala Scale	
Godk. Approv		762673 L-D

CRU

ERICSSON

Blad Sheet

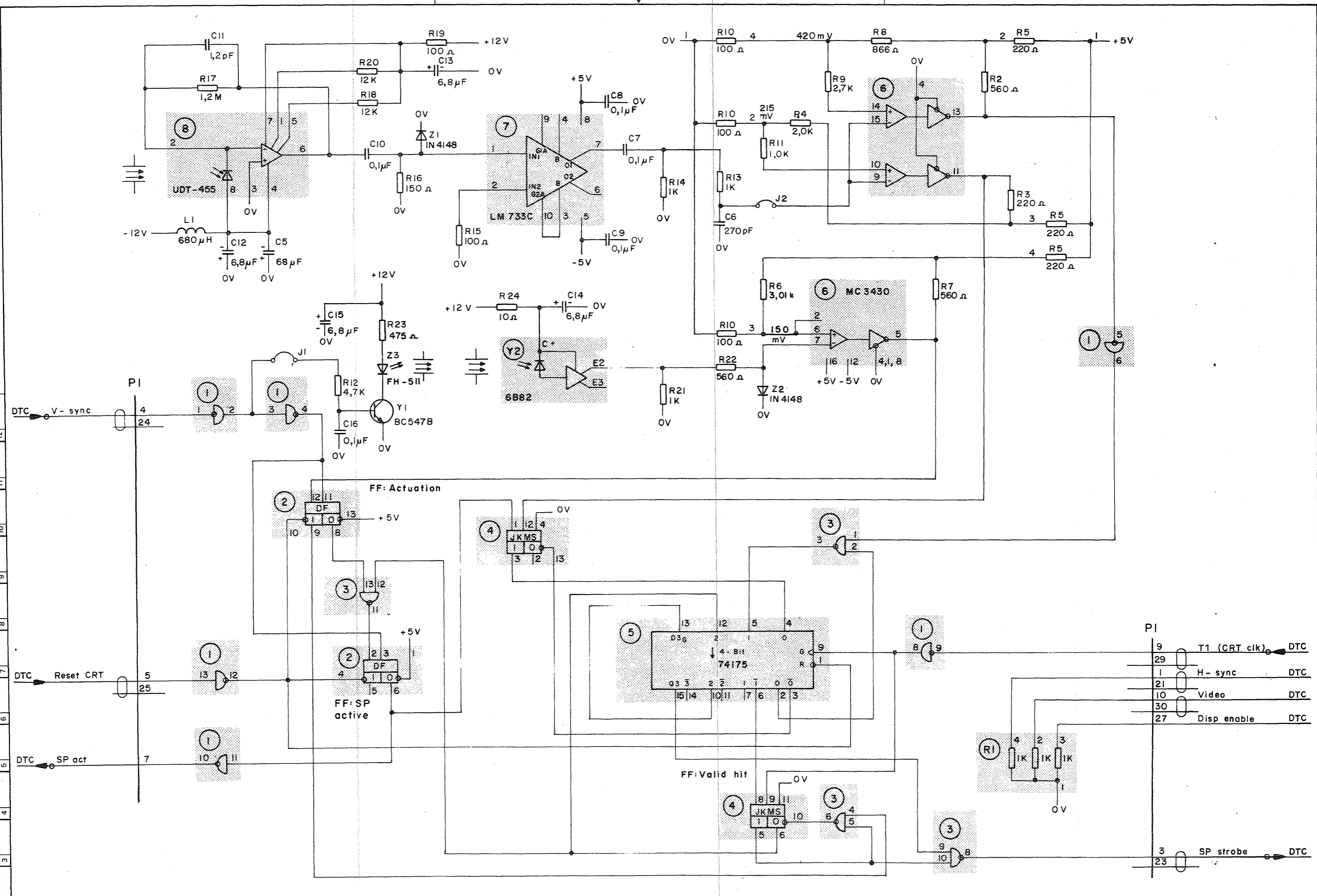
E 34112 2030 3

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REV 1840215 2



INGÅR ÄVEN I ALSO USED ON		REG-NR REG. No
KONTR CHECK	8558 GODK APPROV	
SKALA SCALE	KOPIER COPIED	9328 GM
UTFORD ISSUED	08315 POS	790918
SPA Selector pen adapter		ERICSSON
E34069 2000 2		2 BLAD 2 SHEET

Keyboards

Contents

KBC Keyboard Controller

Reference Sheet	E34066 2000 3, sh 1
Block Diagram	E34066 2000 3, sh 2
Logic Diagram	E34066 2000 1, sh 3

KXB Keyboard Expansion Board

Reference Sheet	E34067 2000 3, sh 1
Block Diagram	See E34066 2000 3, sh 2
Logic Diagram	E34067 2000 3, sh 2

MIA Magnetic Identification Device Interface Adapter

Logic Diagram	E34131 2100 4
---------------	---------------

KBLB Keyboard Logic Board

6910297-11-4, Logic Diagram	69 54 129, sh 1-8
6910297-12-4, Logic Diagram	69 54 163, sh 1-8
6910297-15-4, Logic Diagram	69 54 174, sh 1-8

KBSB Keyboard Switch Board

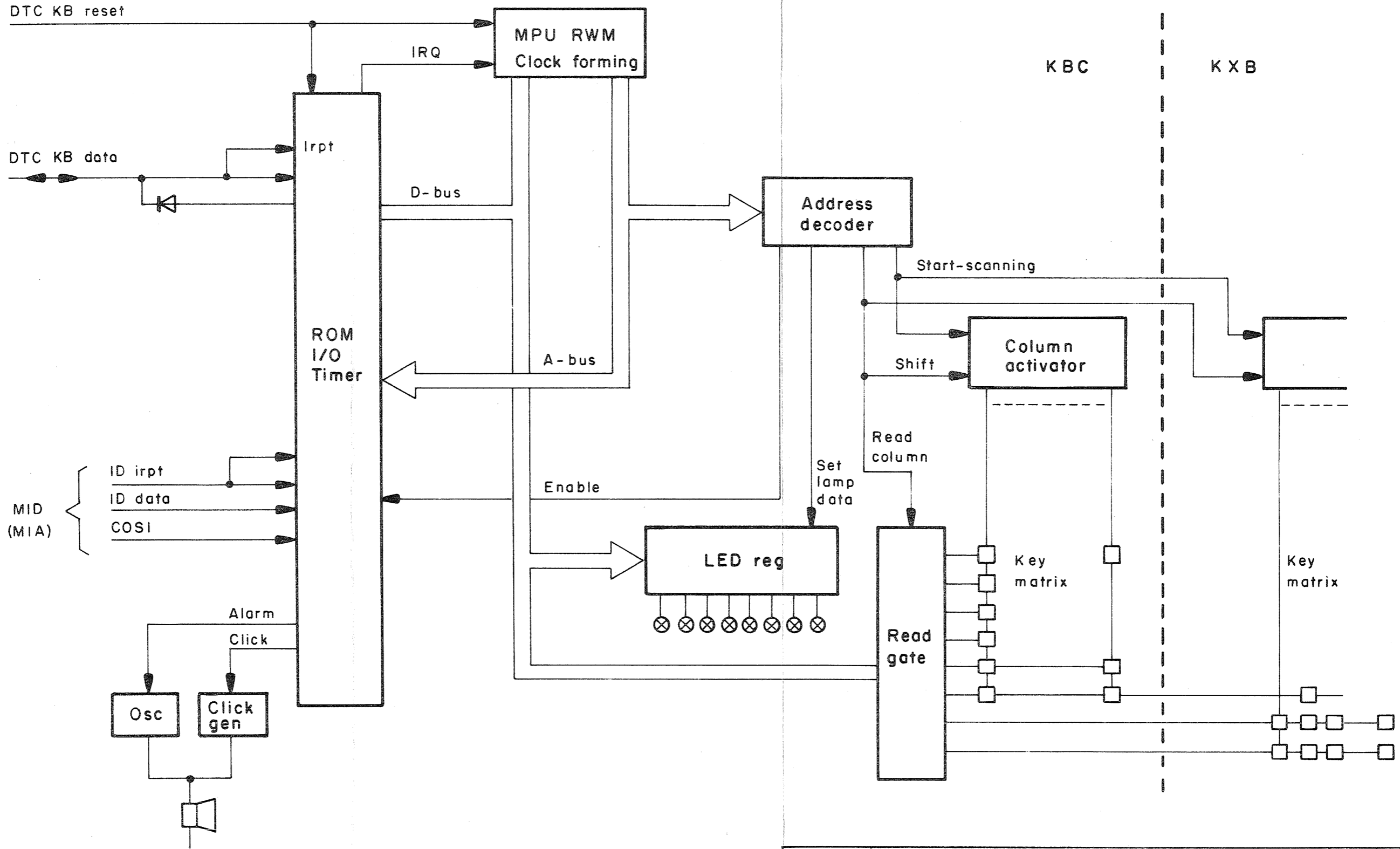
6910310-11-1/-12-1, Logic Diagram	69 54 126, sh 1-6
6910314-12-1, Logic Diagram	69 54 128, sh 1-3

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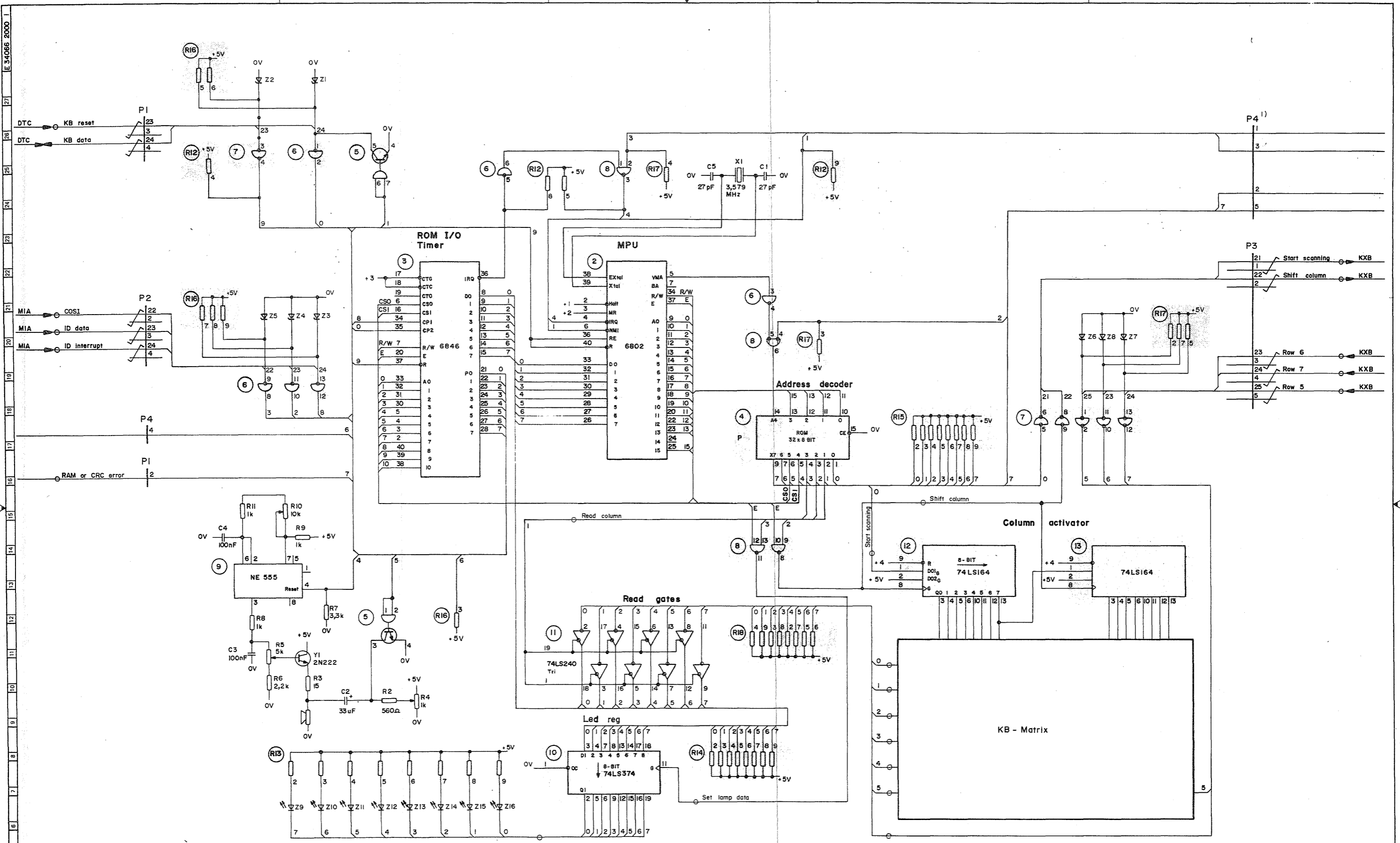
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BX KXB	REV.1801104 2	3	4	5	6	7	8	9	10	11	12	E.34066 2000 3
Omritad												



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KONTR. CHECK	8558	GODK. APPROV.	8039	AL
SKALA SCALE		KOPIER. COPIED	9328	GM
UTFÖRD ISSUED	9776		80 02 11	
KBC, KXB Keyboard Controller Keyboard Expansion Board			ERICSSON	
			E34066 2000 3	
			3 BLAD SHEET 2	



P = Programming and strapping
see separate documentation.
1) = Connector P4 not mounted in
new production

Denna handling är g utom vid medgivande beaktas.
 Översatt, utgåvan efter eller annan utgåva uttryck.
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REV. 18010-4 2 800823 3
 Omritad

INGÅR ÄVEN I ALSO USED ON		REG. NR. REG. No.
KONTROLLER CHECK	8558	8558
SKALA SCALE	KOPIER COPIED	APPROV L.P.
UTFÖRD ISSUED	8978 JP	8977 L.P.
781122		KBC Keyboard controller
E 34066 2000 1		3 SHEET 3

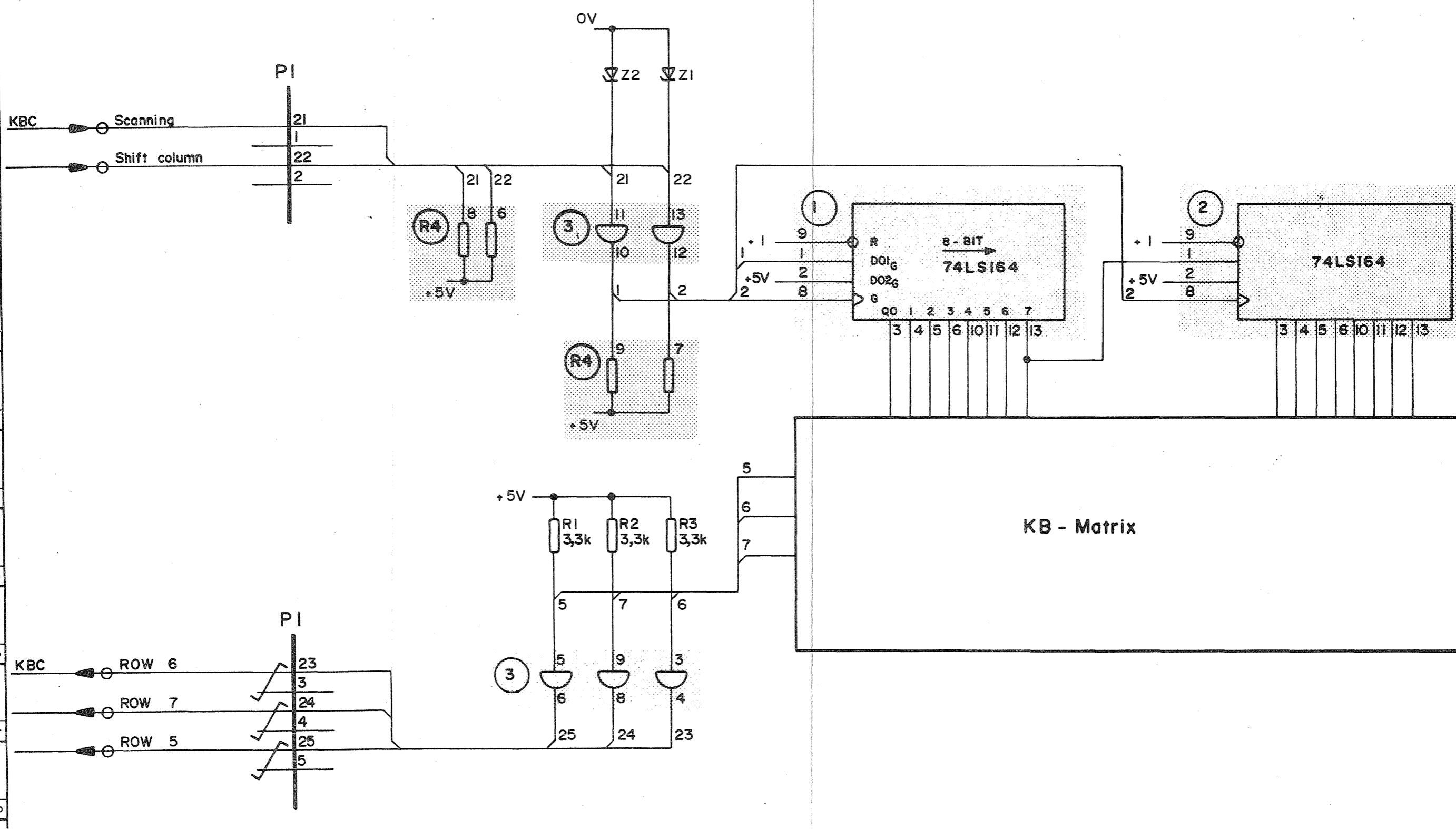
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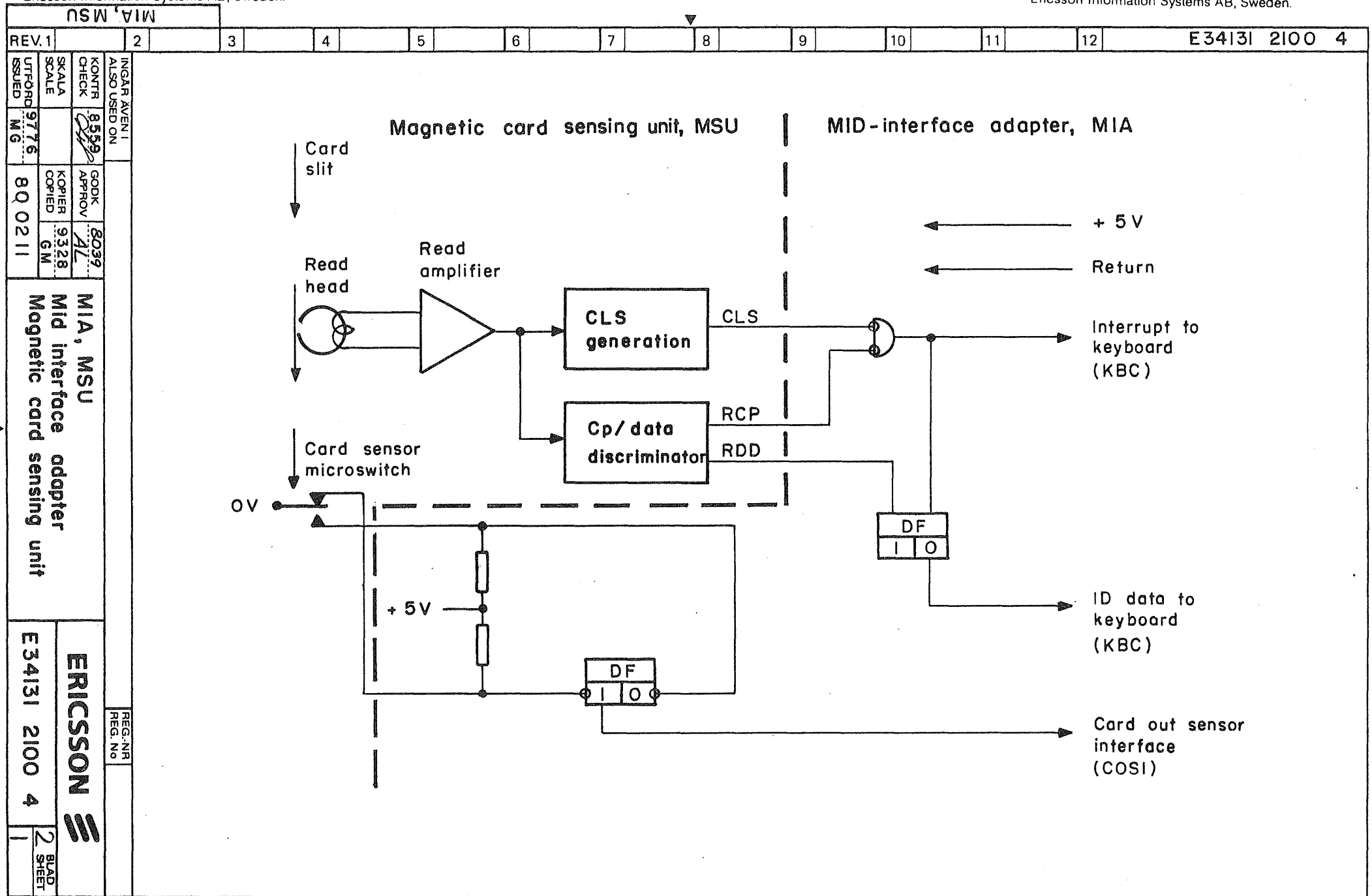
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KONTR CHECK	8559	GODK APPROV	8978
SKALA SCALE		KOPIER COPIED	9977 L.P.
UTFÖRD ISSUED	8978 JP	781122	
KXB Keyboard expansion board			
ERICSSON			2 OF 2 SHEETS
E 34067 2000 3			



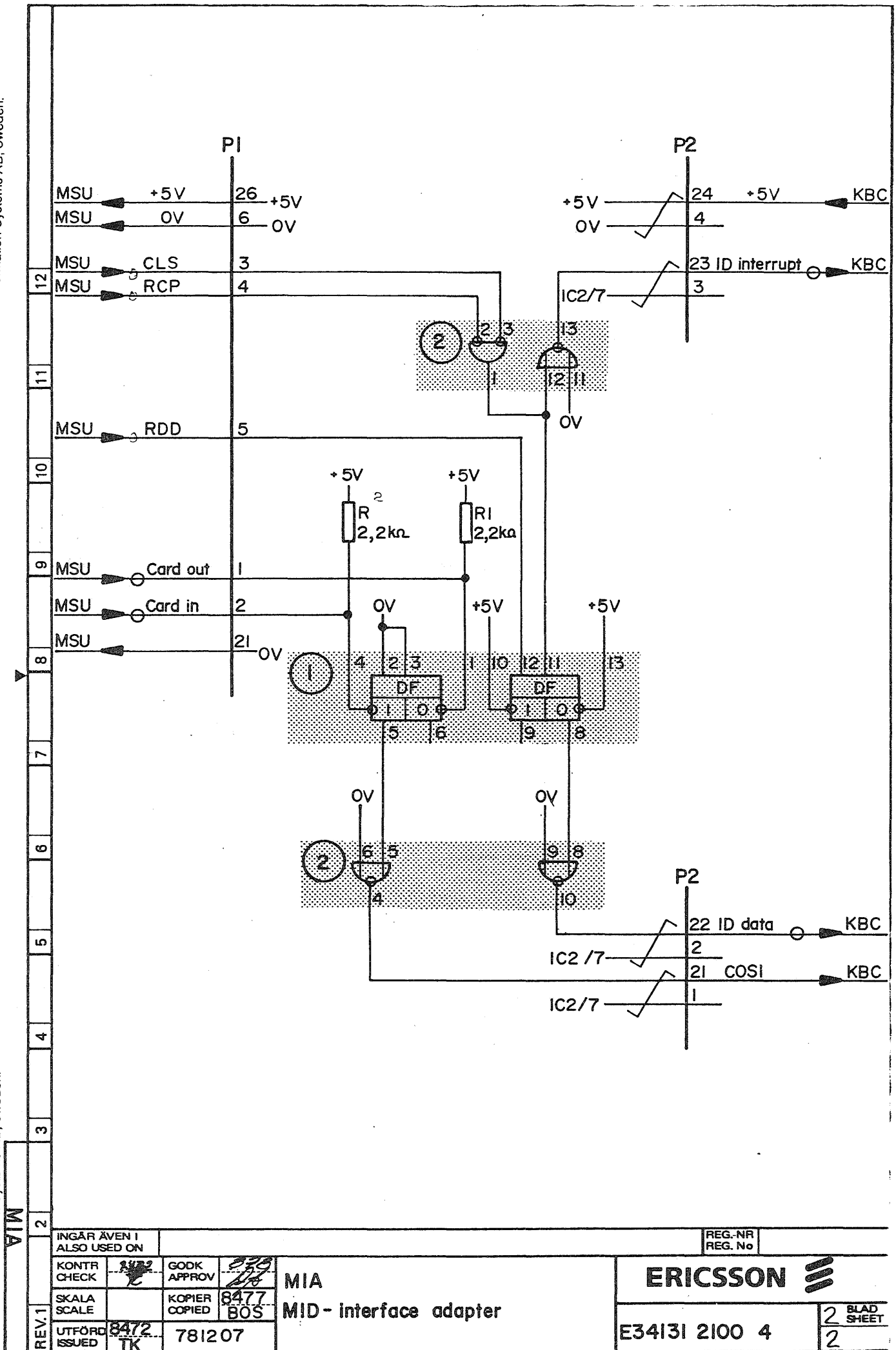
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INGÅR ÄVEN I
ALSO USED ON

REG-NR
REG. No

KONTR CHECK

GODK APPROV

MIA

ERICSSON

SKALA SCALE

KOPIER COPIED

8477

BOS

MID-interface adapter

E34131 2100 4

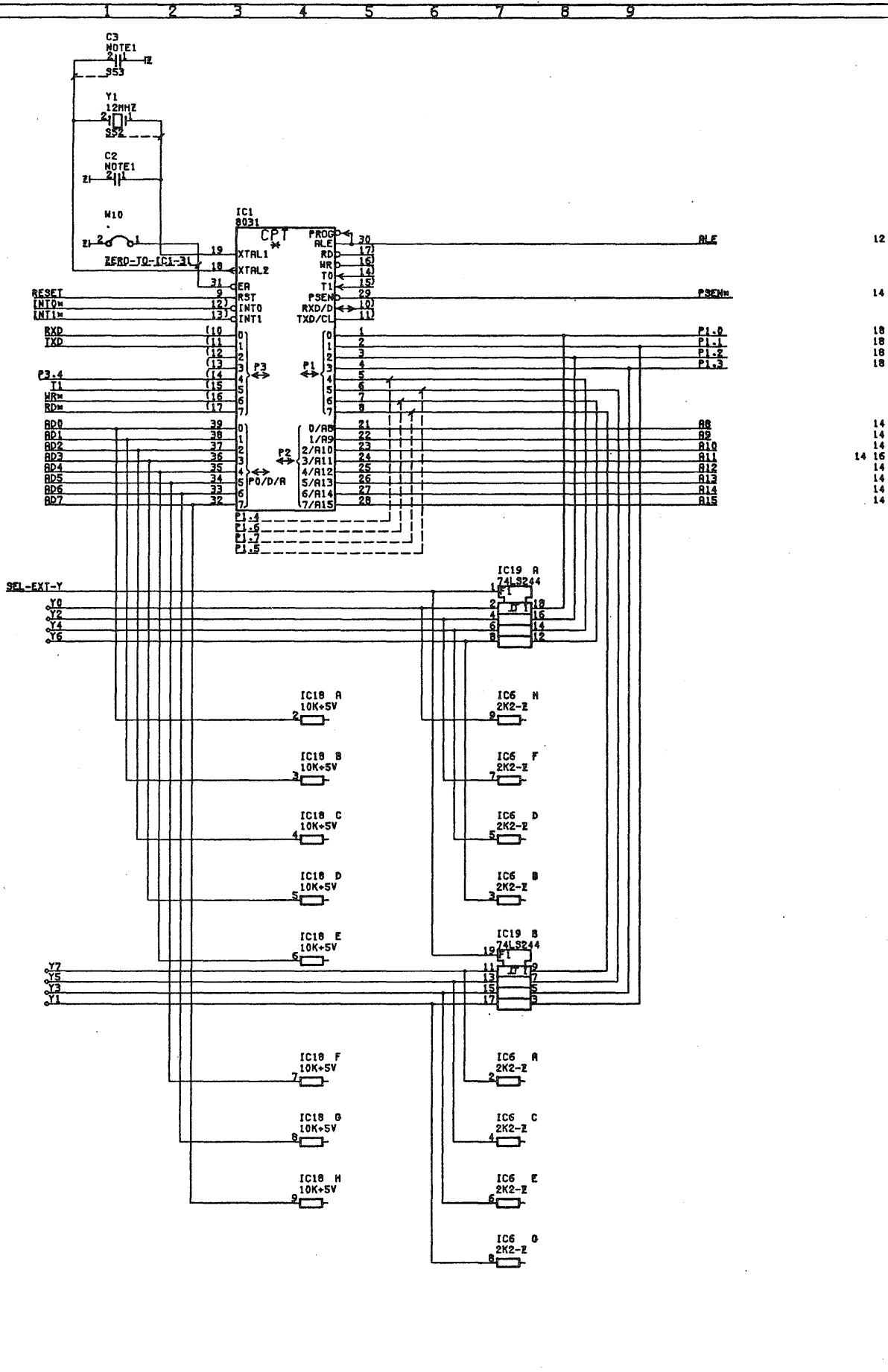
REV.1
UTFÖRD ISSUED

8472
TK 781207

2 BLAD SHEET

2

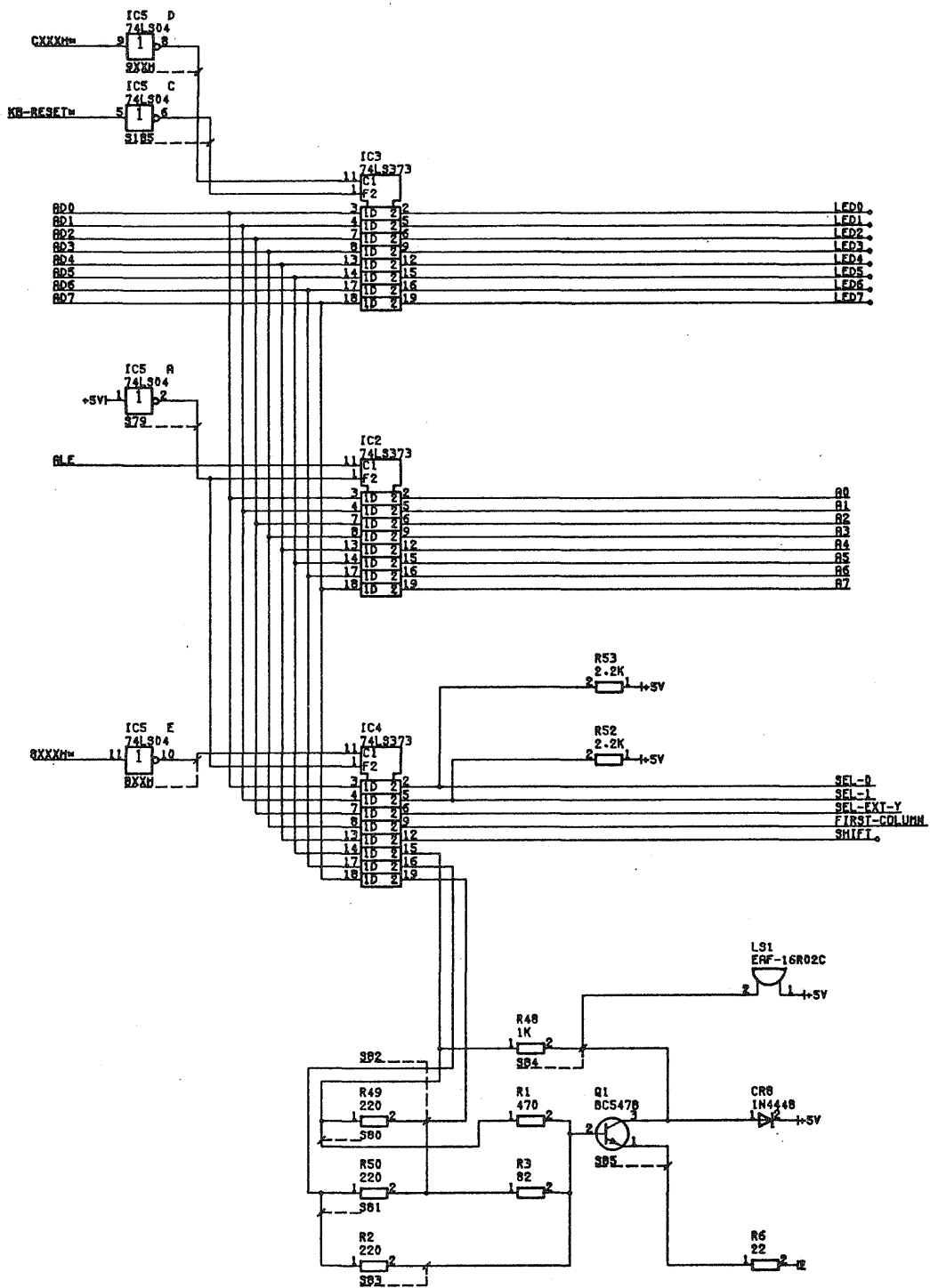
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7) NOTE 2-6 SEE SHT 2-7

DRA		APD		821218-CIR 01	6953602
1983-07-08				6953601	
CIRCUIT DIAGRAM				OBJ	ASSY
KB-ADAPTER				ERICSSON	
(3482-1.4143-001)				KB10	
A	L-2078	69 54 129		V1	SHEET 1(8)
REV	ECD				

1) C2,C3 NOT MOUNTED ON CC ASSY



04RD1
04RD2
04RD3
04RD4
04RD5
04RD7
04RD8
04RD9

14
14
14
14
14
14
14

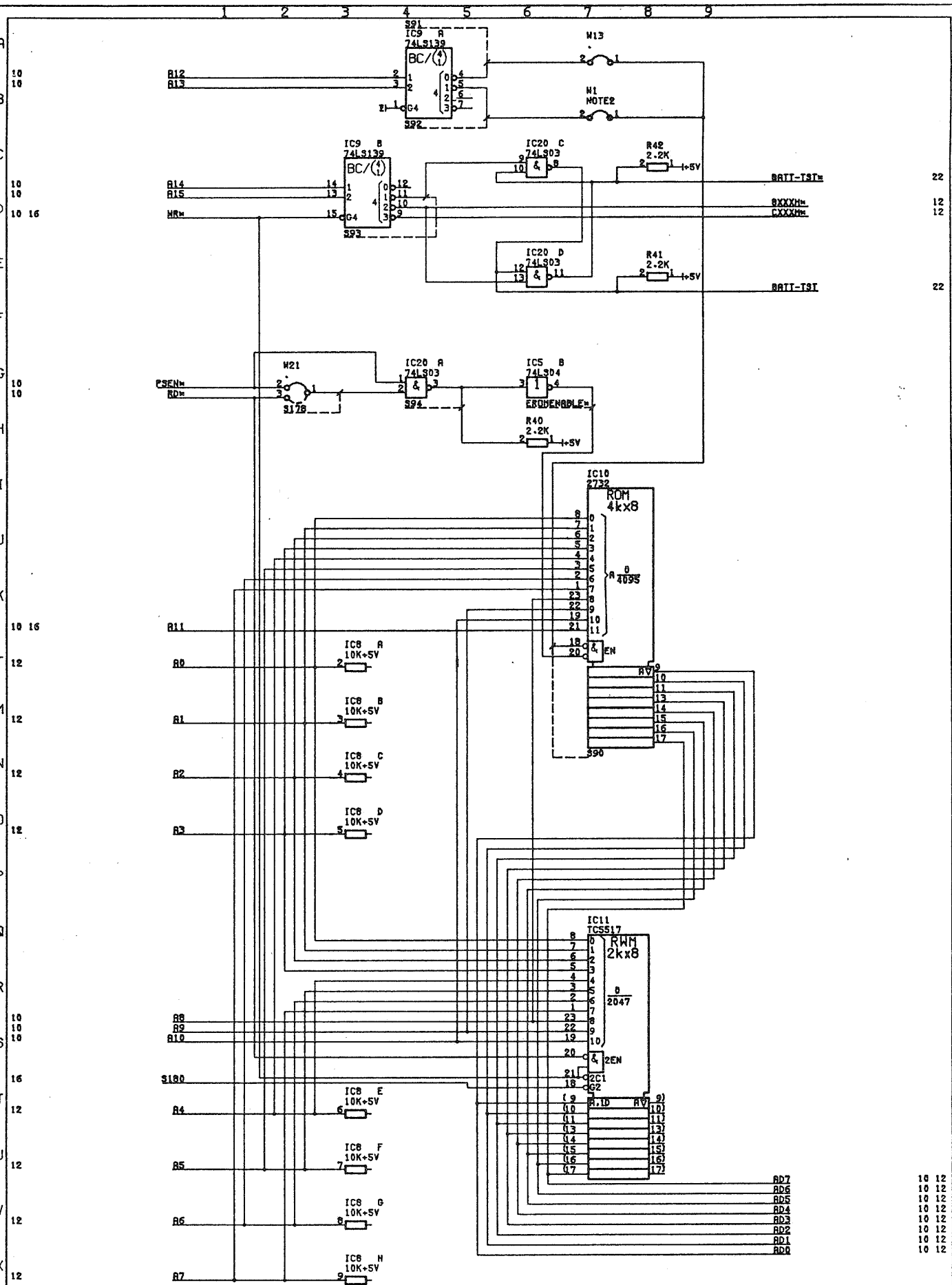
22
22
10 18
18
18 03RD9

69 54 129

	DRG	CHKD	APPD	821218-CIR 01	6953602
				1983-07-08	6953601
CIRCUIT DIAGRAM				OBJ	ASSY
KB-ADAPTER				ERICSSON	
(3482-1.4143-001) KB12					
A	L-2078	69 54 129 V1			SHEET
REV	ECD				2(8)

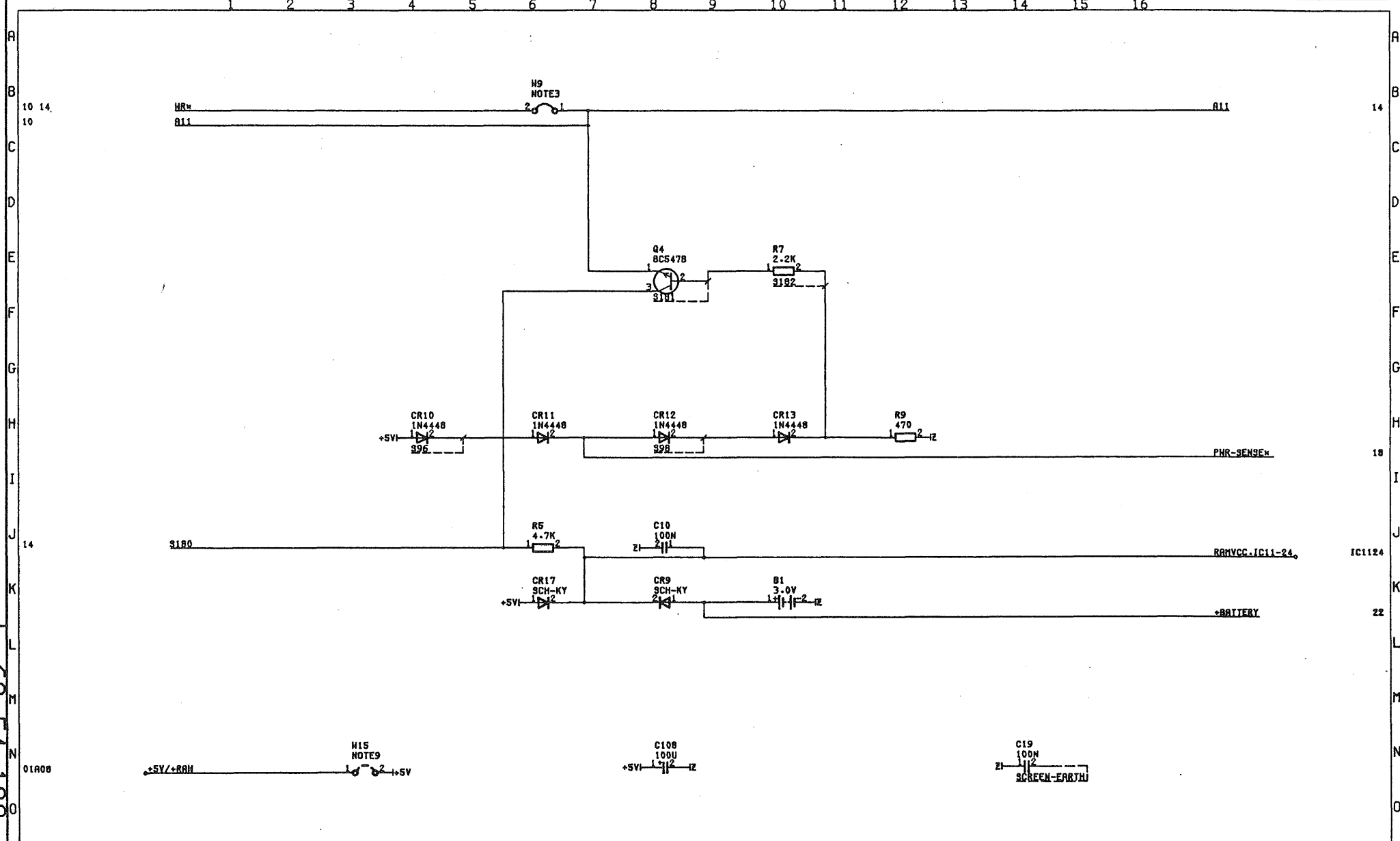
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69 54 129



2) M1 NOT MOUNTED ON CC ASSY

REV	ECO	A	L-2078	69 54 129	V1	SHEET 3(8)
CIRCUIT DIAGRAM		KB-ADAPTER		3482-1.4143-001		KB14
821218-CIR 01		1983-07-08		6953602		6953601
OBJ		ASSY		ERICSSON		



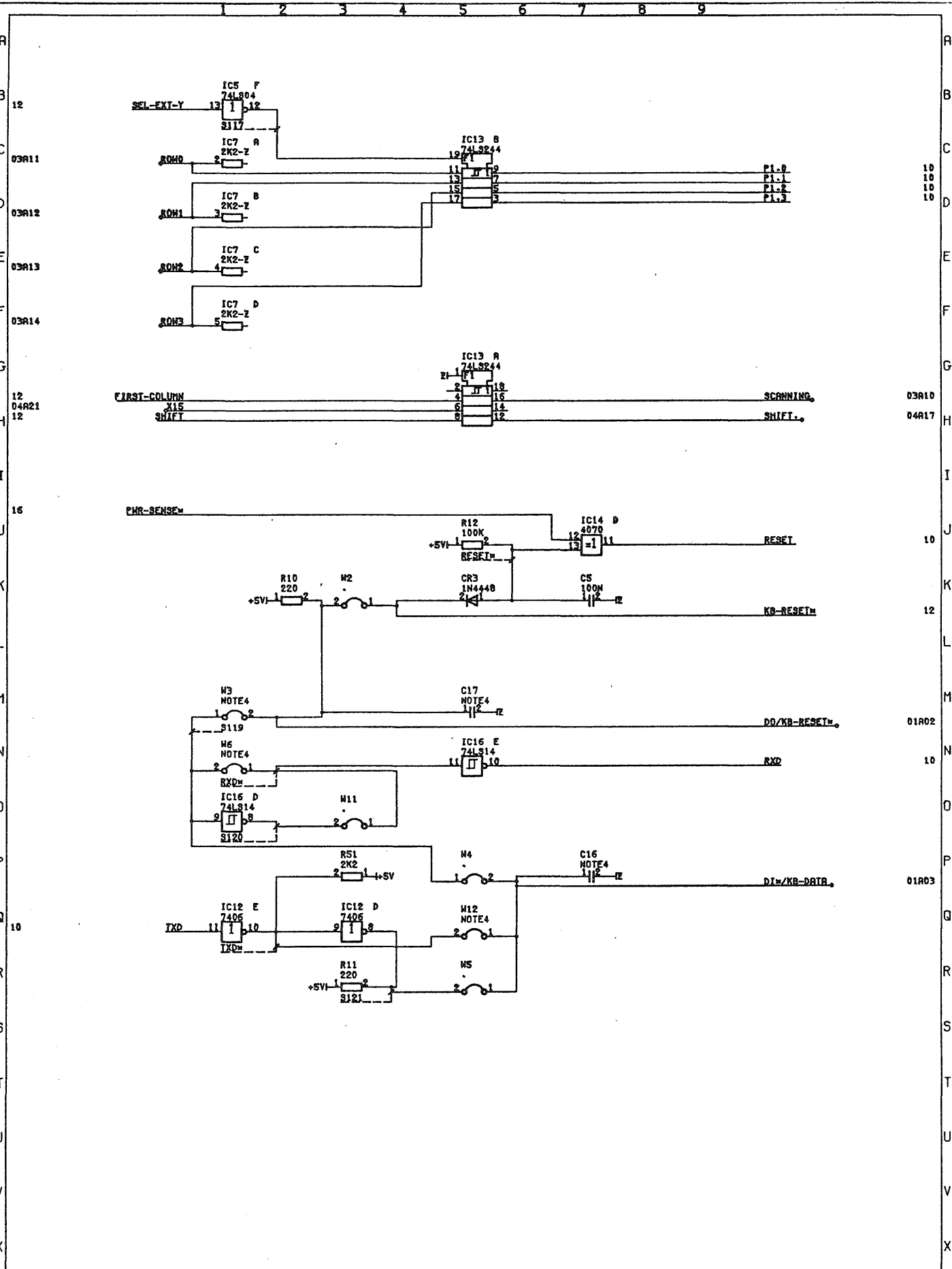
69 54 129

3) H9 NOT MOUNTED ON CC ASSY

DRR	CKD	APD	821218-CIR 01	6953602
			1983-08-24	6953601
CIRCUIT DIAGRAM			OBJ	ASSY
KB-ADAPTER			ERICSSON	
(3482-1.4143-001)			KB16	
A	L-2078	69 54 129	V1	SHEET 4(8)
REV	ECD			

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69 54 129

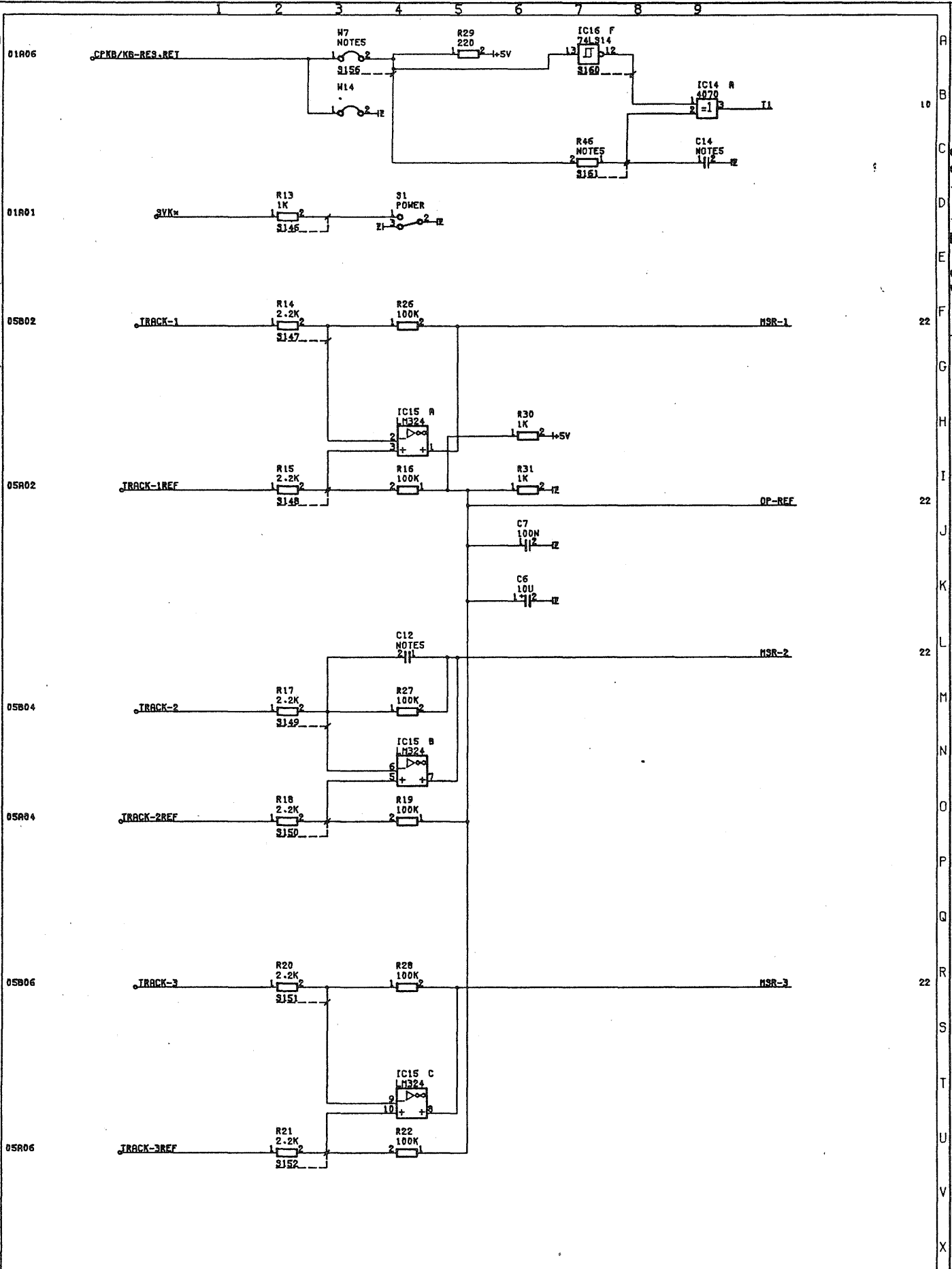


4) W3-W5, W12, C16, C17 NOT MOUNTED ON CC ASSY

REV	SMJ	821218-CIR 01	6953602
DRA	CKD	RPD 1983-07-08	6953601
CIRCUIT DIAGRAM			OBJ ASSY
KB-ADAPTER			ERICSSON
(3482-1.4143-001) KB18			
A	L-2078	69 54 129	V1
REV	EGD		SHEET 5(8)

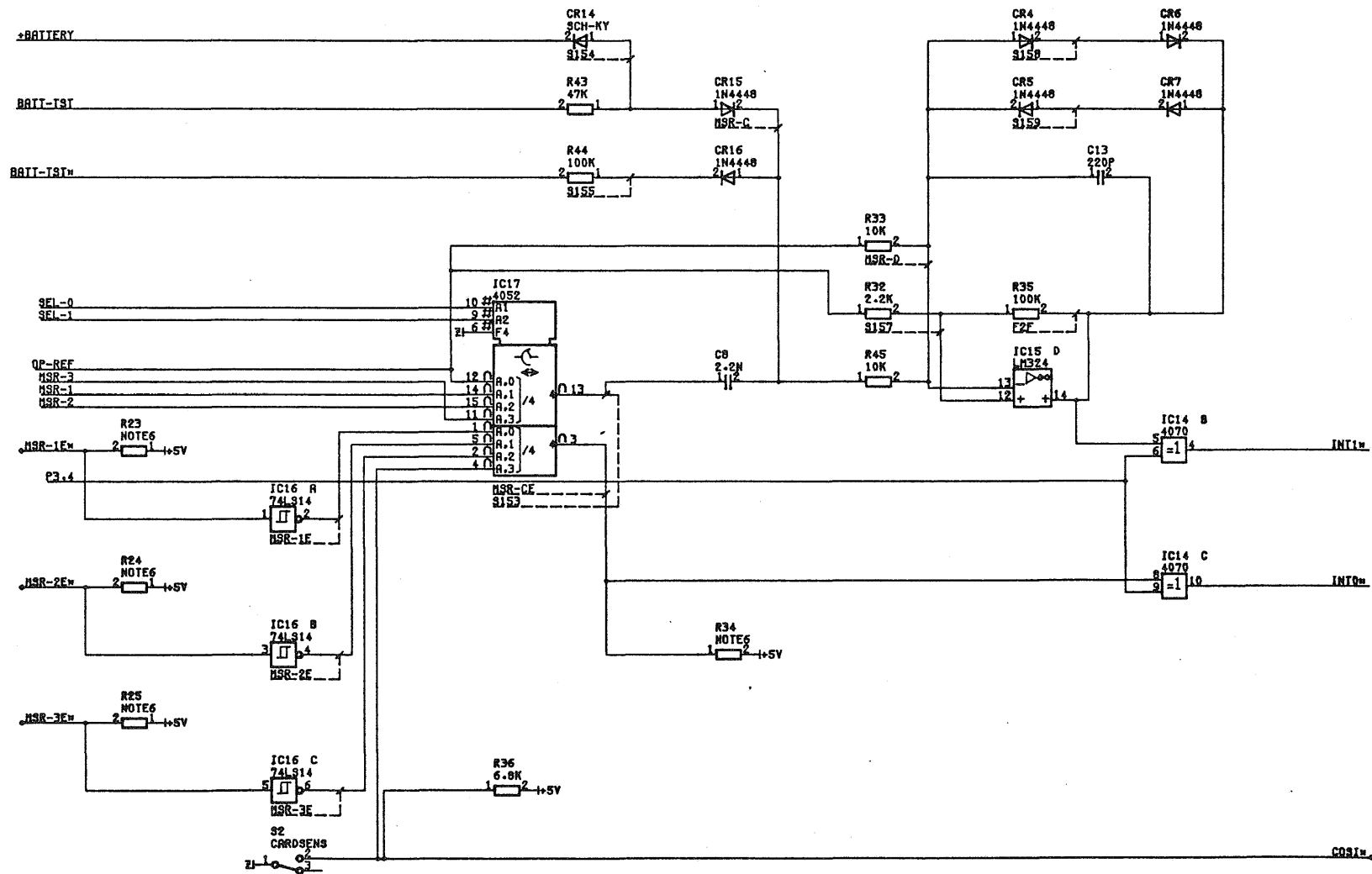
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69 54 129



S) W7.C12.C14.R46 NOT MOUNTED ON CC ASSY

ST		B21218-CIR 01	6953602
DRR	CKP	RPD 1984-05-17	6953601
CIRCUIT DIAGRAM			OBJ ASSY
KB-ADAPTER			ERICSSON
(3482-1.4143-001) KB20			
A	L-2078	69 54 129	V1
REV	ECO		SHEET 6(8)



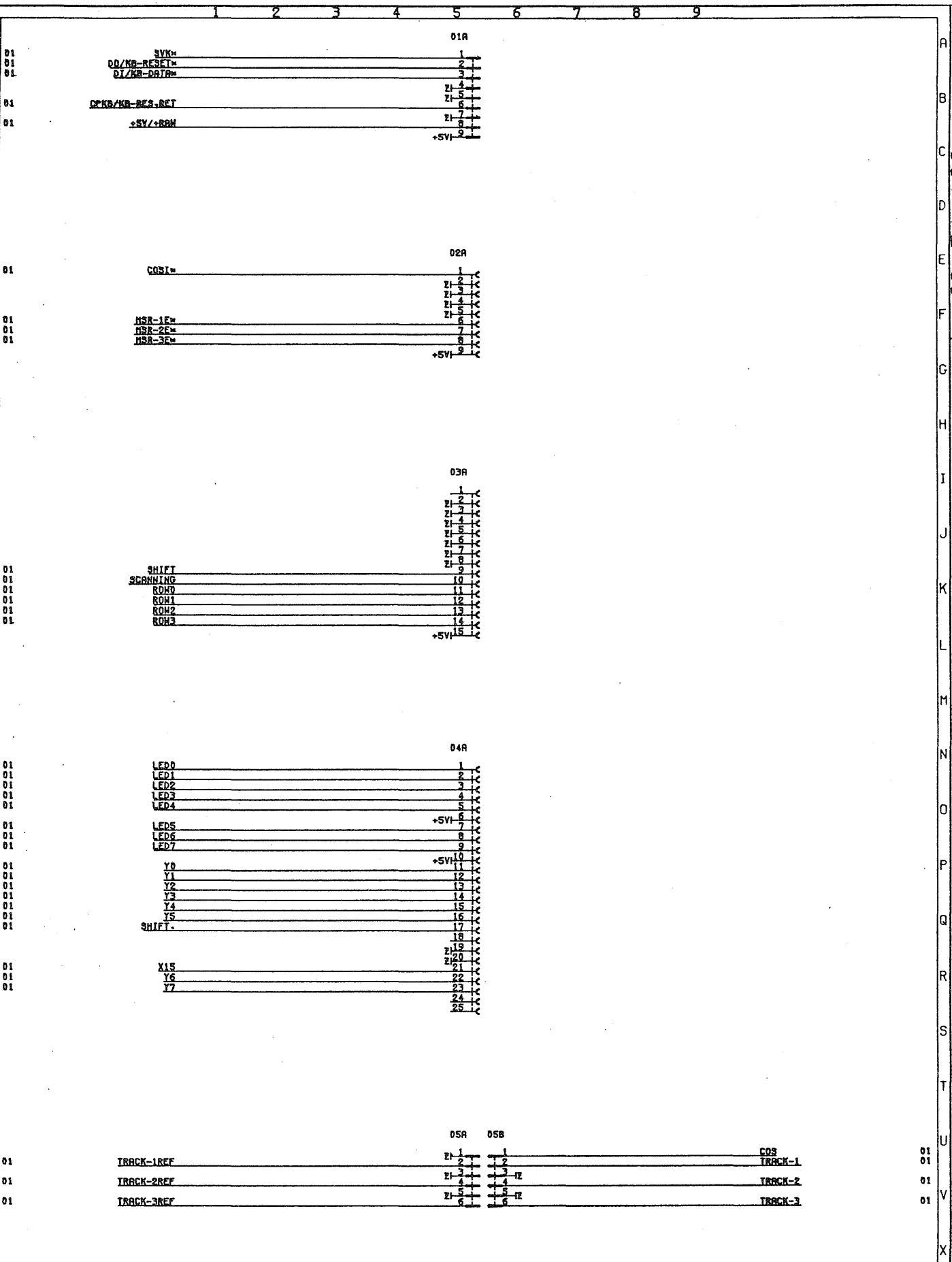
69 54 129

6) R23, R24, R25, R34, S2 NOT MOUNTED ON CC ASSY

DRG	SKM	821218-CIR 01	6953602
DRA	CND	RPD 1983-07-20	6953601
CIRCUIT DIAGRAM			DRW ASSY
KB-ADAPTER			ERICSSON
(3482-1.4143-001) KB22			
REV	ECO	69 54 129 V1	SHEET 7(8)

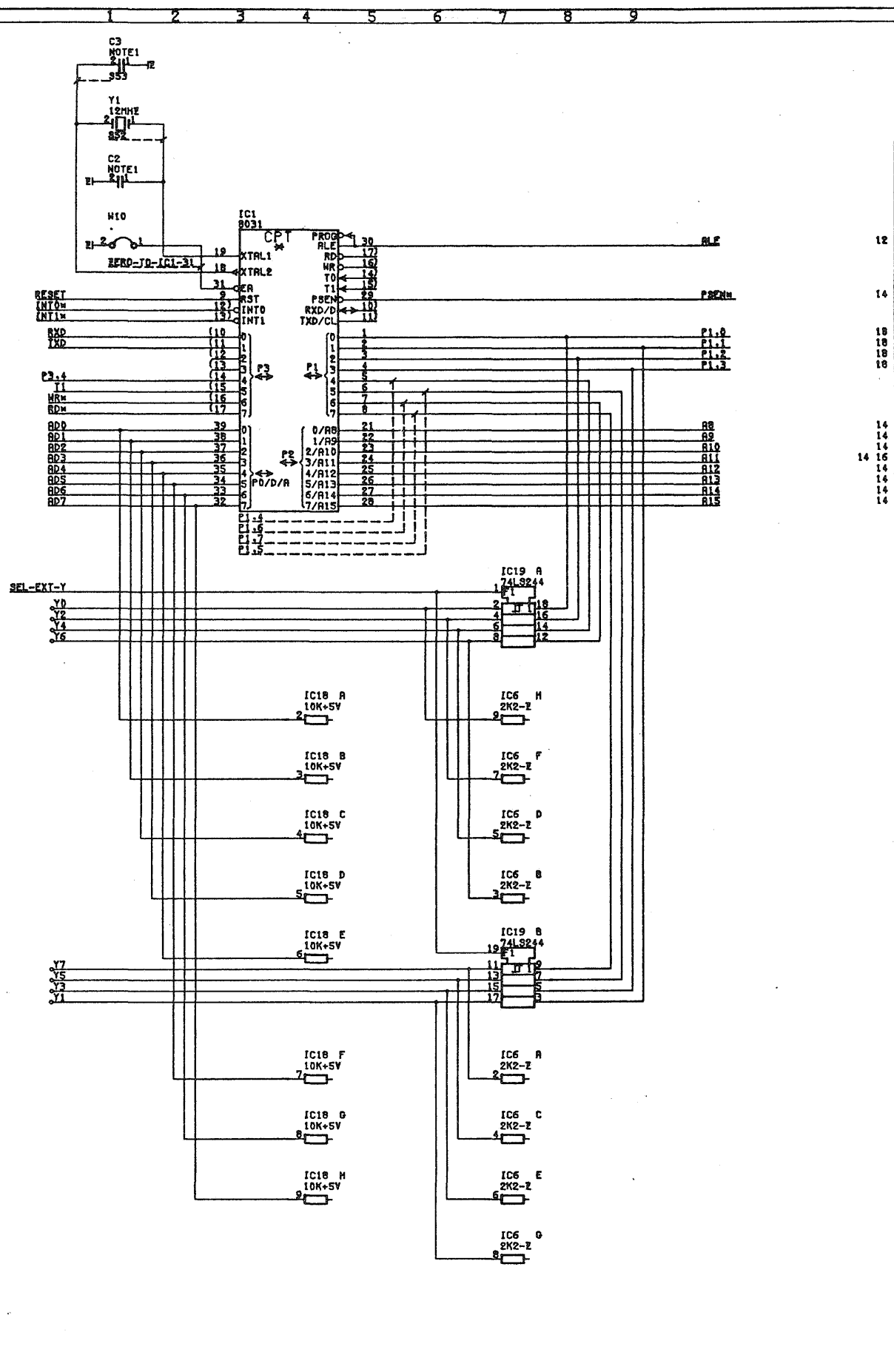
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69 54 129



DRR	CKD	RPD	821218-WTP 01	6953602
			1983-07-08	6953601
CIRCUIT DIAGRAM			OBJ	ASSY
KB-ADAPTER			ERICSSON	
(3482-1.4143-001)			KB501	
A	L-2078	69 54 129	V1	SHEET 8(8)
REV	ECO			

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7) NOTE 2-6 SEE SHT 2-7

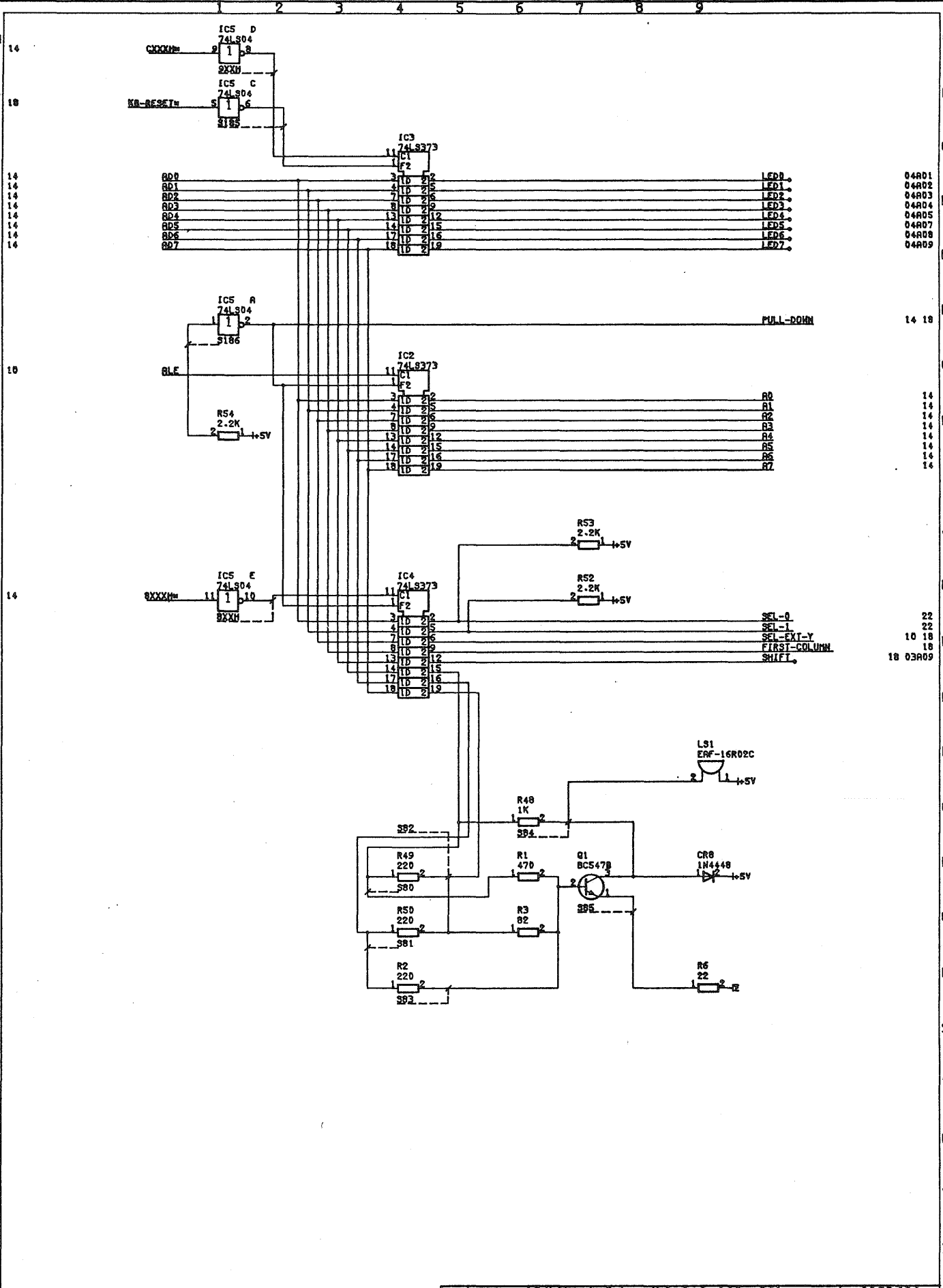
69 54 163

DRR	CKD	RPD	821218-CIR 02	6953602
			1983-07-08	6953601
CIRCUIT DIAGRAM			OBJ	ASSY
KB-ADAPTER			ERICSSON	
(3482-1.4143-001)			KB10	
REV	ECO	69 54 163 V2		SHEET 1(8)

1) C2.C3 NOT MOUNTED ON CC ASSY

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69 54 163



04R01
04R02
04R03
04R04
04R05
04R07
04R08
04R09

14 18

14 14 14 14 14 14 14

14 18

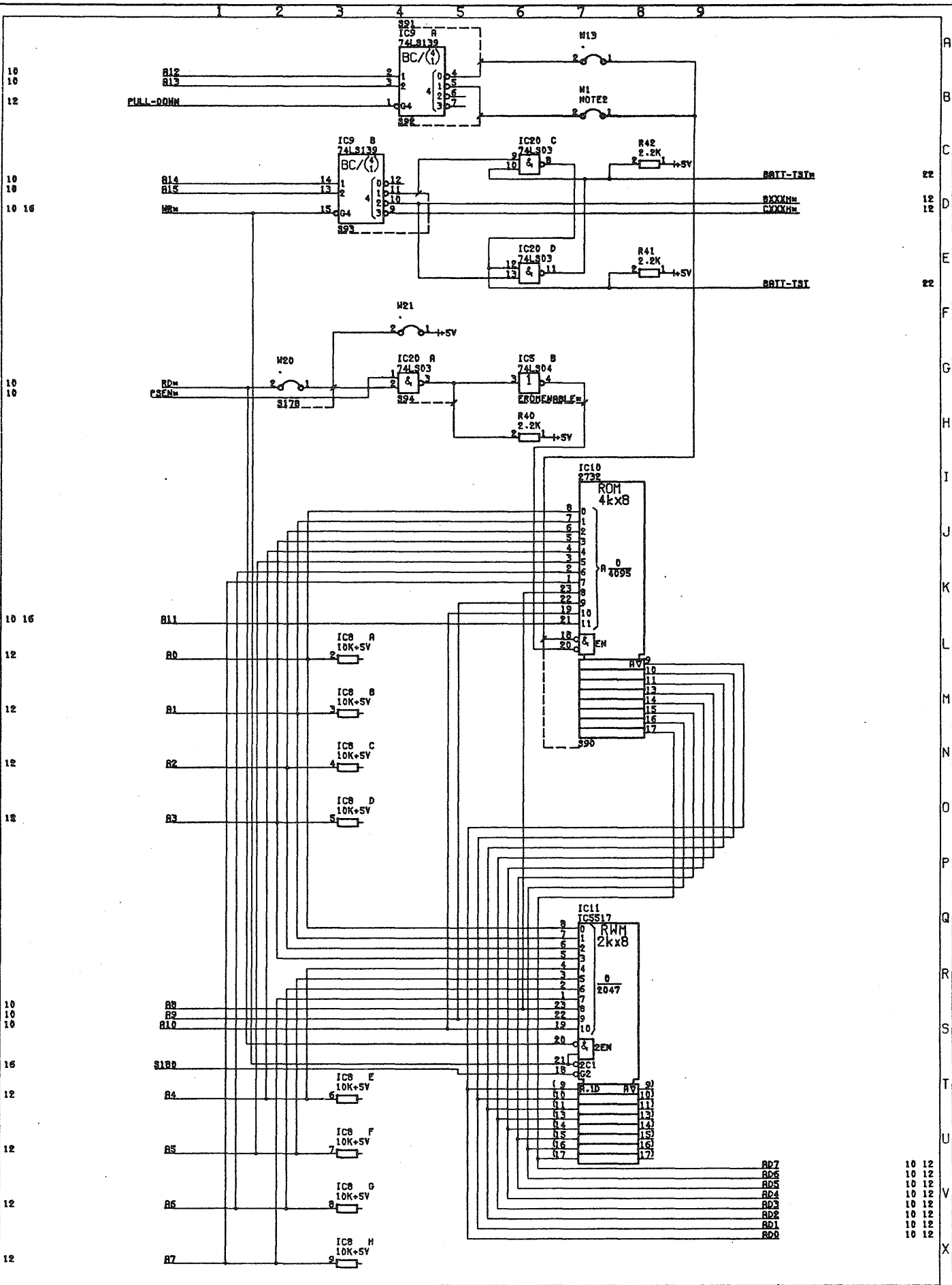
14 14 14 14 14 14 14

22 22 10 18 18 18 03R09

DRR	CHK	APD	821218-CIR 02	6953602
			1983-08-24	6953601
CIRCUIT DIAGRAM			OBJ	ASST
KB-ADAPTER			ERICSSON	
(3482-1.4143-001) KB12				
REV	ECO	69 54 163 V2		SHEET 2(8)

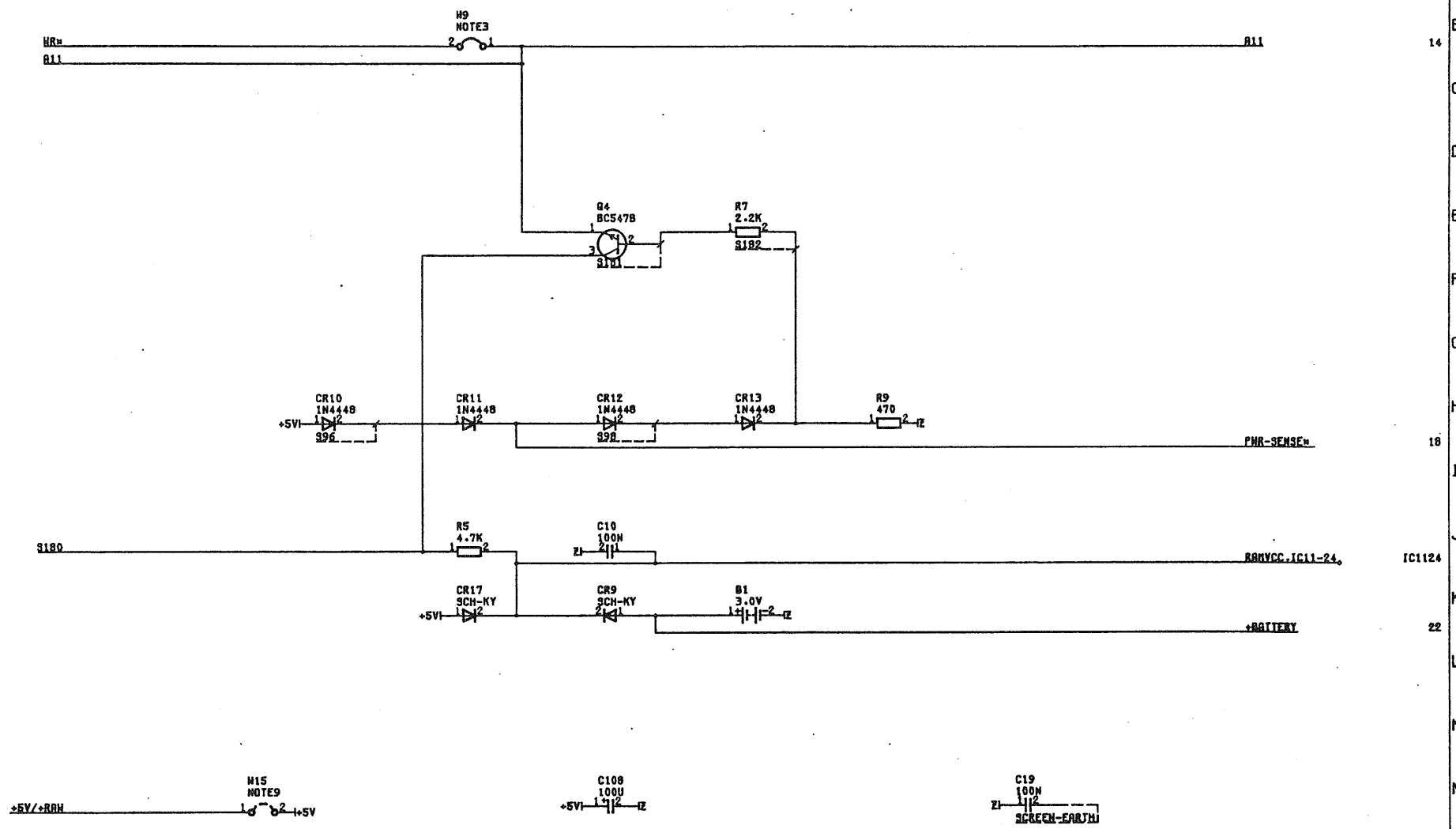
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69 54 163



REV	ECD	69 54 163	V2	SHEET 3(8)
CIRCUIT DIAGRAM		KB-ADAPTER		
(3482-1.4143-001)		KB14		
821218-CIR 02		6953602		
1983-07-20		6953601		
OBJ		ASSY		
ERICSSON				

2) W1 NOT MOUNTED ON CC ASSY



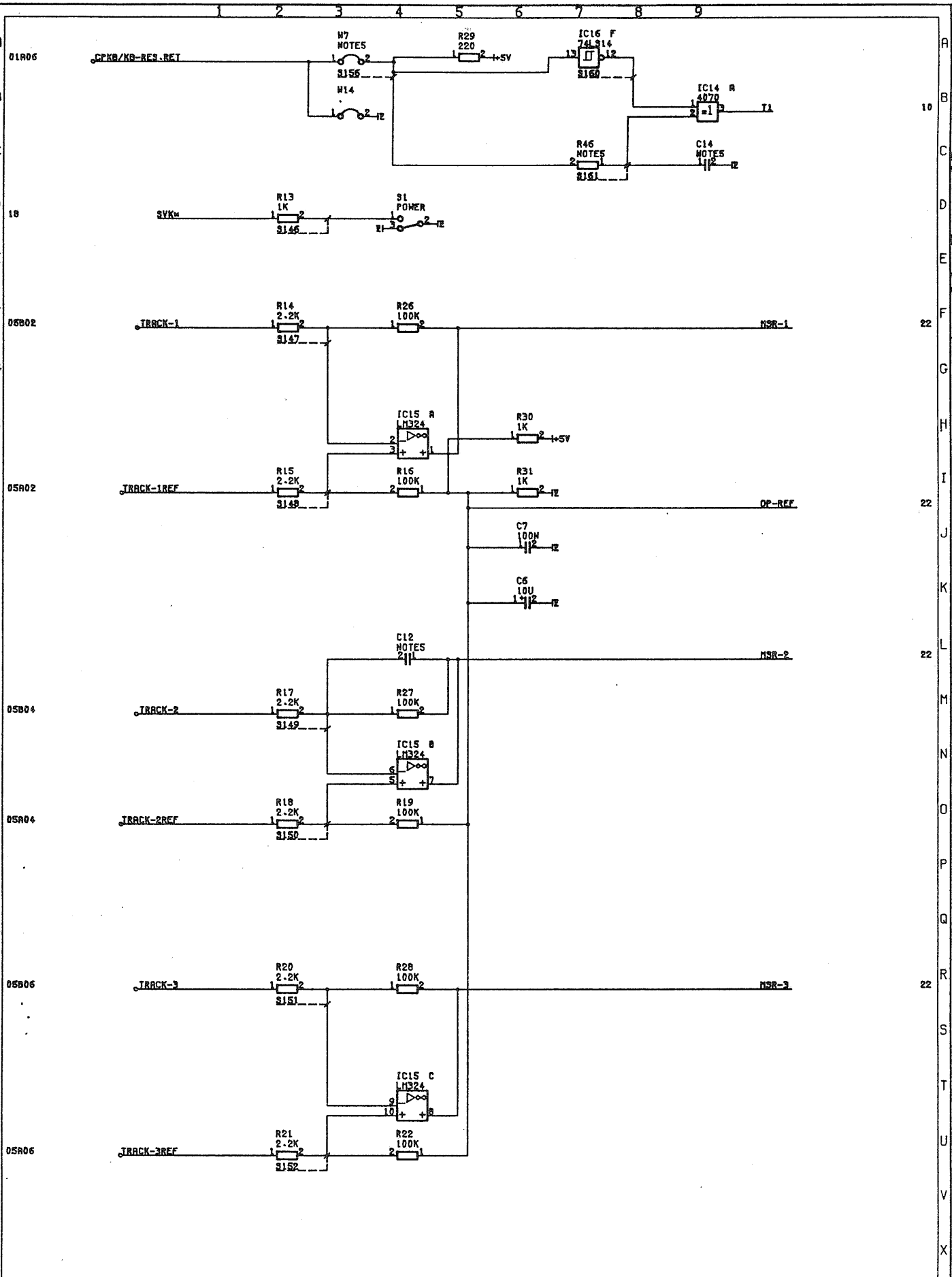
69 54 163

3) H9 NOT MOUNTED ON CC ASSY

REV	ECD	821218-CIR 02	6953602
		APD 1983-08-24	6953601
CIRCUIT DIAGRAM		DRY	ASSY
(3482-1.4143-001) KB16		ERICSSON	
69 54 163 V2			SHEET 4(8)

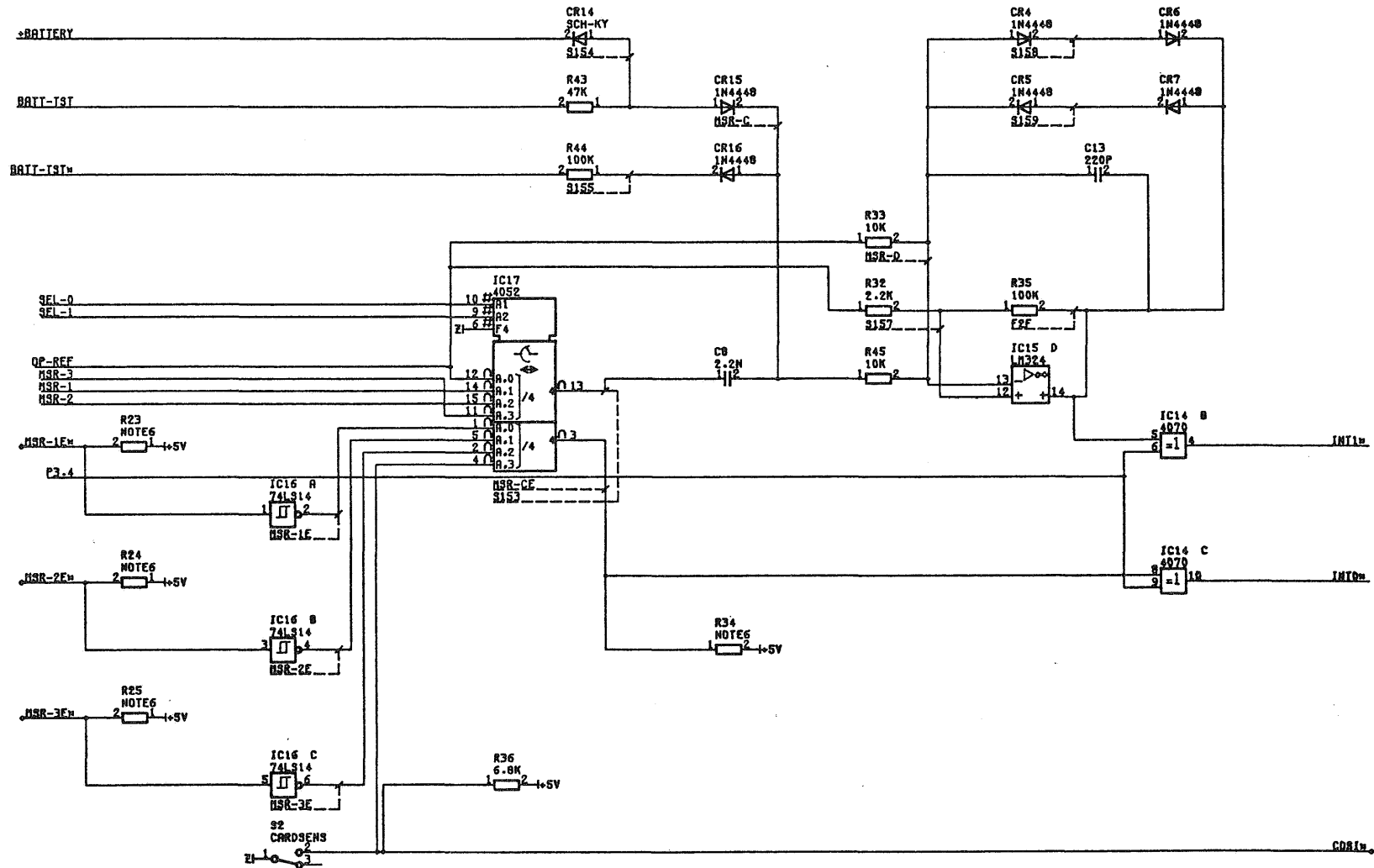
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69 54 163



5) W7.C12.C14.R46 NOT MOUNTED ON CC ASSY

IT		821218-CIR 02	6953602
DRA	CKP	APD 1984-05-17	6953601
CIRCUIT DIAGRAM			OBJ ASSY
KB-ADAPTER			ERICSSON
(3482-1.4143-001) KB20			
REV	ECD	69 54 163 V2	SHEET 6(8)

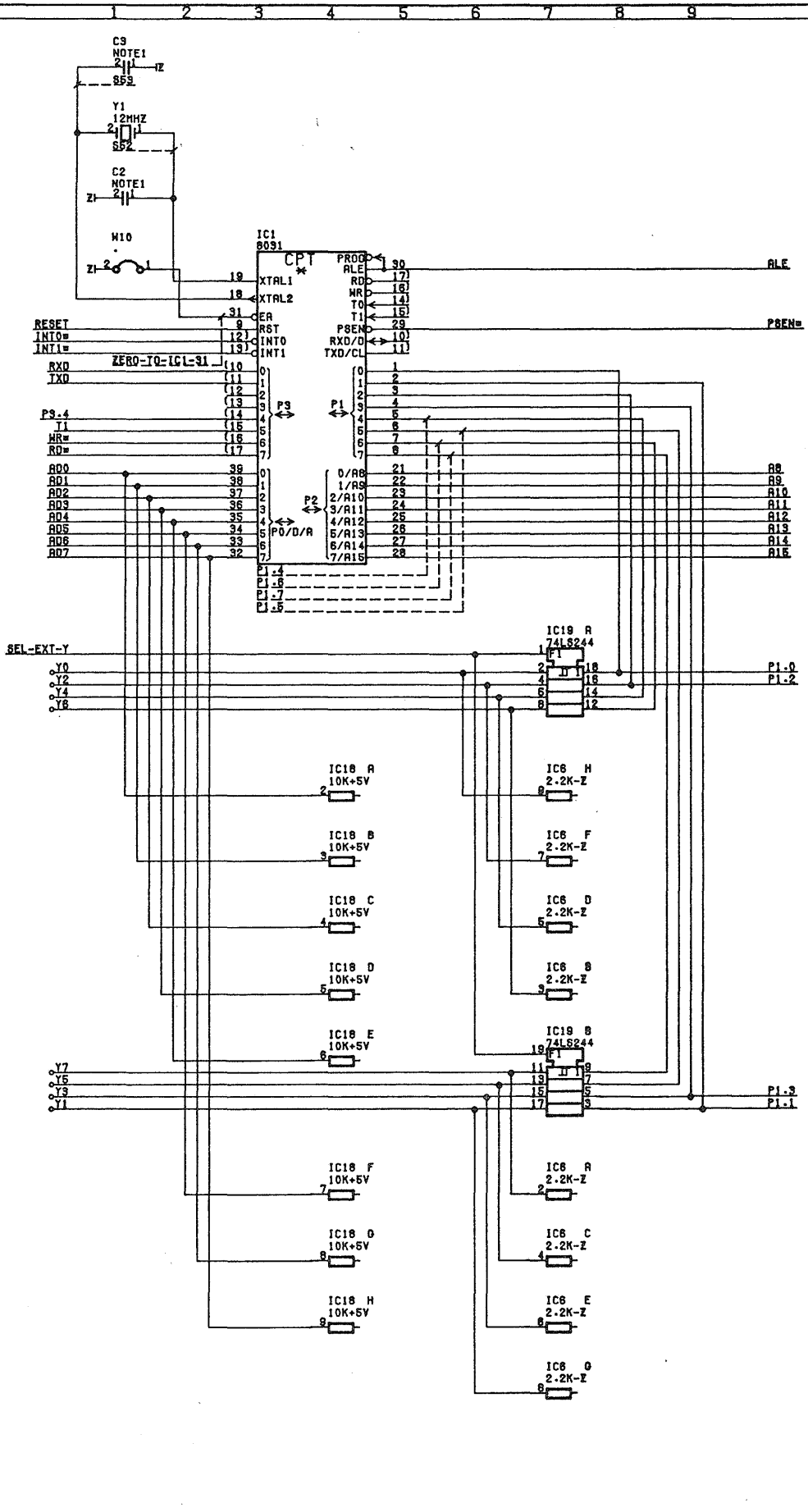


69 54 163

6) R23,R24,R25,R34,S2 NOT MOUNTED ON CC ASSY

REV	ECD	69 54 163	V2	SHEET 7(8)
CIRCUIT DIAGRAM		KB-ADAPTER		
(3482-1.4143-001)		KB22		
821218-CIR 02		6953602		
1983-08-24		6953601		
ERICSSON				

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 69 54 174



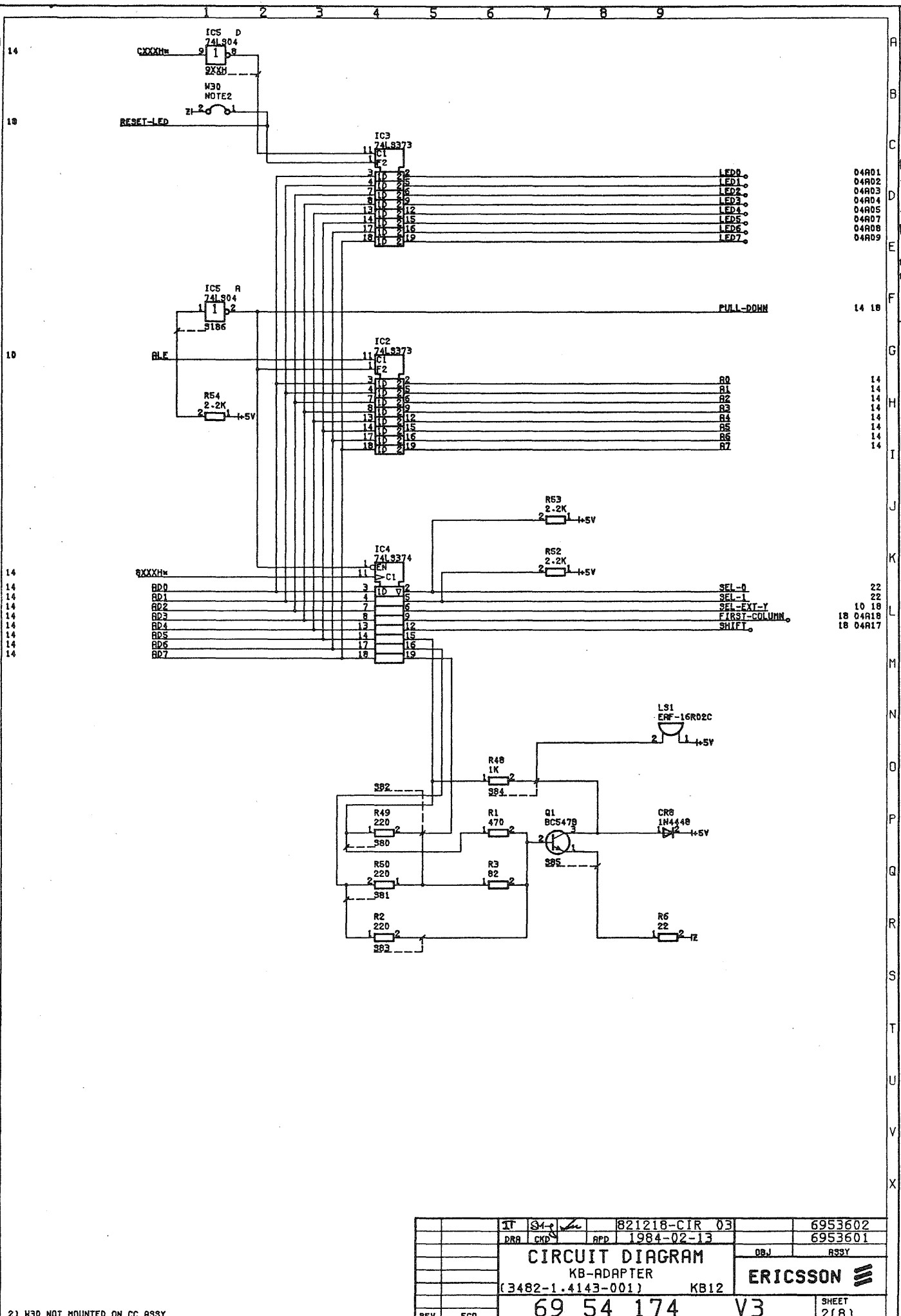
NOTE 2-9 SEE SHEET 2-8

1) C2-C9 27PF. 22PF OR 33PF ARE ALLOWED

AND	CKD	APD	821218-CIR 03	6953602
			1984-12-13	6953601
CIRCUIT DIAGRAM				OBJ
KB-ADAPTER				ASSY
C	L-2608	(3482-1.4143-001)		ERICSSON
B	SEE SHT. 5	KB10		
A	L-2487			
REV	ECD	69 54 174 V3		SHEET 1(8)

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69 54 174



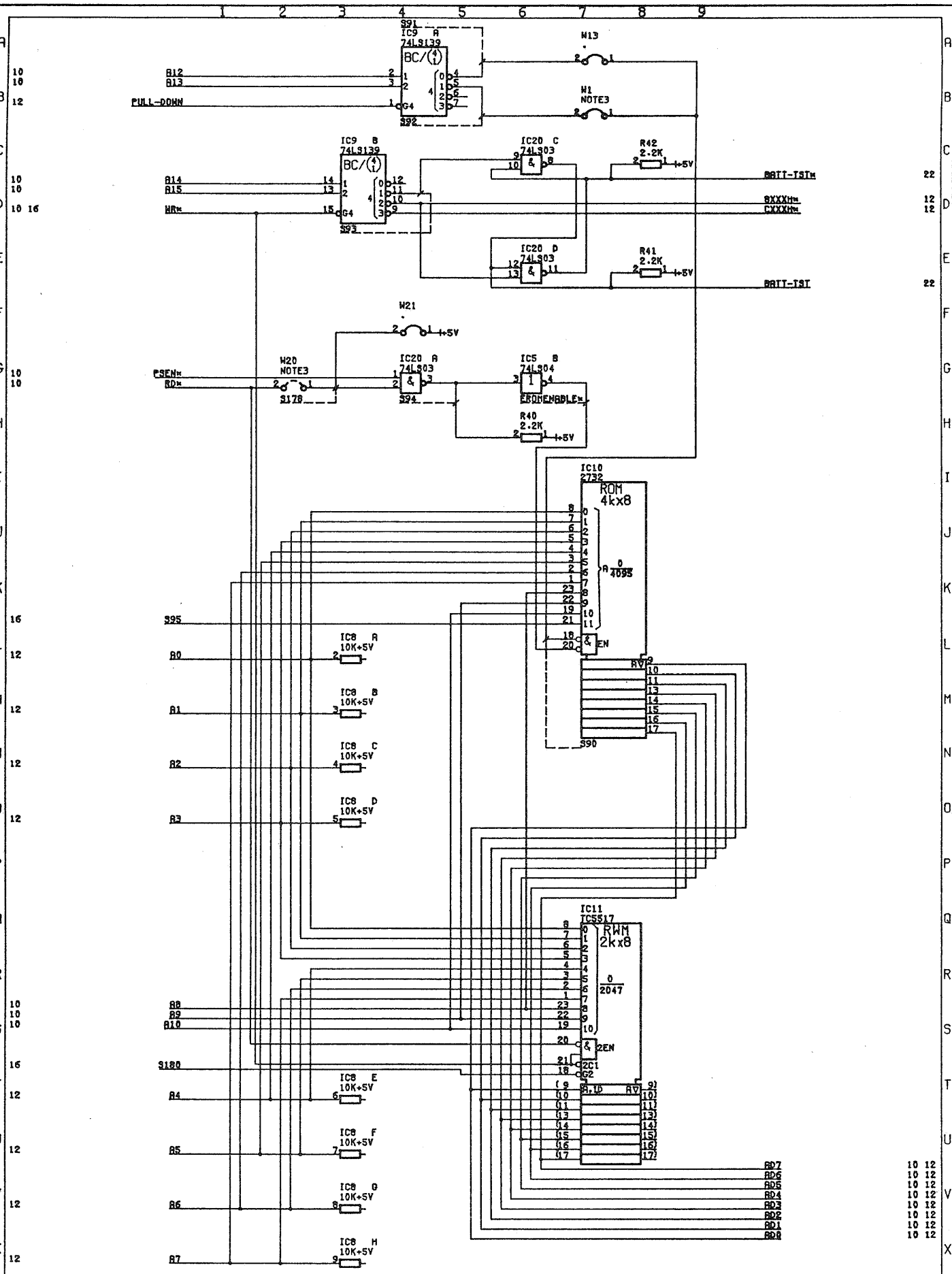
- 04R01
- 04R02
- 04R03
- 04R04
- 04R05
- 04R07
- 04R08
- 04R09
- 14 18
- 14
- 14
- 14
- 14
- 14
- 14
- 14
- 14
- 22
- 22
- 10 18
- 18 04R18
- 18 04R17

IT	821218-CIR 03	6953602
DRA	APD 1984-02-13	6953601
CIRCUIT DIAGRAM		OBJ ASSY
KB-ADAPTER		ERICSSON
(3482-1.4143-001) KB12		SHEET 2(8)
REV	69 54 174 V3	

2) H30 NOT MOUNTED ON CC ASSY

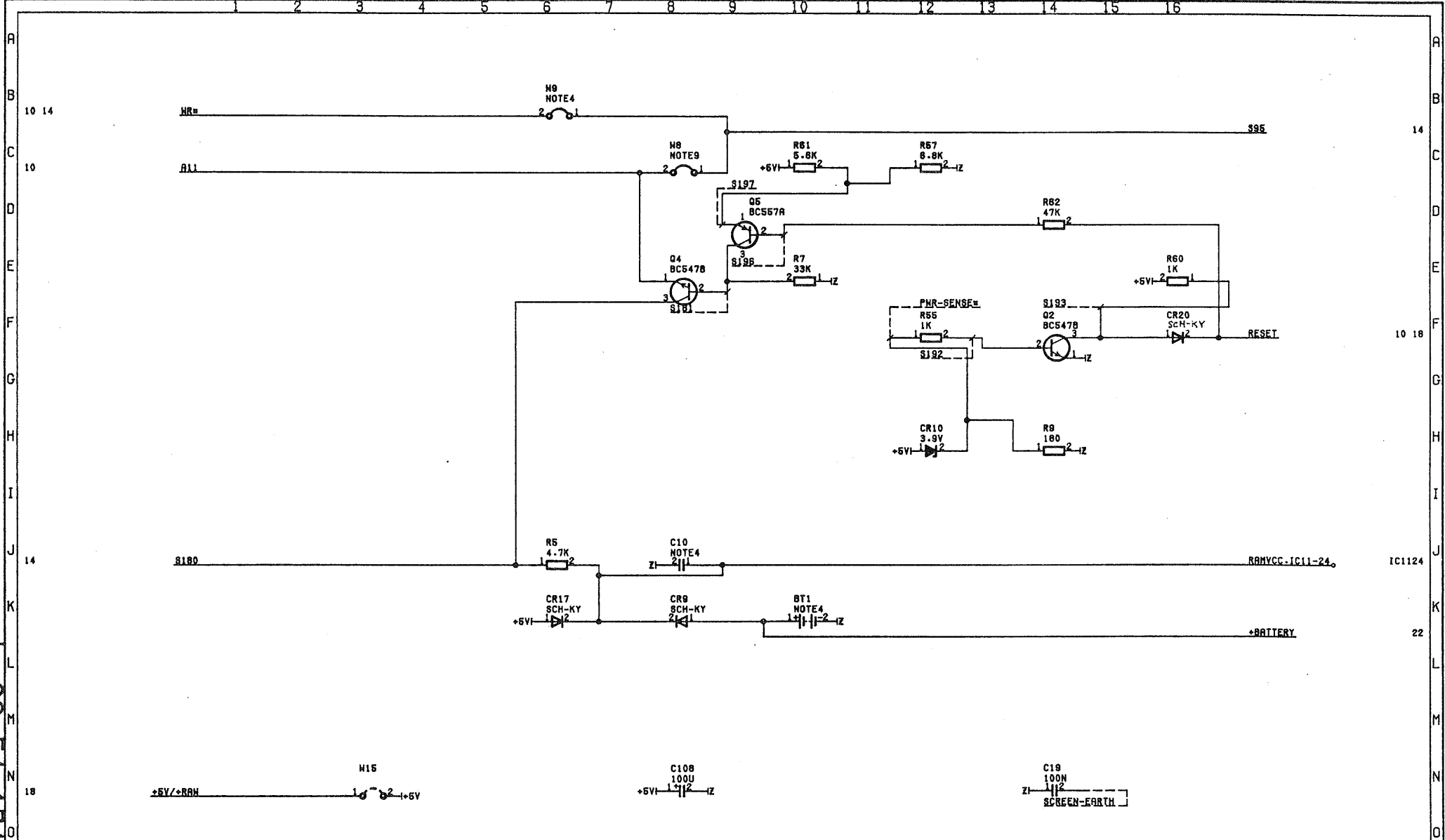
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69 54 174



3) W1-W20 NOT MOUNTED ON CC ASSY

IT	S4	821218-CIR 03	6953602
DRA	CKD	APP 1984-02-13	6953601
CIRCUIT DIAGRAM			ERICSSON
KB-ADAPTER (3482-1.4143-001) KB14			
REV	ECO	69 54 174 V3	SHEET 3(8)



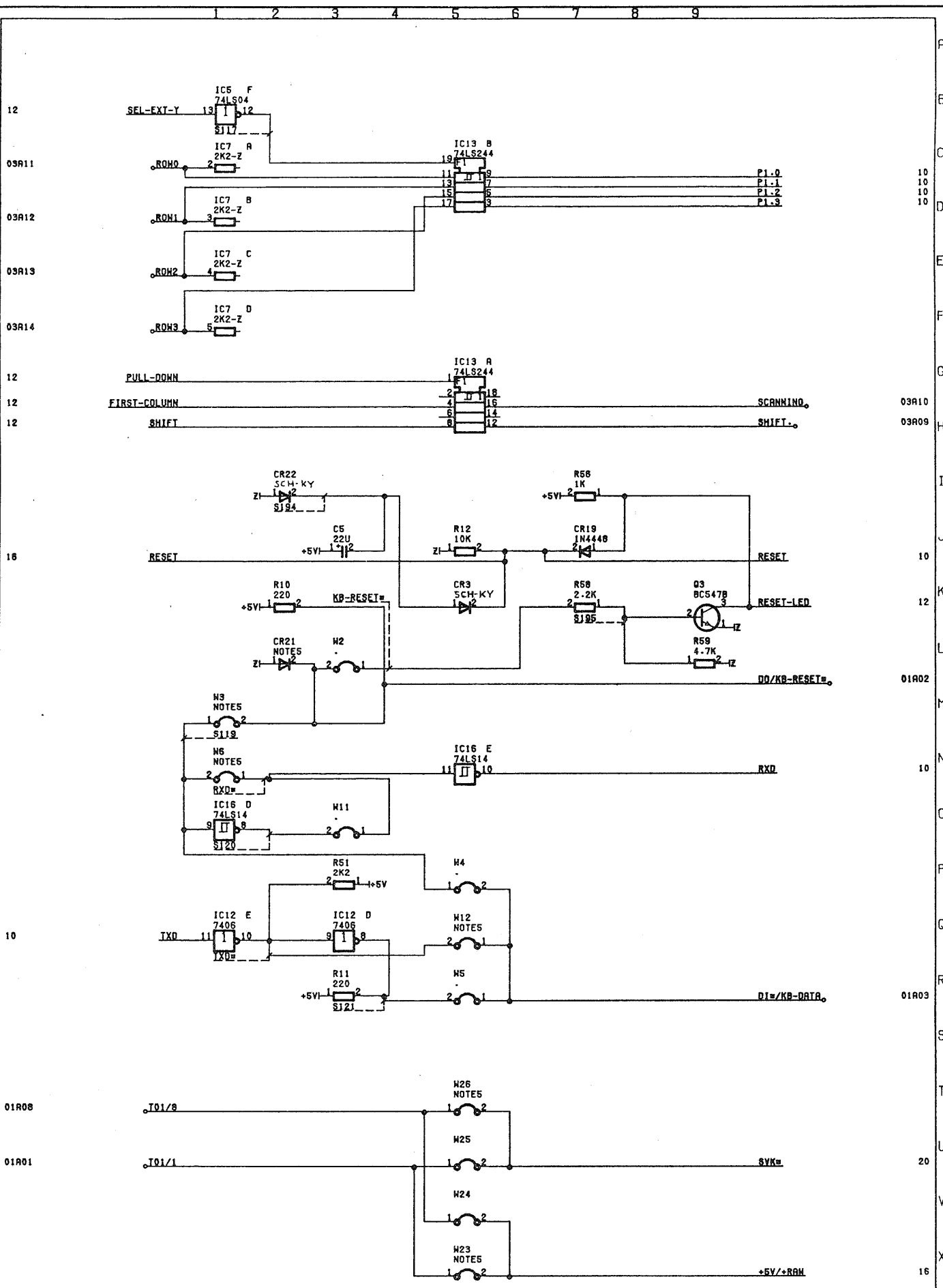
69 54 174

ANO	APD	821218-CIR 03	6953602
DRA	CKD	APD 1984-12-13	6953601
CIRCUIT DIAGRAM			OBJ
KB-ADAPTER			ASSY
(3482-1.4143-001) KB16			ERICSSON ≡
C	L-2808	69 54 174	SHEET 4(8)
REV	ECO	V3	

9) H8 NOT EXIST ON CC ASSY 6910297 134
 4) BT1 3.0V. H9.C10 NOT MOUNTED ON CC ASSY

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69 54 174

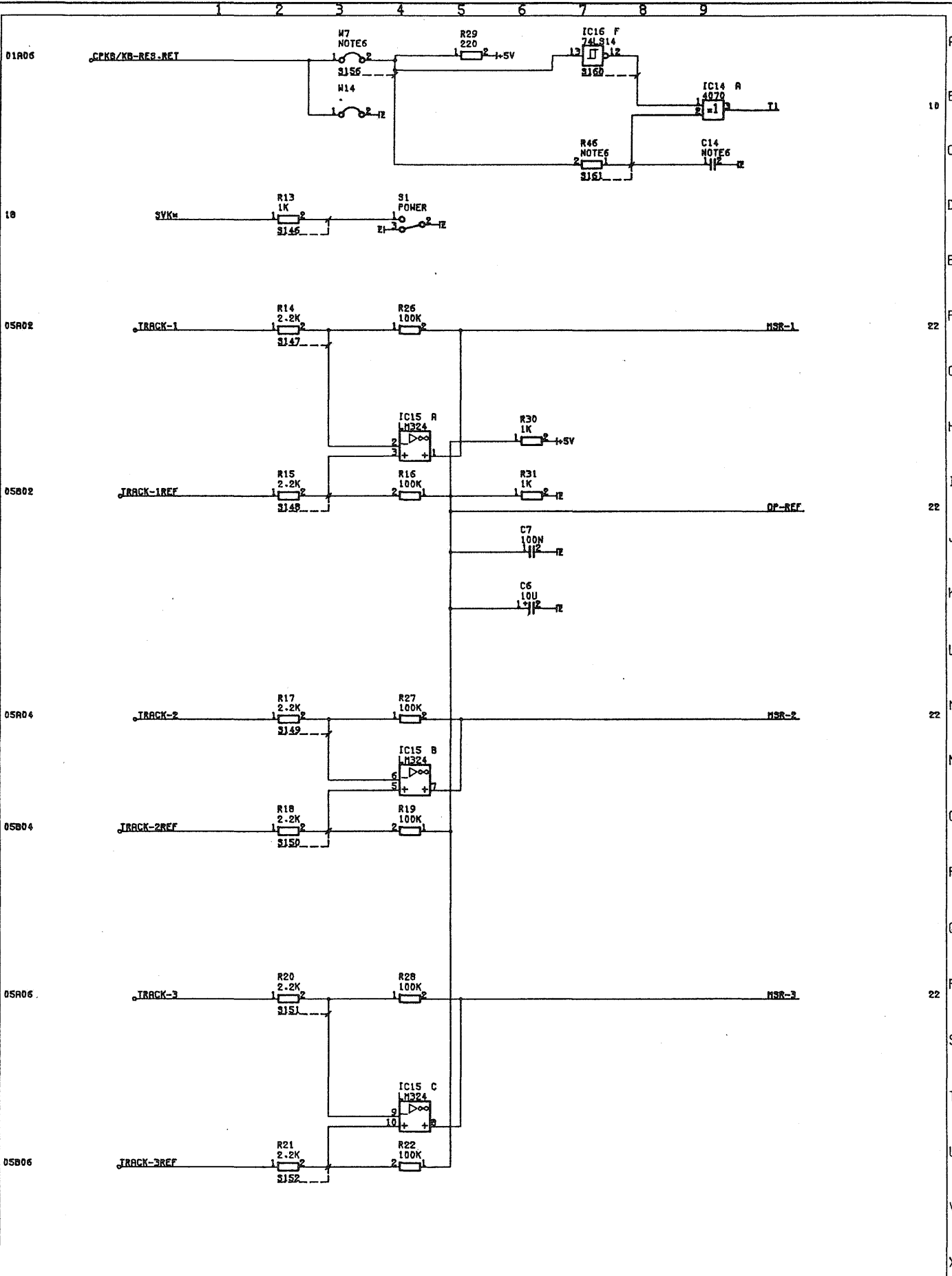


5) CR21, W3, W6, W12, W23, W26 NOT MOUNTED ON CC ASSY

+	NO	5/11/84	621218-CIR 03	6953602
DRR	CKD	APD	1984-12-13	6953601
CIRCUIT DIAGRAM				ERICSSON
KB-ADAPTER				
C	L-2608	(3482-1.4143-001) KB18		SHEET 5(8)
B	L-2577			
A	L-2497	69 54 174 V3		
REV	ECD			

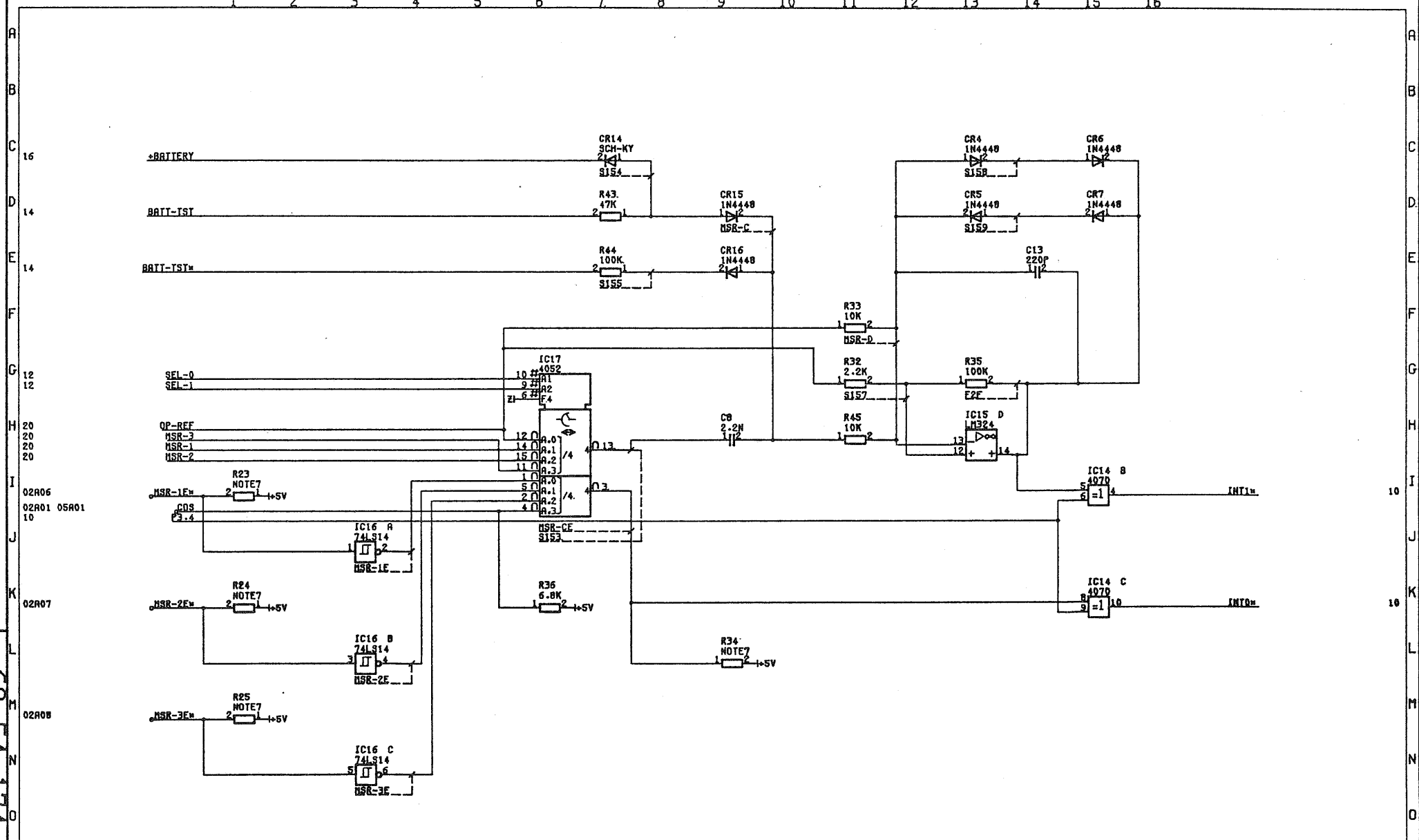
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69 54 174



61 H7.C14.R46 NOT MOUNTED ON CC ASSY

IT	821218-CIR 03	6953602
DRR	1984-02-15	6953601
CIRCUIT DIAGRAM		OBJ ASSY
KB-ADAPTER		ERICSSON
(3482-1.4143-001) KB20		
REV	69 54 174 V3	SHEET 6(8)



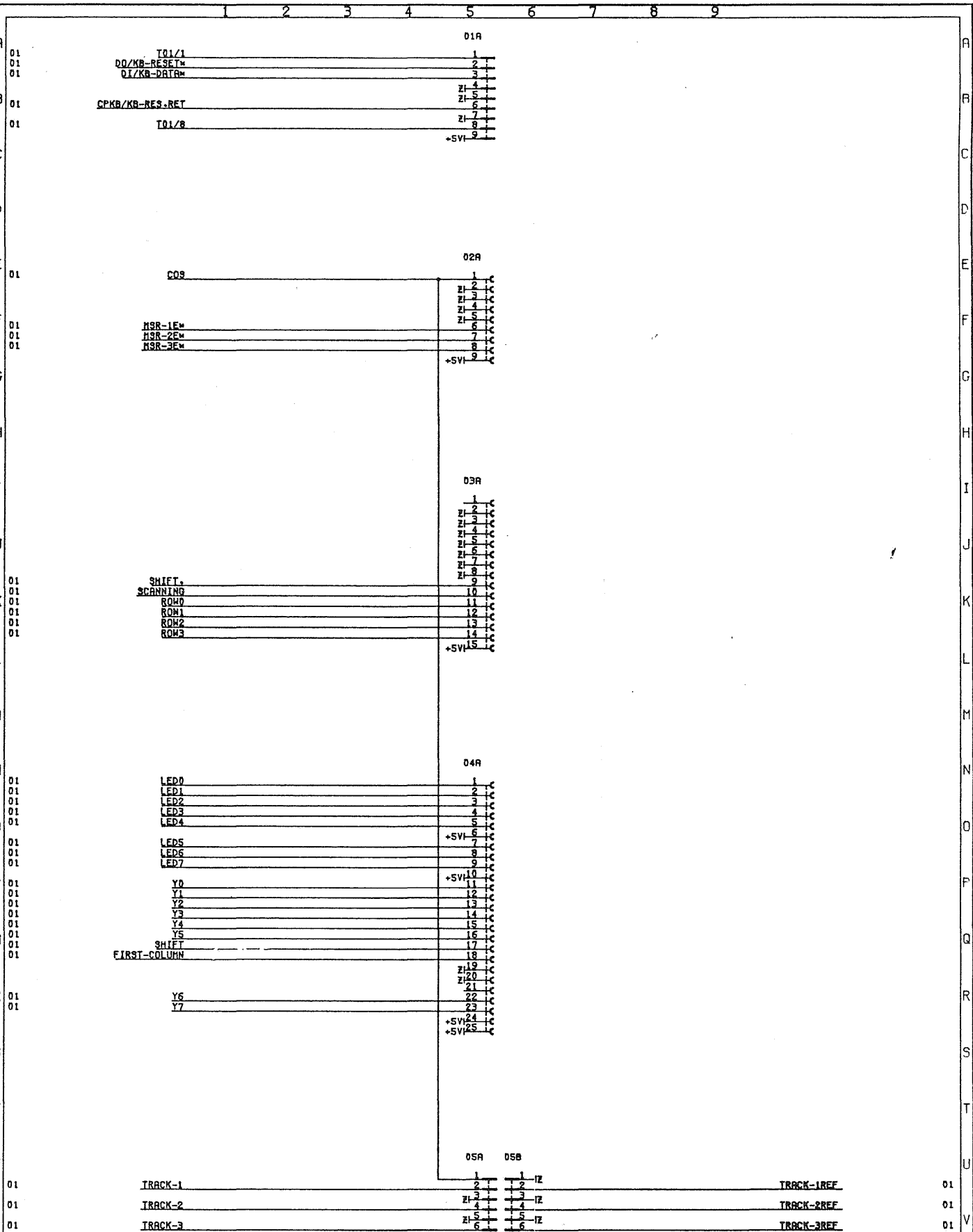
69 54 174

71 R23-R24-R25-R34 NOT MOUNTED ON CC ASSY

IT	Sm	821218-CIR 03	6953602
DRA	CMD	APD 1984-02-15	6953601
CIRCUIT DIAGRAM			OR ASSY
KB-ADAPTER			ERICSSON
(3482-1.4143-001) KB22			
69 54 174 V3			SHEET 7(8)
REV	ECO		

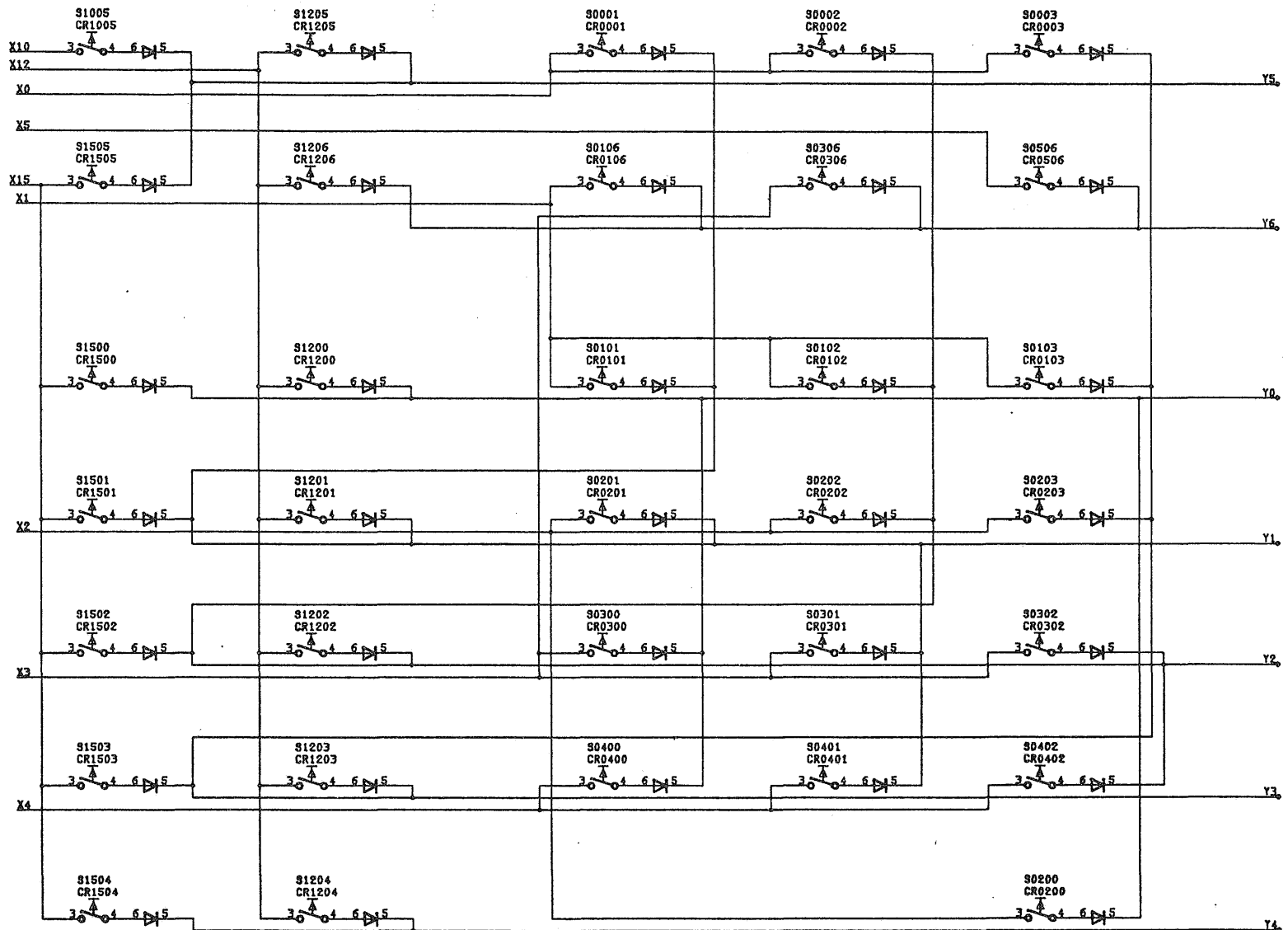
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69 54 174



IT	SM-1	821218-WTP 03	6953602
DRA	CKD	APP 1984-02-13	6953601
CIRCUIT DIAGRAM			OBJ ASSY
KB-ADAPTER			ERICSSON
(3482-1.4143-001) KB501			
REV	ECO	69 54 174 V3	SHEET 8(8)

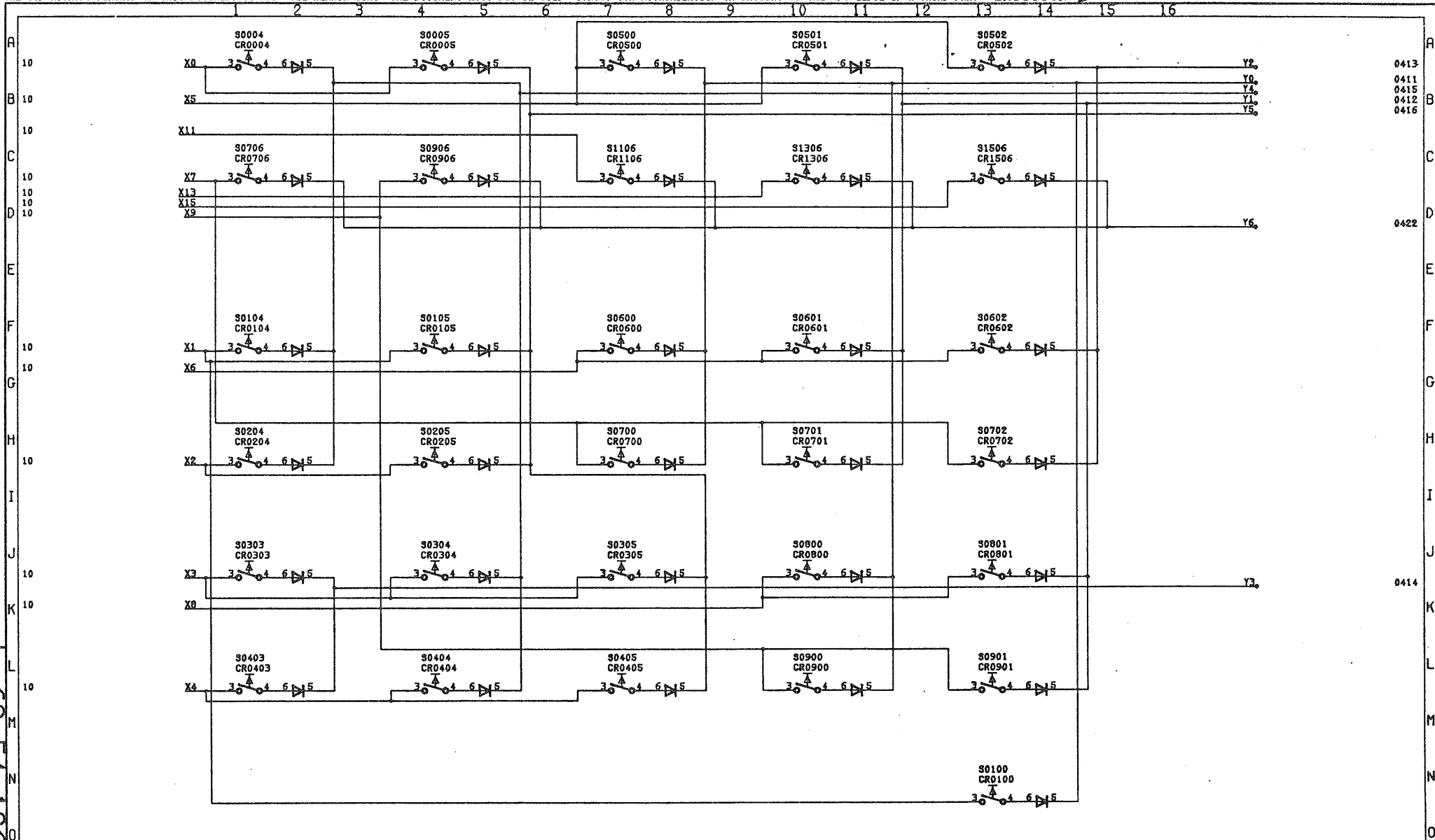
8) 02 NOT MOUNTED ON CC ASSY



1) S1005, S1205, S0001, S0106, AND CR1005, CR1205, CR0001, CR0106 ARE NOT MOUNTED ON CC ASSY 6910310 111

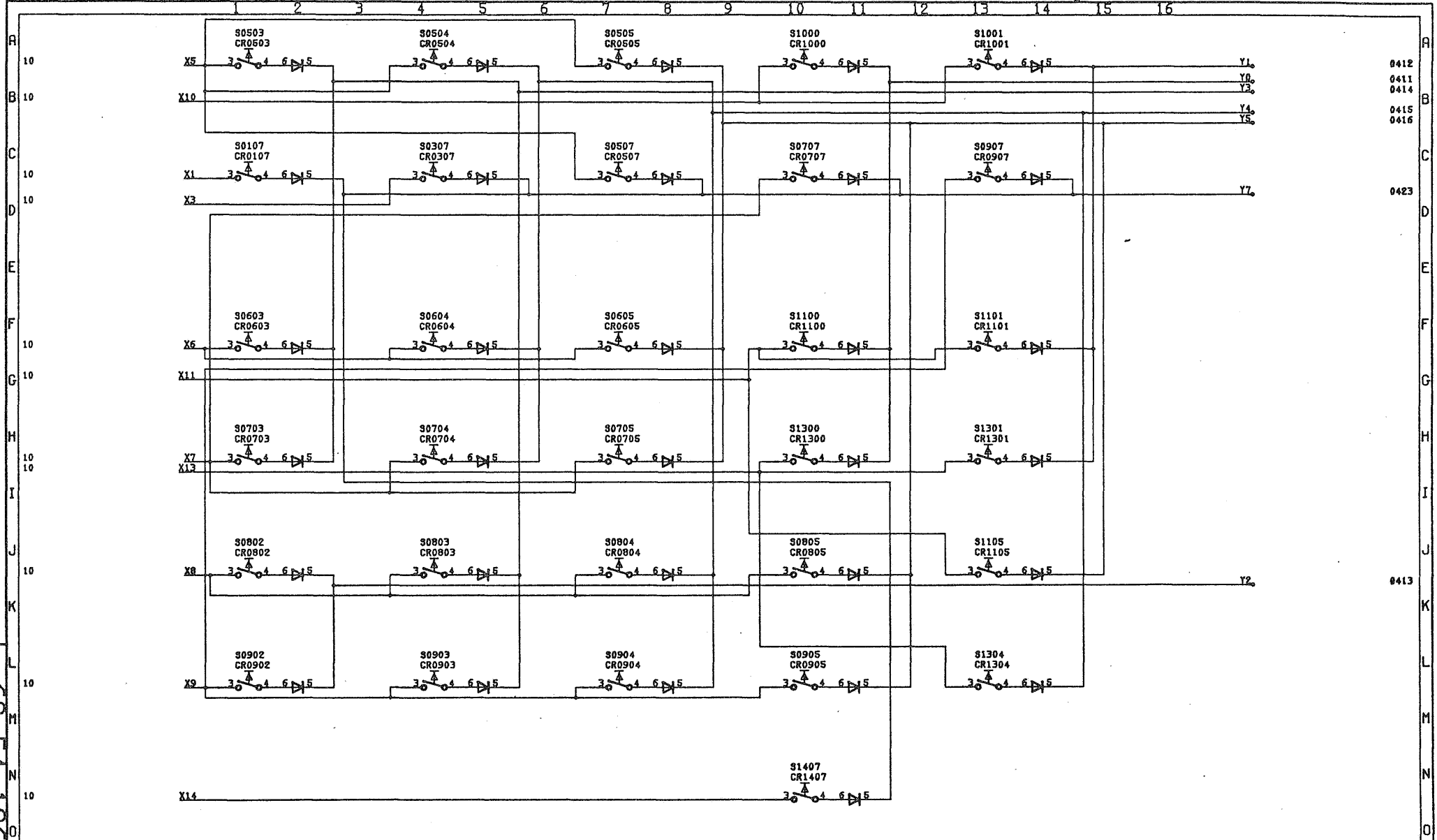
IT	SM	830225-CIR 01	
DRA	CRP	RPD 1983-03-10	6953602
CIRCUIT DIAGRAM		OBJ	ASSY
KEYBOARD		ERICSSON	
(4143-001)		KB12	
REV	ECO	69 54 126	V1
		SHEET 2(6)	

69 54 126



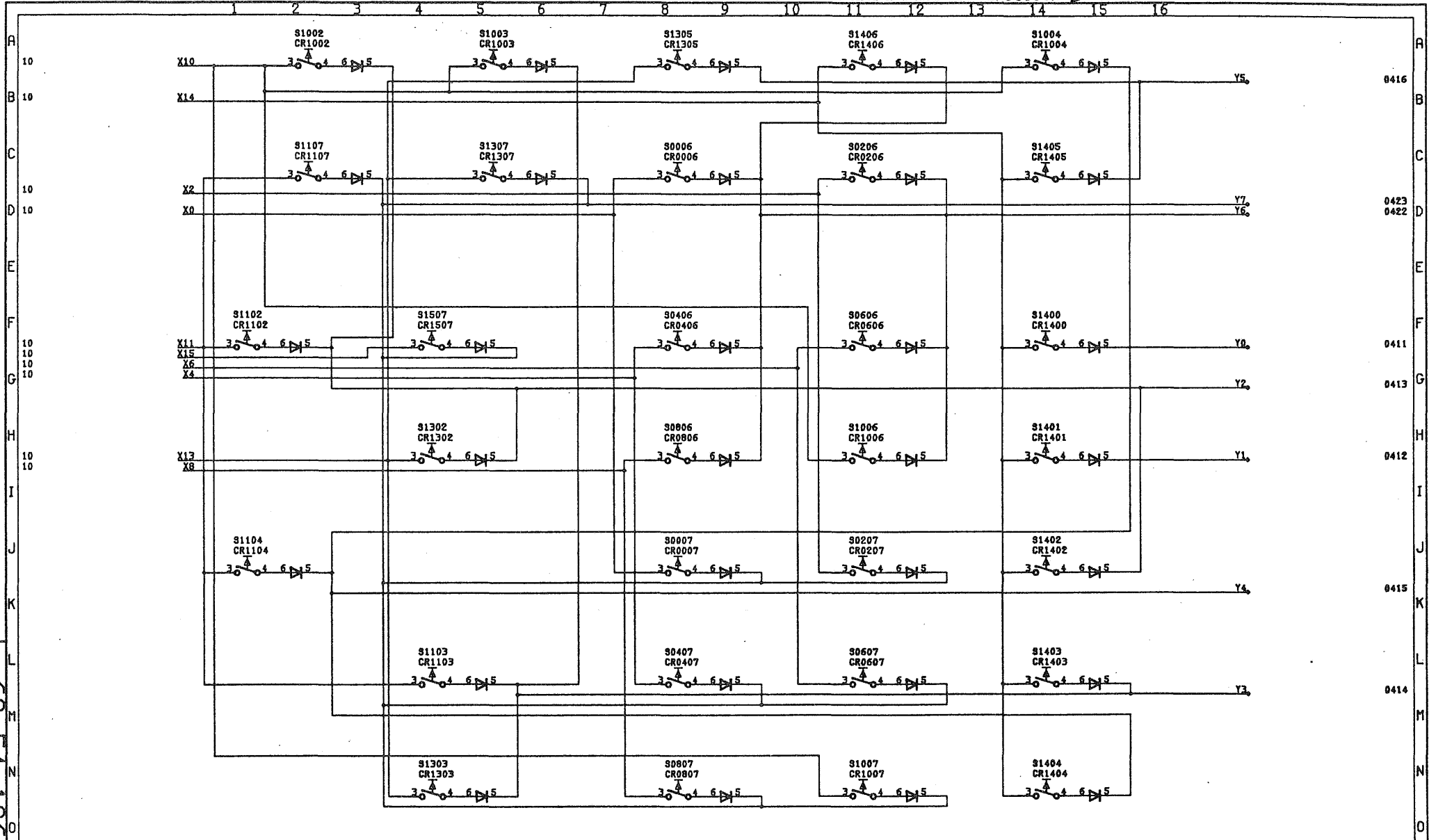
69 54 126

IT	SM-g	830225-CIR 01	
DRR	CRD	APD 1983-03-09	6953602
CIRCUIT DIAGRAM			OBJ ASSY
KEYBOARD			ERICSSON
(4143-001) KB13			
REV	ECO	69 54 126 V1	SHEET 3(6)



69 54 126

IT	SM	830225-CIR 01	
DRA	CKP	APP	1983-03-09
			6953602
			OBJ RSY
			ERICSSON
			(4143-001) KB14
REV	ECO	69 54 126 V1	SHEET 4(5)



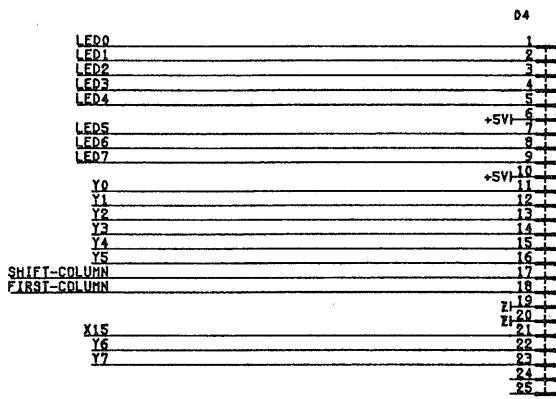
69 54 126

2) S1002. S1003. S1305. S1406. S1004. S1107. S1307 AND
 CR1002. CR1003. CR1305. CR1406. CR1004. CR1107. CR1307
 ARE NOT MOUNTED ON CC ASSY 6910310 111

IT	SM-1	830225-CIR 01	
DRA	CKD	APD 1983-03-10	6953602
CIRCUIT DIAGRAM		OBJ	ASSY
KEYBOARD		ERICSSON	
(4143-001)		KB16	
REV	ECD	69 54 126	V1
		SHEET 5(6)	

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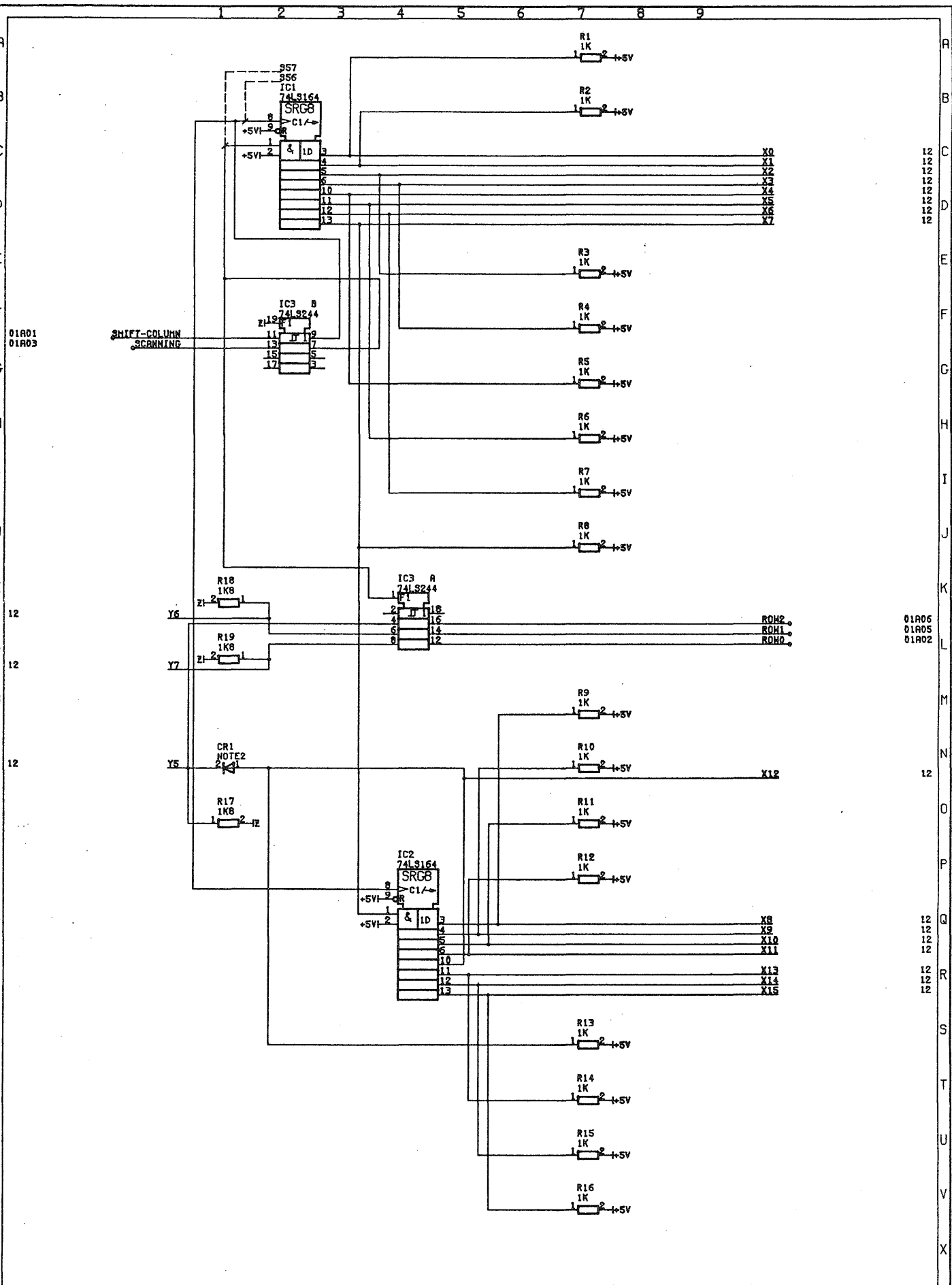
69 54 126



IT	SM-d	830225-WTP	01	
DRA	CKD	APD	1983-03-10	6953602
CIRCUIT DIAGRAM			OBJ	ASSY
KEYBOARD			ERICSSON	
(4143-001)			KB501	
REV	ECO	69 54 126	V1	SHEET 6(6)

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69 54 128

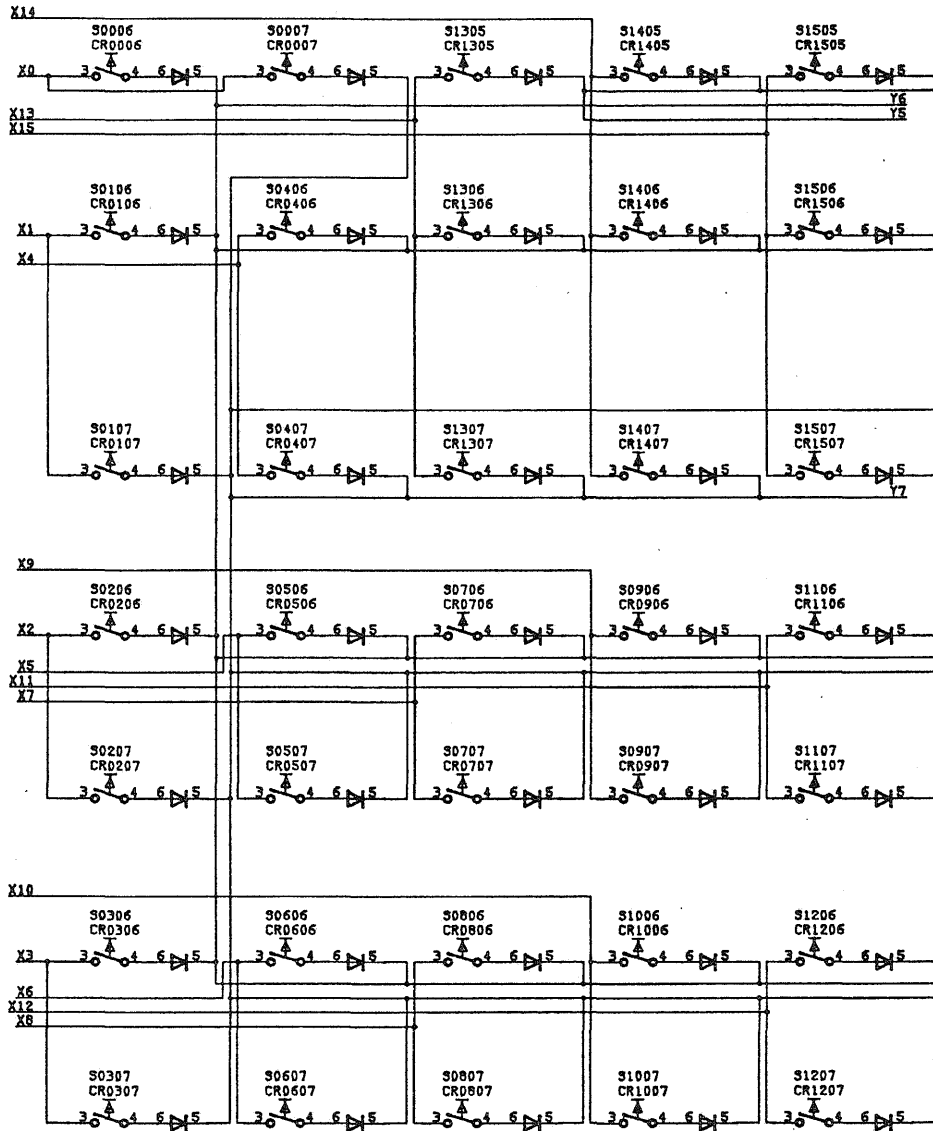


NOTE 1 SEE SHEET 2
 2) CR1 IN4448 IS NOT MOUNTED ON CC ASSY 6910314 11
 (FOR PRODUCT IDENTIFICATION PURPOSE)

IT	DR	CKD	RPD	830223-CIR 01	6953603
				1983-04-29	
CIRCUIT DIAGRAM				OBJ	ASSY
KEYBOARD				ERICSSON	
(4146-001)				KB10	
A	L-2006	69 54 128			SHEET
REV	ECD	V1			1(3)

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69 54 128



1) 90006, 90007, 91305, 91405, 91505 AND CR0006, CR0007, CR1305
CR1405, CR1505 ARE NOT MOUNTED ON CC ASSY 6910314 11

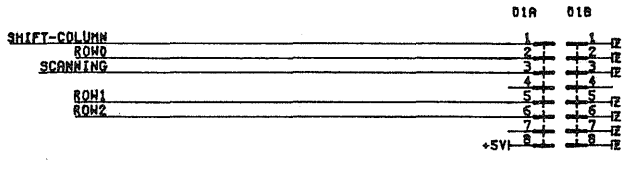
IT	SM-g	830223-CIR 01	
DRR	CKD	APD 1983-03-11	6953603
CIRCUIT DIAGRAM			OBJ ASSY
(4146-001) KB12			ERICSSON
REV	ECO	69 54 128 V1	SHEET 2(3)

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69 54 128

1 2 3 4 5 6 7 8 9

A
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A
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IT	SA	830223-WTP 01	
DRR	CKD	APD 1983-04-21	6953603
CIRCUIT DIAGRAM		OBJ	RSY
KEYBOARD		ERICSSON	
(4146-001)		KB501	
REV	ECO	69 54 128	V1
		SHEET 3(3)	

Optional Units

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	Reference Sheet	E34191 2001 3, sh 1
	Block Diagram	E34191 2001 3, sh 2
	Logic Diagram	E34191 2001 1, sh 3
MRW-A	Memory Board, Read Write A	
	Reference Sheet	E34191 2010 3, sh 1
	Block Diagram	E34191 2010 3, sh 2
	Logic Diagram	E34191 2010 1, sh 3
MRW-B	Memory Board, Read Write B	
	Reference Sheet	E34191 2020 3, sh 1
	Block Diagram	E34191 2020 3, sh 2
	Logic Diagram	E34191 2020 1, sh 3
MRW-C	Memory Board, Read Write C	
	Reference Sheet	E34191 2021 3, sh 1
	Block Diagram	E34191 2021 3, sh 2
	Logic Diagram	E34191 2021 1, sh 3
MRO	Memory Board, Read Only	
	Reference Sheet	E34192 2000 3, sh 1a, 1b
	Block Diagram	E34192 2000 3, sh 2
	Logic Diagram	E34192 2000 1, sh 3a, 3b
ACA	Asynchronous Communication Adapter	
	Reference Sheet	E34193 2000 3, sh 1
	Block Diagram	E34193 2000 2, sh 2
	Logic Diagram	E34193 2000 1, sh 3a, 3b

SCC2 Synchronous Communication Controller 2

Reference Sheet	E34196 2000 3, sh 1
Block Diagram	E34196 2000 3, sh 2
Logic Diagram	E34196 2000 1, sh 3

BCRB Bar Code Reader Board

Reference Sheet	E34161 2000 4, sh 1
Logic Diagram	E34161 2000 1, sh 2

FCU Fiber-optic Communication Unit

Block Diagram	E34135 2000 4, sh 1
Logic Diagram	E34135 2000 4, sh 2

FCA Fiber-optic Communication Adapter

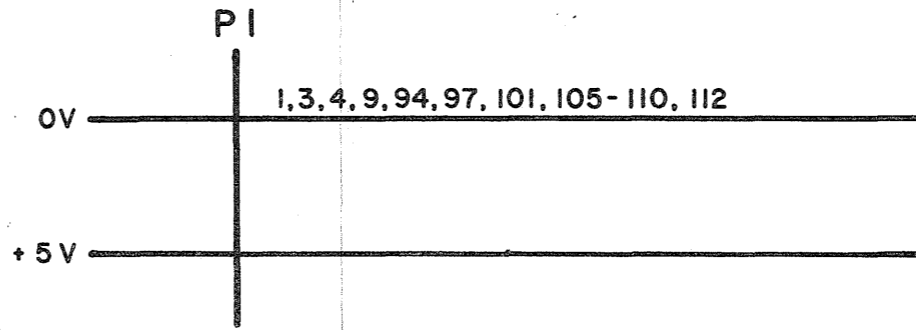
Reference Sheet	E34074 2000 3, sh 1
Block Diagram	E34074 2000 1, sh 2
Logic Diagram	E34074 2000 1, sh 3

CAB CCTV Adapter Board

Logic Diagram	E34197 2000 3
---------------	---------------

COMPONENT LIST

NO	TYPE */
IC 5	74 ALS 00
IC 4	74 LS 02
IC 17	74 HC 04
IC 15	74 LS 08
IC 28	74 LS 10
IC 18	74 LS 30
IC 16	74 LS 32
IC 36	74 S 37 N
IC 6	74 LS 74
IC 29	74 LS 157
IC 34	74 ALS 174
IC 35	74 F 161
IC 1, 9, 13	74 LS 245
IC 32	75452
IC 37	MLM 339
IC 31	Modem Ferranti
IC 7	555
IC 11	MC 68 A 0 D
IC 12	MC 68 A 2 I
IC 14	MC 68 A 4 0
IC 10	MC 68 A 4 4
IC 30	MC 68 A 5 4
IC 2	2764
IC 27	AM 2964
IC 19 - 26	MK 4164
IC 3, 8	PAL 16 L 8
IC 33	PAL 16 R 8 A
X1	PS741030-40
T2	I301-Reg 525



NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 2	R 6
+ 4	R 17
+ 6	R 45

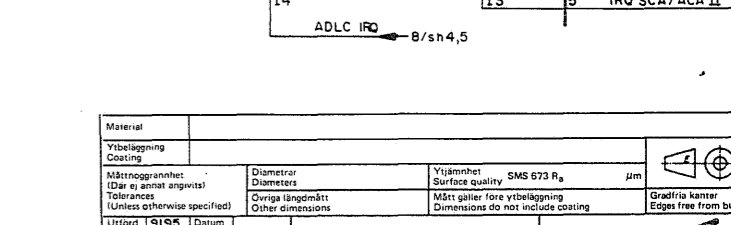
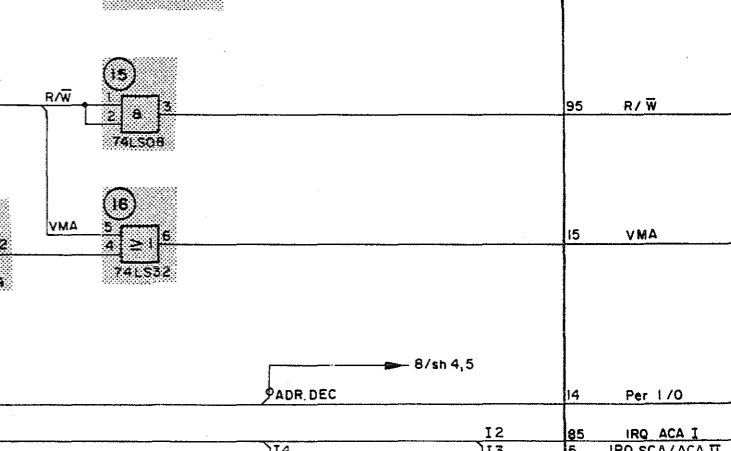
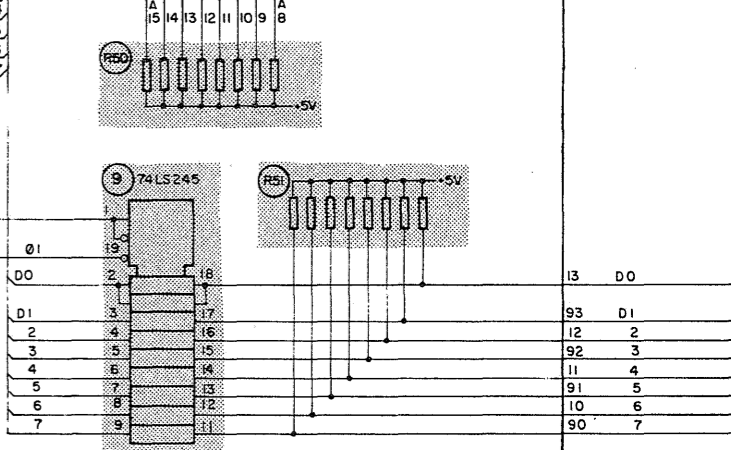
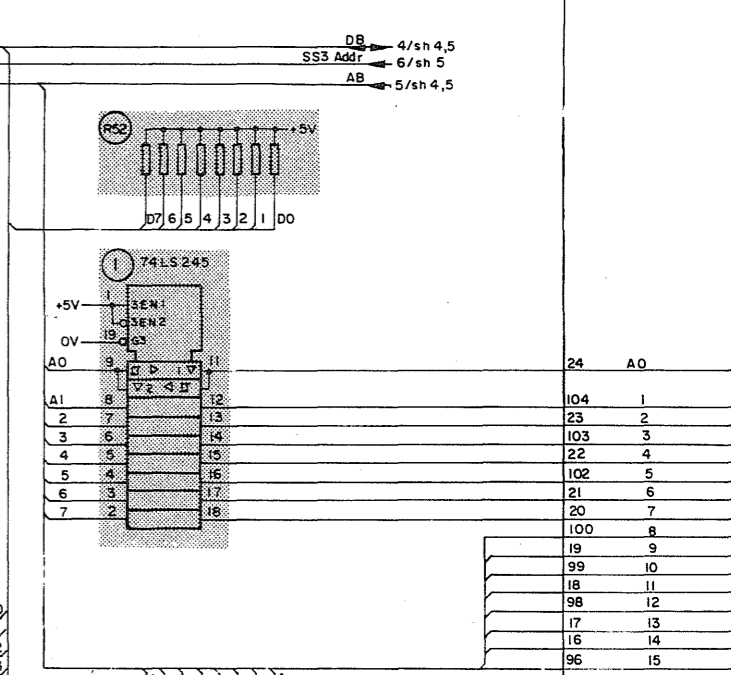
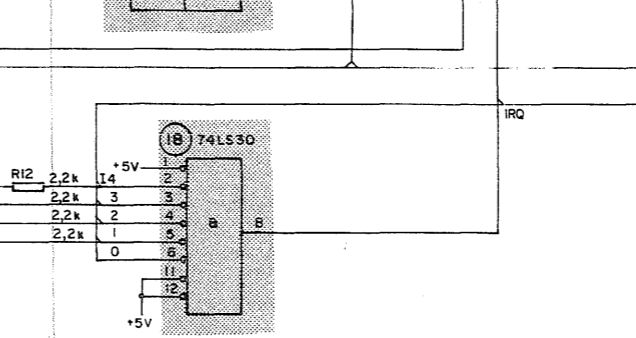
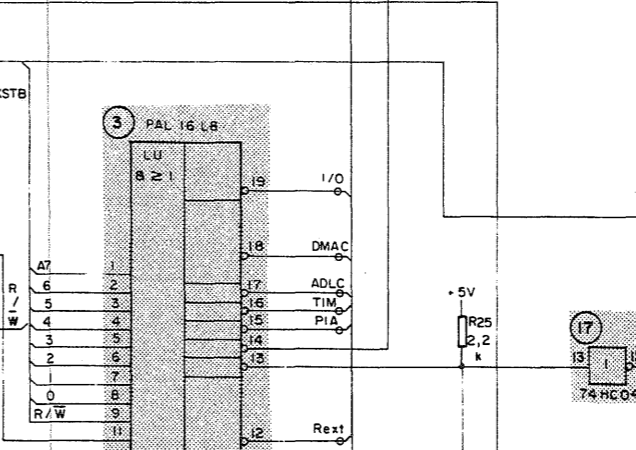
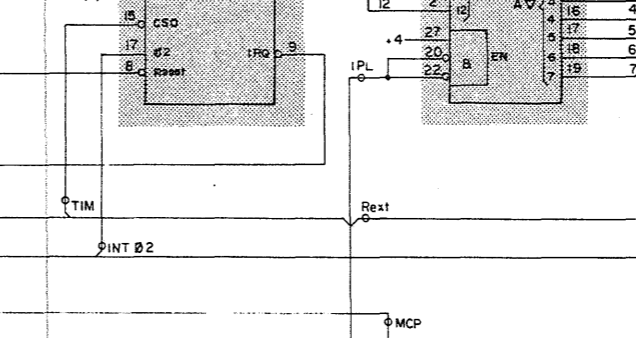
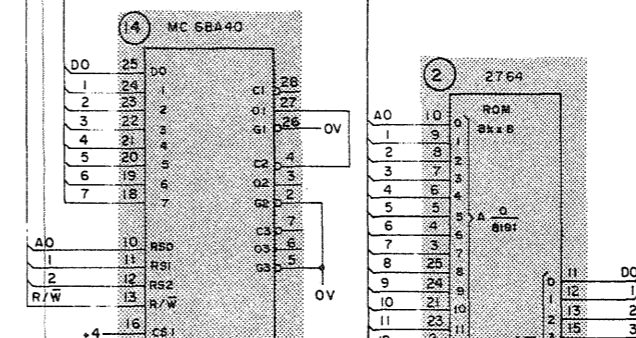
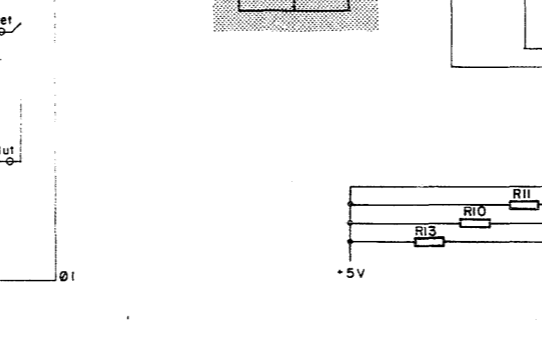
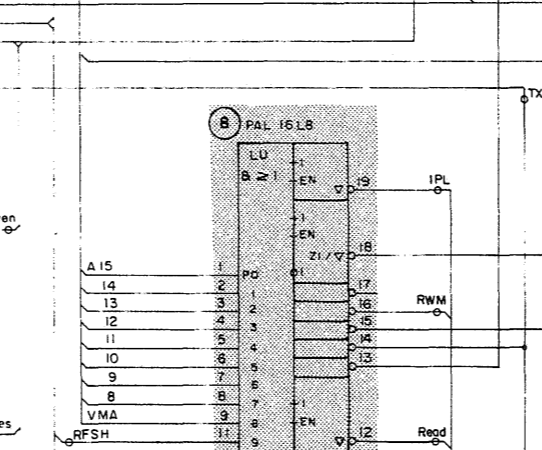
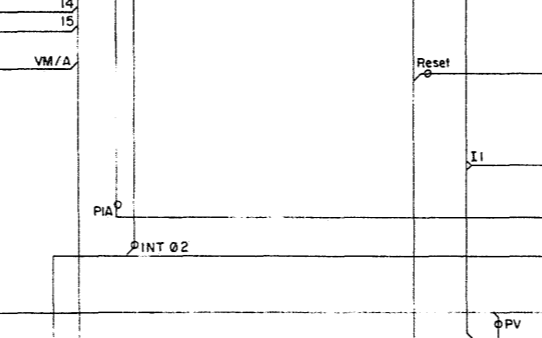
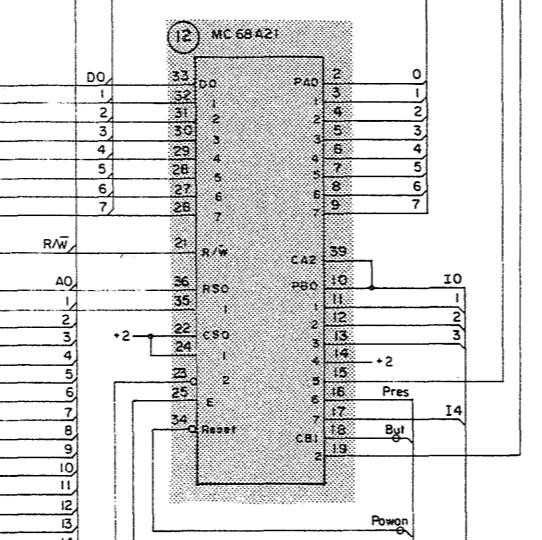
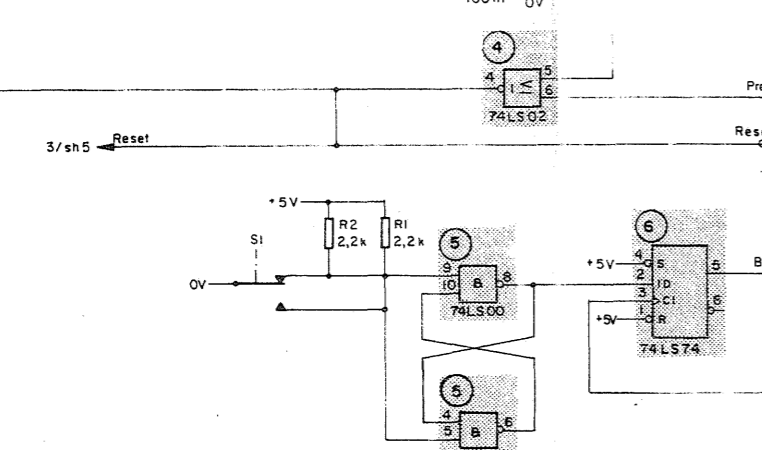
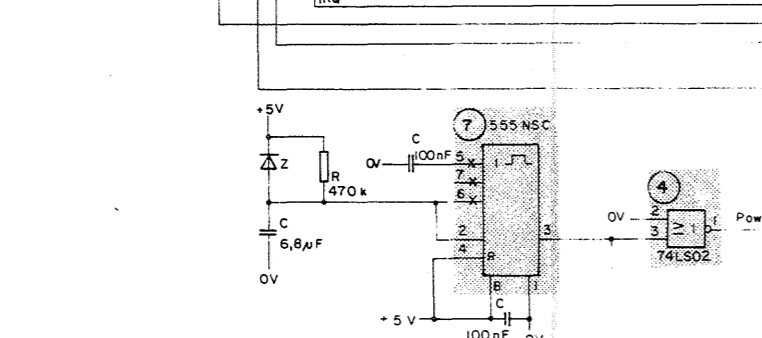
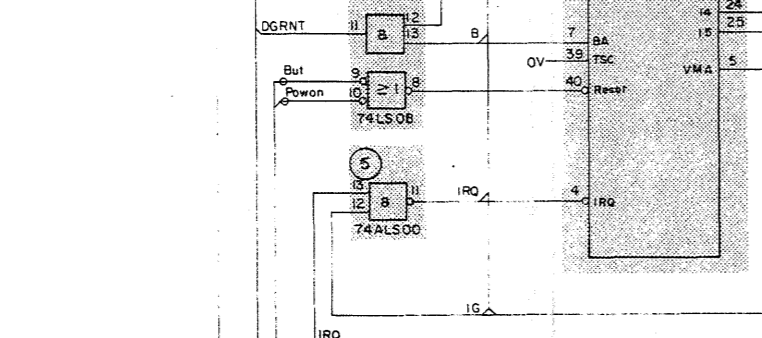
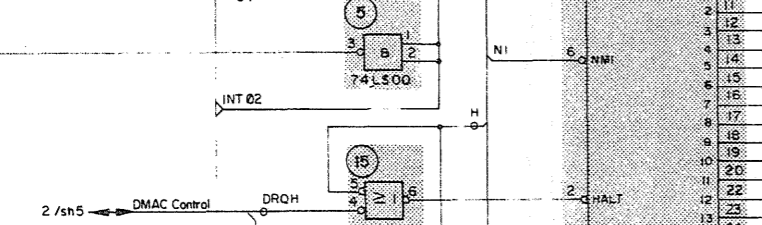
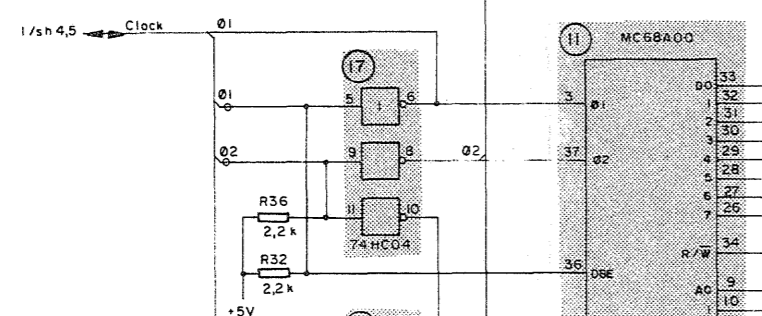
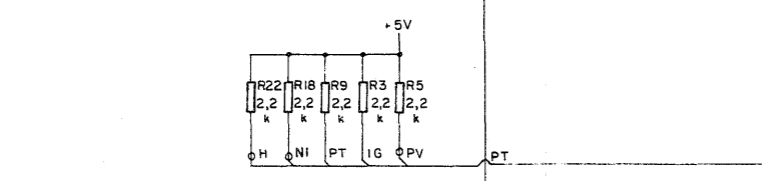
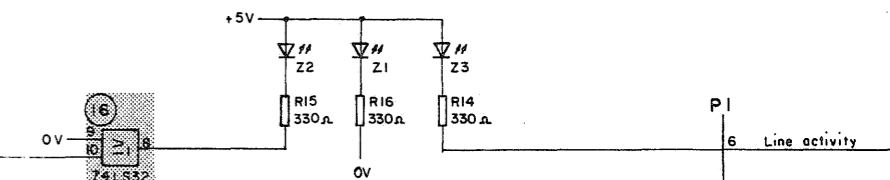
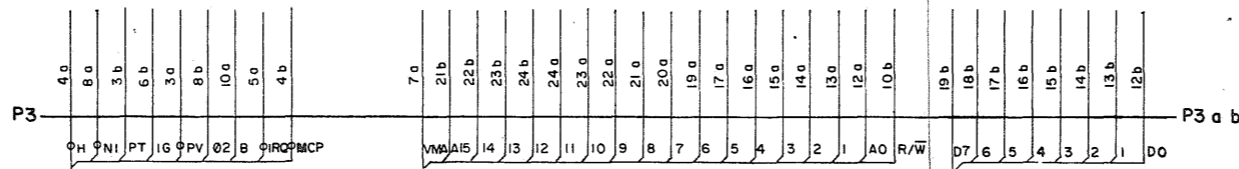
Example: +1 CONN. TO R
+1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS													
NUMBER	SH	MOD.													
E 34186 2000	3	1	REV.												
— II —	2	"													
— II —	1	3	"												
— II —	1	4	"												
— II —	1	5	"												
			"												
			"												
			"												
			"												

ASSEMBLY DRAWING NO. E

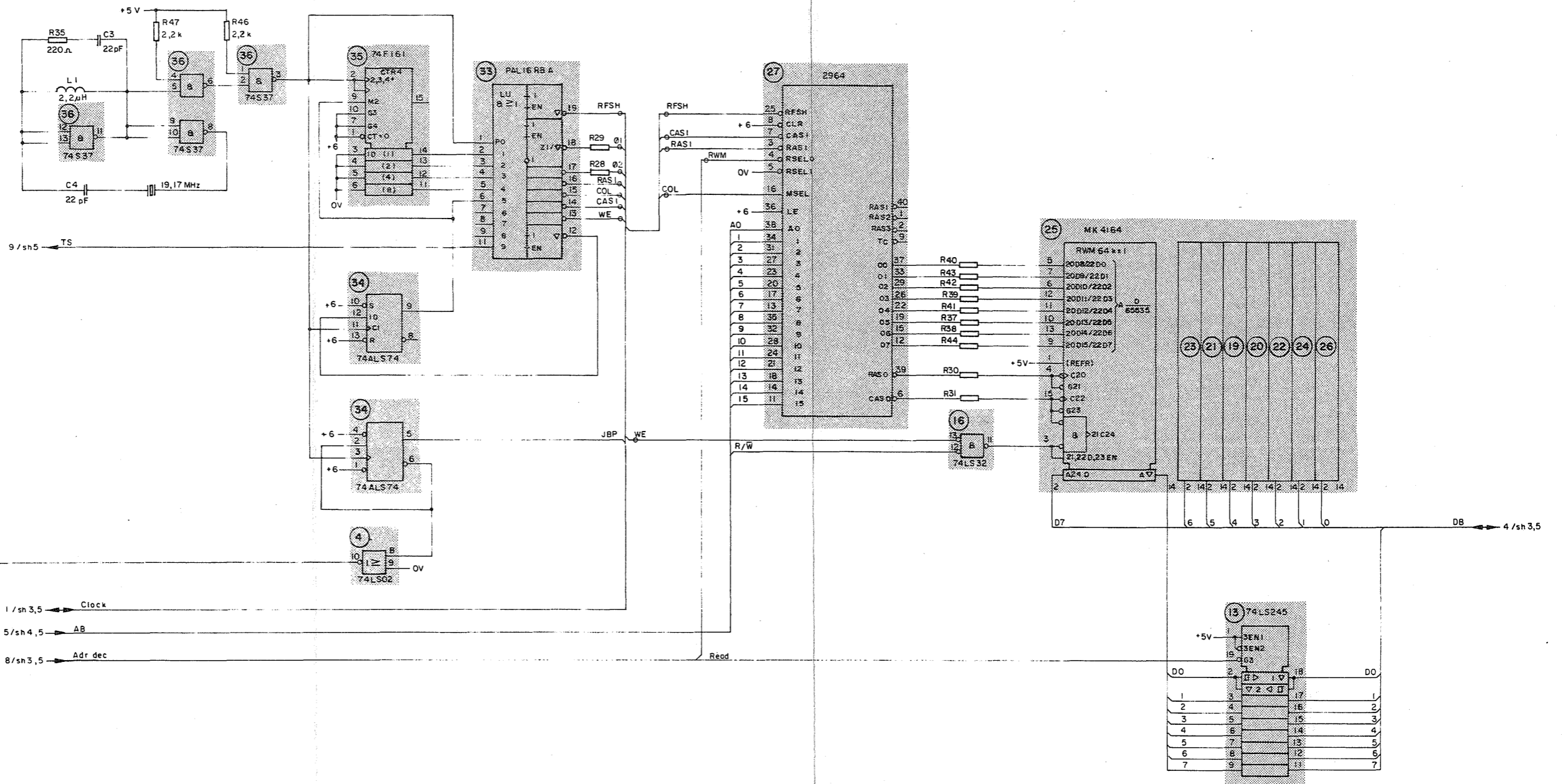
9195 <i>UK</i>	840619
709195 <i>UK</i>	
713298 <i>BTG</i>	22045 AD
GPB	
ERICSSON	
E34186 2000 3	
5 Blad Sheet	



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B40

Material				
Viblaggning				
Coating				
Måttolerans (Där ej annat angivits)	Diameter	Vyämhet	SMS 673 B _a μm	
Tolerans (Unless otherwise specified)	Övriga längdmått	Mått gäller före ytbehandling		Gräddria kanter Edges free from burr
Övriga dimensioner	Dimensions do not include coating			
Utförd 9/85	Datum 840619			
Issed 24	Skala			
Kontr 107/11	Scale			
Godk 7/17	62673			
Approv 276	L-D			
GPB		ERICSSON		
E 34186 2000 I		5		
		3		

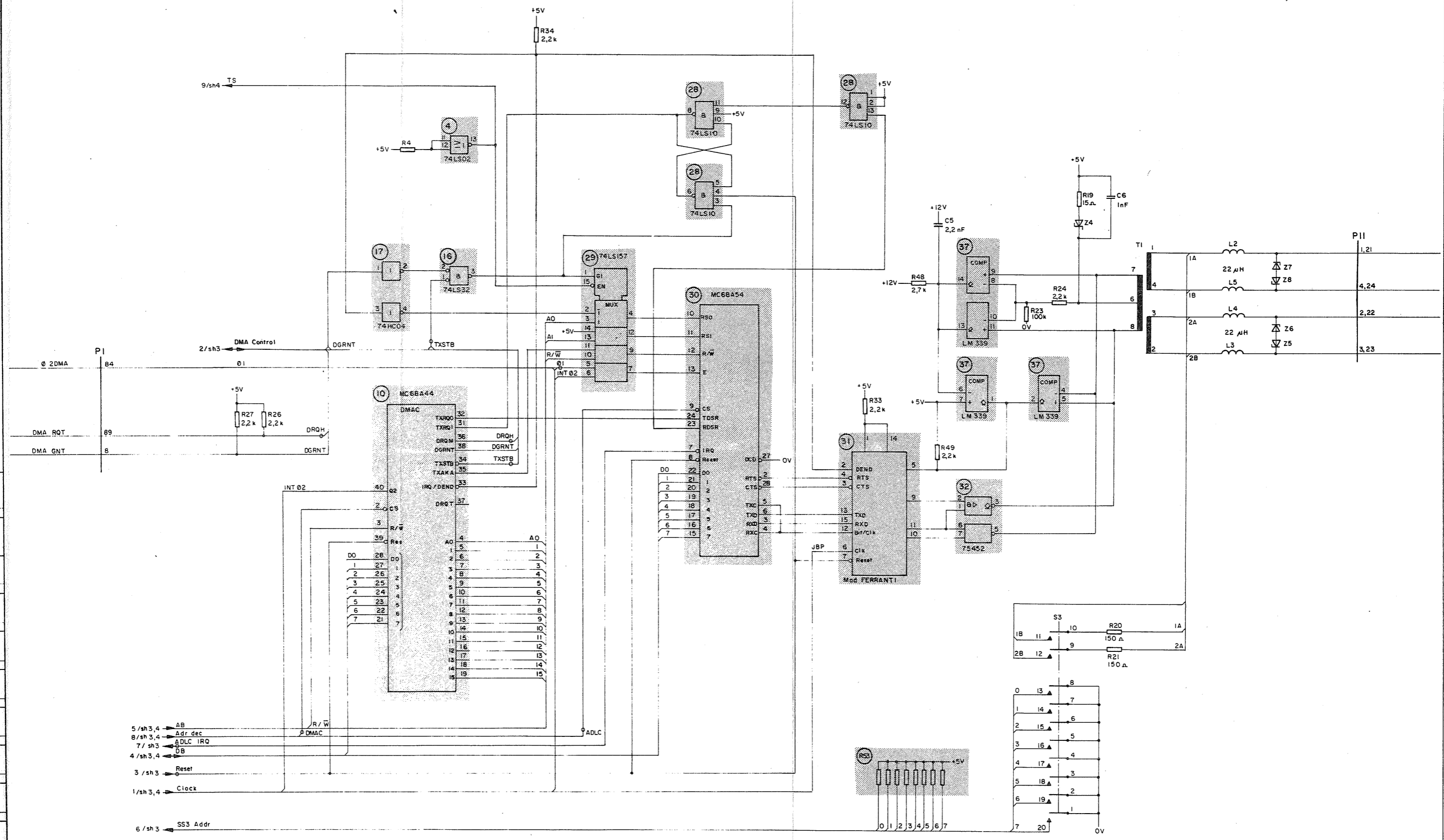


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8 dB

DO	2	18	DO
1	3	17	1
2	4	16	2
3	5	15	3
4	6	14	4
5	7	13	5
6	8	12	6
7	9	11	7

Material			
Vybelagning			
Coating			
Måttoleranser (Där ej annat angivits)	Diameter Diameters	Vyjamhet Surface quality	SMS 673 R _a μm
Tolerances (Unless otherwise specified)	Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Gräddria kanter Edges free from burr
Utförd Issued	9/95 Date	840619 Scale	GPB
Kontroll Check	20/95 Date	82873 L'D	
Godkänn Approv	2/97 Date		
ERICSSON			5 4
E 34186 2000 I			5 4

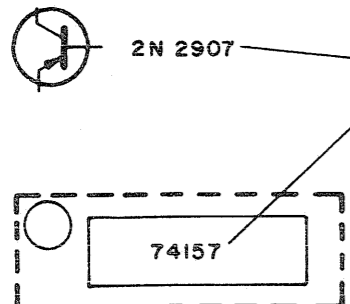


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Material			
Ytbeläggning			
Coating			
Måttögränshöjden (Där ej annat anges)	Diameter Diameters	Ytjämnhet Surface quality	SMS 673 R ₃
Tolerans (Unless otherwise specified)	Övriga mått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Grädfria kanter Edges free from burr
Utförare Issued	Datum Date	GPB	
Kontroll Check	Skala Scale	ERICSSON	
Godkänn Approved	Skala L-D	E 34186 2000 I 5	
		Blad Sheet	
		5	

MRW	801022	2	840514	3	16
REV 1	"	14	"	17	"
		5	18	6	19
		7	20	8	21
		9	22	10	23
		11	24	12	25
		13	26		

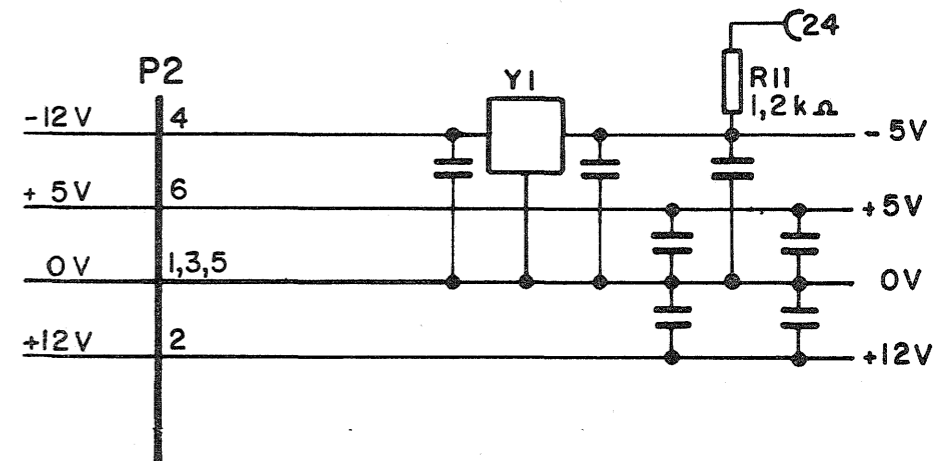
TEST POINTS	
NO	SIGNAL
1	Ø2
2	RAS 2 EN ○
3	Read ○
4	Refresh ○
5	
6	
7	
8	
9	
10	
11	
12	
13	
21	CAS EN ○
22	Write ○
23	RAS 1 EN ○
24	- 5 V ○
25	
26	
27	
28	
29	
30	
31	
32	
33	



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES

COMPONENT LIST

NO	TYPE #/
IC 2	74LS00
IC 6	74LS08
IC 8	74LS32
IC 7	74LS74
IC 4	74LS163
IC 9	74LS240
IC 12	74LS244
IC 11	74LS373
IC 3	ROM256x4BIT
IC 17-32	MK4116 P
IC 10	D 3242
Y1	µA 79M05
IC 16	74S32
R 8-9	1,2 kΩ



NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 1	R 9
+ 2	R 8

Example : +1 CONN. TO R
 +1G CONN. TO IC

VALID FOR PCB-LAYOUT 1
REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS									
NUMBER	SH. MOD.	1	-								
E 34191 2001 3	1	REV.	-	1							
" " " 3	2	"	-	1							
" " " 1	3	"	-	1							
		"									
		"									
		"									
		"									
		"									
		"									
		"									

ASSEMBLY DRAWING NO. E34191 0001 3

INGÅR AVEN I ALSO USED ON	REG. NR REG. NO.
FÖRST ANVÄND FIRST USED ON	
KONTR. CHECKED 8559	GODK. APPROV. 88
SKALA SCALE 8663	KOPIER COPIED 9328
UTFÖRD ISSUED 85	790129

MRW
Memory Board Read
Write

ERICSSON

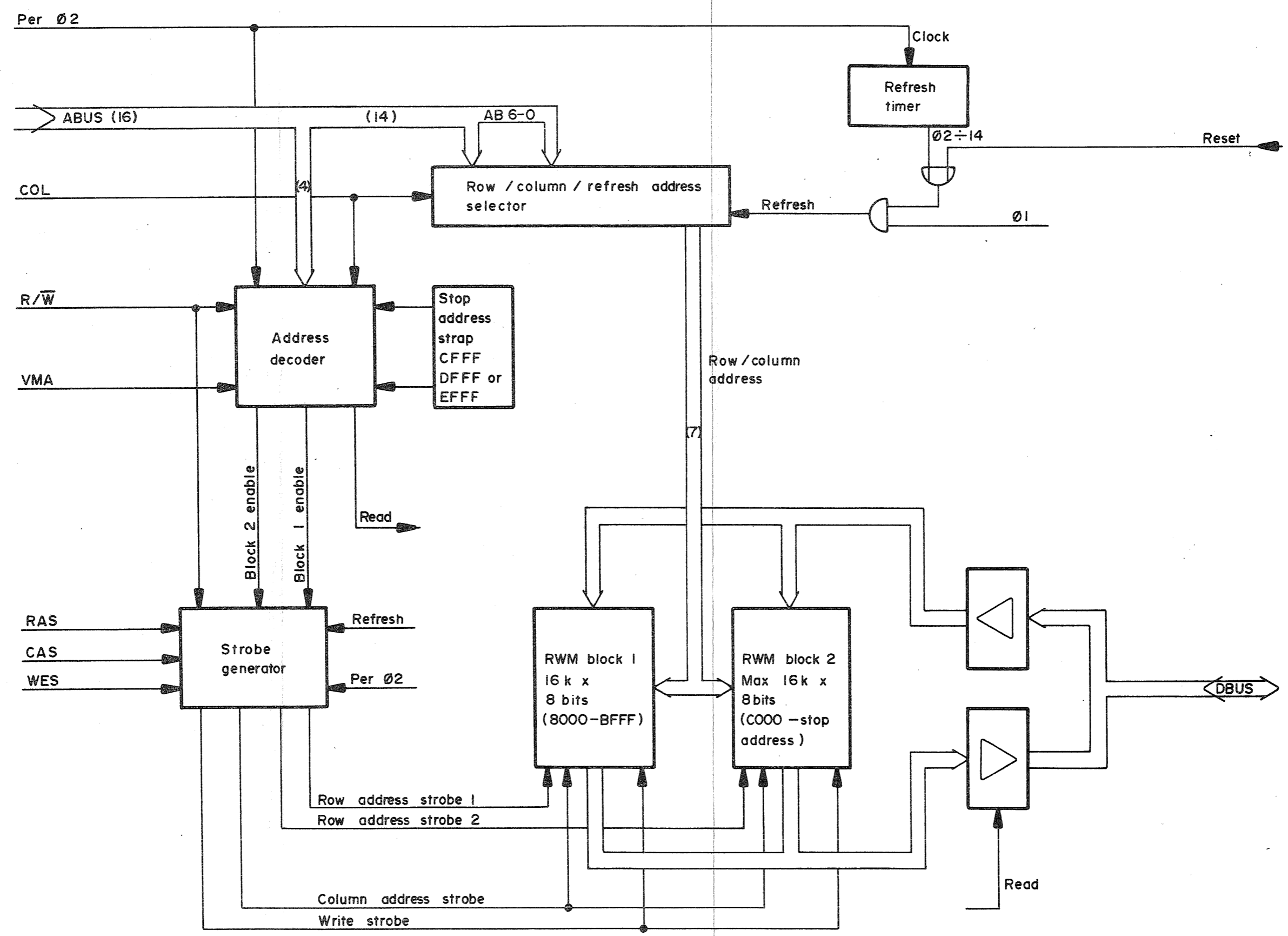
E34191 2001 3 3 BLAD SHEET

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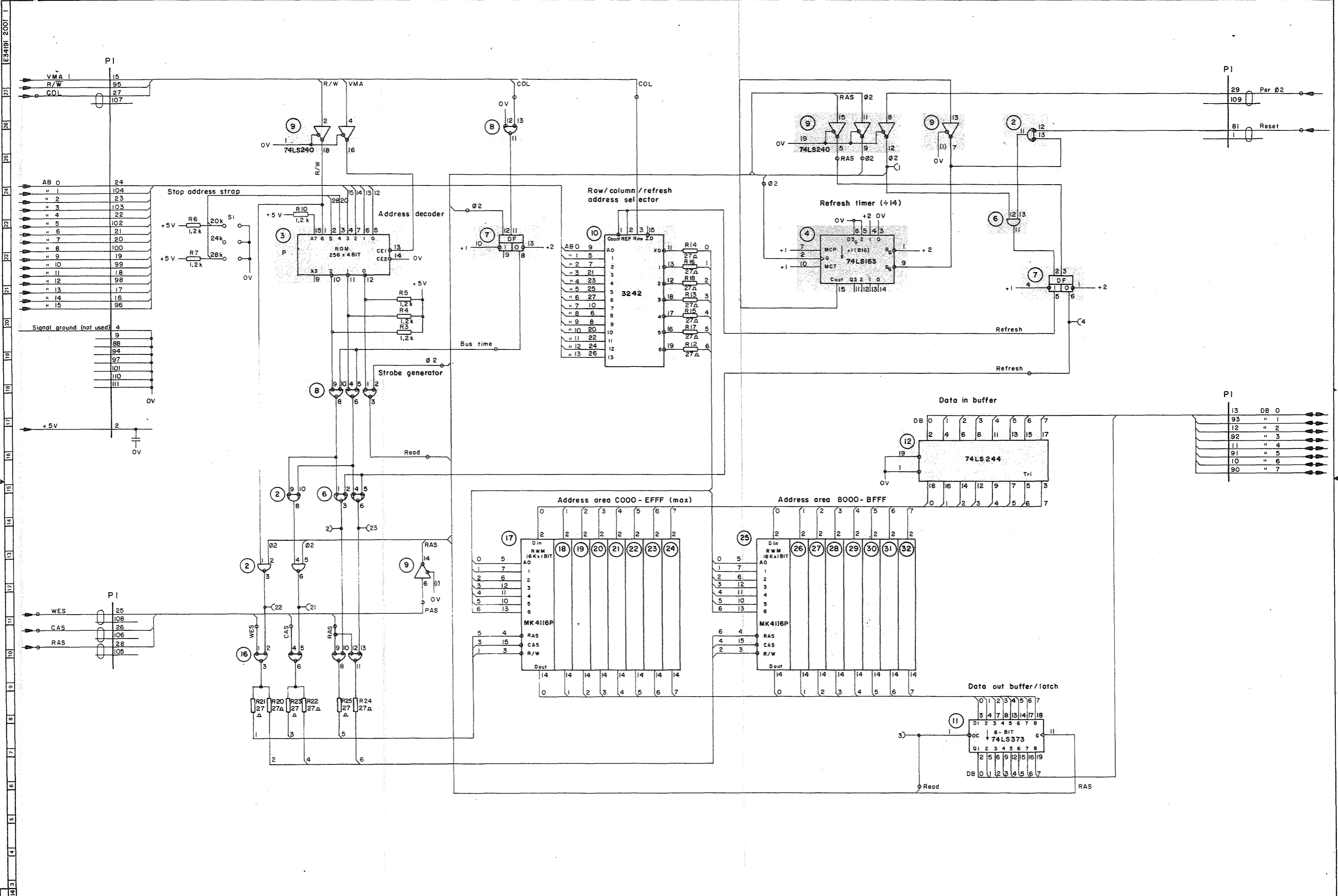
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 12 E34191 2001 3
 11
 10
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 3
 MRW
 REV.1801022 2



INGÅR AVEN I ALSO USED ON		REG NR REG No	
KONTR CHECK	8559	GODK APPROV	863 08
SKALA SCALE		KOPIER COPIED	9328 GM
UTFORD ISSUED	8663 BS	790129	
MRW Memory Board Read Write			ERICSSON
			E34191 2001 3 3 2



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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

P = Programming and strapping,
 see separate documentation
 () = Repeated information

Valid for PCB-layout I

INGÅR AVEN I ALSO USED ON		REG. NR REG. No	
KONTR CHECK	8556	KOPPIER APPROV	8556
SKALA SCALE	1:1	KOPPIER COPIED	GM
UTGÅVA ISSUED	8555	790129	

MRW	ERICSSON
Memory Board Read	
Write	

E34191 2001 I	3
	3

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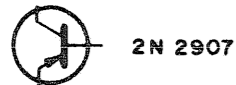
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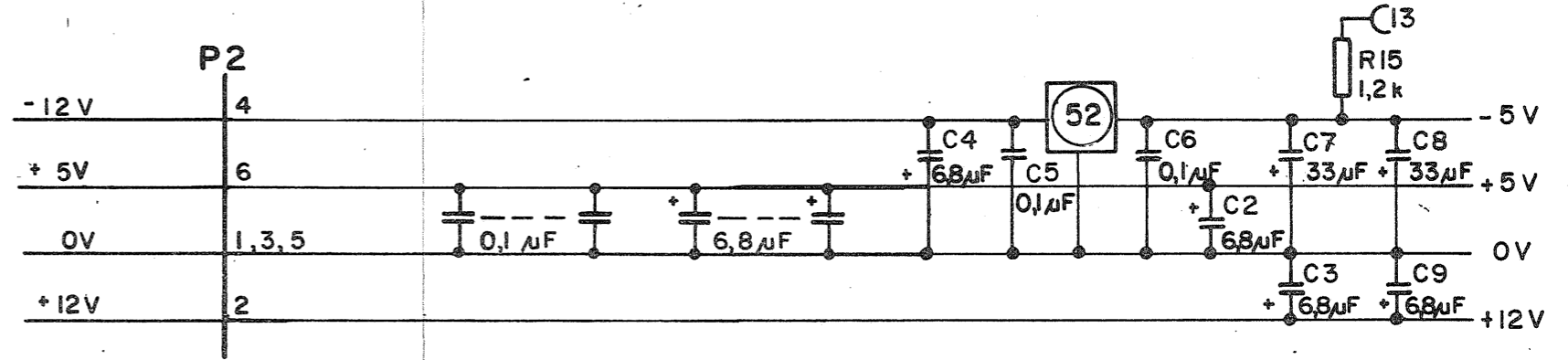
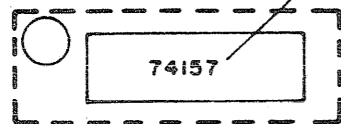
MRW-A

REV 1	821201	2	13	26
"	14 Omförd	15	12	25
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"	"	"	9	22
"	"	"	8	21
"	"	"	7	20
"	"	"	6	19
"	"	"	5	18
"	"	"	4	17
"	"	"	3	16

TEST POINTS	
NO	SIGNAL
1	
2	
3	
4	
5	Read
6	Write
7	
8	
9	
10	+TTL 1
11	+TTL 2
12	
13	-5V
14	
15	
16	
17	
18	
19	
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21	
22	
23	
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41	
42	0V



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC 3	74LS00
IC 12	74LS08
IC 42	74S32
IC 4	74LS37
IC 6	74LS74
IC 1	74LS157
IC 7	74LS163
IC 5	74LS240
IC 9	74LS244
IC 11	74S280
IC 10	74LS373
IC 33-41, 43-51	MK4116P
IC 8	D3242
IC 2	ROM256x4BIT
IC 52	μA79M05
R 3	1,2 k Ω
IC 13	6,8 k Ω

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 1	R 5
+ 2	R 6

Example: +1 CONN. TO R
+16 CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS									
NUMBER	SH. MOD.	-	1	-	2						
E 34191 2010 3	1	REV.	-	-	1	-					
"	3	"	-	-	1	-					
"	1	"	1	2	3	-					
		"									
		"									
		"									
		"									
		"									
		"									
		"									

ASSEMBLY DRAWING NO. E34191 0010 3

INGÅR AVEN I ALSO USED ON	REG. NR. REV. NO.
FÖRST ANVÄND FIRST USED ON	
KONTR. CHECK	GOD. APPROV.
SKALA SCALE	KOP. COPIED
UTFÖRD ISSUED	
8202	8837
9328	GM
8663	790612

MRW - A 16 / 32 K

ERICSSON

E34191 2010 3 3 BLAD SHEET

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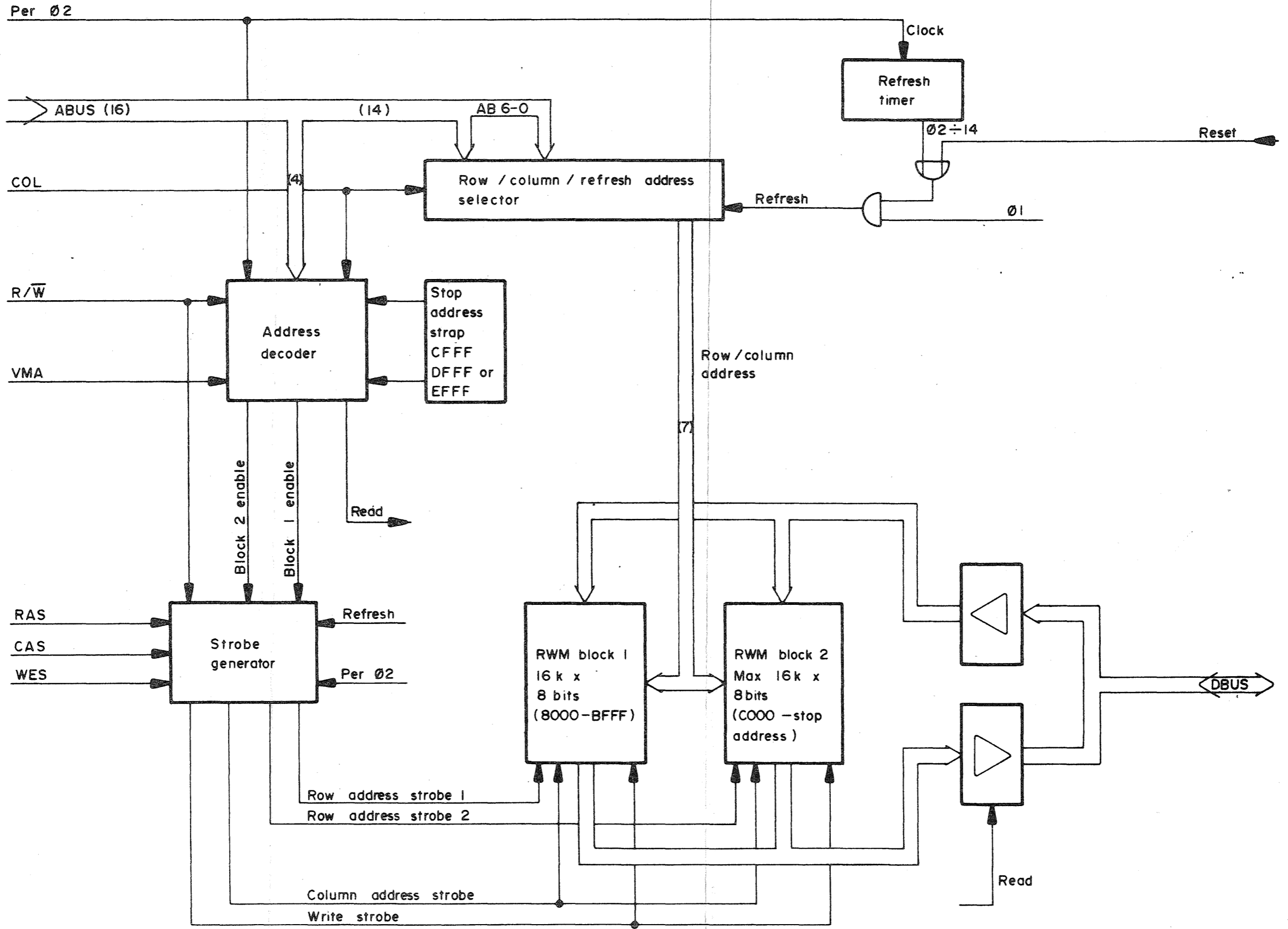
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E 34191 2010 3

MRW-A
REV 1 821201

Omnitrad



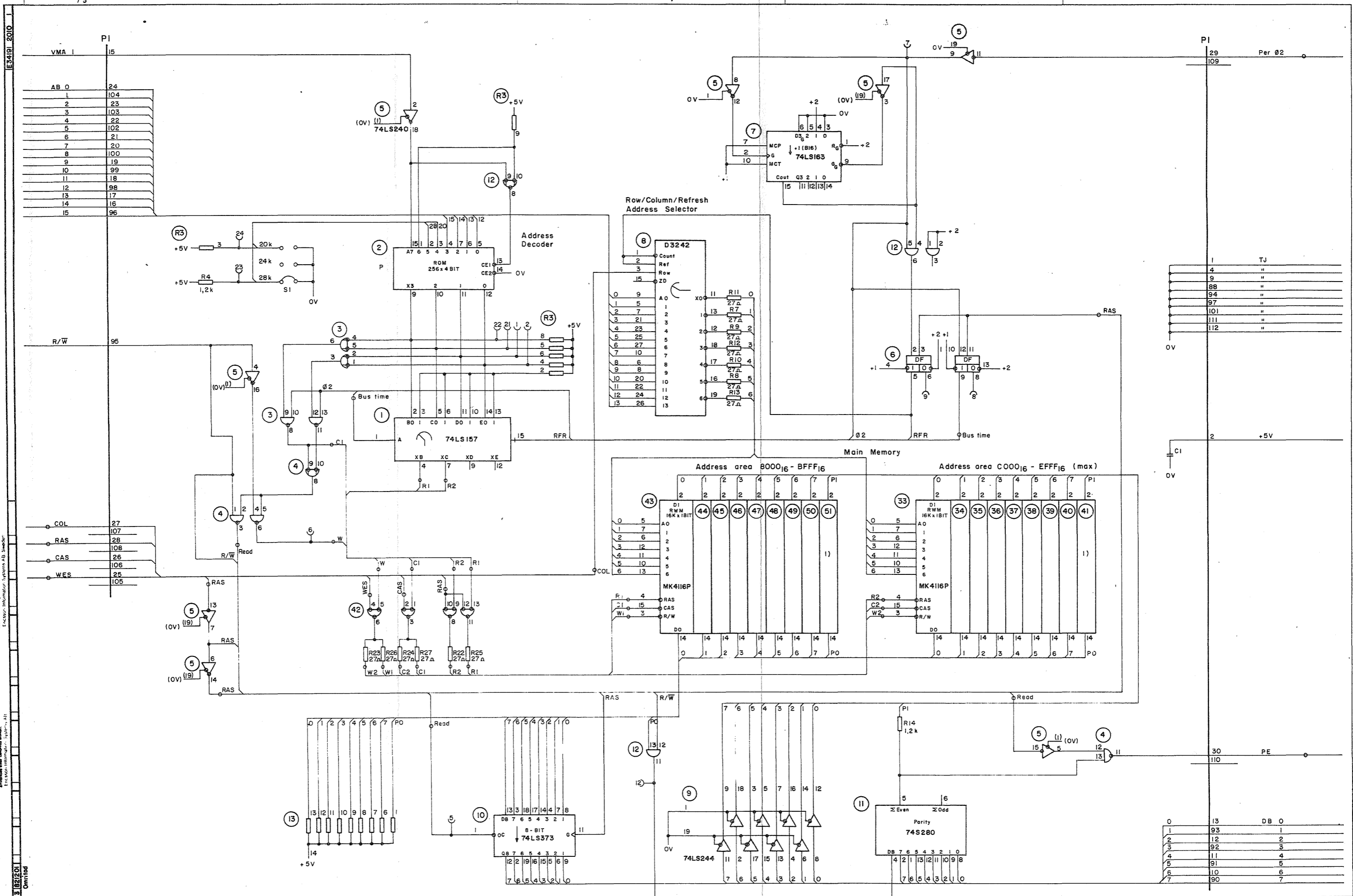
INGÅR ÄVEN ALSO USED ON		REG. NR REG. No
KONTROLL CHEK	8202 <i>Law</i>	8837 <i>Ro</i>
SKALA SCALE	KOPIER COPIED	8535 MS
UTFORDR ISSUED	8663 BS	790612

MRW-A
Memory Board Read
Write A

ERICSSON
E 34191 2010 3

3
2
BLAD
SHEET

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I	TJ
4	"
9	"
88	"
94	"
97	"
101	"
111	"
112	"

0	13	DB 0
1	93	1
2	12	2
3	92	3
4	11	4
5	91	5
6	10	6
7	90	7

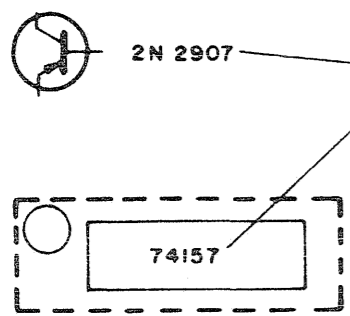
1) Option for parity check
 P = Programming and strapping, see separate documentation
 () = Repeated information

Material			
Ytterliggande Cöskning			
Mattningsanordning IGU m. annat utgryps- lösnings	Dimension SMS 672 R ₀	Ytterligare Dimensioner	Ytterligare Dimensioner
Uttford 8663	Datum 85	790612	
Kontroll 322	Skala		
Godkänn 8937			
MRW - A 16/32 K		ERICSSON	
E34191 2010 1		3	

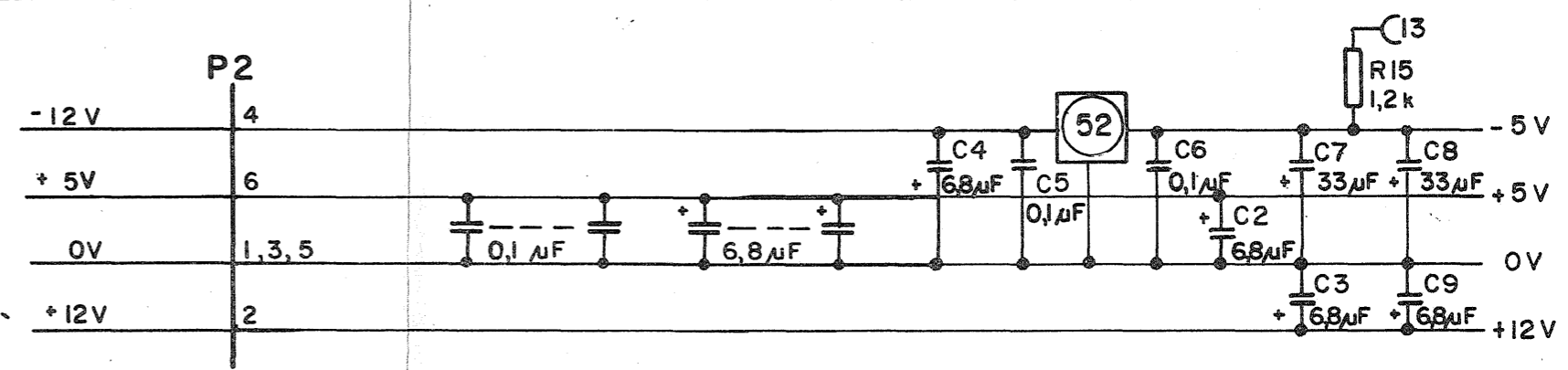
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13	26
12	25
11	24
10	23
9	22
8	21
7	20
6	19
5	18
4	17
3	16
2	15
14	

TEST POINTS	
NO	SIGNAL
1	
2	
3	
4	
5	Read
6	Write
7	
8	
9	
10	+TTL 1
11	+TTL 2
12	
13	-5V
14	
15	
16	
17	
18	
19	
20	
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42	OV



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC 3	74LS00
IC 12	74LS08
IC 42	74S32
IC 4	74LS37
IC 6	74LS74
IC 1	74LS157
IC 7	74LS163
IC 5	74LS240
IC 9	74LS244
IC 11	74S280
IC 10	74LS373
IC 33-41, 43-51	MK4116P
IC 8	D3242
IC 2	ROM 256x4BIT
IC 52	μA79M05
R 3	1,2 kΩ
IC 13	6,8 kΩ

Example : +1 CONN. TO R
 +16 CONN. TO IC

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 1	R 5
+ 2	R 6

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS			
	NUMBER	SH.	MOD.	2 -
E 34191 2020 3	1	REV.	-	A
" " " 3	2	"	-	A
" " " 1	3	"	-	

ASSEMBLY DRAWING NO. E34191 0020 3

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MRW-B
REV 1 85/022 2
" 14

INGÅR AV EN
A. SO USE. ON
FIRST ANNA
FIRST USED ON
KONTROLLERAD
CHECKED
SKALA
SCALE
UTFÖRD
ISSUED

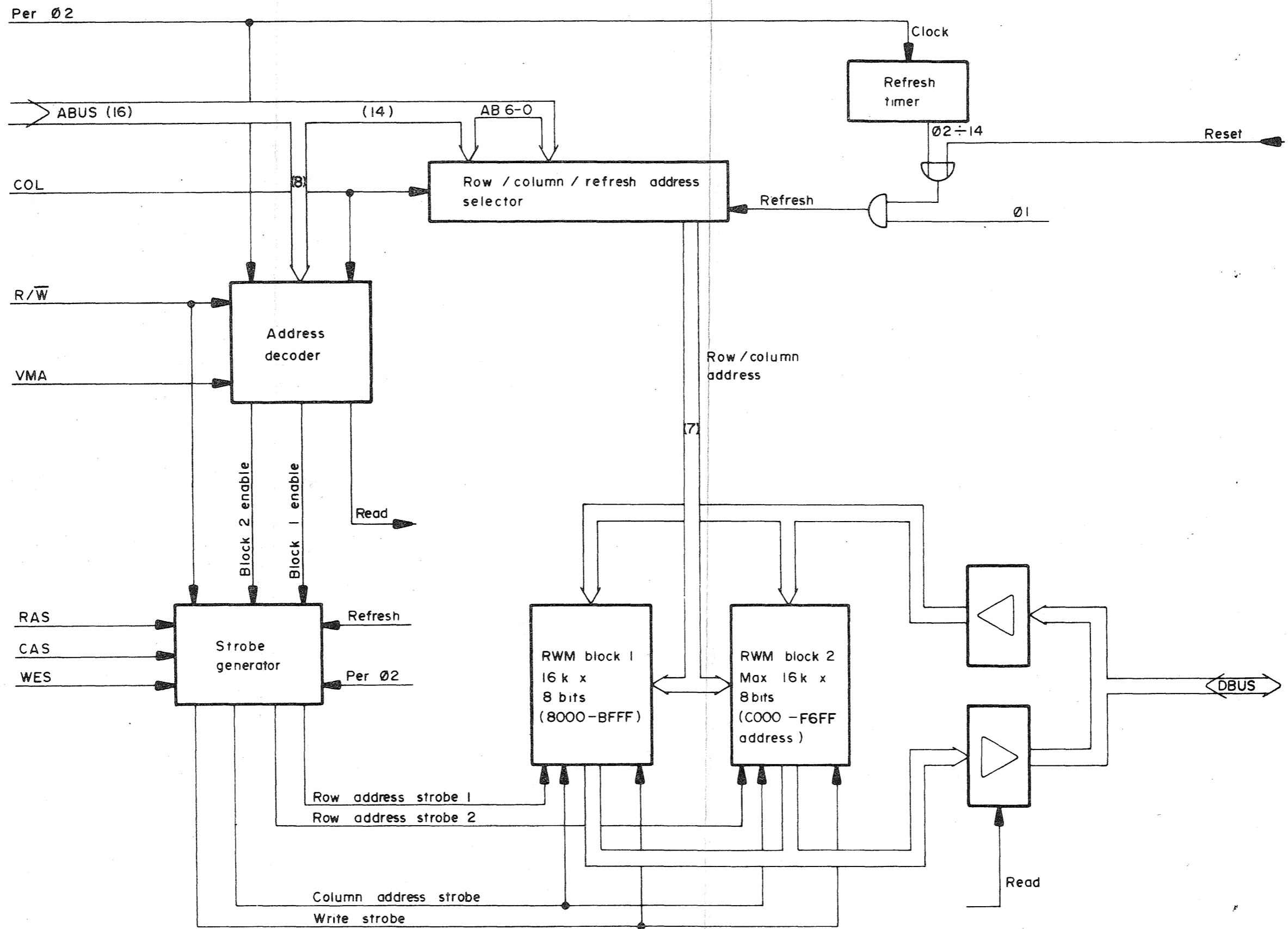
MRW-B 32K

ERICSSON

E34191 2020 3

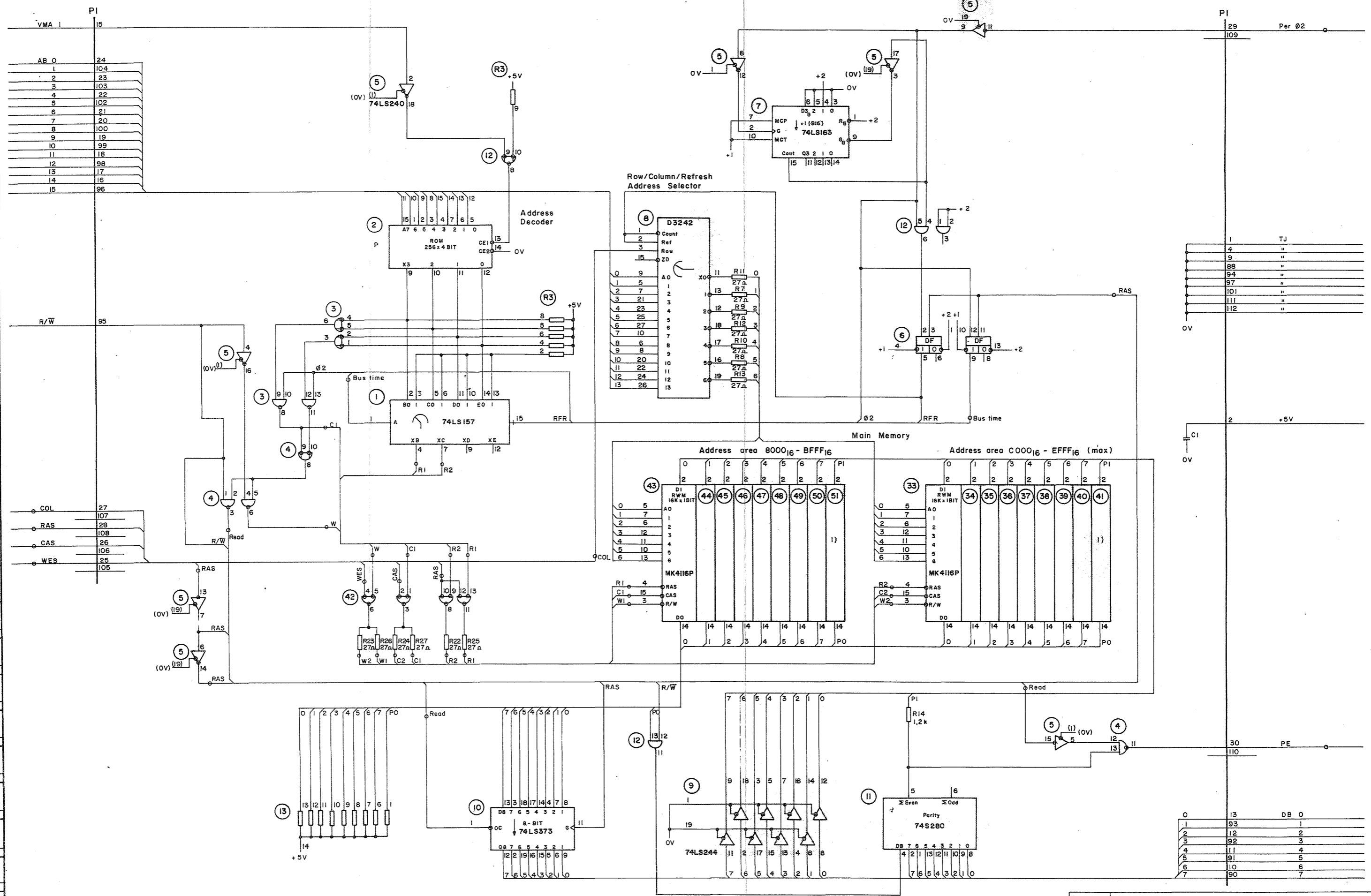
3 BLAD SHEET

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 E34191 2020 3
 MRW - B
 REV 851022
 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



INQUIRY DATE: 8/22/88 BY: RG SCALE: 1:1 ISSUE: 8012 830620	708929 22045 AD	MRW - B Memory Board Read Write B	ERICSSON E 34191 2020 3	3 2
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E34191 2020



VMA	PI
0	24
1	104
2	23
3	103
4	22
5	102
6	21
7	20
8	100
9	19
10	99
11	18
12	98
13	17
14	16
15	96

I	TJ
4	"
9	"
88	"
94	"
97	"
101	"
111	"
112	"

2	+5V
---	-----

0	13	DB 0
1	93	1
2	12	2
3	92	3
4	11	4
5	91	5
6	10	6
7	90	7

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MRW/B

1) Option for parity check
 P = Programming and strapping, see separate documentation
 () = Repeated information

Material		Vibrelagning		Coating	
Måttolerans (Där ej annat anges)		Diameter		Ytfinish	
Tolerans (Om ej annat anges)		Diameter		Surface quality	
Övriga dimensioner		Diameter		SMS 673 R _z	
Övriga dimensioner		Diameter		Mått gäller för vibrelagning	
Övriga dimensioner		Diameter		Dimensions do not include coating	
Urford	22045	Datum	830620	Gröftra kanter	
Utsä	10	Skala		Edges free from burr	
Check		Skala			
Godk		Skala			
Appr		Skala			

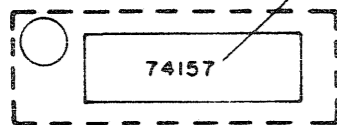
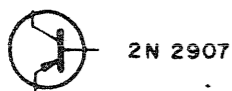
MRW - B 32 K

ERICSSON

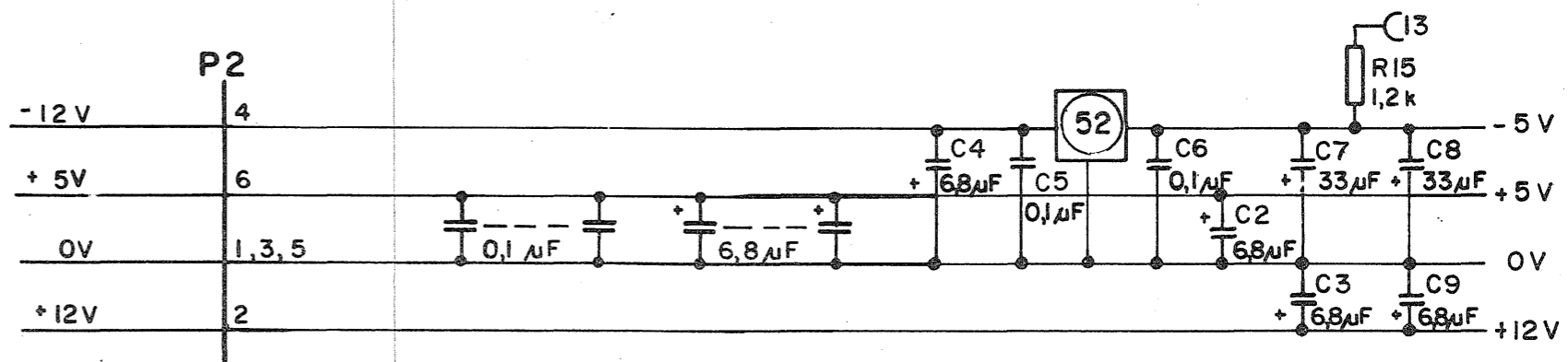
E34191 2020 1 3

13	26
12	25
11	24
10	23
9	22
8	21
7	20
6	19
5	18
4	17
3	16
2	15
14	

TEST POINTS	
NO	SIGNAL
1	
2	
3	
4	
5	Read
6	Write
7	
8	
9	
10	+TTL 1
11	+TTL 2
12	
13	-5V
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
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33	
34	
35	
36	
37	
38	
39	
40	
41	
42	0V



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC 3	74LS00
IC 12	74LS08
IC 42	74S32
IC 4	74LS37
IC 6	74LS74
IC 1	74LS157
IC 7	74LS163
IC 5	74LS240
IC 9	74LS244
IC 11	74S280
IC 10	74LS373
IC 33-41, 43-51	MK4116P
IC 8	D3242
IC 2	ROM256x4BIT
IC 52	µA79M05
R 3	1,2 kΩ
IC 13	6,8 kΩ

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 1	R 5
+ 2	R 6

Example: +1 CONN. TO R
+16 CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS			
NUMBER	SH	MOD.	2	-	
E 34191 2021 3	1	REV.	-	A	
" " " 3	2	"	-	A	
" " " 1	3	"	-	A	

ASSEMBLY DRAWING NO. E34191 0021 3

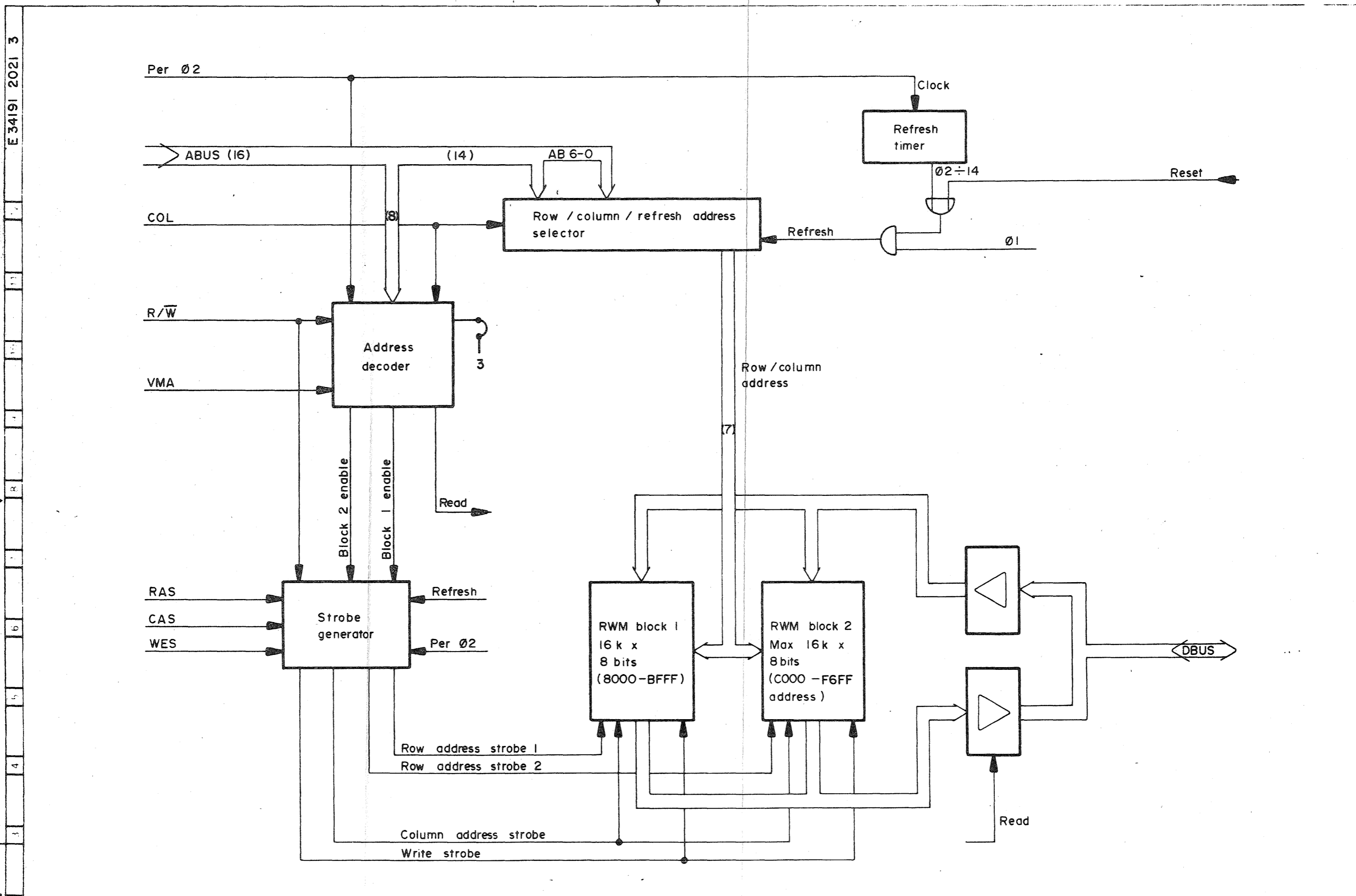
INGÅR I EN A-SÖSETJNING	REVISJON		
FÖRST ANVÄND FÖRST BRUKAD			
RENTOR CHECK	200429 184	22045 AD	
SKILL SÄLJE			
UTGÅVA ISSUED	830620		

MRW - C 32 KB

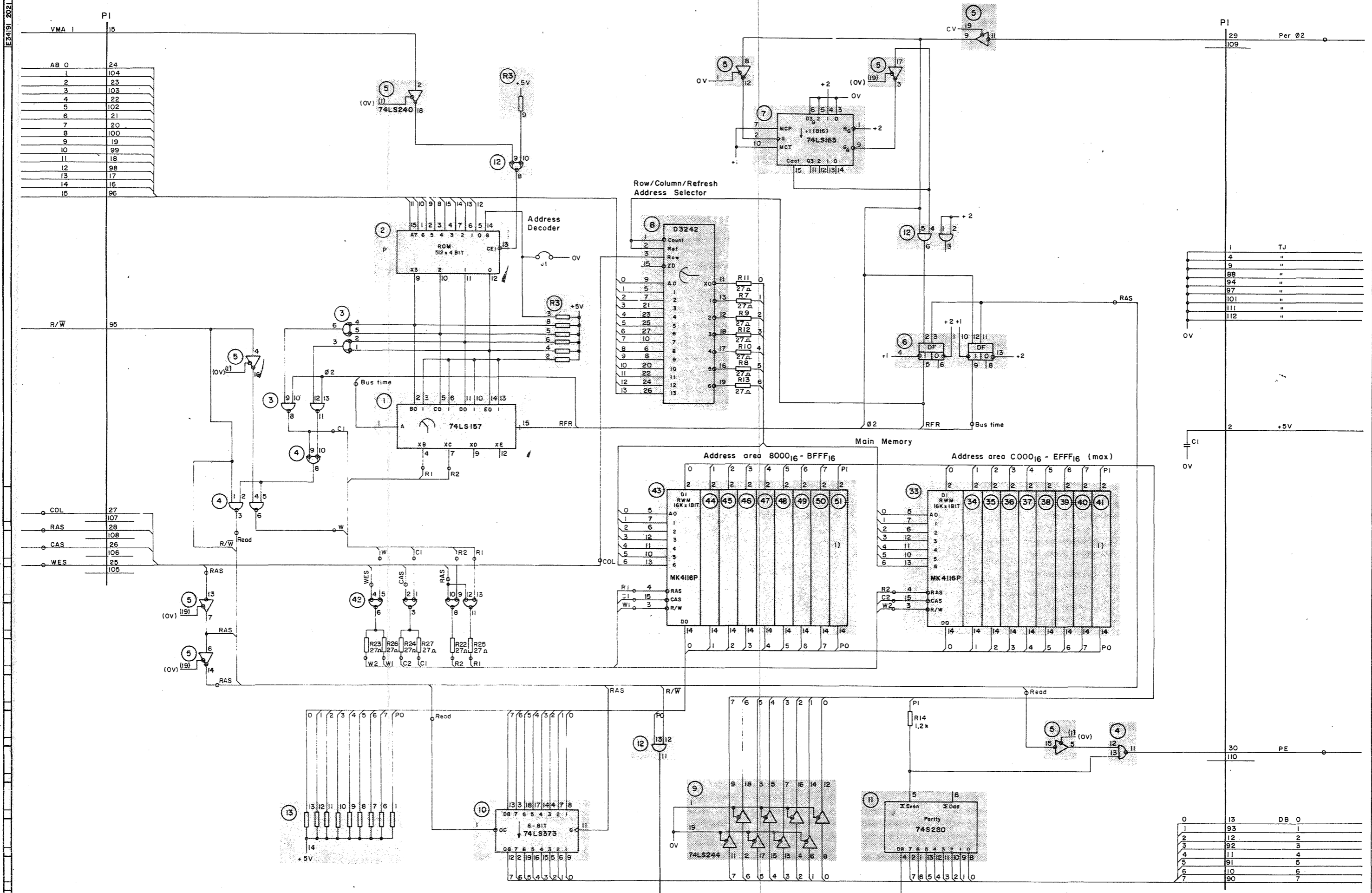
ERICSSON

E34191 2021 3 3 BLAD SHEET 1

Ericsson Information Systems AB
 E 34191 2021 3
 MRW - C
 REV 981022
 INGÅP AVEN
 ALSO USE
 KEY: 922040 708929
 DATE: Rg 7/80
 SCALE: 22045
 UTECH: 8012
 ISSUE: Max 830620
 PER: AD
 3 Bit
 2



INGÅP AVEN ALSO USE		PER: AD		MRW - C Memory Board Read Write C	ERICSSON	E 34191 2021 3	3
KEY: 922040	708929	SCALE: 22045	2				
DATE: Rg		U: 8012					
ISSUE: Max	830620						



I	TJ
4	"
9	"
88	"
94	"
97	"
101	"
111	"
112	"

2	+5V
CI	OV

0	13	DB 0
1	93	1
2	12	2
3	92	3
4	11	4
5	91	5
6	10	6
7	90	7

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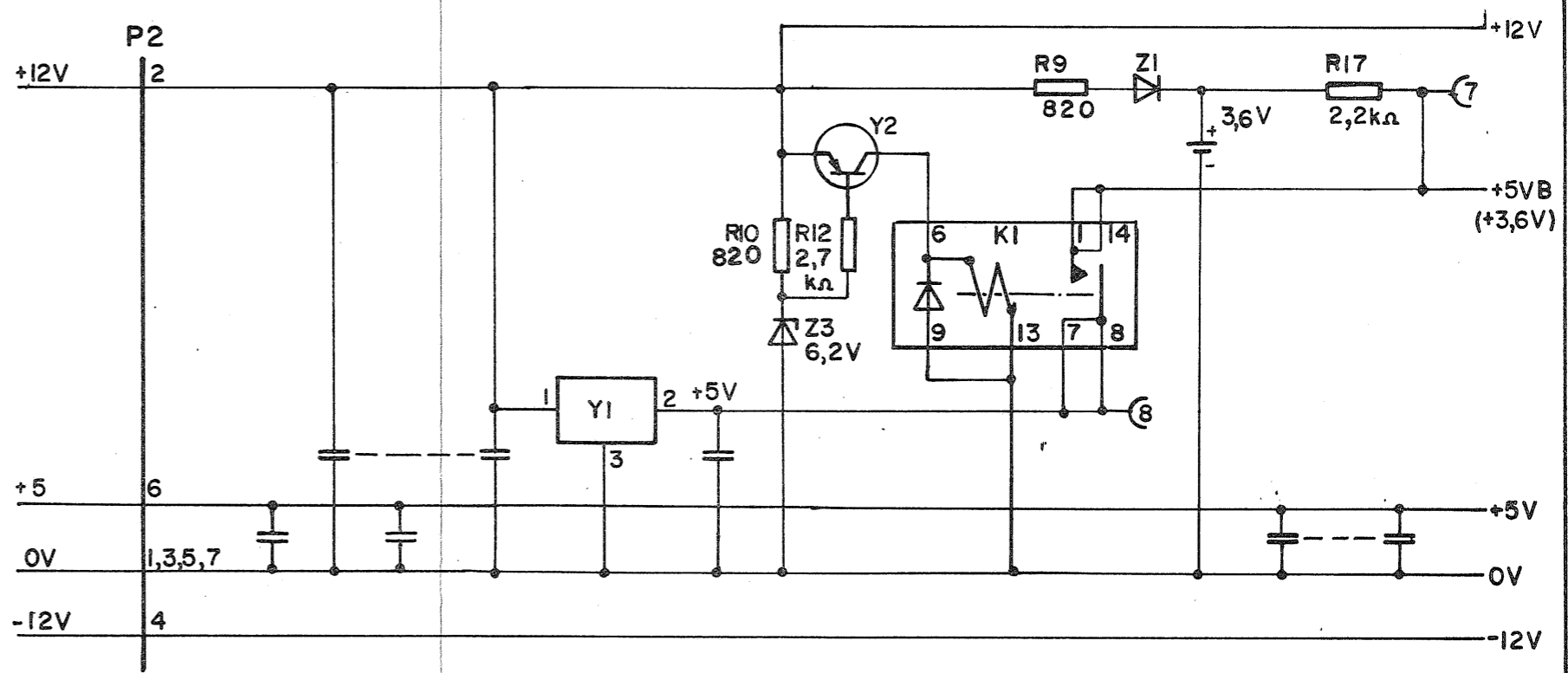
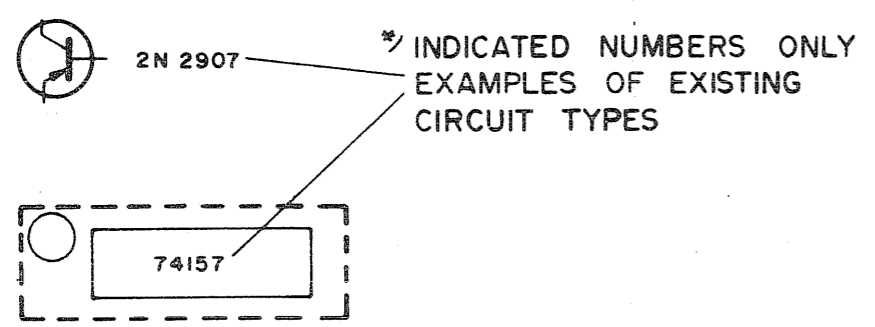
1) Option for parity check
 P = Programming and strapping, see separate documentation
 () = Repeated information

Material		Ytbehandling		Mått	
Ytbehandling	Coating	Måttöppning	Diameter	Ytjämnhet	Surface quality
		(Där ej annat angivits)	Diameters	SMS 873 R _z	µm
Utfordrad	22.04.85	Toleranser	Övriga längdmått	Mått gäller före yttbehandling	Gräddris kantar
Kontroll	AD	(Unless otherwise specified)	Scale	Dimensions do not include coating	Edges free from burr
Godkänn	AD		Skala		
Approv	AD				
MRW - C		32 KB	ERICSSON		
E34191 2021		1	3		

Ericsson Information Systems AB, Sweden.
 MRO 801023 2 830811 3 16 15 14
 REV 1 801023 2 830811 3 16 15 14
 Ericsson Information Systems AB, Sweden.

13	E 34192 2000 3
12	26
11	25
10	24
9	23
8	22
7	21
6	20
5	19
4	18
3	17
2	16
1	15
14	14

TEST POINTS	
NO	SIGNAL
1	
2	
3	Latch
4	Write RWM
5	Ø2 DMA
6	+TTL
7	
8	
9	
10	
11	
12	
13	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	



COMPONENT LIST

NO	TYPE #/
IC2	74 S00
IC 8, 9	74S138
IC3	74LS74
IC 5	74LS240
IC13, 20	74LS244
IC10, 11	74LS245
IC1, 12	74LS373
IC14-19, 21-26	2716
IC6, 7	5101 L-1
IC 4	ROM256x4Bit
Y1	78 L05
Y2, 3	2N2907
Z1	IN4148
Z3	IN 753
Z4	IN 756
K1	Relay 6813-B-32

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 1	R8

Example : +1 CONN. TO R
 +1G CONN. TO IC

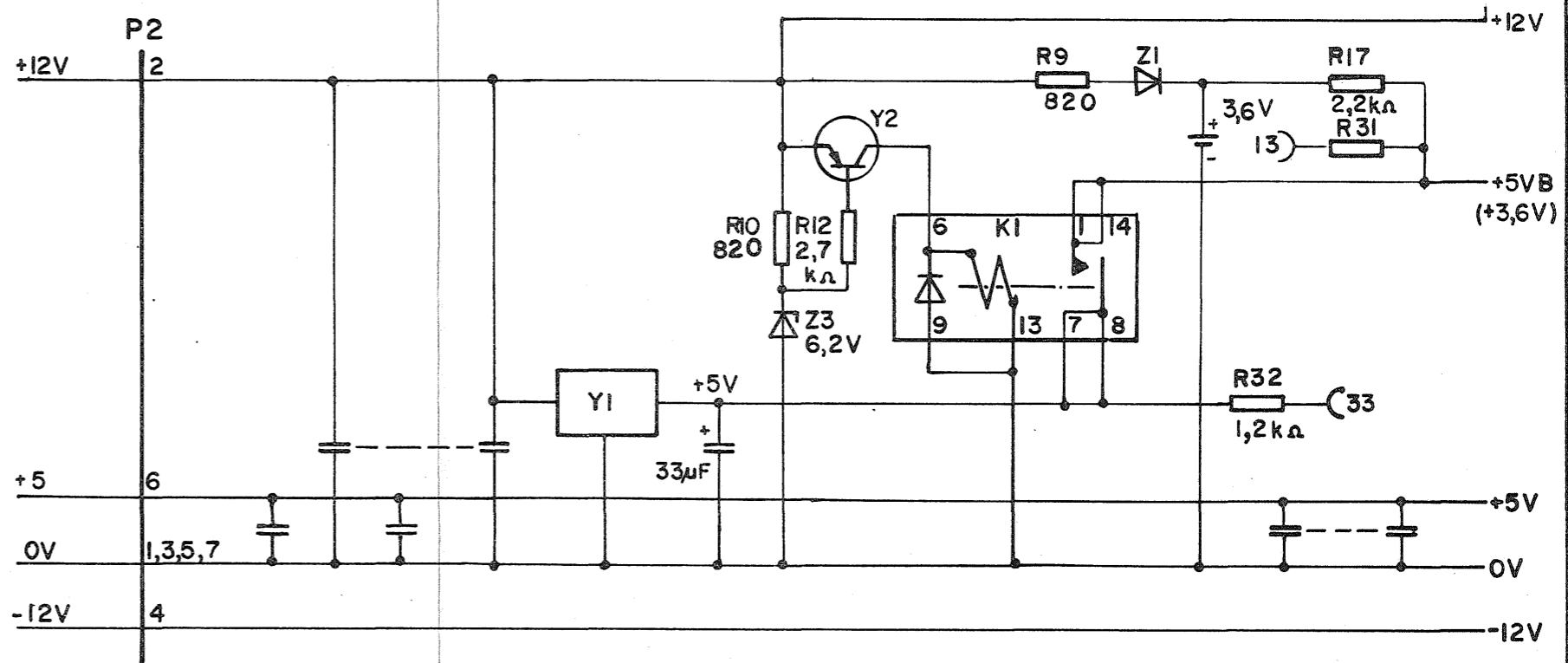
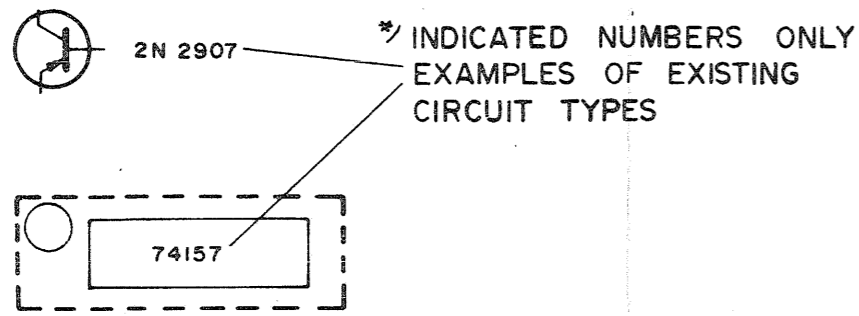
REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS			
NUMBER	SH. MOD.	1	-	-	
E 34192 2000 3	1a	REV.	-	1 2	
"	3	2	"	-	
"	1	3a	"	- 1	
		"	"		
		"	"		
		"	"		
		"	"		
		"	"		
		"	"		
		"	"		

ASSEMBLY DRAWING NO. E 34192 0000 3 sh 1 and 2
VALID FOR PCB , LAYOUT NO 0

FIRST ANVAND FIRST USED ON KONTR CHECK SKALA SCALE UTFORD ISSUED	8359 0673 1-b 790409	GOD- APPROV KOP ER COPY ED	MRO Memory board read only	ERICSSON E 34192 2000 3	3 BLAD SHEET 1a
---	-------------------------------	-------------------------------------	-------------------------------	-----------------------------------	--------------------------

TEST POINTS	
NO	SIGNAL
1	
2	
3	Latch
4	Writes RWM
5	Ø2 DMA
6	+TTL
7	
8	
9	
10	
11	
12	
13	+5VB (3,6 V)
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	+5V Stab



COMPONENT LIST

NO	TYPE #/
IC2	74 S00
IC 8, 9	74 S138
IC3	74LS74
IC 5	74LS240
IC13, 20	74LS244
IC10, 11	74LS245
IC 1, 12	74LS373
IC 14-19, 21-26	2716
IC 6, 7	5101 L-1
IC 4	ROM256x4Bit
Y1	78 L05
Y2, 3	2N2907
Z1	IN4148
Z3	IN 753
Z4	IN 756
K1	Relay 6813-B-32

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 1	R8

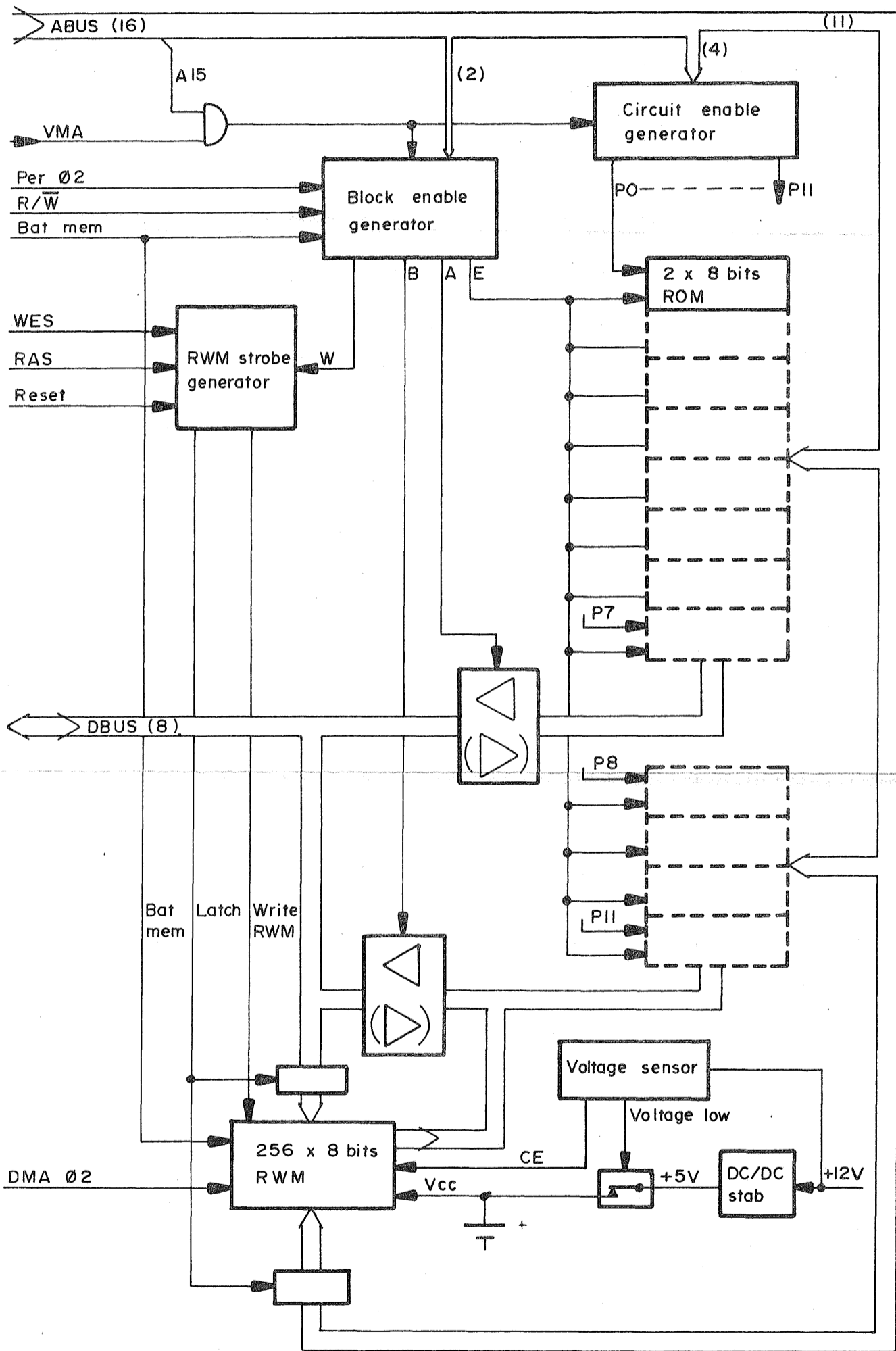
Example : +1 CONN. TO R
 +1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS			
	SH. MOD.	1	2	3
NUMBER				
E 34192 2000 3	1b	REV.	- 1 2 3	
" " " 3	2	"	-	
" " " 1	3b	"	-	2

ASSEMBLY DRAWING NO. E 34192 0000 3 sh 3
VALID FOR PCB, LAYOUT NO 1

MRO											
REV 1	2	3	4	5	6	7	8	9	10	11	12
											E34192 2000 2



8558
9776 MG 800125

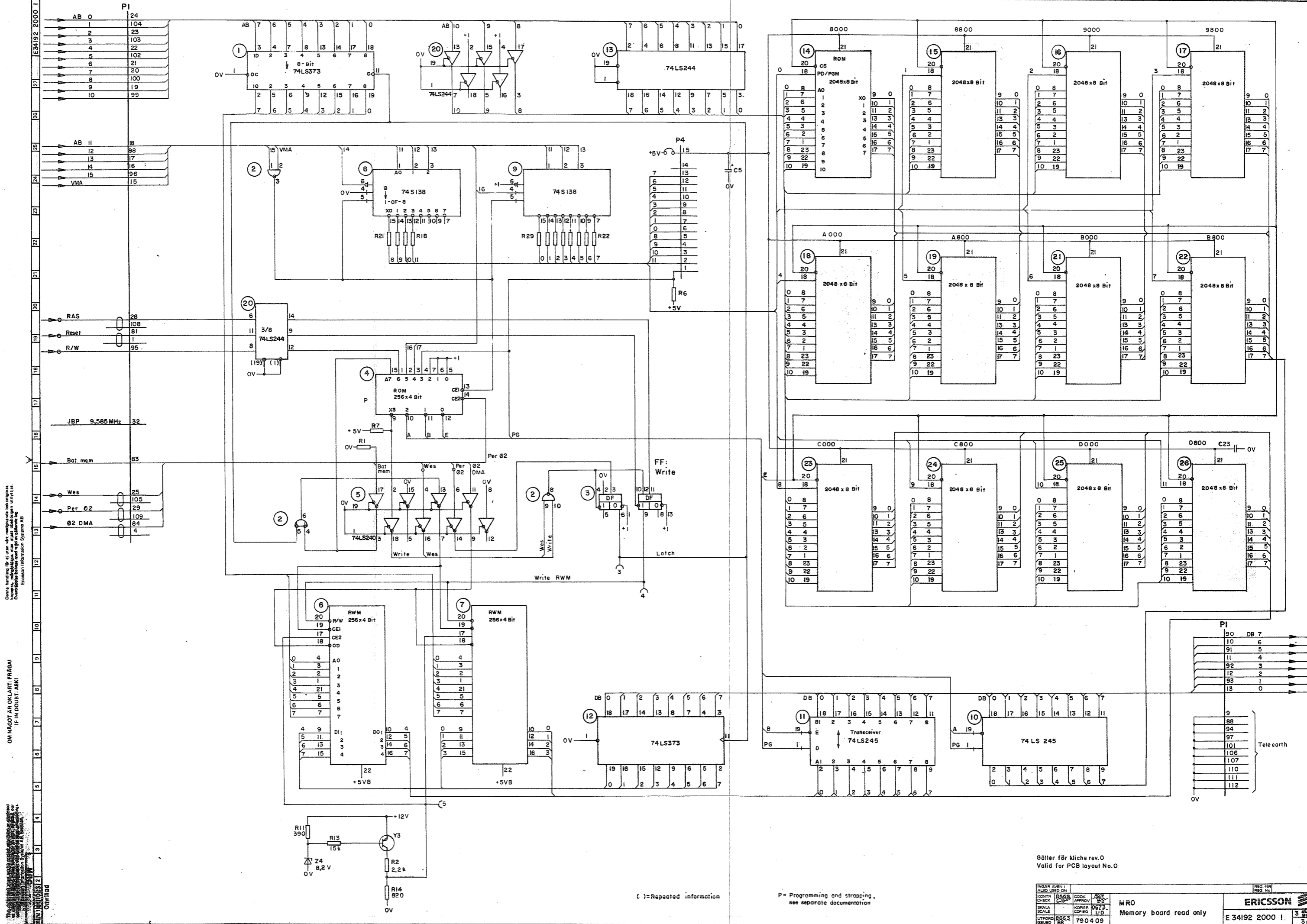
8902
9328 GM

MRO
Memory Board Read Only

ERICSSON

E34192 2000 3

3
2



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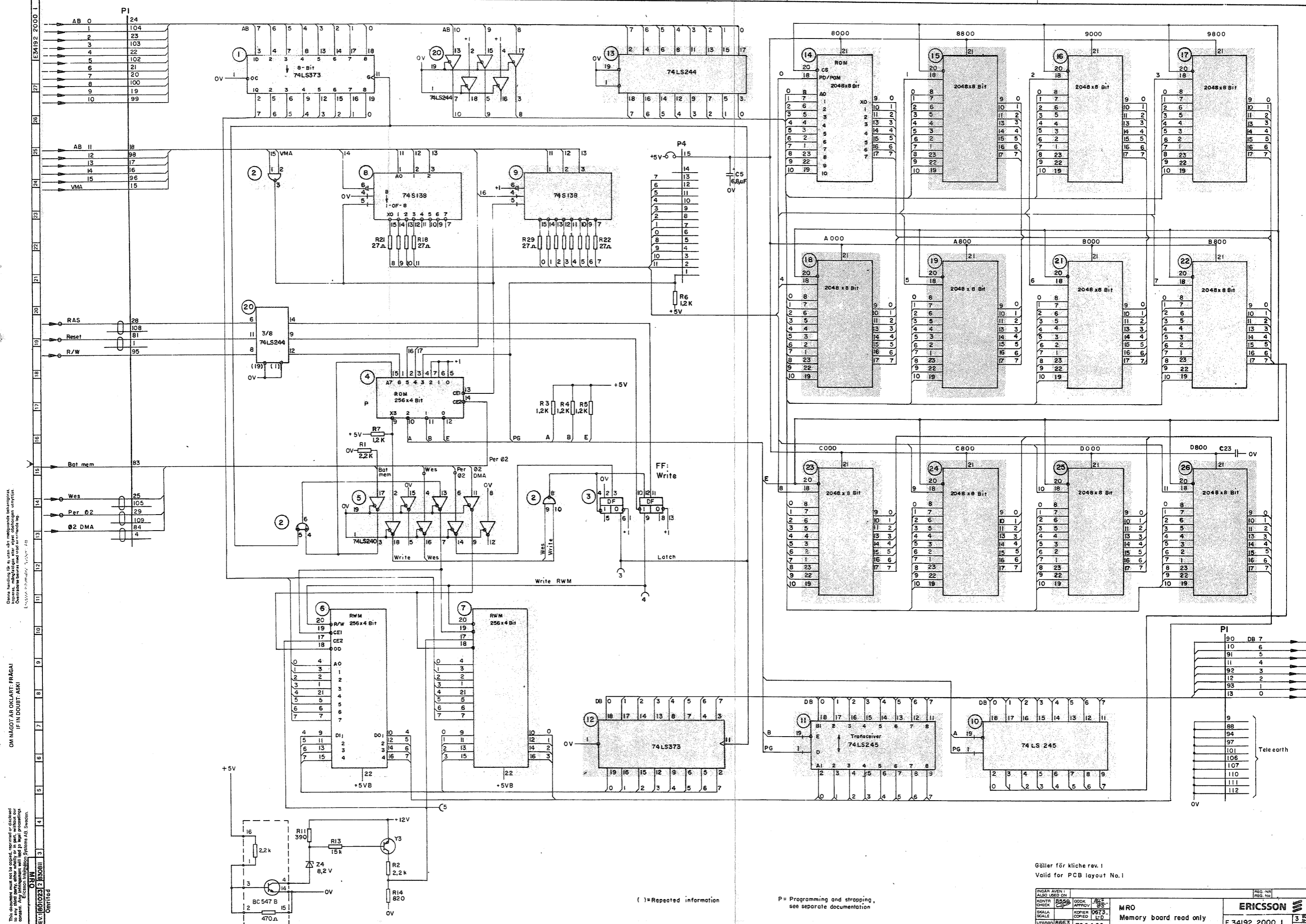
OM NÅGOT ÄR OKLART: FRÅGA! IF IN DOUBT: ASK!

Omfattning: 1/10/85/23/12/1

Gäller för kliche rev.0
Valid for PCB layout No.0

()=Repeated information
P= Programming and strapping, see separate documentation

INGÅR AVEN I KONTROLL CHECKED	8508	COOK APPROVED	8508	REG. NR REG. NO.	
SKALA SCALE	1:1	KOPIER COPIED	0673	MRO	ERICSSON
UTFÖRD ISSUED	8508	790409		Memory board read only	E 34192 2000 I. 3



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OM NÅGOT AV OVKLART FRÅGAN
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() = Repeated information

P = Programming and strapping,
see separate documentation

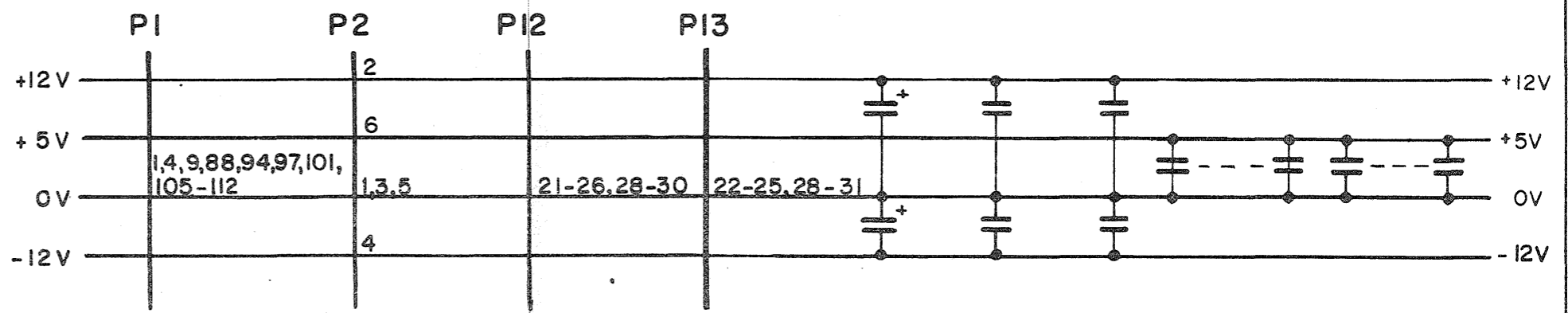
Gäller för kliche rev. 1
Valid for PCB layout No. 1

ANVAR AVEN I ALSO USED ON	REG. NR. REG. NO.
KONTROLL CHECK	DATE DATE
SKALA SCALE	KOPIER COPIED
UTGIVNING ISSUED	79 04 09
MRO	Memory board read only
ERICSSON	
E 34192 2000 1	3 3b

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13	26
12	25
11	24
10	23
9	22
8	21
7	20
6	19
5	18
4	17
3	16
2	15
1	14

TEST POINTS	
NO	SIGNAL
1	TXCLK INHIBIT
2	RDLA
3	G3/I
4	LINE ACTIVITY
5	RSET
6	TXD
7	TRANSMITTED DATA
8	RTS
9	INT RSET
10	DATA TERMINAL READY
11	RECEIVED DATA
12	RD+
13	RD-
14	
15	
16	
17	
18	
19	
20	
21	+TTL 4
22	TDLA
23	TDLA
24	DATA TO PRINTER
25	TSET
26	BUSY
27	
28	READY A
29	READY FOR SENDING
30	PARITY ERROR
31	TD-
32	READY B
33	TD+
34	
35	
36	
37	
38	
39	
40	
41	
42	



COMPONENT NUMBERS:
SEE ASSEMBLY DRAWING

COMPONENT LIST

NO	TYPE */
IC14	74LS00
IC9 (IC4*)	74LS04
IC13	74LS08
IC24	74LS32
IC22	74LS74
IC8,12	74LS125
IC16	74LS157
IC3	74LS245
IC21	74393
IC6,11	75168
IC1	ROM 32x8
IC18	68A21
IC5	68A40
IC23	68A50
IC15	LH0002CH
IC10,19	1489
IC17	96L02
IC25	NE555
IC2,7	4N33
R16	4,7 kΩ
R18	10 kΩ
Z1	KS79001
Z2,3	IN4148

*) = VALID FOR PCB LAYOUT NO. 0

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+ 4	R16/3

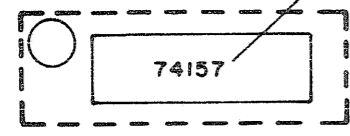
Example: +I CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS					
NUMBER	SH. MOD.	2	3	4	5	6	
E34193 2000 3	1 REV.	-	1	2	3	4 5 6	
"	2	2	"	-	-	-	
"	1	3a	"	-	1	2 3 4 5	
"	1	3b	"	-	1	2 3 4 5	
"	"	"	"	"	"	"	
"	"	"	"	"	"	"	
"	"	"	"	"	"	"	
"	"	"	"	"	"	"	
"	"	"	"	"	"	"	
"	"	"	"	"	"	"	

ASSEMBLY DRAWING NO. E34193 0000 3

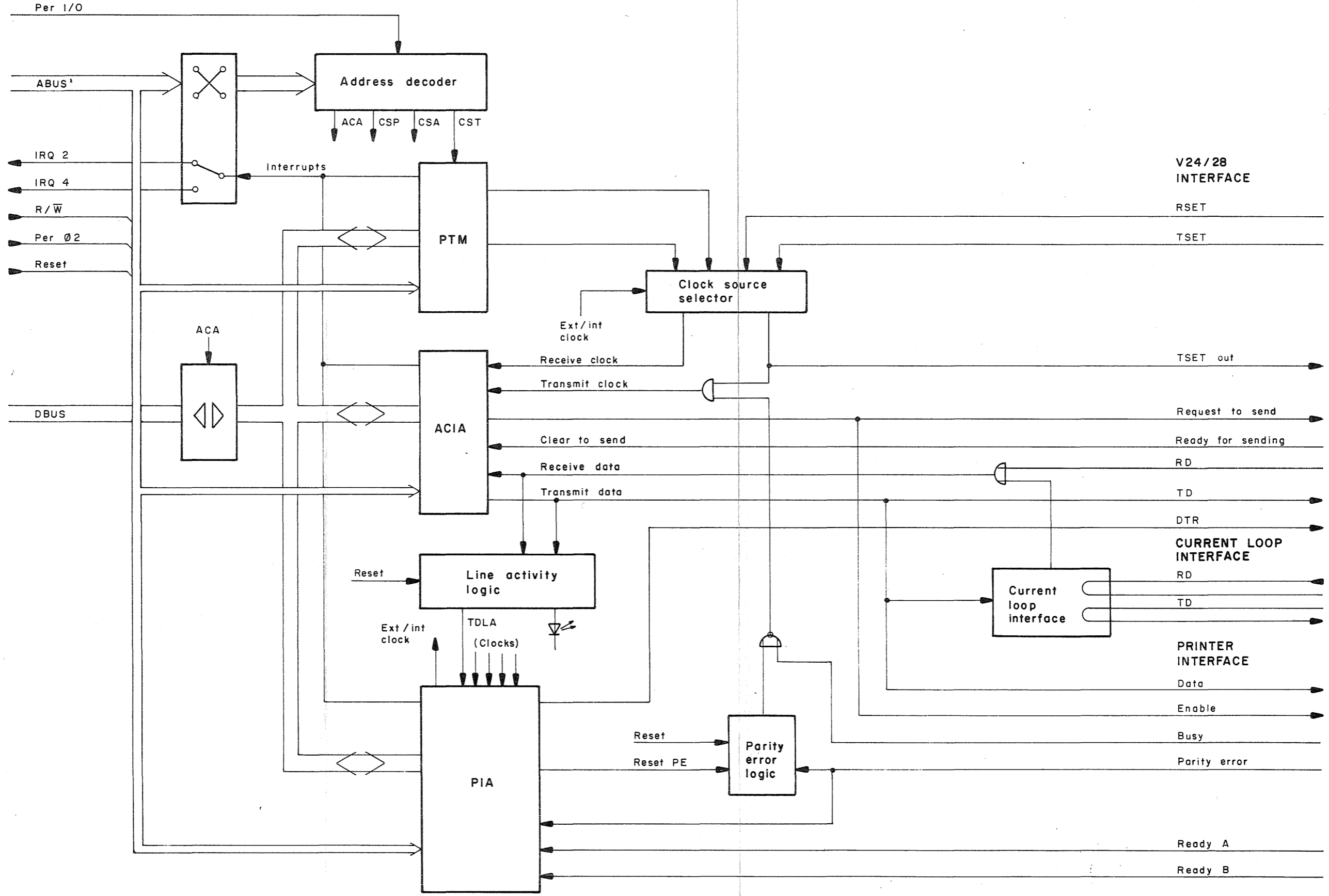
2N 2907
*) INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



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INGÅR ÄVEN ALSO USED ON	REG. NO. REG. NO.	ACA Asynchronous Communication Adapter	ERICSSON	E34193 2000 3	3 BLAD SHEET
FÖRST ANVÄND FIRST USED ON	8559 9528 790816				
KONTR. CHECKED SWAFA STÅLE	8559 9528 790816	Ericsson Information Systems AB, Sweden.			

MICRO COMPUTER (DTC) INTERFACE



Lenna handling för att användas i andra verktyg utan tillstånd från Ericsson Information Systems AB, Sweden.

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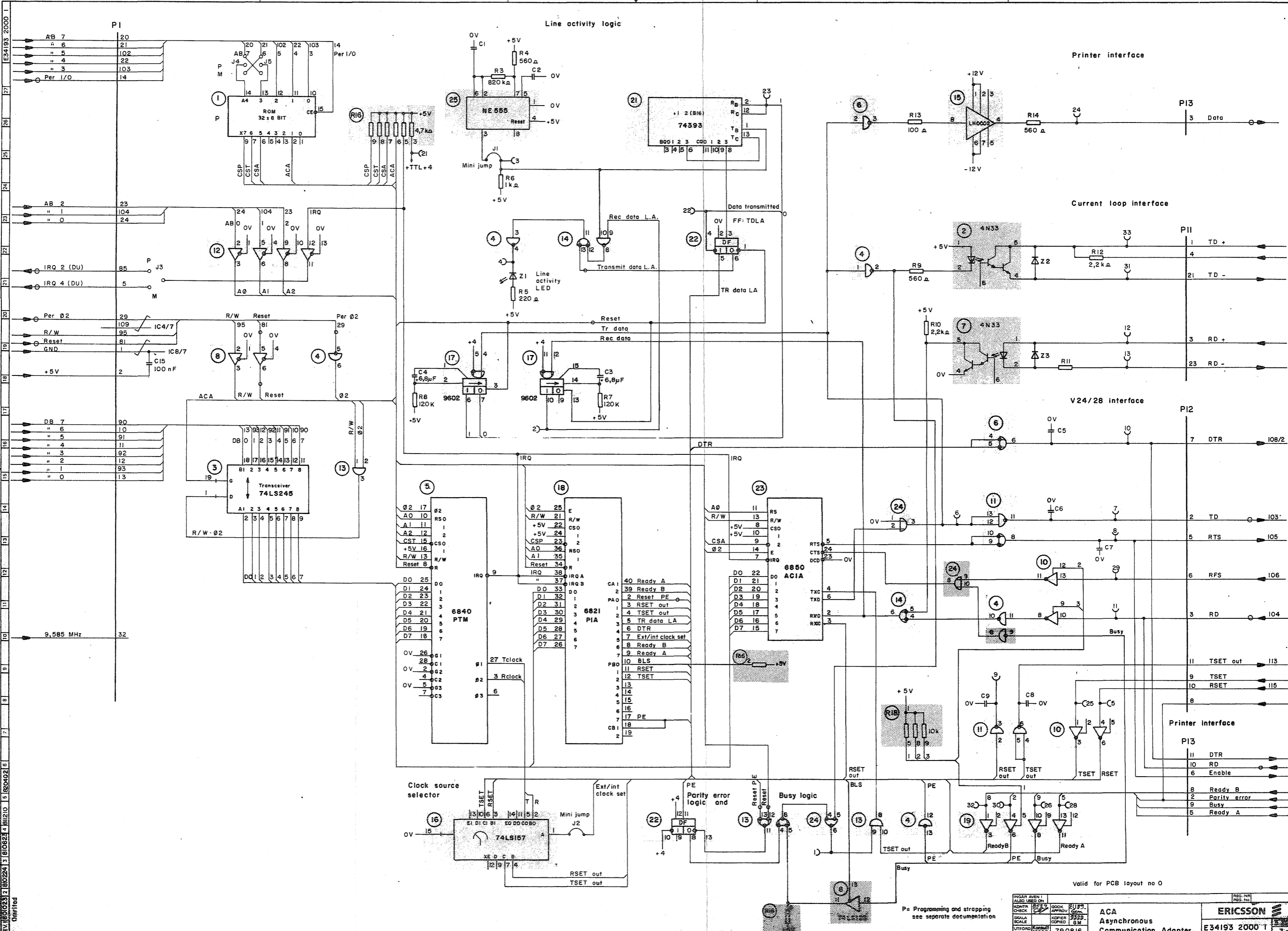
REV. 1 2 3 4 5 6 7 8 9 10 11 12

INGÅR ÄVEN I ALSO USED ON		REG-NR REG. No.
KONTR CHECK	8559	GODK APPROV
SKALA SCALE		KOPIER COPIED
UTFORD ISSUED	09776 MG	790816
ACA Asynchronous Communication Adapter		ERICSSON
E34193 2000 2		3 BLAD SHEET
		2

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Valid for PCB layout no 0

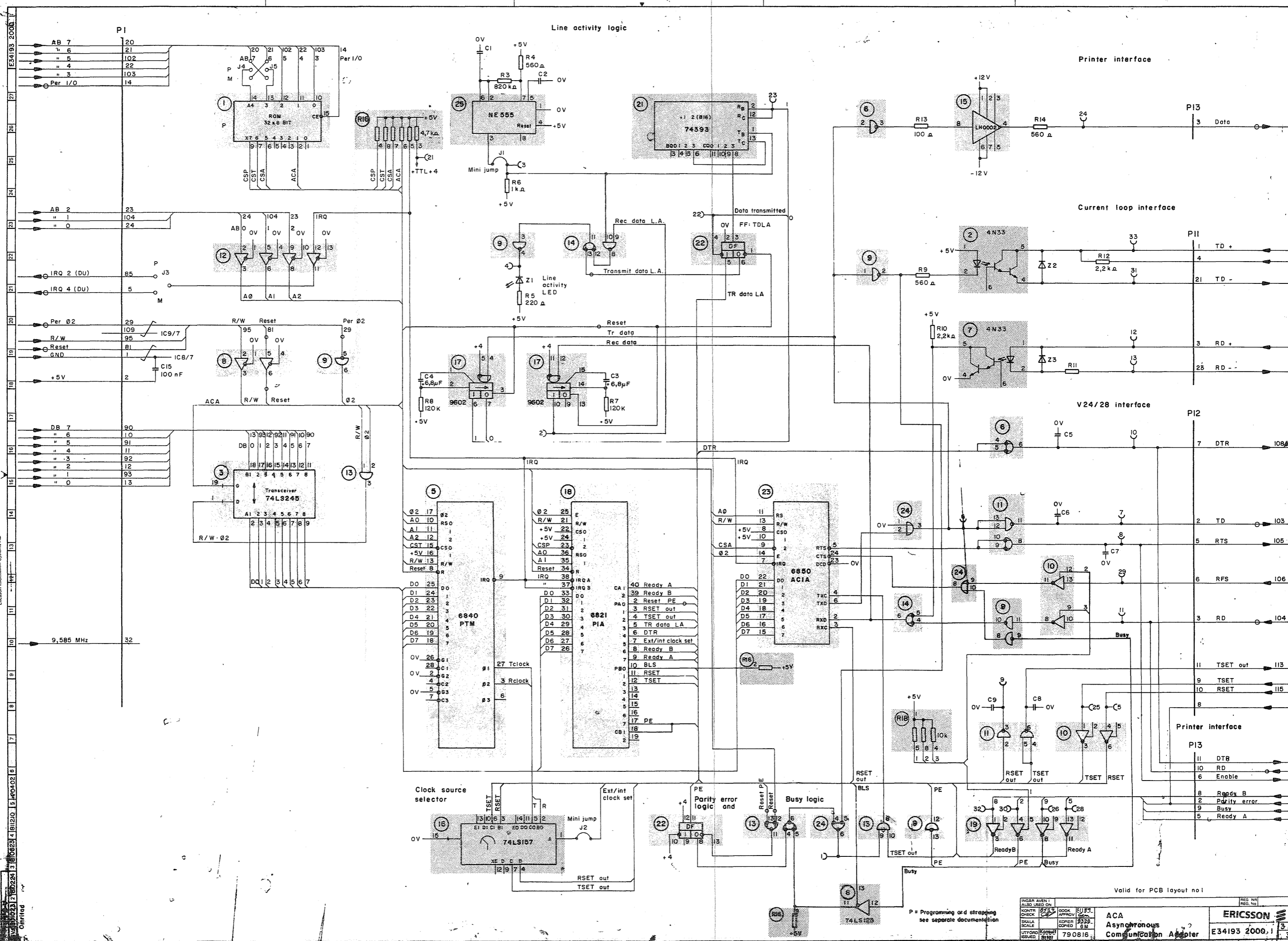
P = Programming and strapping
see separate documentation

INSTR AVEN CHECK	DATE	BY	APPROV	REV. NR
SCALE	1:1	790816	6 M	E34193 2000 1
UPPDR	790816	6 M	790816	3a
ACA Asynchronous Communication Adapter			ERICSSON	

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OM NAGOT AR OKLART: FRÅG- I F IN DOUBT: ASK!

Ericsson Information Systems AB

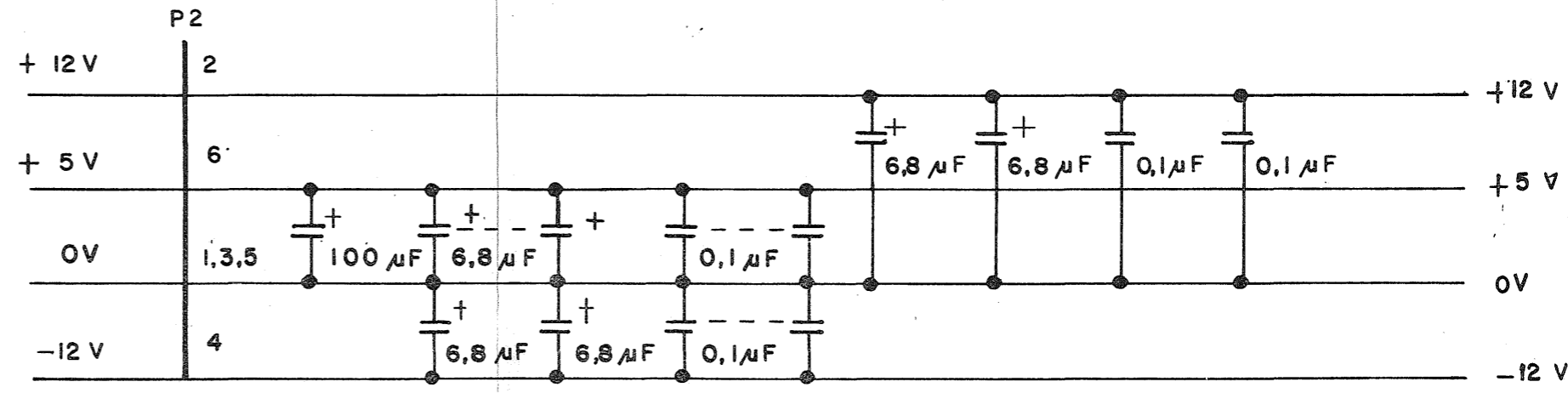


Valid for PCB layout no 1

P = Programming and strapping see separate documentation

INGÅR AVEN I ALSO USED ON	KONTR CHECK	SKALA SCALE	UTFÖRD ISSUED	REG. NR. REG. NO.
8535	8535	1:1	790816	
AKA Asynchronous Communication Adapter	ERICSSON	E34193 2000.1	3b	

TEST POINTS			
NO	SIGNAL		
1			
2			
3			
4			
5			
6			
7			
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10			
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33			
34			
35			
36			
37			
38			
39			
40			
41			
42	0V		



COMPONENT LIST

NO	TYPE #/
IC26	74LS00
IC6, 22	74LS02
IC29	74LS04
IC15, 31	74LS08
IC11	74LS11
IC25	74LS32
IC32	74LS74
IC21	74S86
IC5, 14	74LS125
IC4	74LS138
IC28	74LS157
IC9	74LS245
IC18, 24	MC1488
IC17, 23, 34	MC1489A
IC20	68A21
IC19	68A50
IC33	4060
IC27	4538
IC7, 12	MPQ 2222
IC8, 13	MPQ 2907
IC2, 3	4N26
Z1	MV 5753

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

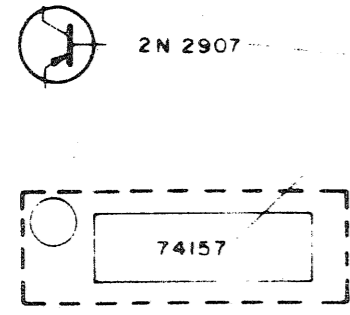
NO	POS / PIN

Example : +I CONN. TO R
 +IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING NUMBER	STATUS			
	SH	MOD.	I	
E34193 2010 3	1	REV.	1	
	2			
	1	3		
	1	4		

INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



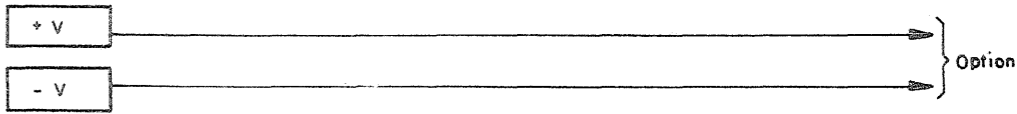
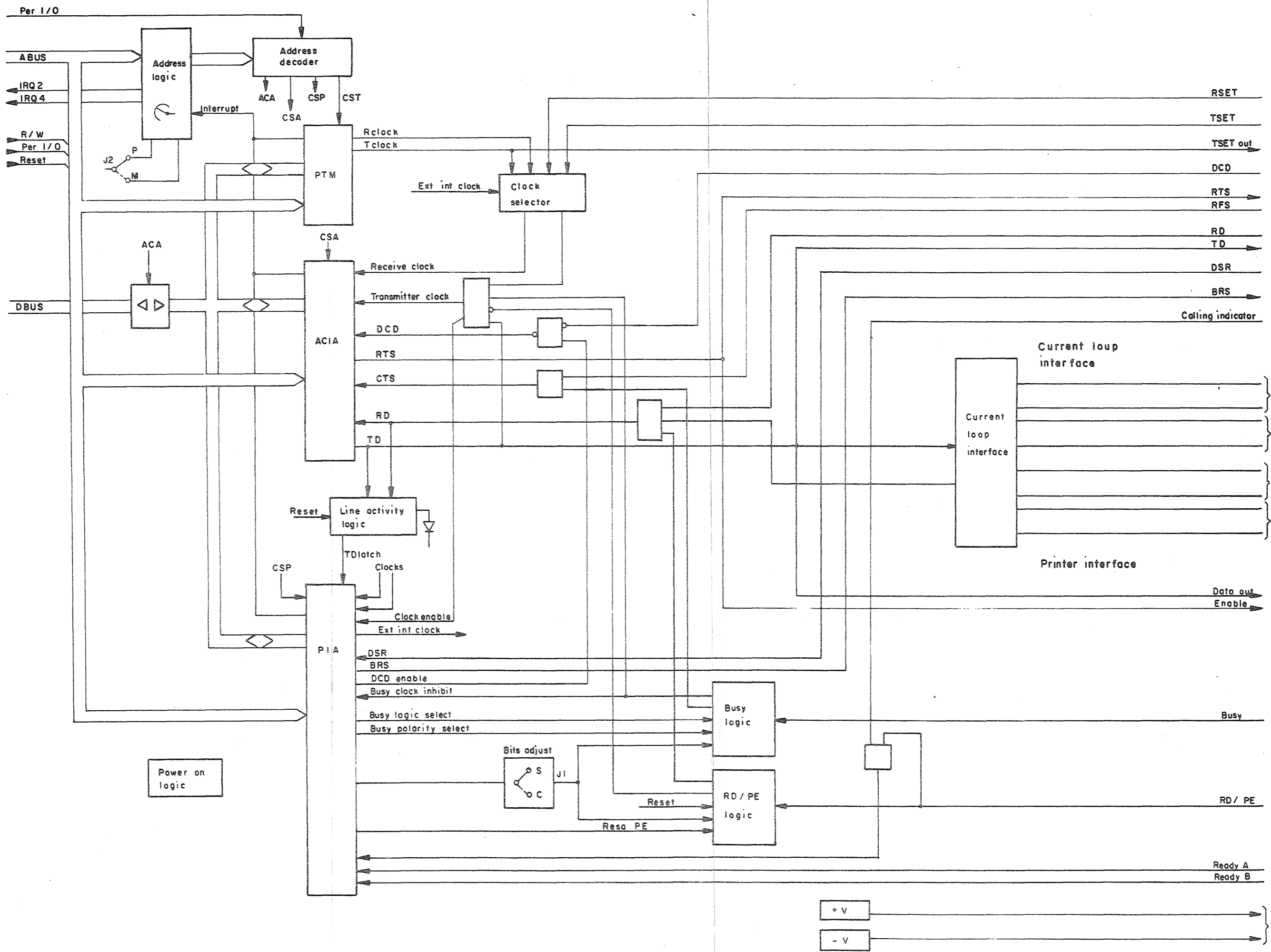
ASSEMBLY DRAWING NO. E 34193 0010 3

<p>REV. 1 830511 2 15</p> <p>REV. 1 830511 2 15</p>	<p>ACA - A Asynchronous communication adapter</p>	<p>ERICSSON</p> <p>E34193 2010 3</p>
		<p>4 BLAD SHEET</p>

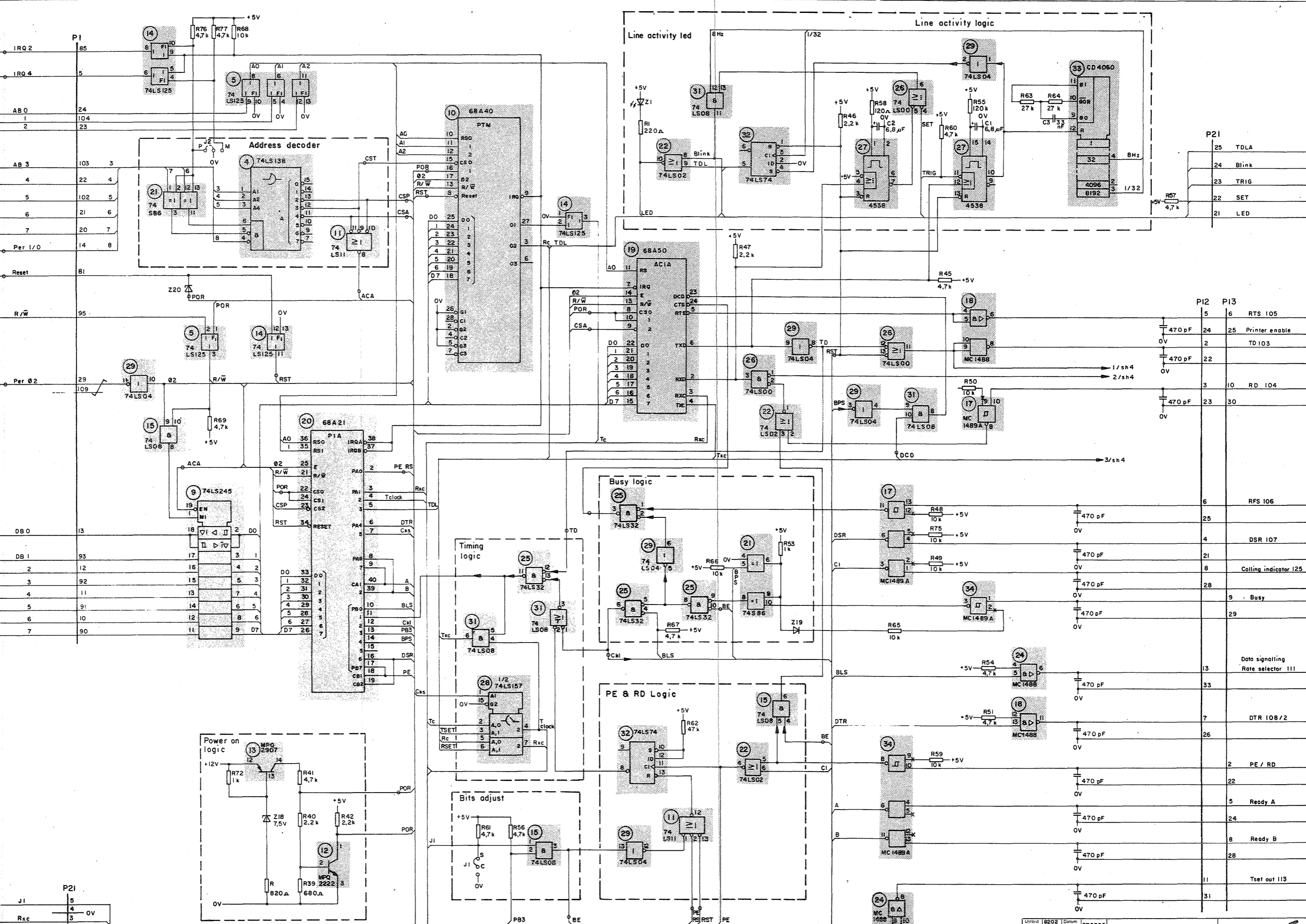
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V - ACA



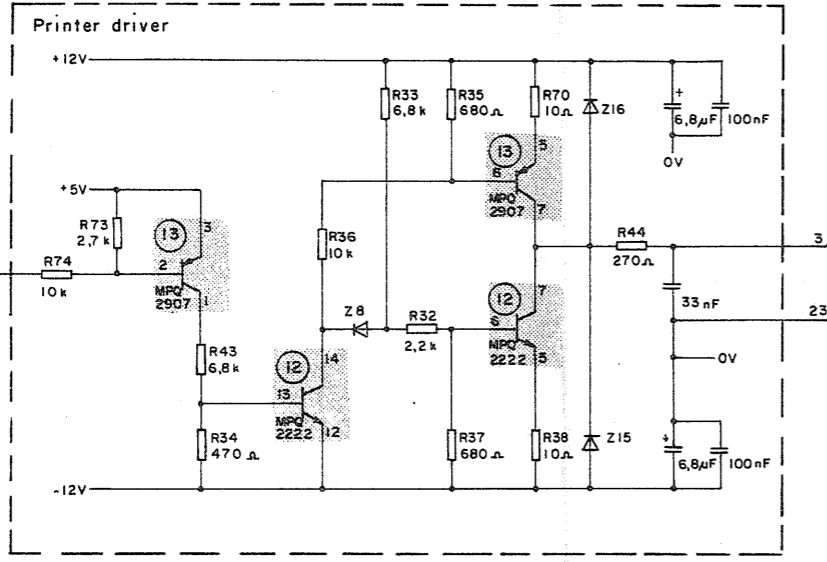
Utförd Issued	8202 A s n	Datum Date	831208	ACA - A Asynchronous communication adapter	ERICSSON
Kontr Check	1402	Skala Scale			
Godk Approv	208129	62673 L'D			
				E 34193 2010 2	4 Blad Sheet
					2



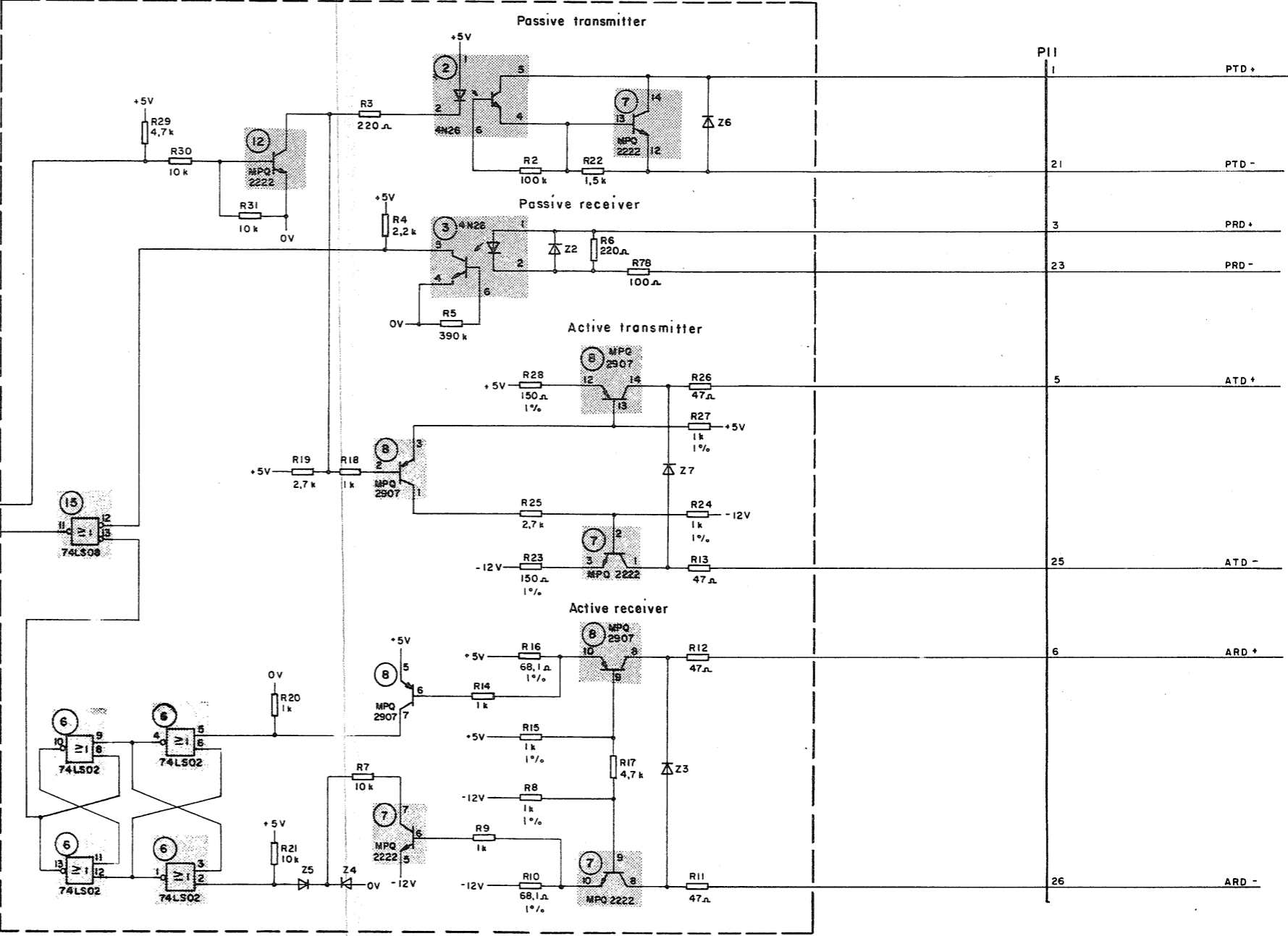
E 34193 2010 1

P13
Datg out 3
23

Line activity logic



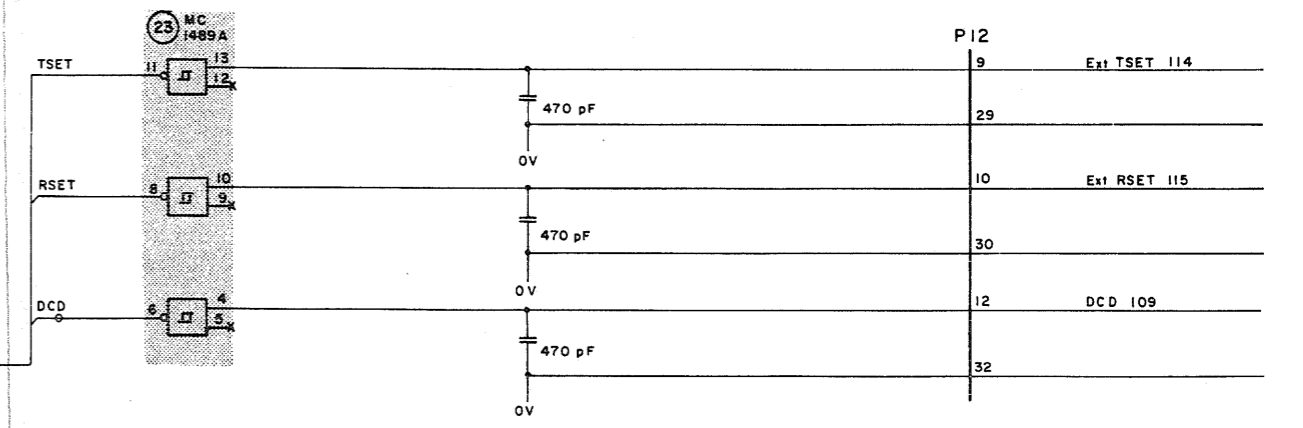
Current loop circuits



P11	1	PTD +
	21	PTD -
	3	PRD +
	23	PRD -
	5	ATD +
	25	ATD -
	6	ARD +
	26	ARD -

1/sh 3
2/sh 3

3/sh 3



P12	9	Ext TSET 114
	29	
	10	Ext RSET 115
	30	
	12	DCD 109
	32	

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ACA - A
11 830311 2 850319

Material			
Ytbeläggning			
Coating			
Måttolerans (Där ej annat angivits)	Diametrar	Ytjämnhet	SMS 873 R ₃ μm
Tolerances	Other dimensions	Surface quality	
(Unless otherwise specified)		Mått gäller före ytbeläggning	
		Dimensions do not include coating	
Utförd	Datum	830509	
Issued	Date		
Kontroll	Skala	ACA - A	
Checked	Scale	Asynchronous communication adapter	
Godkänn	62673	ERICSSON	
Approved	L-D	E34193 2010 1	
		4 Blad / 4 Sheets	

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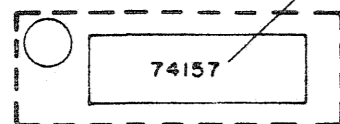
REV 1		14	E 34193 2100 3		26
REV 2		15	12	25	
REV 3		16	11	24	
REV 4		17	10	23	
REV 5		18	9	22	
REV 6		19	8	21	
REV 7		20	7	20	

TEST POINTS	
NO	SIGNAL
1	Tx Clock (TTL)
2	
3	Rx Clock (TTL)
4	0V
5	
6	
7	
8	
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12	
13	
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39	
40	
41	
42	0V

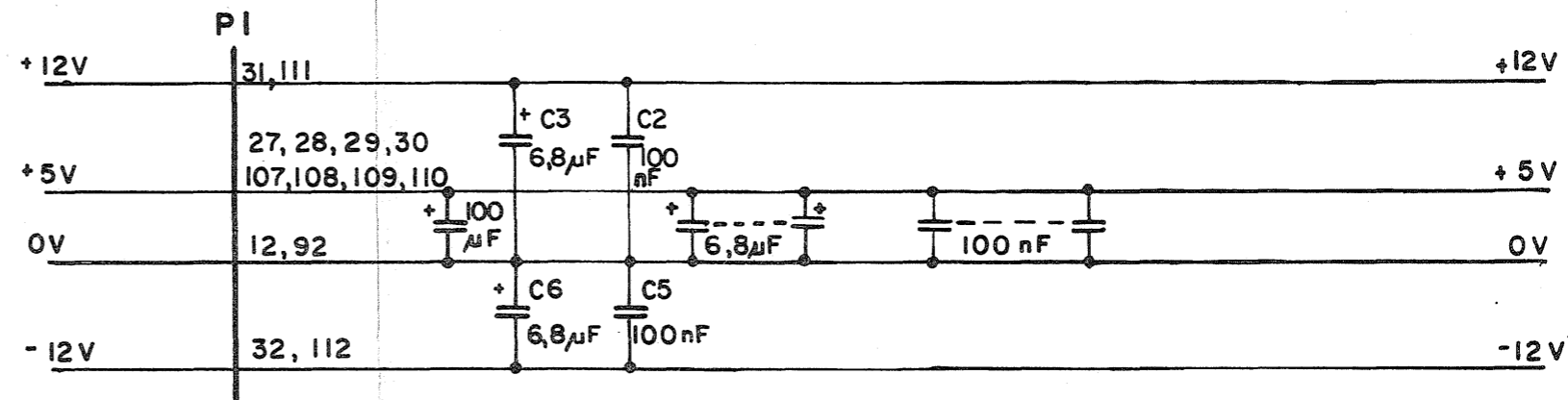


2N 2907

* INDICATED NUMBERS. ONLY EXAMPLES OF EXISTING CIRCUIT TYPES



74157



COMPONENT LIST

NO	TYPE */
IC11	74LS04
IC10	74LS08
IC12	74LS11
IC14	74LS32
IC18	74LS74
IC18	74LS86
IC13	74LS138
IC9	74LS245
IC17	MC1488
IC21	MC1489 A
IC6	68A21
IC8	68A40
IC7	68A50
IC15	MPQ 2222
IC16	MPQ 2907
Z9	BZX55C
Z5,7,8,13	IN4148
Z1	BYV10-30

NOT USED INPUTS CONNECTED TO HIGH LEVEL (+5V)

NO	POS / PIN

Example : +I CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS	
NUMBER	SH. MOD.		
E 34193 2100 3	1 REV. 1		
"	2		
"	3		

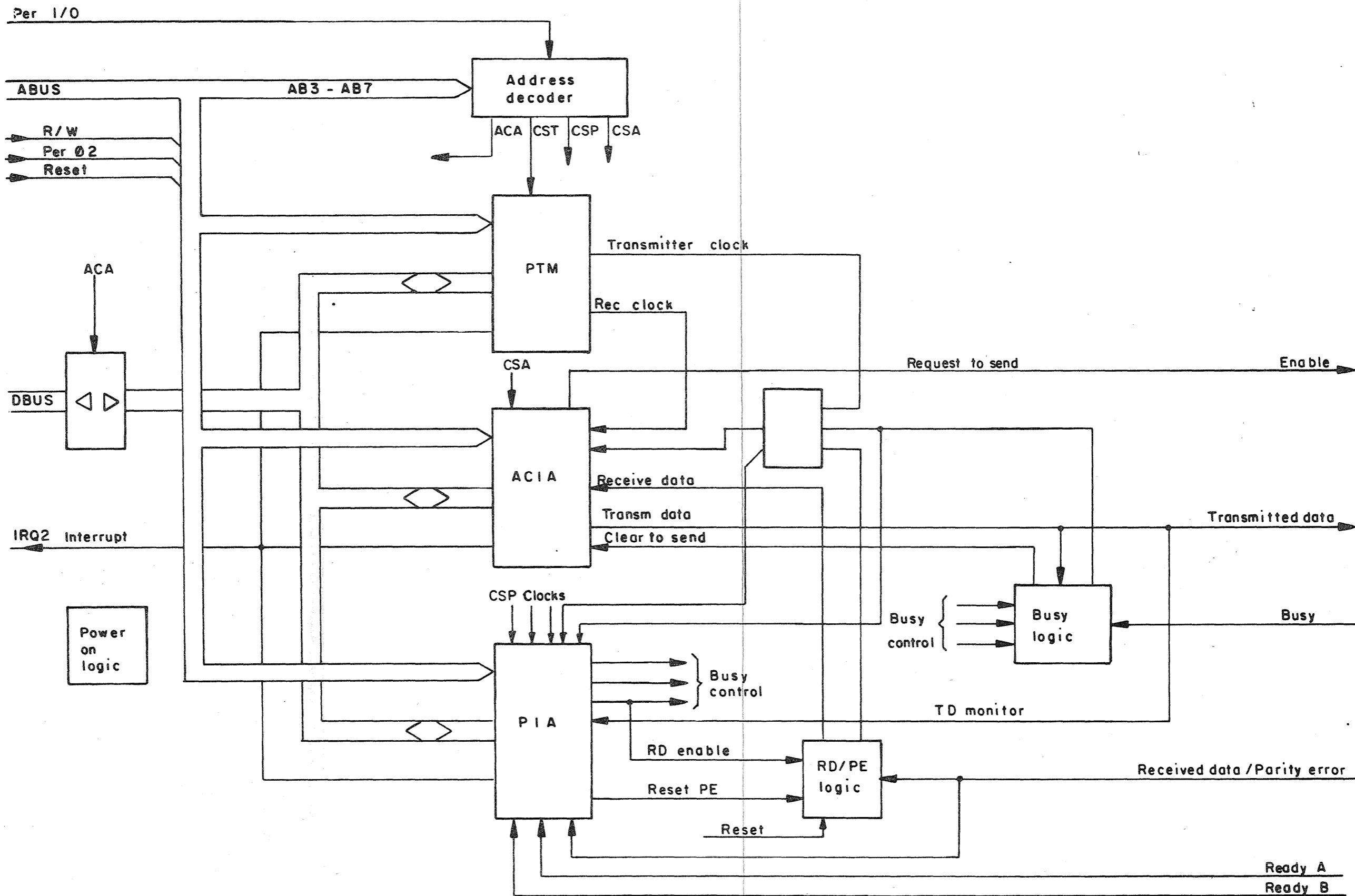
ASSEMBLY DRAWING NO. E 34193 0100 31

8202	820217	ACA-B Asynchronous communication adapter	ERICSSON E 34193 2100 3	3 BLAD SHEET 1
------	--------	--	----------------------------	----------------------

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Ericsson Information Systems AB

E 34193 2100 3




ACA - B

Rev.

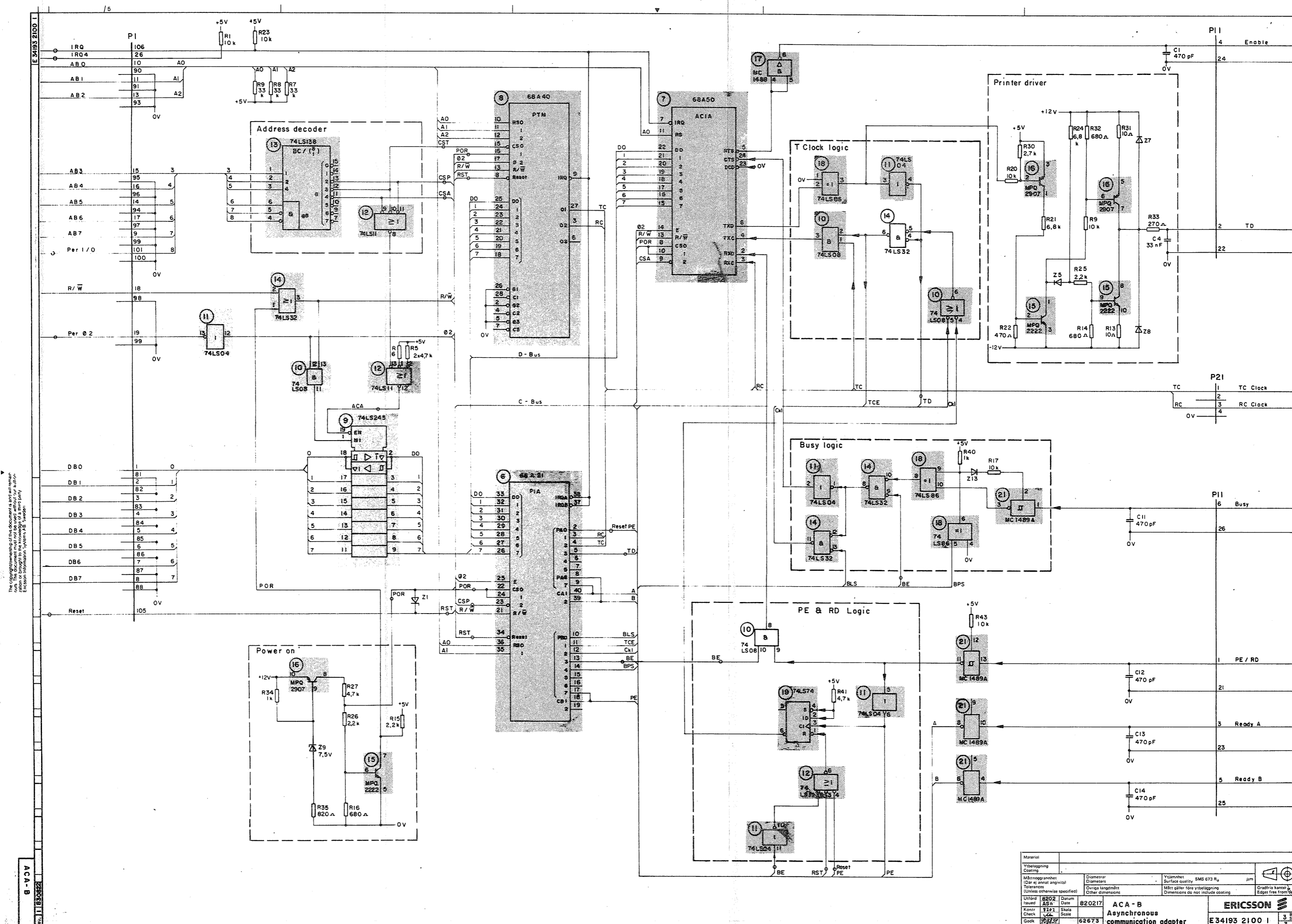
Utförd Issued	8202 Asn	Datum Date	831207
Kontr Check	8202 Cln	Skala Scale	
Godk Approv	708929 Vln		62673 L-D

ACA - B
Asynchronous
communication adapter

ERICSSON 

E 34193 2100 3

3	Blac She
2	



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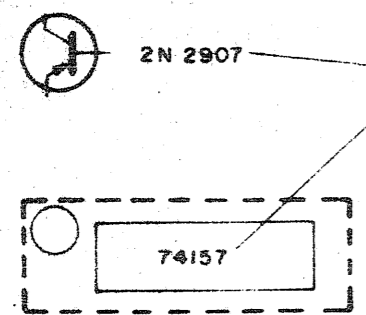
ACA-B
11 833022

Material		Ytbeläggning		Coating	
Måttoleranser (Öar ej annat angivits)		Diameter		Ytjämnhet	
Tolerances (Unless otherwise specified)		Diameters		Surface quality	
Övriga längdmått		Övriga längdmått		Mått gäller före yttbeläggning	
Other dimensions		Other dimensions		Dimensions do not include coating	
Utförd		Datum		Gräddria kanter	
Issued		Date		Edges free from burr	
Kontroll		Skala		Ericsson	
Checked		Scale		ACA-B	
Godkänn		L-D		Asynchronous	
Approved		L-D		communication adapter	
820217		820217		E34193 2100 1	
3		3		Sheet	
3		3		Sheet	

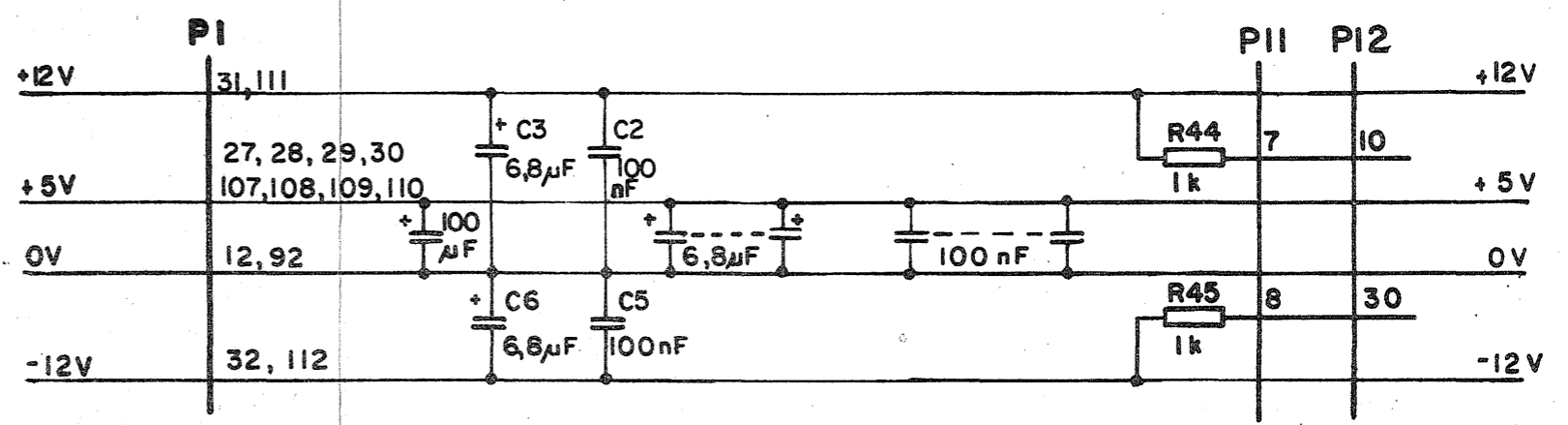
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REV 1	14
2	15
3	16
4	17
5	18
6	19
7	20
8	21
9	22
10	23
11	24
12	25
13	26
14	27
15	28
16	29
17	30
18	31
19	32
20	33
21	34
22	35
23	36
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25	38
26	39
27	40
28	41
29	42
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TEST POINTS	
NO	SIGNAL
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36	
37	
38	
39	
40	
41	
42	0V



INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC11	74LS04
IC10	74LS08
IC12	74LS11
IC14	74LS32
IC18	74LS74
IC18	74LS86
IC5, 13	74LS138
IC9	74LS245
IC17	MC1488
IC20, 21	MC1489 A
IC6	68A21
IC3, 8	68A40
IC2, 7	68A50
IC15	MPQ 2222
IC16	MPQ 2907
Z8	BZ X 55C
Z5, 7, 8, 13	IN4148
Z1	BYV10-30

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN

Example +I CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS		
NUMBER	SH.	MOD.		
E34193 2110 3	1	REV.		
RES.	2	"		
E34193 2110	3	"		
"	4	"		
"	"	"		
"	"	"		
"	"	"		
"	"	"		
"	"	"		

ASSEMBLY DRAWING NO. E 34193 0110 3

8202 820930

ACA-D
Asynchronous
communication adapter

ERICSSON

E 34193 2110 3

4 BLAD SHEET

Per I/O

A BUS

R/W
Per 02
Reset

AB3 - AB7

Address decoder I

Address decoder II

ACA

ACA I

CST I

CSP I

CSA I

CST II

CSA II

PTM I

Transm. clock

Rec. clock

CSA I

Request to send

Enable

Power on logic

ACIA I

Receive data

Transmit data

Clear to send

Transmitted data

CSP Clocks

PIA I

Busy control

Busy control

TD monitor

Busy

IRQ2 Interrupts

RD enable

Reset PE

Reset

RD/PE logic

Received data/Parity error

Ready A

Ready B

ACIA II

DTR

RTS

RFS

TD

RD

IRQ4 Interrupts

PTM II

Clock selector

E

E

RSET

TSET

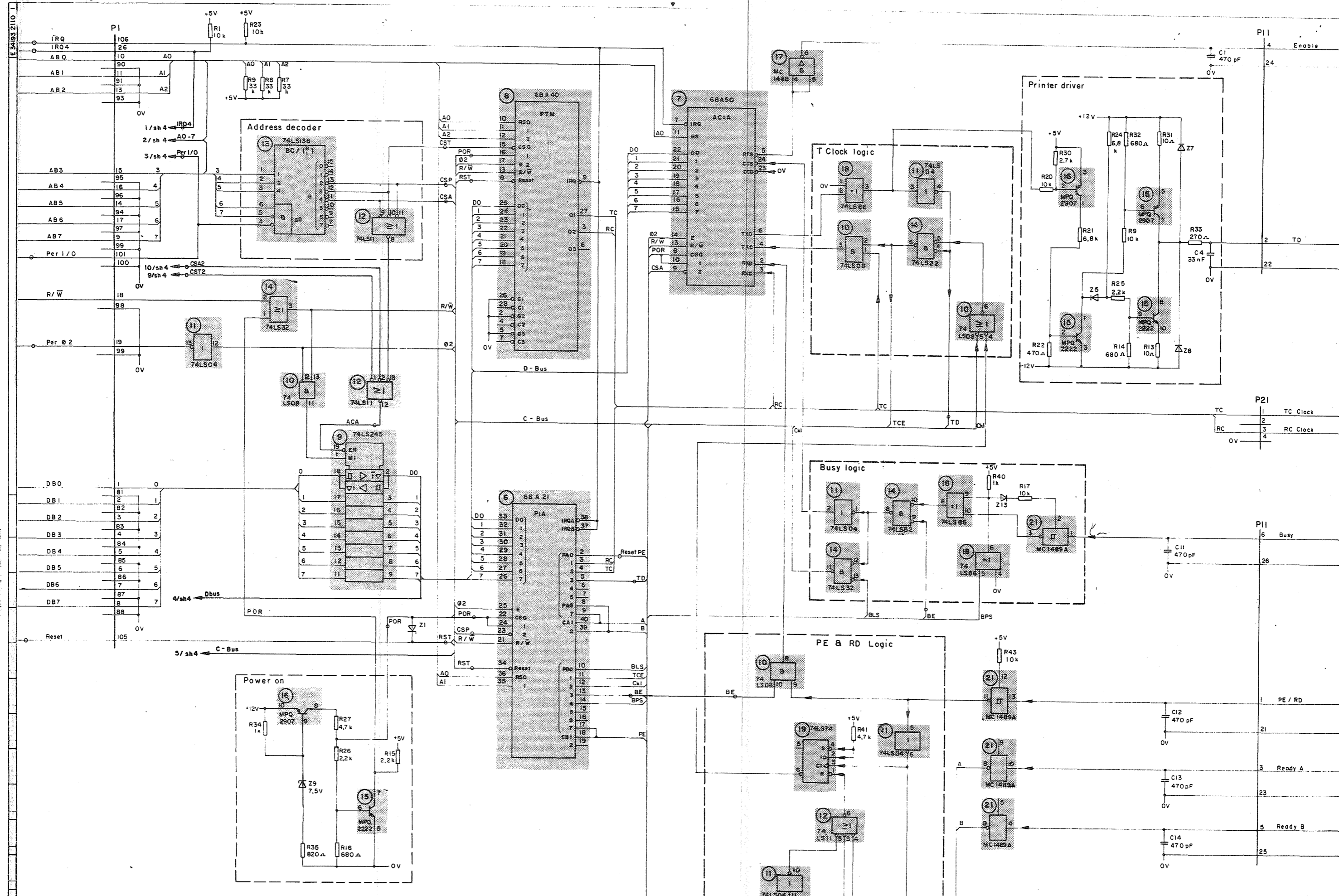
TSET out

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ACA - D

Material					
Ytbeläggning Coating					
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)		Diametrar Diameters		Ytjämnhet Surface quality SMS 673 R _a μm	
Övriga längdmått Other dimensions		Mått gäller före ytbeläggning Dimensions do not include coating		Gradfris kanter Edges free from burr	
Utförd Issued	8202 Asn	Datum Date	831207	ACA - D	
Kontr Check	708129	Skala Scale		Asynchronous communication adapter	
Godk Approv		L-D	62673	ERICSSON	
			E 34193 2110 2		4 Blad Sheet 2

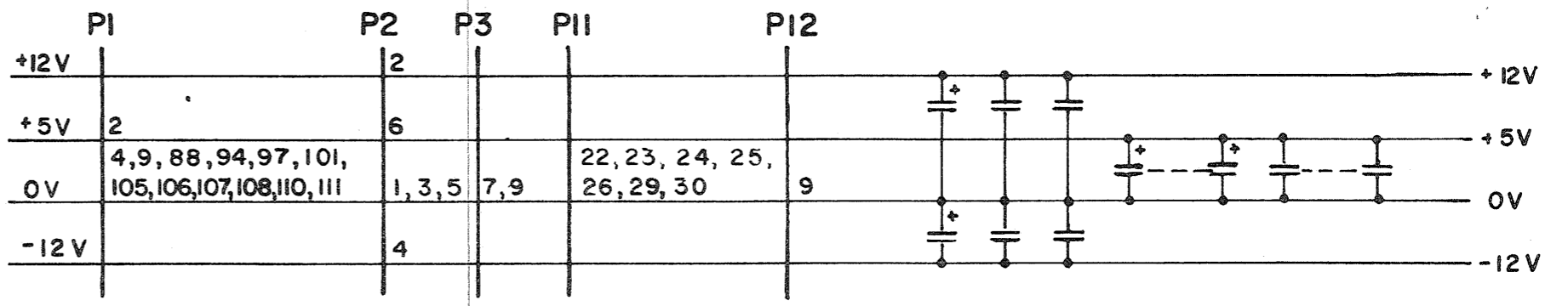
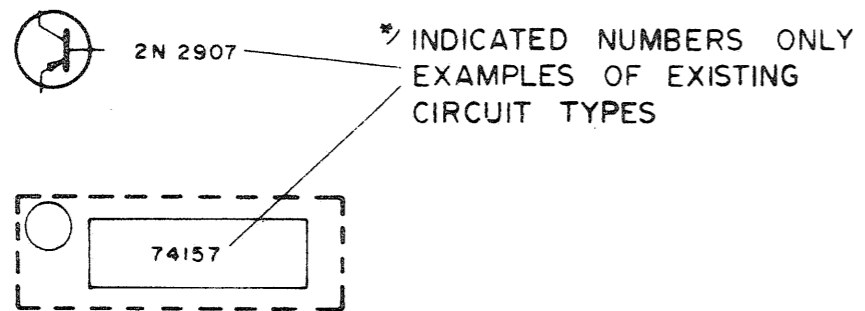


ACA-D

Part No.	820930	ACA - D	ERICSSON
Rev.	AS1	Asynchronous communication adapter	
Part No.	62673	L-D	E34193 2110

REV. 1	800814	2	830224	3	16	4	17	5	18	6	19	7	20	8	21	9	22	10	23	11	24	12	25	13	E34194 2000 3
--------	--------	---	--------	---	----	---	----	---	----	---	----	---	----	---	----	---	----	----	----	----	----	----	----	----	---------------

TEST POINTS	
NO	SIGNAL
1	+1 (+TTL)
2	
3	7,5 Hz
4	Indication
5	9,8 kHz
6	TDLA
7	OV
8	Transmit (A)
9	OV
10	Received data
11	TSET
12	RSET out
13	TSET out
14	
15	
16	
17	
18	
19	
20	
21	RDLA
22	Byte timing
23	
24	
25	Receive
26	Signal element timing
27	
28	Control (A)
29	Ready for sending
30	RSET
31	Data terminal ready
32	Request to send
33	Transmitted data
34	
35	
36	
37	
38	
39	
40	
41	
42	



Component numbers:
See assembly drawing

COMPONENT LIST

NO	TYPE */
IC 13	74LS04
IC 9	74LS08
IC 19,25	74LS74
IC 2,7	74LS125
IC 22	74LS151
IC 14	74LS153
IC 6	74LS245
IC 12,17	74LS390
IC 21,23	74393
IC 11	75150
IC 5	75154
IC 26	AM26LS31
IC 20	AM26LS32
IC 24	96L02
IC 10	MC1488
IC 18	MC6821
IC 3	MC6852
IC 8	MC6854
IC 1	ROM32x8 bit
Z1	KS79001
I5	KS68113-B-2
R30	4,7 k Ω
J2	Pin strip

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+1	R30/6

Example: +1 CONN. TO R
+1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS	
NUMBER	SH. MOD.		
E 34194 2000 3	1	REV.	1 2
"	2	"	1
"	1	"	1 2

ASSEMBLY DRAWING NO. E 34194 0000 3

<table border="1"> <tr><td>NO. OF SHEETS</td><td>3</td></tr> <tr><td>SHEET NO.</td><td>3</td></tr> <tr><td>DATE</td><td>8556</td></tr> <tr><td>ISSUED</td><td>7/189 Gem 781106</td></tr> </table>	NO. OF SHEETS	3	SHEET NO.	3	DATE	8556	ISSUED	7/189 Gem 781106	<p>SCA Synchronous communication adapter</p>	<p>ERICSSON</p> <p>E 34194 2000 3</p>	<p>3 BLAD SHEET</p>
NO. OF SHEETS	3										
SHEET NO.	3										
DATE	8556										
ISSUED	7/189 Gem 781106										

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SCS
REV 1800814 2

12

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8

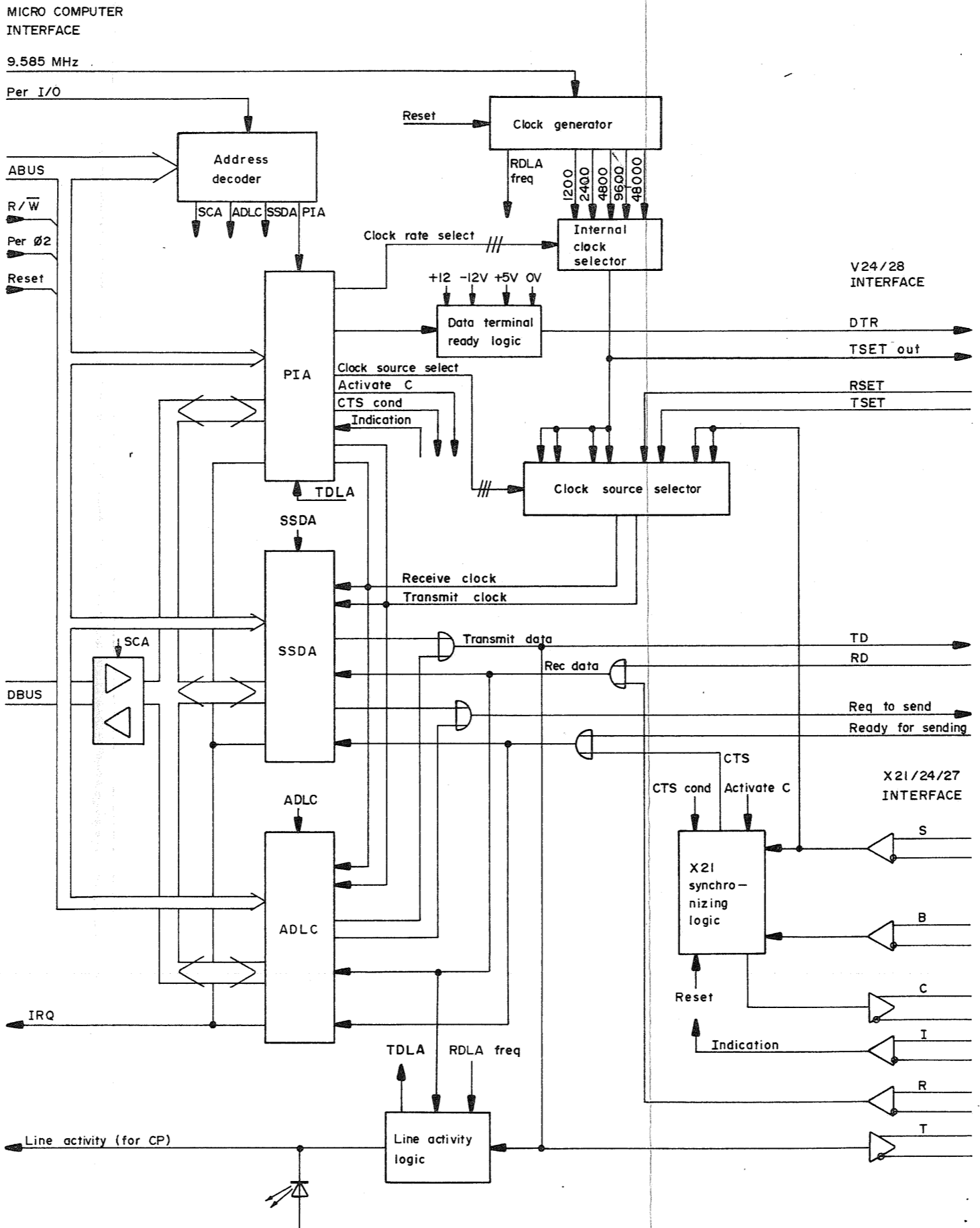
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6

5

4

3



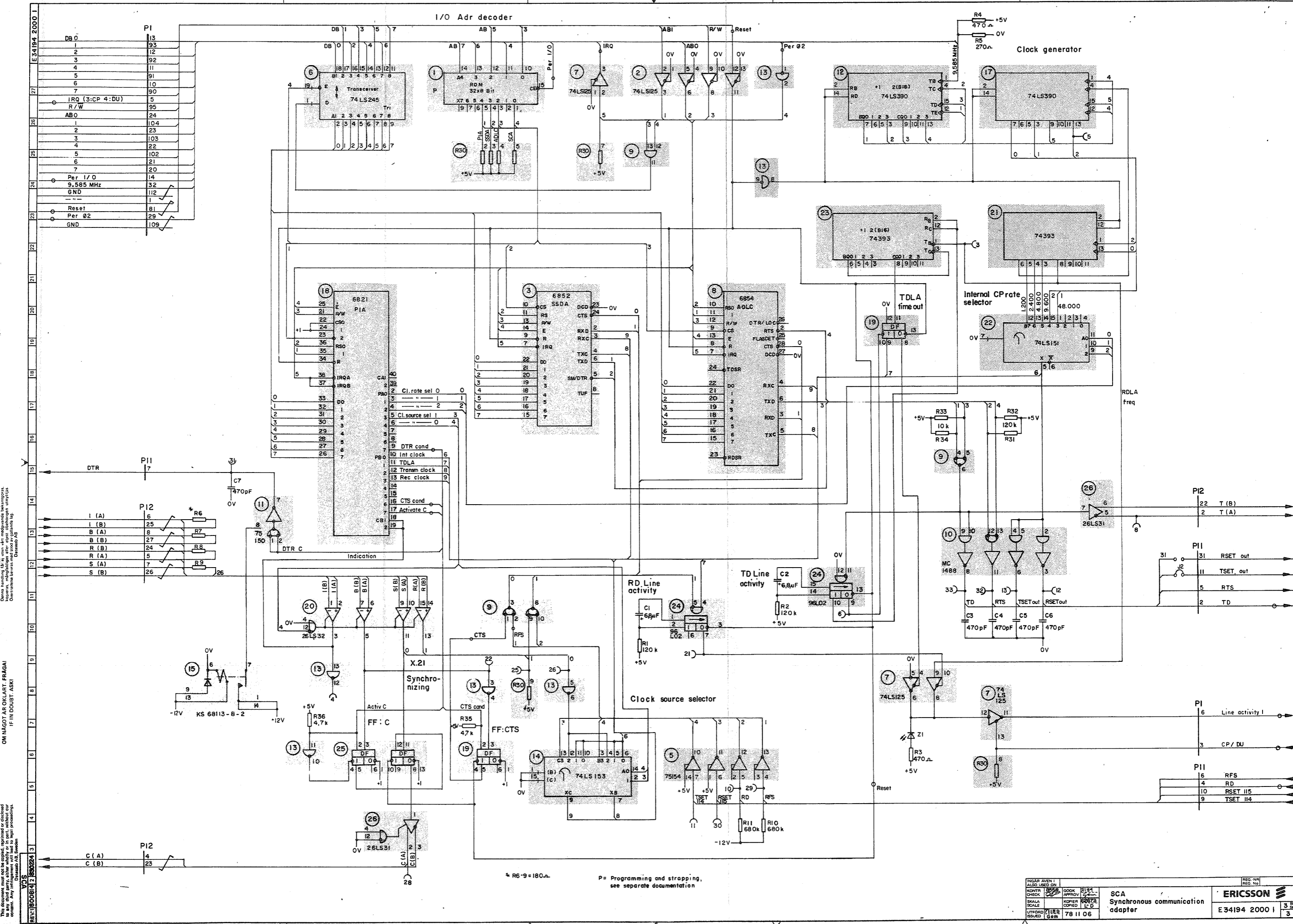
REVISION	8558	DATE	2/1/87
SCALE	9328	COPIES	6M
ISSUED	9776	MG	800125

SCA Synchronous Communication Adapter

ERICSSON

E34194 2000 2

3 BLAD SHEET
2



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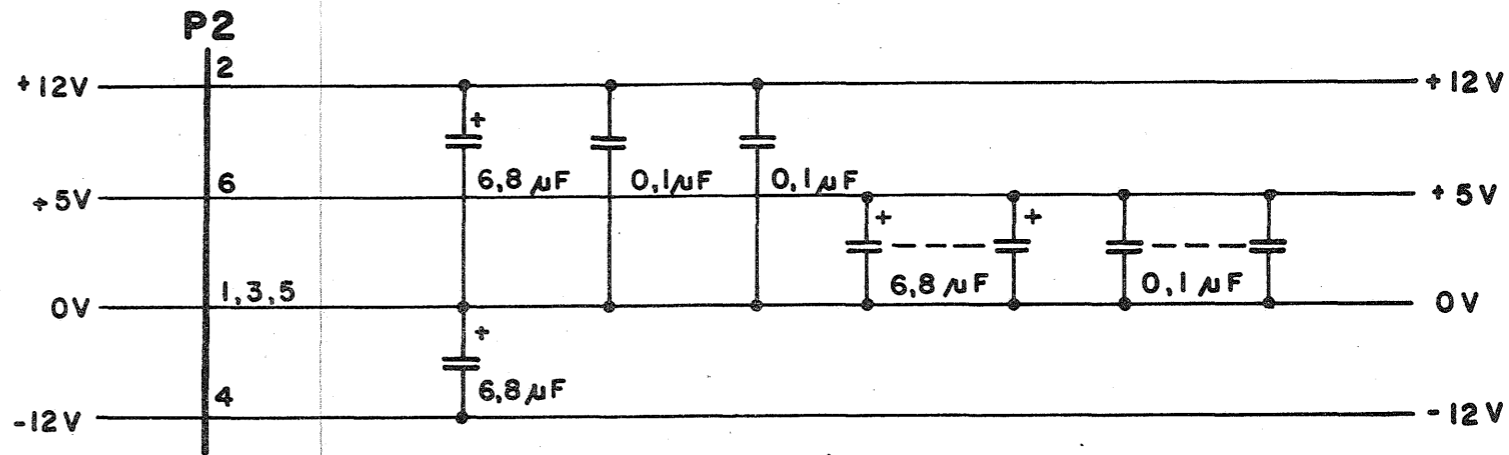
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* R6-9 = 180Ω
 P = Programming and strapping, see separate documentation

REG. NR REG. No.	SCA Synchronous communication adapter	ERICSSON
E34194 2000 I	3	3

E34194 2002 3

TEST POINTS	
NO	SIGNAL
1	+I (+TTL)
2	
3	7,5 Hz
4	
5	9,6 kHz
6	TDLA
7	OV
8	
9	OV
10	Received data
11	TSET
12	RSET out
13	TSET out
14	
15	
16	
17	
18	
19	
20	
21	RDLA
22	OV
23	
24	
25	
26	
27	
28	
29	Ready for sending
30	RSET
31	Data terminal ready
32	Request to send
33	Transmitted data
34	
35	
36	
37	
38	
39	
40	
41	
42	



COMPONENT LIST

NO	TYPE */
IC 13	74LS04
IC 9	74LS08
IC 19	74LS74
IC 2,7	74LS125
IC 22	74LS151
IC 14	74LS153
IC 6	74LS245
IC 12,17	74LS390
IC 21,23	74393
IC 11	75150
IC 5	75154
IC 24	96L02
IC 10	MC1488
IC 18	MC 6821
IC 3	MC 6852
IC 8	MC 6854
IC 1	ROM32x8 bit
Z1	KS79001
I5	KS68113-B-2
R30	4,7 kΩ
J2	Pin strip

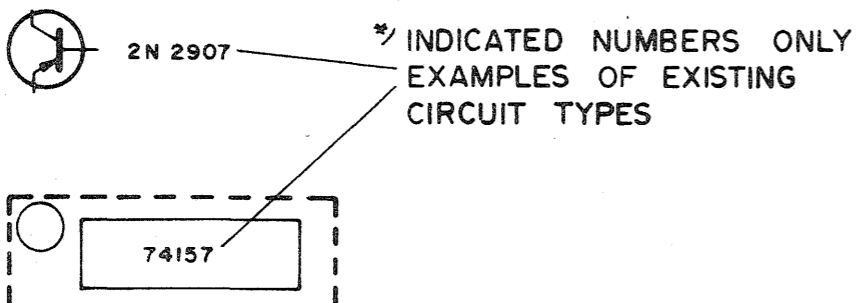
NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+I	R30/6

Example : +I CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS	
NUMBER	SH. MOD.		
E34194 2002 3	1 REV.		
" " 2	2 "		
" " 1	3 "		



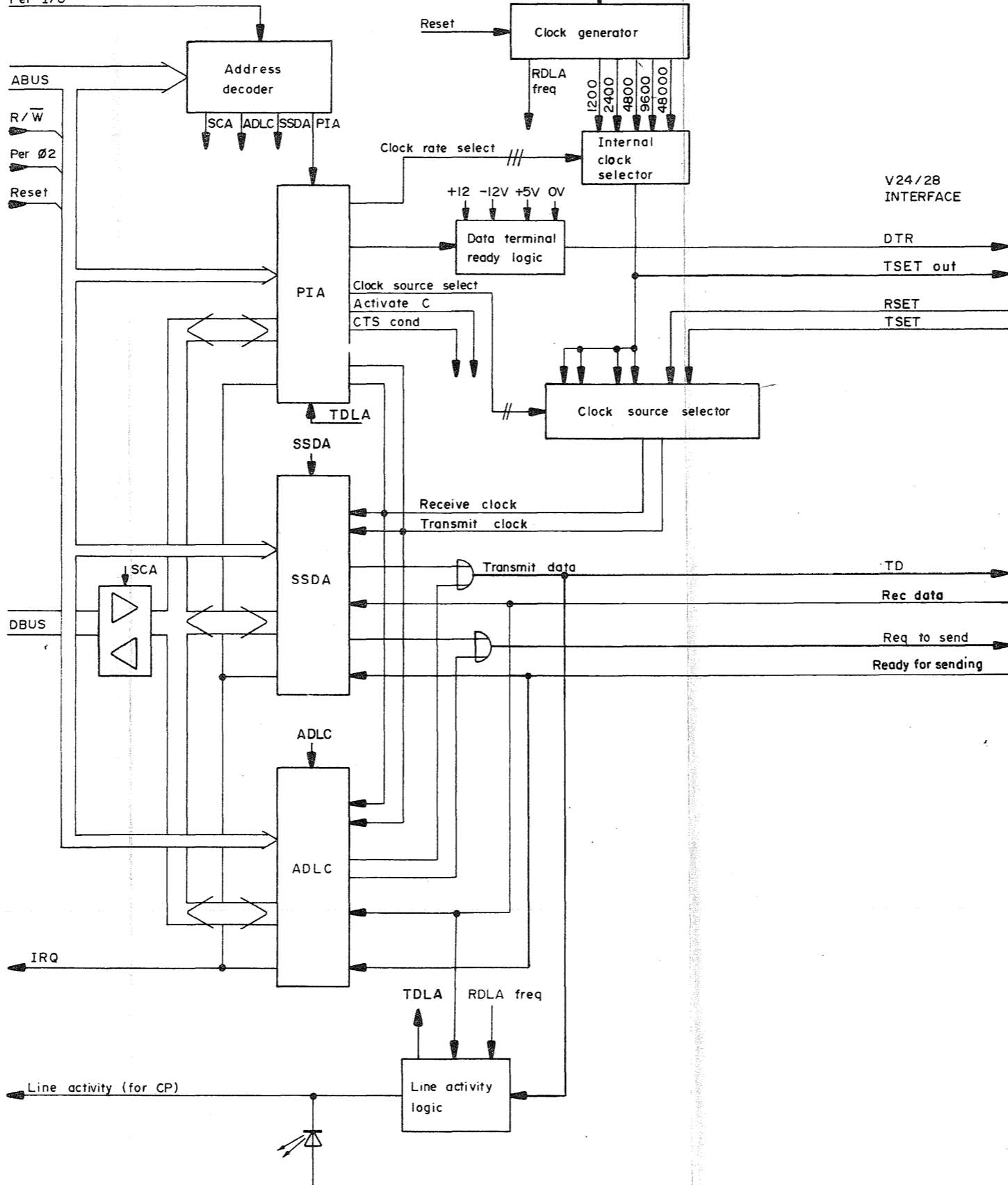
ASSEMBLY DRAWING NO. E 34194 0002 3

INGÅP AVEN : ALSO USED ON :		PEL N RE :	
FOPST AN. AND FIRST USED ON :		SCA - B Synchronous communication adapter	
KONTR CHECK	GOOD APPROV.	ERICSSON	
SKALA S.A.E	KOP ER COPIED	E 34194 2002 3	
UTFÖRD ISSUED	7189 Gem	820218	3 SHEET 1

MICRO COMPUTER
INTERFACE

9.585 MHz

Per I/O



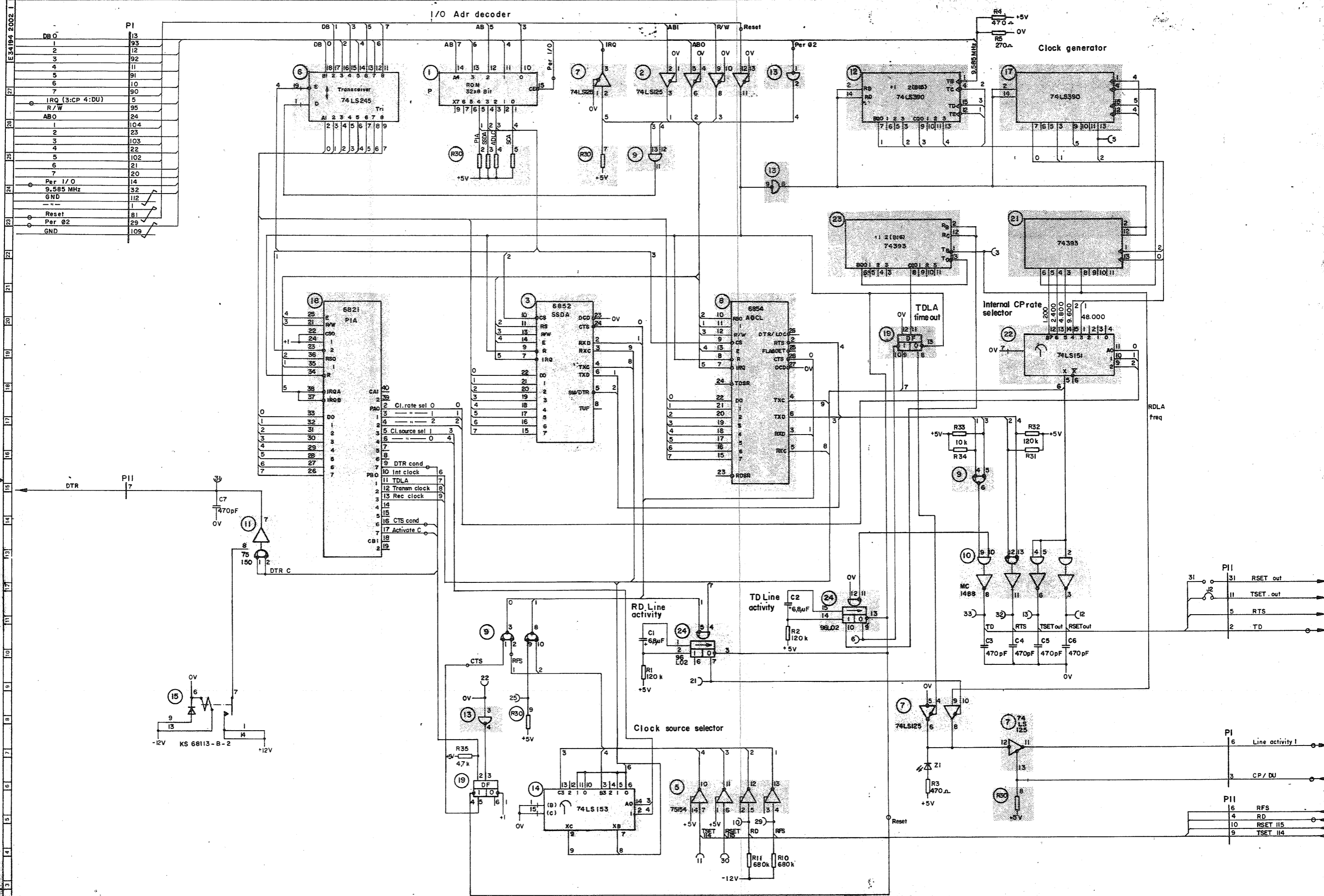
Ericsson Information Systems AB
Färdierhusvägen 100, S-141 86 Åkersberg, Sweden
Tel: 08-737 7000

OM NAGOT AROKART FRAGA
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Ericsson Information Systems AB, Sweden
B-VCS

8215 On		40832 Pro		62673 L-D	
9776 MG		820218		SCA-B Synchronous Communica- tion Adapter	
ERICSSON				E34194 2002 2	
				3 2	

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 Översättning till svenska av Ericsson Information Systems AB
 Översättning till engelska av Ericsson Information Systems AB



P = Programming and stripping, see separate documentation

INGÅR AVEN I	REG. NR.
KONTROLL	18/22
CHECK	APPROV. C/20
SCALE	KCP/ER
DATE	1.10
REVISION	820218
SCA-B Synchronous communication adapter	
ERICSSON	
E 34194 2002 1	

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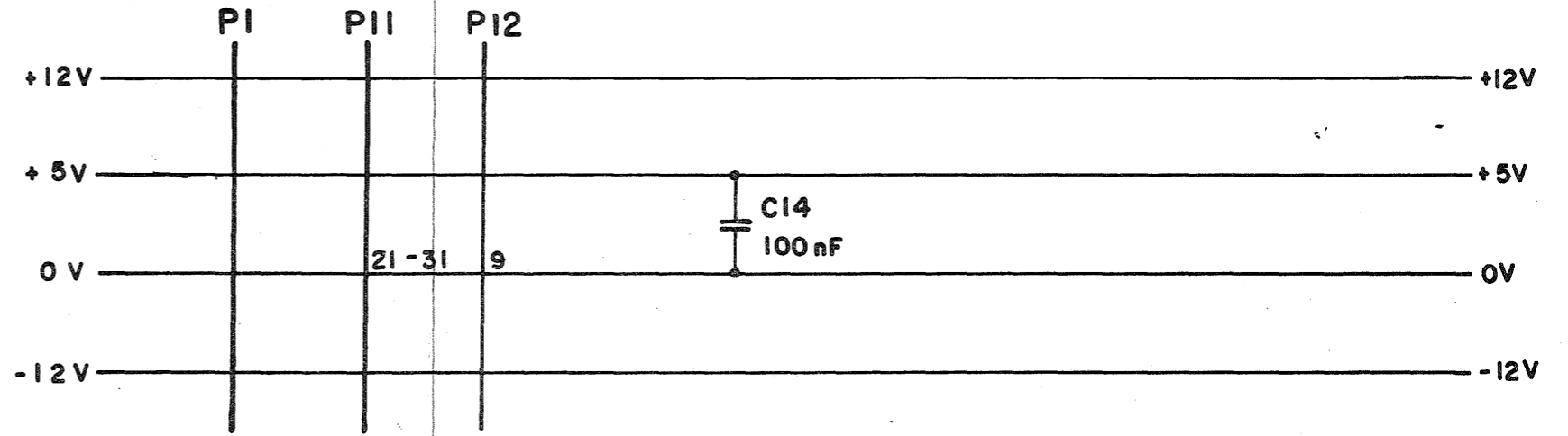
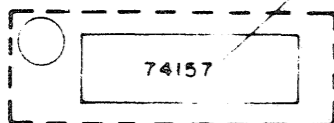
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"	"	3	17
"	"	4	18
"	"	5	19
"	"	6	20
"	"	7	21
"	"	8	22
"	"	9	23
"	"	10	24
"	"	11	25
"	"	12	26
"	"	13	27

TEST POINTS	
NO	SIGNAL
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2N 2907

INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC20	74LS04
IC24	74LS08
IC23, 30, 31	74LS74
IC1, 2	74LS125
IC6	74LS151
IC25	74LS153
IC22, 32	74LS157
IC19	74LS245
IC3, 4	74LS390
IC5, 7	74393
IC18	75150
IC8, 15	75154
IC17	1488
IC36	26LS31
IC29	26LS32
IC13	68A21
IC11, 12	68A52
IC14	68A54
IC21	96L02 PC
IC10	M6330

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+1	R22

Example: +1 CONN TO R
 +1G CONN TO IC

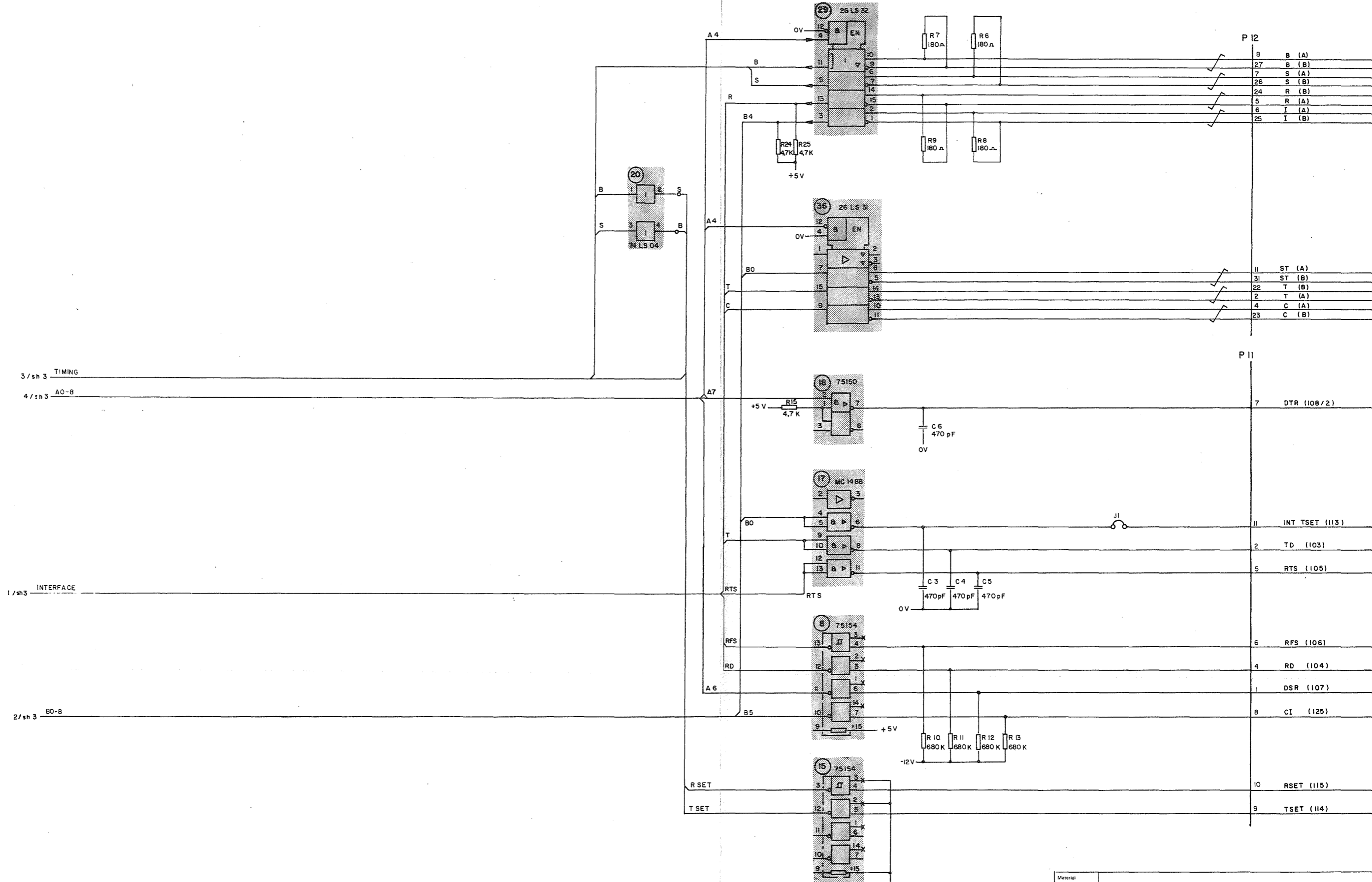
REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS		
	NUMBER	SH. MOD.	-
E 34194 2010 3	1	REV.	
"	2	"	
"	3	"	
"	4	"	
"	"	"	
"	"	"	
"	"	"	
"	"	"	
"	"	"	

ASSEMBLY DRAWING NO. E 34194 0010 31

<table border="1"> <tr><td>72004</td><td>71395</td></tr> <tr><td>802</td><td>87</td></tr> <tr><td>62513</td><td>L-D</td></tr> <tr><td>22014</td><td>LR</td></tr> <tr><td>630504</td><td></td></tr> </table>	72004	71395	802	87	62513	L-D	22014	LR	630504		<p>SCA - D Synchronous communication adapter</p>	<p>ERICSSON</p> <p>E 34194 2010 3</p>	<p>4 BLAD SHEET 1</p>
72004	71395												
802	87												
62513	L-D												
22014	LR												
630504													

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3/sh 3 TIMING

4/sh 3 AO-8

1/sh 3 INTERFACE

2/sh 3 BO-8

8	B (A)
27	B (B)
7	S (A)
26	S (B)
24	R (B)
5	R (A)
6	I (A)
25	I (B)

11	ST (A)
31	ST (B)
22	T (B)
2	T (A)
4	C (A)
23	C (B)

7	DTR (108/2)
---	-------------

11	INT TSET (113)
2	TD (103)

5	RTS (105)
6	RFS (106)

4	RD (104)
1	DSR (107)
8	CI (125)

10	RSET (115)
9	TSET (114)

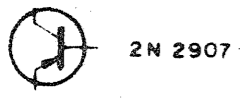
Material			
Ytbelegning			
Coating			
Måttolerans (ID är ej annat angivits)		Diameter	
Tolerances (Unless otherwise specified)		Diameters	
Ytjämnhet		Surface quality	
Mått gäller före ytbelegning		Surface quality SMS 673 R ₃	
Dimensioner do not include coating		µm	
Gradfri kantar		Edges Free from burr	
Utförd	22045	Datum	830504
Issued	AD	Date	
Kontr	73297	Skala	
Check	2/2	Scale	
Godk	7/1777		
Approv	2/2		
SCA-D		Synchronous communication adapter	
ERICSSON		E 34194 20 10 1	
		4 Blad / 4 Sheets	

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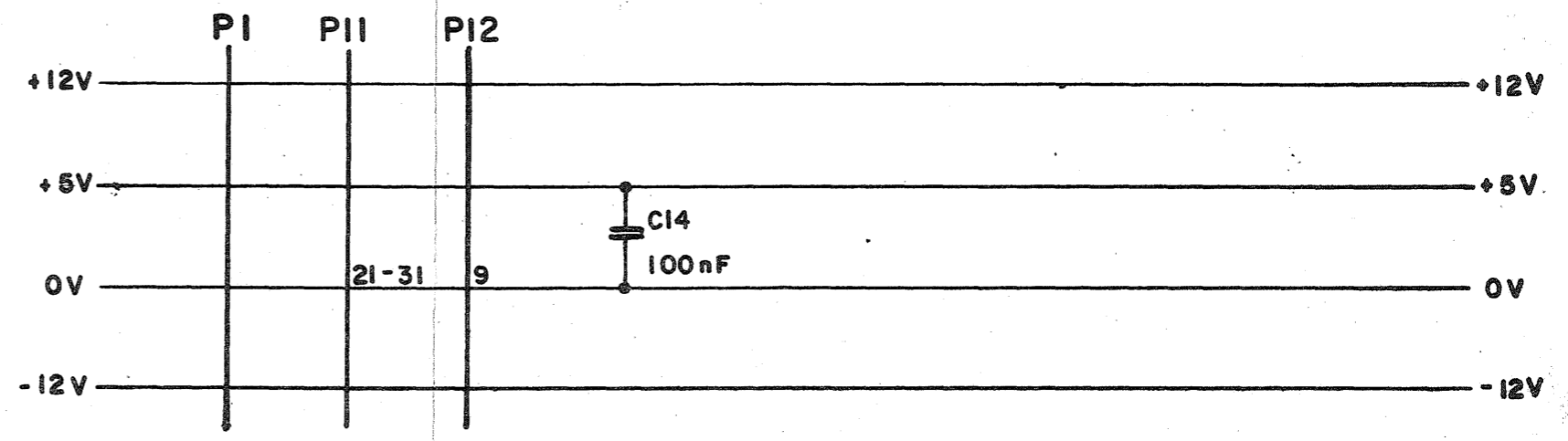
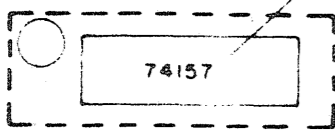
Ericsson Information Systems AB

REV 1	840524	2	850130	3	16	17	4	5	6	7	8	9	10	11	12	13	E34194 2020 3	26
"	"	14	15															

TEST POINTS	
NO	SIGNAL
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42	OV



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC 26	74LS00
IC 20	74LS04
IC 24	74LS08
IC 28	74LS32
IC 23, 27, 30, 31	74LS74
IC 1, 2	74LS125
IC 6	74LS151
IC 25	74LS153
IC 22	74LS157
IC 33, 35	74LS161
IC 19	74LS245
IC 3, 4	74LS390
IC 8, 7	74393
IC 18	75150
IC 8, 15	75154
IC 17	1488
IC 36	26LS31
IC 29	26LS32
IC 34	4536
IC 13	68A21
IC 11, 12	68A52
IC 14	68A54
IC 21	96L02 PC
IC 38	2003 A
IC 16	KS68113-B-2
IC 10	M 6330

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+1	R22
+2	R23

Example +1 CONN TO R
+16 CONN TO IC

REVISION OF DIAGRAMS

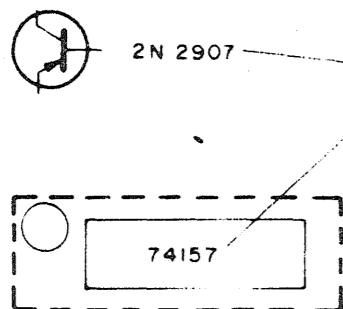
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NUMBER	SH	MOD.	-	-	-	-
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		"				
		"				

ASSEMBLY DRAWING NO. E 34194 0020 31

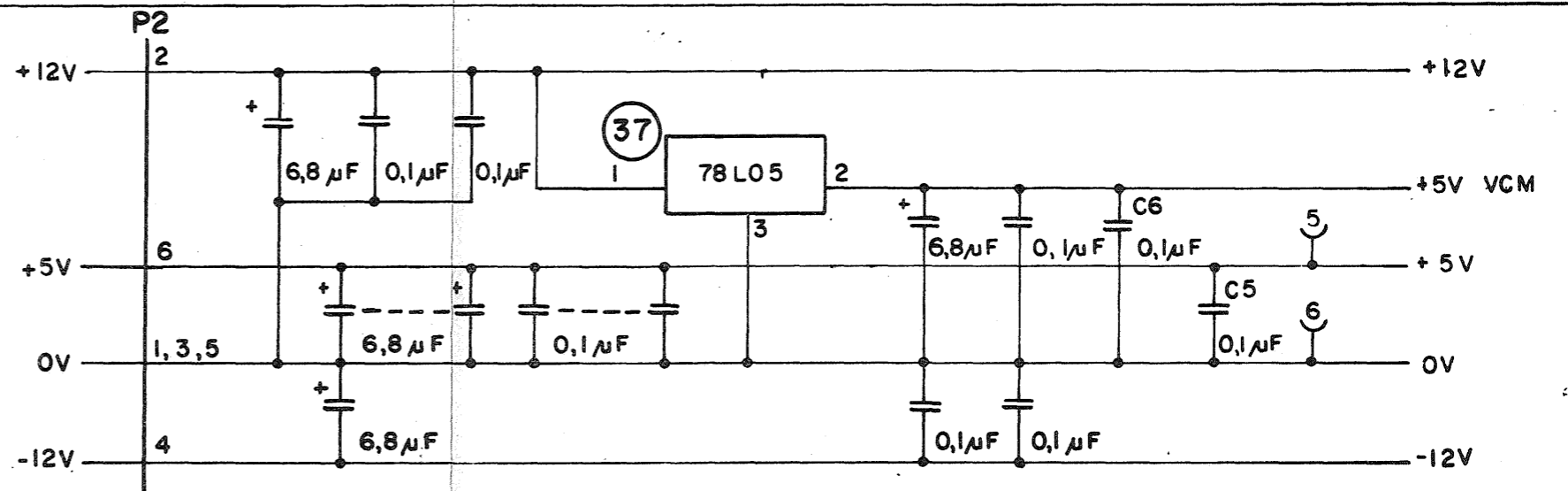
722014 LR 73298 LR 62672 LR 22014 LR 630504	SCA-E Synchronous communication adapter	ERICSSON E 34194 2020 3	4 BLAD SHEET 1
---	--	-----------------------------------	-------------------

REV 1	830112	2	15	3	16	4	17	5	18	6	19	7	20	8	21	9	22	10	23	11	24	12	25	13	26
		Omitted																							
SCC I																									

TEST POINTS		
NO	SIGNAL	
1	MIC	O
2	DMA req	O
3	IRQ	O
4	NMI	O
5	+5V	O
6	OV	
7	DMA gnt	
8	Enable	
9	PA 6	
10	ADCL	O
11	SCC	O
12	SSDA	O
13	IPL	O
14		
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42	OV	



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC1,2	74LS00
IC10	74LS02
IC9	74LS05
IC14,27	74LS08
IC6	74LS10
IC26,34	74LS74
IC13,17	74LS240
IC7,12,18,23	74LS244
IC11	74LS245
IC31	75150
IC24,30	75154
IC29	MC1488
IC15	MC4024
IC16	MC4044
IC5	MC6802
IC4	MC68A21
IC3	MC68A40
IC21	MC68A52
IC20	MC68A54
IC35	AM26LS31
IC36	AM26LS32
IC8	ROM 2Kx8BIT
IC22	ROM 32x8BIT
IC28	29693
IC37	78L05
Z1	LD571
R1,2,3	1,2kΩ
R4,5	4,7kΩ
L1	22µH
K33 relay	68113-B-2

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+1	R19
+2	R12
+3	R13

Example : +I CONN. TO R
 +IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS			
NUMBER	SH	MOD.	-		
E34195 2000 3	1	REV.	1		
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"	1	3	"		
"	1	4	"		
		"	"		
		"	"		
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		"	"		
		"	"		

ASSEMBLY DRAWING NO. E 34195 0000 31

NO. APPROVED	A. SCHEDELIN	REV. NO.	
FIRST APPROVED		FIRST USED IN	
DATE	82/5	REV. NO.	837
BY	BS	DATE	9328
ISSUED	8663	BY	GM
	800429		

SCC I
Synchronous Communication
Controller I

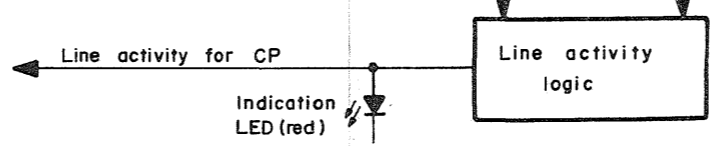
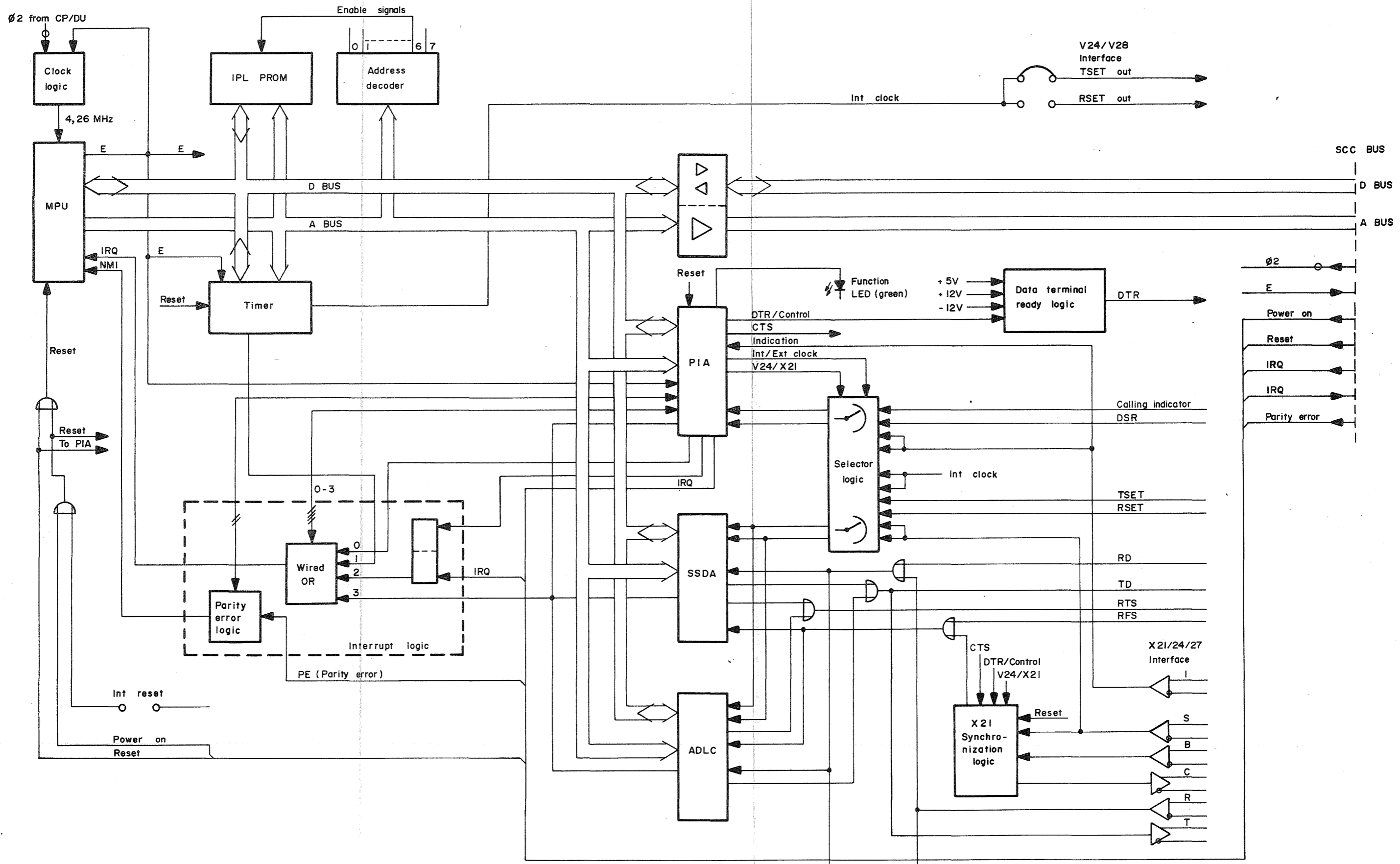
ERICSSON

E34195 2000 3

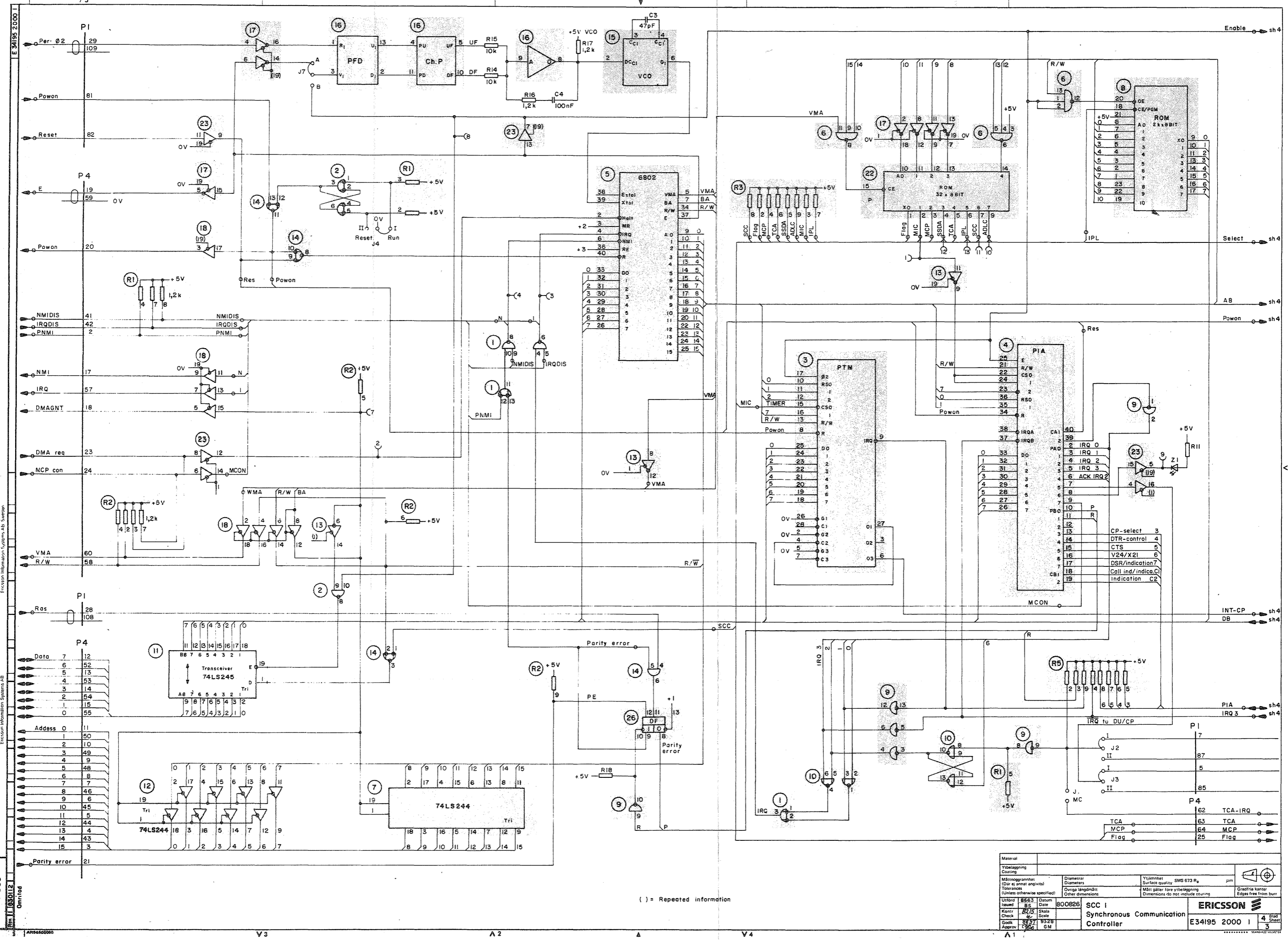
4 BLAD SHEET
1

E 34195 2000 2
Rev. 1 | 830112 | Omritad

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Ericsson Information Systems AB



Material			
Ytbeläggning Coating			
Måttoggrannhet (Där ej annat angivits)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _a μm
Tolerances (Unless otherwise specified)	Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	
Utförd Issued	8663 BS	Datum Date	81006
Kontr Check	8215	Skala Scale	
Godk Approv	8837	9977 L.P.	
SCC I		ERICSSON	
Synchronous Communication		E 34195 2000 2	
Controller 1		4 Blad Sheet 2	



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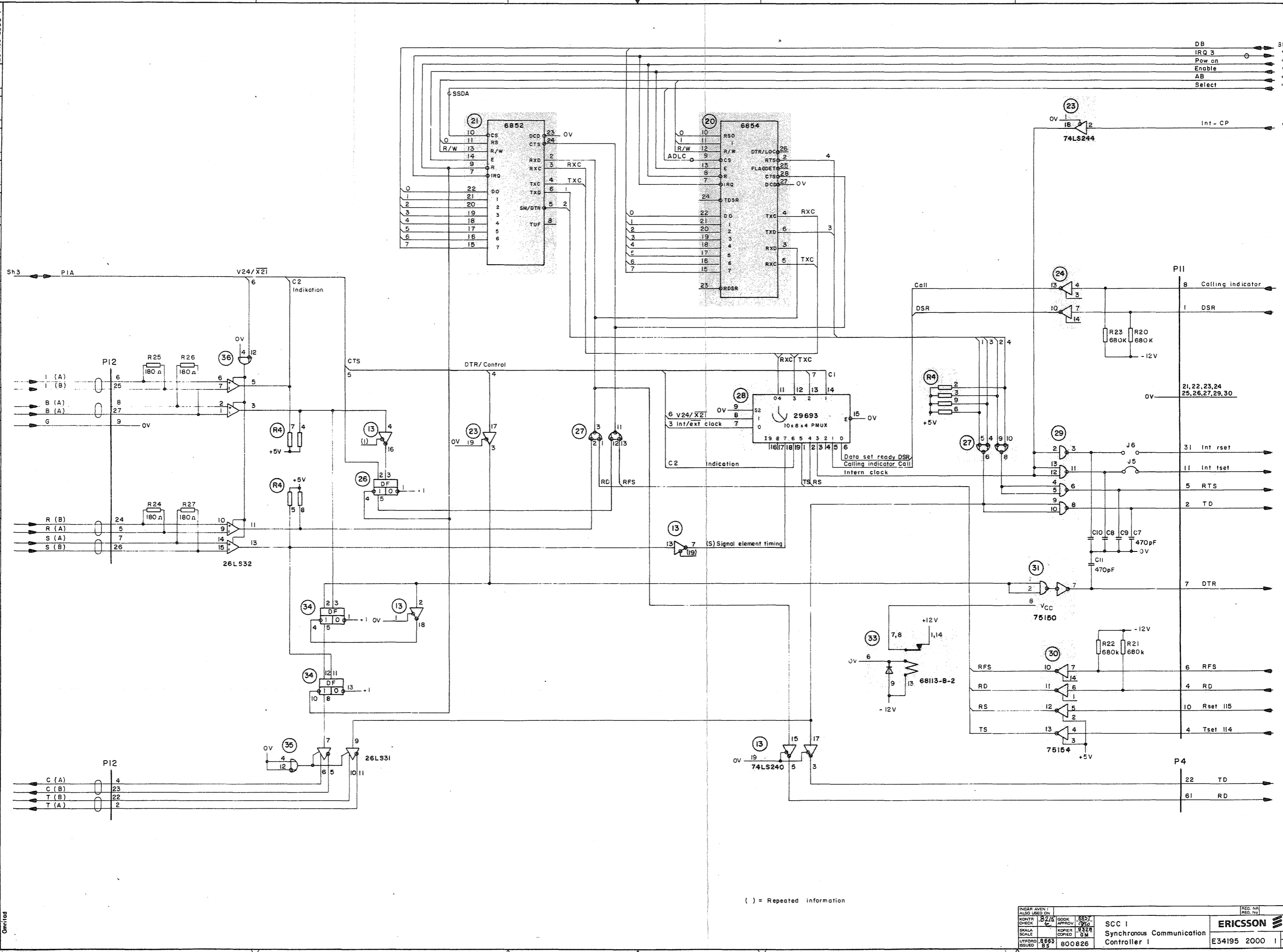
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1 331
 SCS I
 Omtryck

() = Repeated information

Material		Ytbehandling		Ytbehandling	
Coating		Coating		Coating	
Måttögngränshet (Där ej annat angivits)		Diameter Diameters		Ytjämnhet Surface quality	
Tolerances (Unless otherwise specified)		Övriga måttögngränshet Other dimensions		Mått jämför föreliggande Dimensions do not include coating	
Utförd Issued		Datum Date		SMS 673 P ₀	
Kontroll Check		Skala Scale		Gränslinjer Edges free from burr	
Godkänn Approved		GM		Ericsson	
8663		800826		SCC I	
85				Synchronous Communication	
87/5				Controller	
88/7				E34195 2000 1 4	
89/6				Blad Sheet	
				3	

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 T. 035
 REV. 185012 2
 Onvrid
 31322 Östergårds 68176



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INGÅR AVEN I ALSO USED ON	REG. NR REG. No
KONTR. CHECK	18/75
SKALA SCALE	1:1
LITFÖRD ISSUED	8 653 85
GDGK APPROV	8557
KOPIER COPIED	5328
GM	
800826	
SCC 1 Synchronous Communication Controller I	ERICSSON
E34195 2000 1	4 4 SHEET

Ericsson Information Systems AB

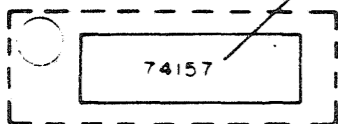
SCC I
REV 1 B30112 2
Omitted 15
3 16
4 17
5 18
6 19
7 20
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10 23
11 24
12 25
13 E 34 195 2001 3
26

TEST POINTS	
NO	SIGNAL
1	MIC
2	DMA req
3	IRQ
4	NMI
5	+5V
6	0V
7	DMA gnt
8	Enable
9	PA 6
10	ADCL
11	SCC
12	SSDA
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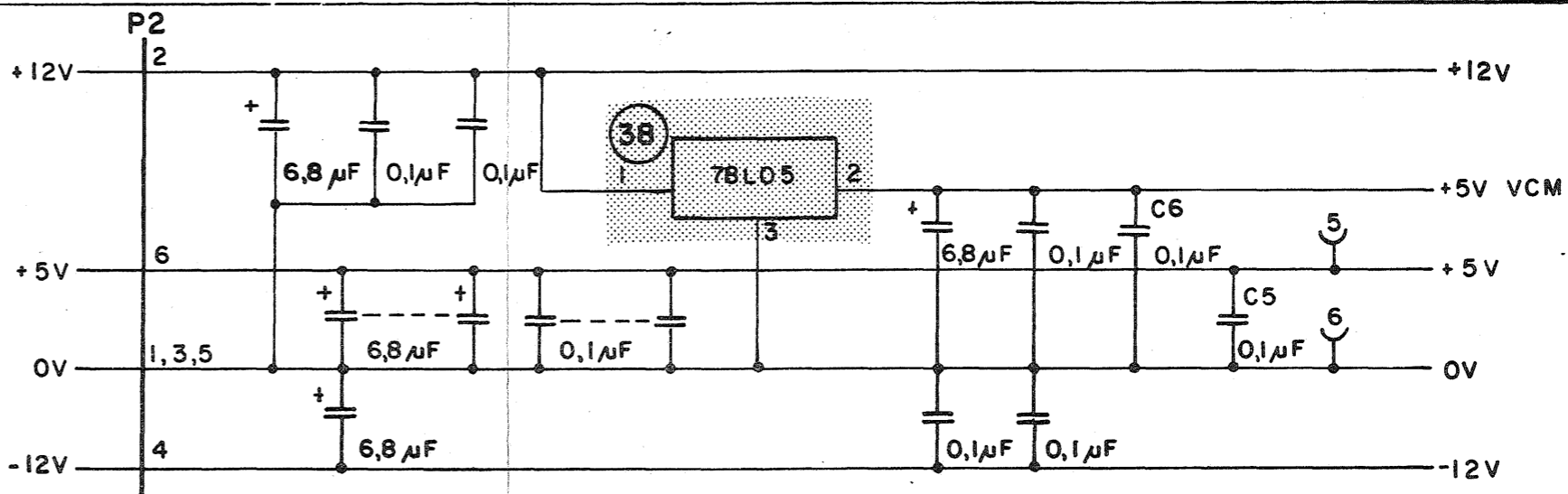


2N 2907

INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



74157



COMPONENT LIST

NO	TYPE† /
IC 1, 2	74LS00
IC 11	74LS02
IC 33	74LS04
IC 10	74LS05
IC 15, 28	74LS08
IC 6	74LS10
IC 7	74LS27
IC 27, 35	74LS74
IC 14, 18	74LS240
IC 8, 13, 19, 24	74LS244
IC 12	74LS245
IC 32	75150
IC 25, 31	75154
IC 30	MC1488
IC 16	MC4024
IC 17	MC4044
IC 5	MC6802
IC 4	MC68A21
IC 3	MC68A40
IC 22	MC68A52
IC 21	MC68A54
IC 36	AM26LS31
IC 37	AM26LS32
IC 9	ROM2kx8bit
IC 23	ROM32x8bit
* IC 29	29693
* IC 29	14N4
IC 38	78L05
K34 relay	68113-B-2, 32
Z1	LD 571
R1, 2, 3	1, 2 kΩ
R4, 5	4, 7 kΩ

* alt

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+1	R19
+2	R12
+3	R13

Example: +I CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS	
	NUMBER	SH. MOD. -
E34195 2001 3	1 REV. 1	
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" " 1	4 " 1	

ASSEMBLY DRAWING NO. E 34195 0001 3

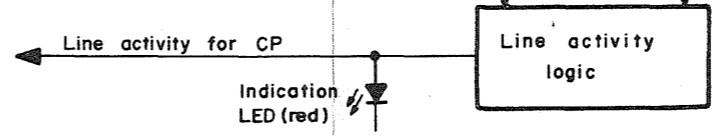
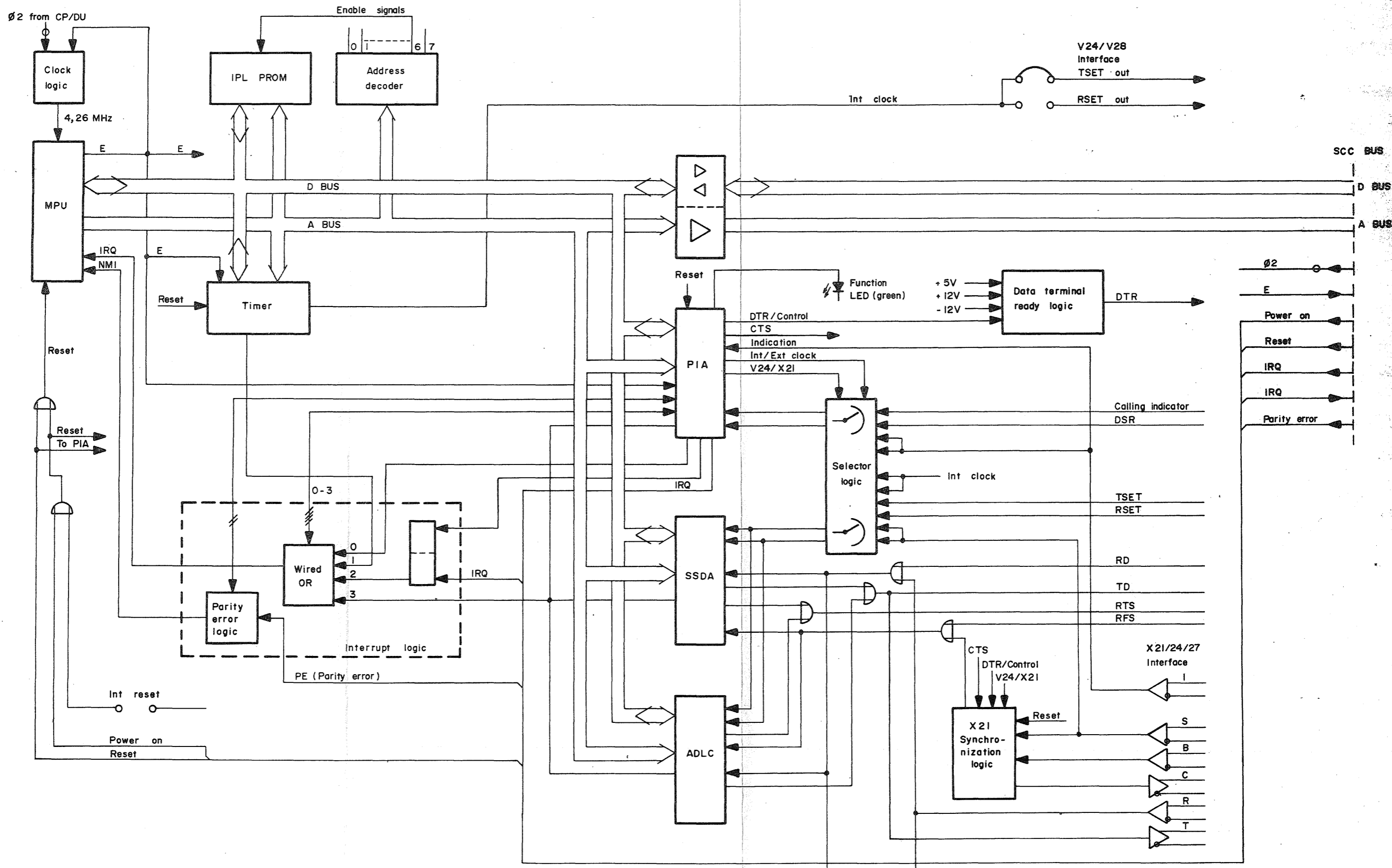
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DATE	ISSUED	BY
92/5	62573	L-D
8902	801113	

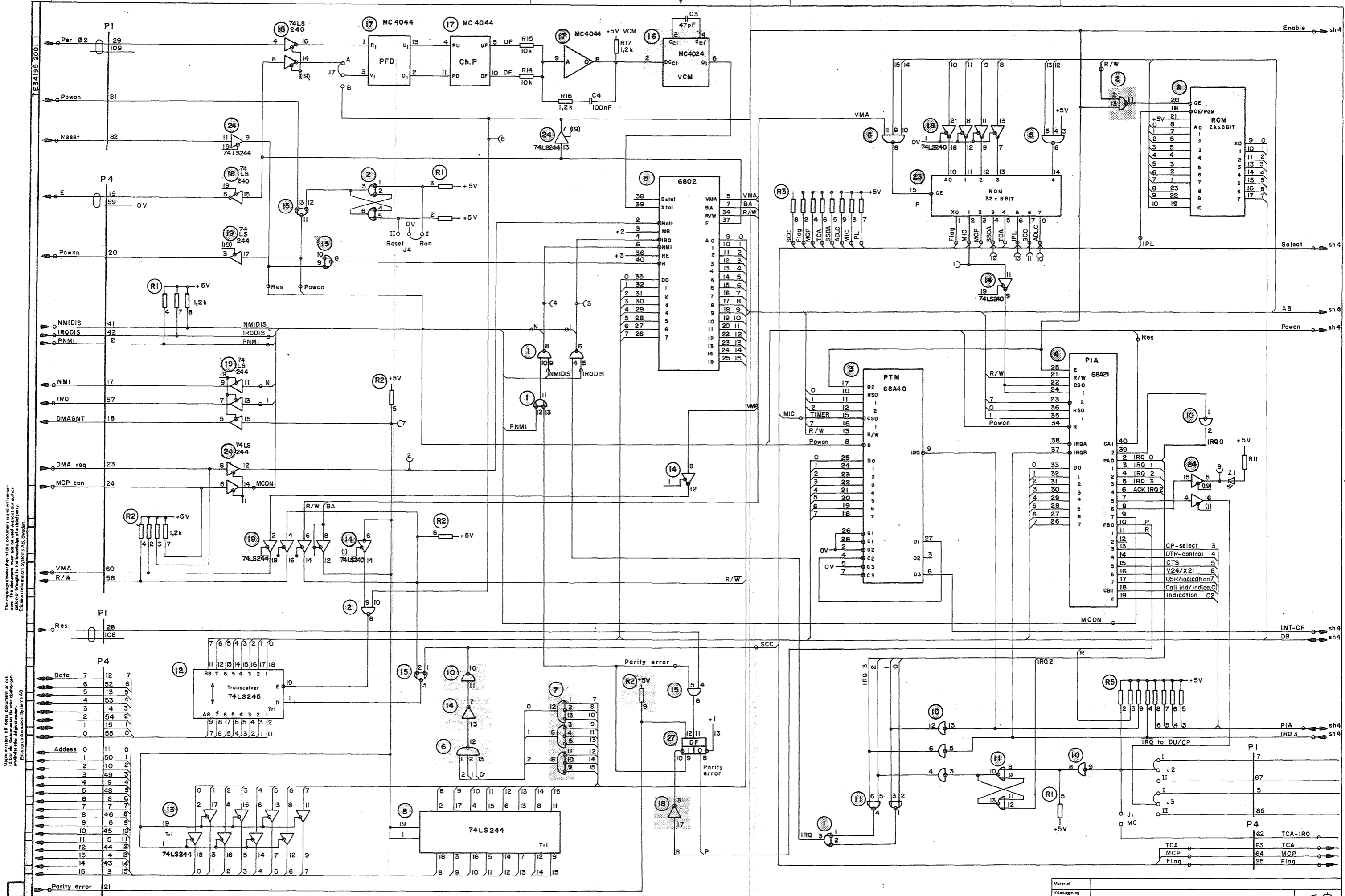
SCC I
Synchronous Communication
Controller I

ERICSSON
E34195 2001 3
4 BLAD SHEET

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Material				Ytbeläggning Coating			
Måttögngrannhet (Dar ej annat angivits) Tolerances (Unless otherwise specified)		Diametrar Diameters		Ytjämnhet Surface quality		SMS 673 R _a μm	
Utford Issued		Datum Date		Mått gäller före ytbeläggning Dimensions do not include coating		Grädfria kantar Edges free from burrs	
Kontr Check		Skala Scale		Ericsson Information Systems AB		ERICSSON	
Godk Approved		L. P.		SCC 1 Synchronous Communication Controller 1		E 34195 2001 2	

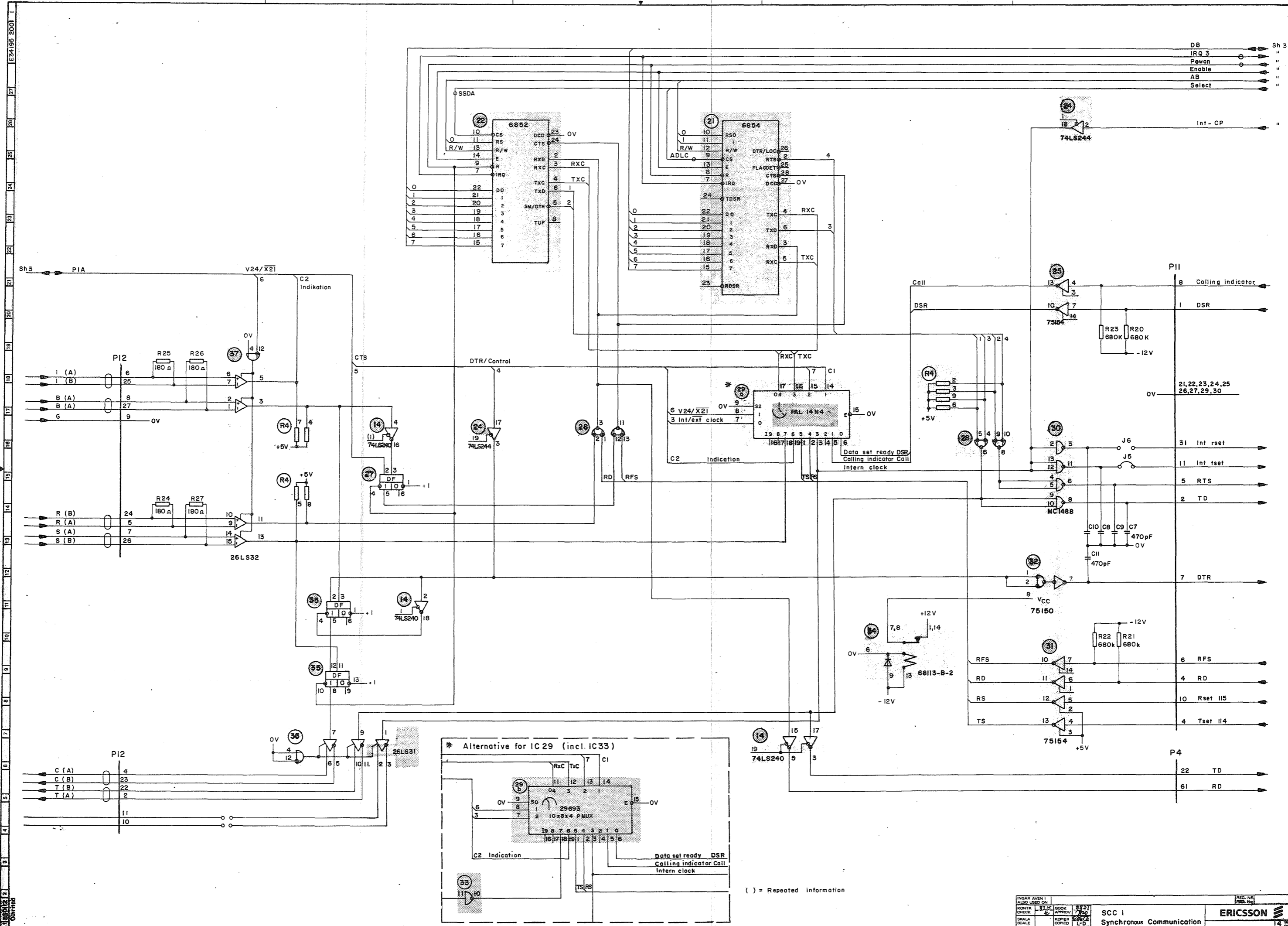


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I COS
 Ericsson

() = Repeated information

Material		Ytbeläggning		Coating	
Måttoleranser (Där ej annat anges)		Diameter		Ytfinish	
Toleranser (Om ej annat anges)		Övriga mått		Mått gäller före ytbeläggning	
Utförd		Datum		801113	
Kontroll		Skala		SCC I	
Godkänn		801113		Synchronous Communication Controller I	
Godkänn		801113		Ericsson	
Godkänn		801113		E34195 2001 I 4	
Godkänn		801113		Blad 3	



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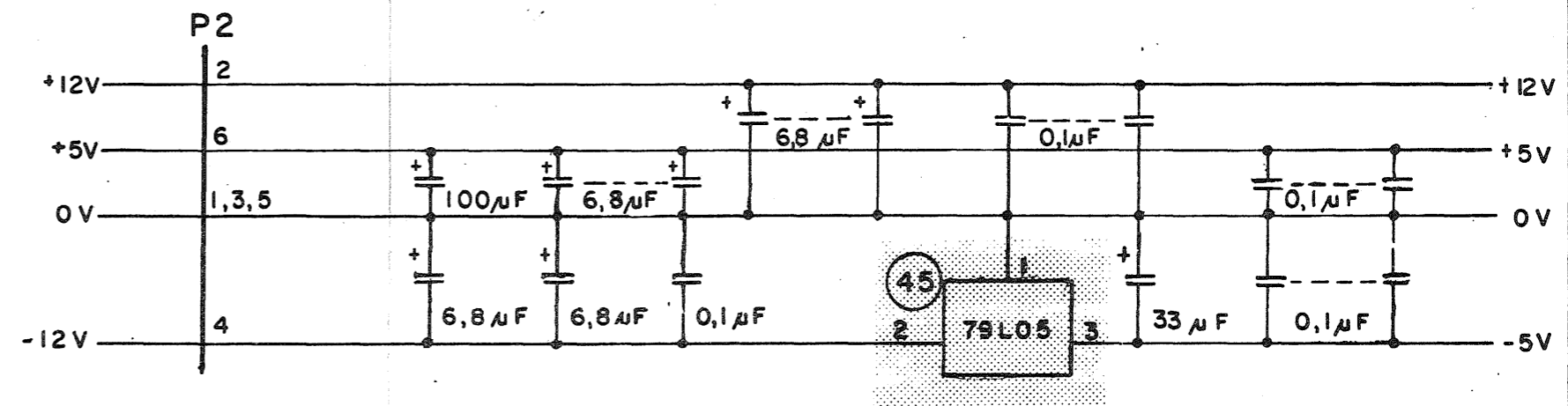
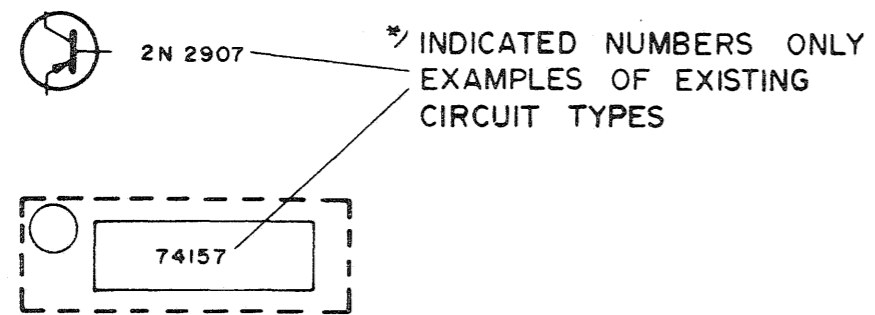
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E34195 2001 1
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REV 1	830112	2	Områd	15																				

TEST POINTS	
NO	SIGNAL
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COMPONENT LIST

NO	TYPE */
IC 24	74LS02
IC 31	74LS03
IC 29	74LS08
IC 23	74LS10
IC 30	74LS27
IC 33	74LS32
IC 32	74LS74
IC 12, 13, 14, 15, 19, 20	74LS157
IC 18	74LS174
IC 25, 43	74LS240
IC 35, 43	74LS244
IC 28	74LS245
IC 21, 22	74LS373
IC 1	74S32
IC 34	74S138
IC 26, 27	74S280
IC 36	96L02
IC 38 - 42 (alt RWM)	ROM 2Kx8BIT
IC 16, 17	ROM 256x4BIT
IC 11	D3242
IC 2-10	MK4116
IC 44	NE 555
IC 45	79L05
Z1	LD41-1
Z2	IN 4148
R1	1, 2 kΩ

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+1	R1/3
+2	R1/2

Example: +1 CONN. TO R
 +1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS					
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" " " 1	3	"	1			

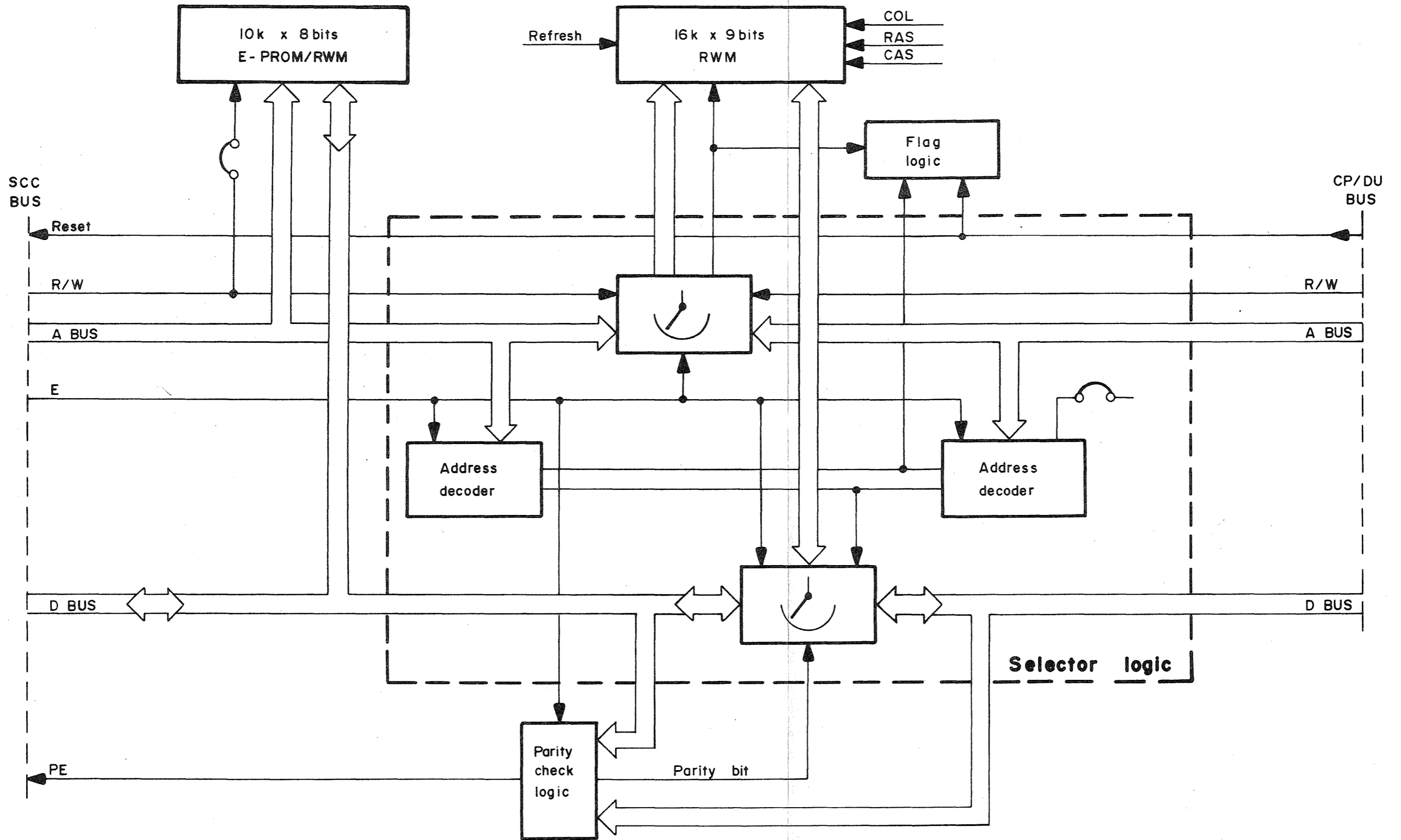
ASSEMBLY DRAWING NO. E 34196 0000 31

INGÅR AVEN A. SO USE: ON	REV. NO. REV. NO.
FIRST AN. AND FIRST USED - A	
KONTROLL CHECK	8215 10
APPROV. APPROV.	8831 720
SKA S.A.E.	KOP COPIED
9328	GM
UTGIV ISSUED	8663 88
80 05 08	

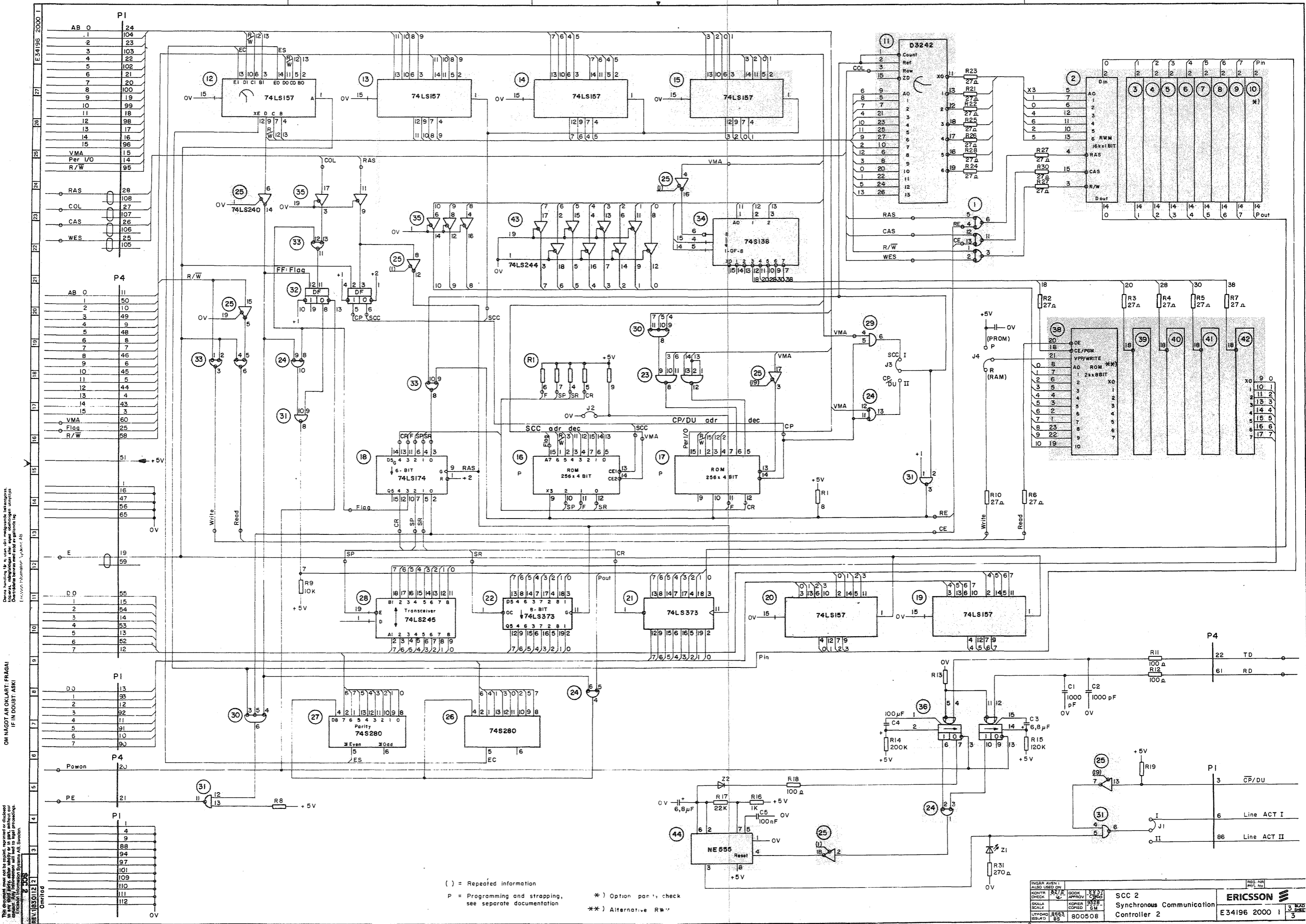
SCC 2
Synchronous Communication
Controller 2

ERICSSON

E34196 2000 3 3
BLAD SHEET 1



Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _a μm
	Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Gradfria kanter Edges free from burr
Utförd Issued	8663 BS	Datum Date	810925
Kontr. Check	8215 W	Skala Scale	
Godk. Approv	8837 Mo	9977 L.P.	
SCC 2		ERICSSON	
Synchronous Communication		E 34196 2000 3	
Controller 2		3 Blad Sheet	
		2	



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() = Repeated information
 P = Programming and strapping, see separate documentation
 *) Option part, see check
 **) Alternative R/W

INGÅR AVEN I ALSO USED ON	REG-NR REF. NO
KONTROLL CHECK	8475
SKALA SCALE	1:1
UPPGIFTS ISSUED	8863
800508	
SCC 2 Synchronous Communication Controller 2	E34196 2000 1
ERICSSON	3

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E 34161 2000 4

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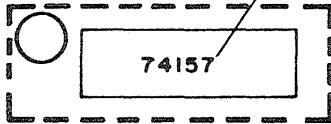
4

3

2

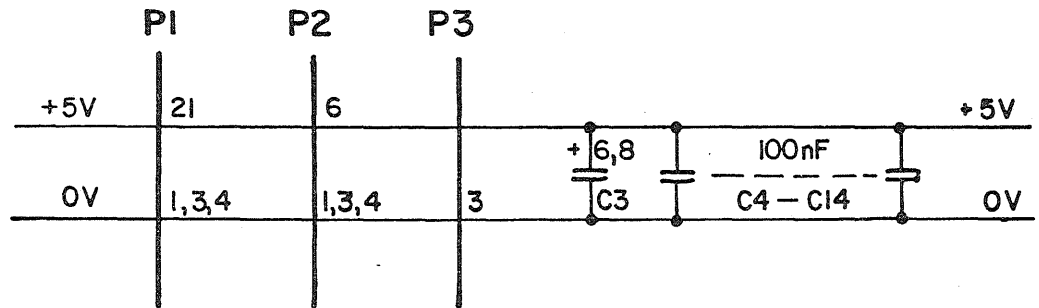


*/ INDICATED NUMBERS ONLY EXAMPLES OF EXISTING CIRCUIT TYPES



COMPONENT LIST

NO	TYPE */
IC2	74LS04
IC3	74LS20
IC4	74LS163
IC6	74LS244
IC5	75451
IC1	MC1489
IC8	MC6802
IC9,10,11	MC68A50
IC7	2716
X1	2,43424 MHz
Z1,2	BZX55C 4,7V



OM NAGOT ÄR OKLART: FRÅGA!
IF IN DOUBT: ASK!

ASSEMBLY DRAWING NO. E 34161 0000 31

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS			
NUMBER	SH. MOD.	-			
E 34161 2000 4	1	REV.	1		
---	2	"	1		
		"			
		"			
		"			
		"			
		"			
		"			
		"			

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BCRB

INGÅR ÄVEN I
ALSO USED ON

KONTR
CHECK

9289

GODK
APPROV

8837

SKALA
SCALE

KOPIER
COPIED

62673
L-D

UTFÖRD
ISSUED

9289
KH

820701

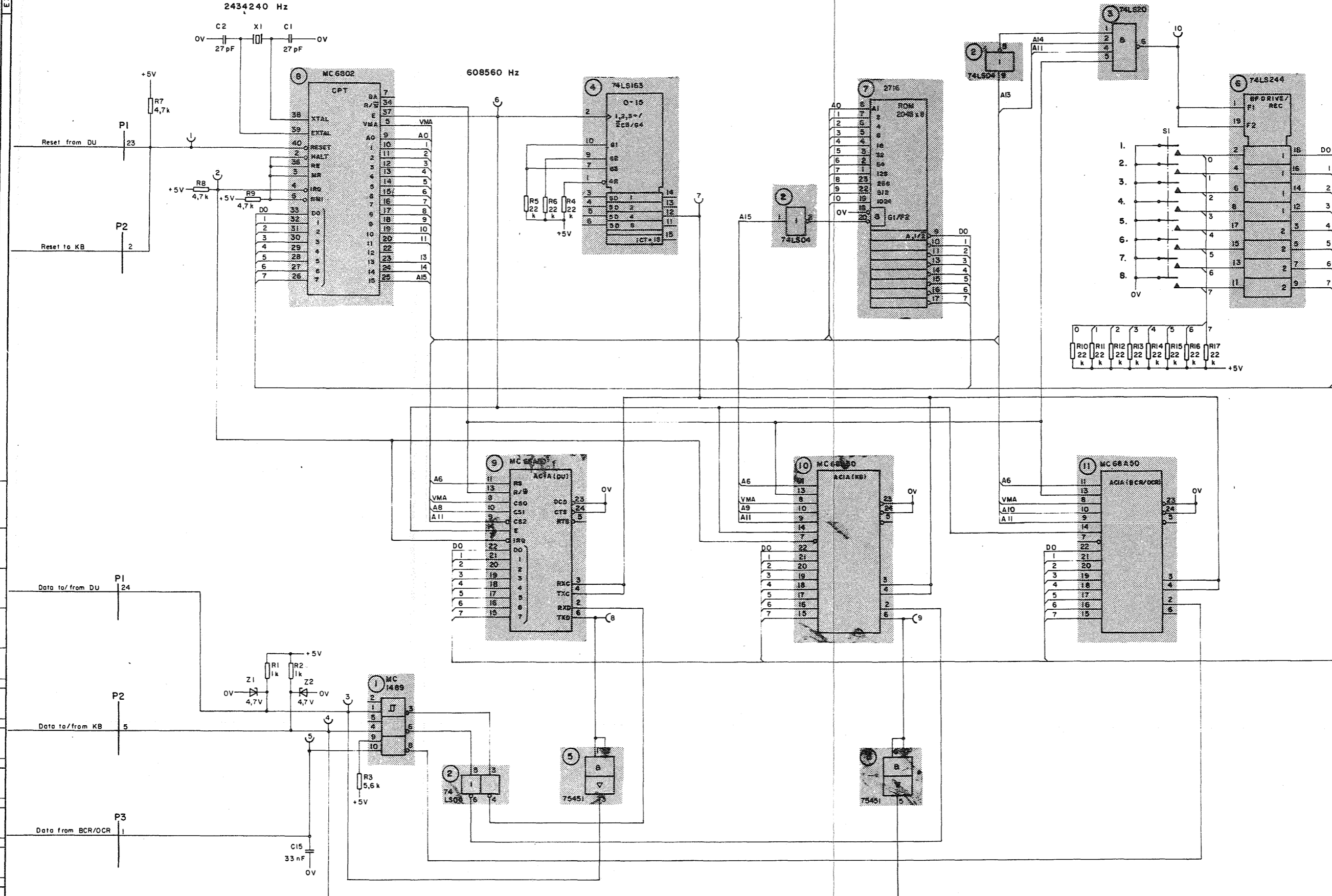
BCRB
Bar code reader board

REG.-NR.
REG. NO.

ERICSSON

E 34161 2000 4

2
1



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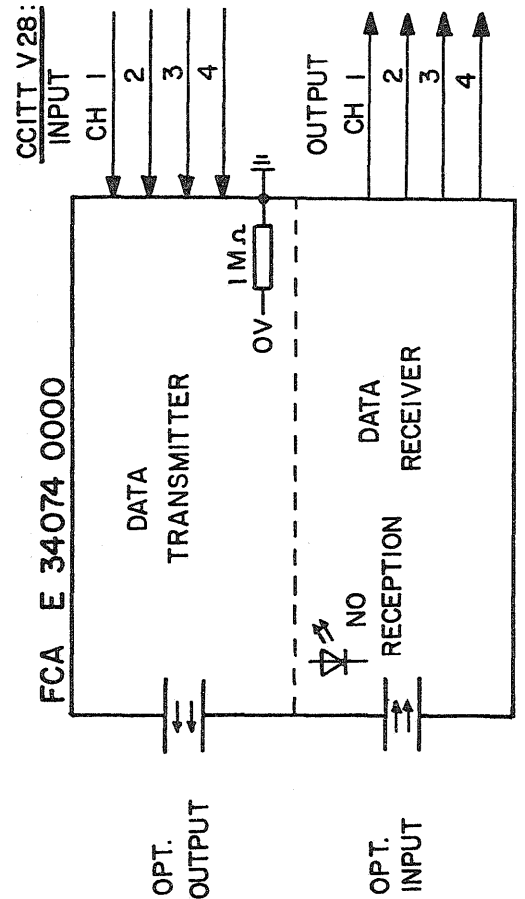
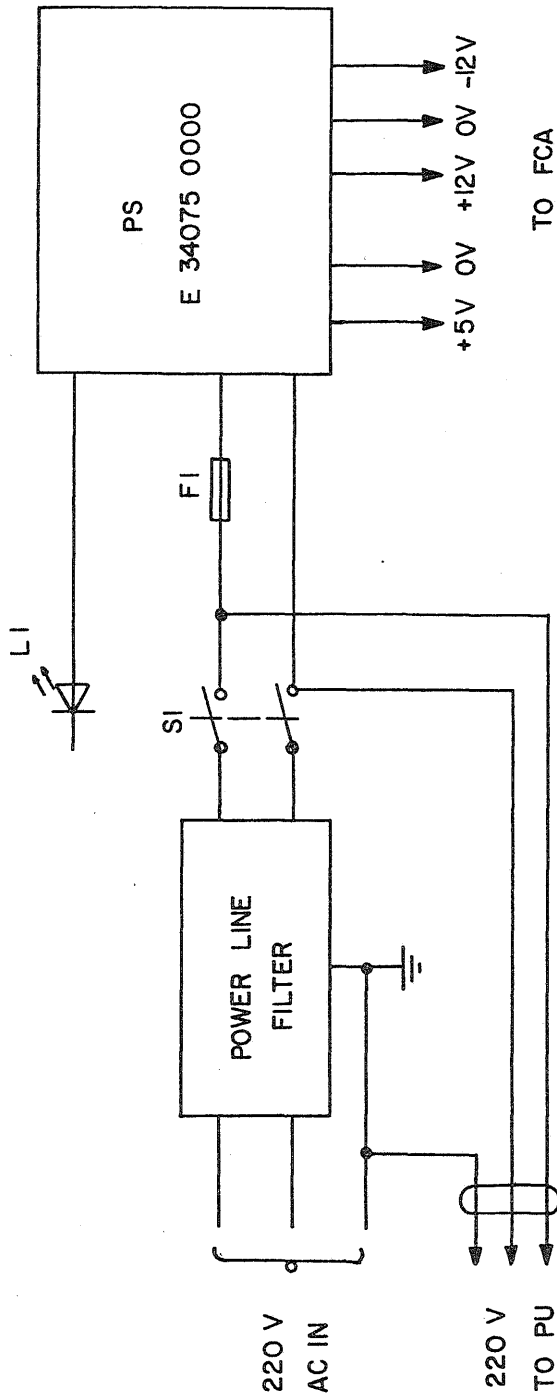
BCRB
 Rev. 1 | 850223

Material		Ytbeläggning Coating		Diameter Diameters		Ytjämnhet Surface quality		SMS 673 R _z		µm	
Måttolerans (Där ej annat angivits) Tolerances (Unless otherwise specified)		Övrigt mått Other dimensions		Mått Dimensions		Mått gäller före ytbeläggning Dimensions do not include coating		Gräffria kanter Edges free from burr			
Utförd Issued	9288 KH	Datum Date	620701	BCRB		ERICSSON		E34161 2000 1		2 Blad 2 Sheets	
Kontroll Check	8831 L-D	Skala Scale	62673	Bar code reader board							
Godkänn Approved	8831 L-D										

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FCU BLOCK DIAGRAM



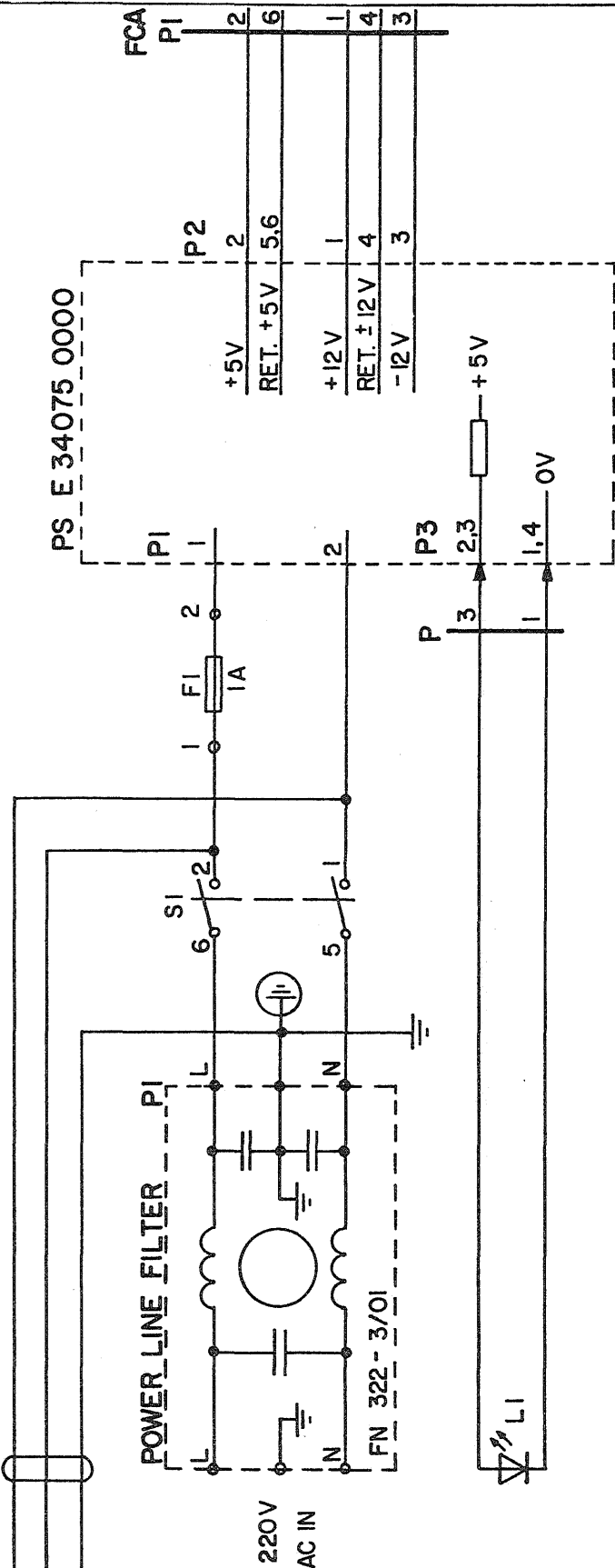
E 34135 2000 4

Material			
Ytbeläggning Coating			
Mättnoggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _a μm
	Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Gradfria kanter Edges free from burr
Utförd Issued	8315 P.O.S.	Datum Date	830225
Kontr Check	<i>[Signature]</i>	Skala Scale	
Godk Approv	706929		22045 AD
FCU		ERICSSON	
BLOCK DIAGRAM		E 34135 2000 4	
		2 Blad Sheet	
		1	

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POWER CABLE TO PU, E 34110 4005



E 34135 2000 4

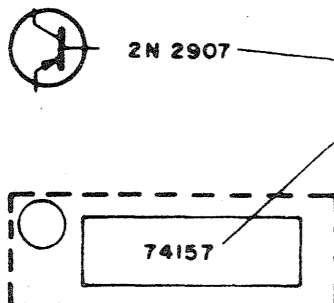
Material							
Ytbeläggning Coating							
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)		Diametrar Diameters		Ytjämnhet Surface quality SMS 673 R _a		μm	
		Övriga längdmått Other dimensions		Mått gäller före ytbeläggning Dimensions do not include coating		Gradfria kanter Edges free from burr	
Utförd Issued	8315 P.O.S.	Datum Date	830225	FCU			
Kontr Check		Skala Scale					
Godk Approv			22045 A.D	CIRCUIT DIAGRAM		E 34135 2000 4	
						2 Blad Sheet	
						2	

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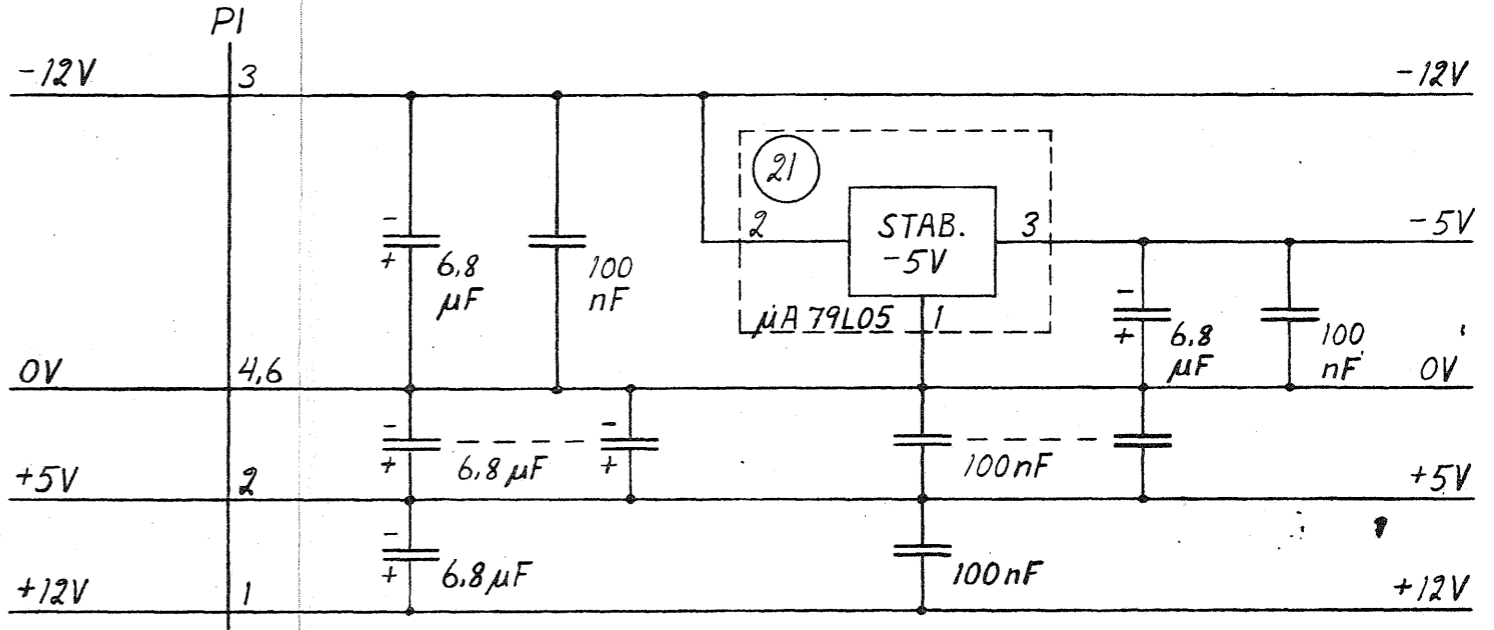
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13	12	11	10	9	8	7	6	5	4	3	2	1
23	22	21	20	19	18	17	16	15	14	13	12	11
34	33	32	31	30	29	28	27	26	25	24	23	22
45	44	43	42	41	40	39	38	37	36	35	34	33
56	55	54	53	52	51	50	49	48	47	46	45	44
67	66	65	64	63	62	61	60	59	58	57	56	55
78	77	76	75	74	73	72	71	70	69	68	67	66
89	88	87	86	85	84	83	82	81	80	79	78	77
90	89	88	87	86	85	84	83	82	81	80	79	78

TEST POINTS	
NO	SIGNAL
1	
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41	
42	OV



* INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC12	74LS00
IC7,11	04
IC9	32
IC16	74S37
IC8	74LS74
IC10	109
IC5	161
IC1,22	163
IC17	164
IC2	166
IC6	174
IC4	75188A
IC18	75452B
IC3	1489A
IC13,14	ULA2C143
IC15	MC3430
IC20	LM733C
IC19	MPQ 2222
IC21	μA79L05
Z1	ESBR 5501

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS / PIN
+1	R3
+2	R5
+3	R6
+4	R26

Example: +I CONN. TO R
+IG CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS			
NUMBER	SH	MOD.			
E 34074 2000 3	1	REV.			
" "	4	2	"		
" "	1	3	"		
			"		
			"		
			"		
			"		
			"		
			"		
			"		
			"		

ASSEMBLY DRAWING NO. E 34074 0000 31

INGÅR A. EN A. SO USE ON	REG NR	
FÖRST ANVÄND FÖRST ANVÄND	REG NO	
KONTROLL CHECK	APPR. AL	
SKA. E S.A. E	MODER CO-EC	
UTFÖRD ISSUED	340326	
FCA FIBER-OPTIC COMM. ADAPTER		ERICSSON E34074 2000 3
		3 BLAD SHEET

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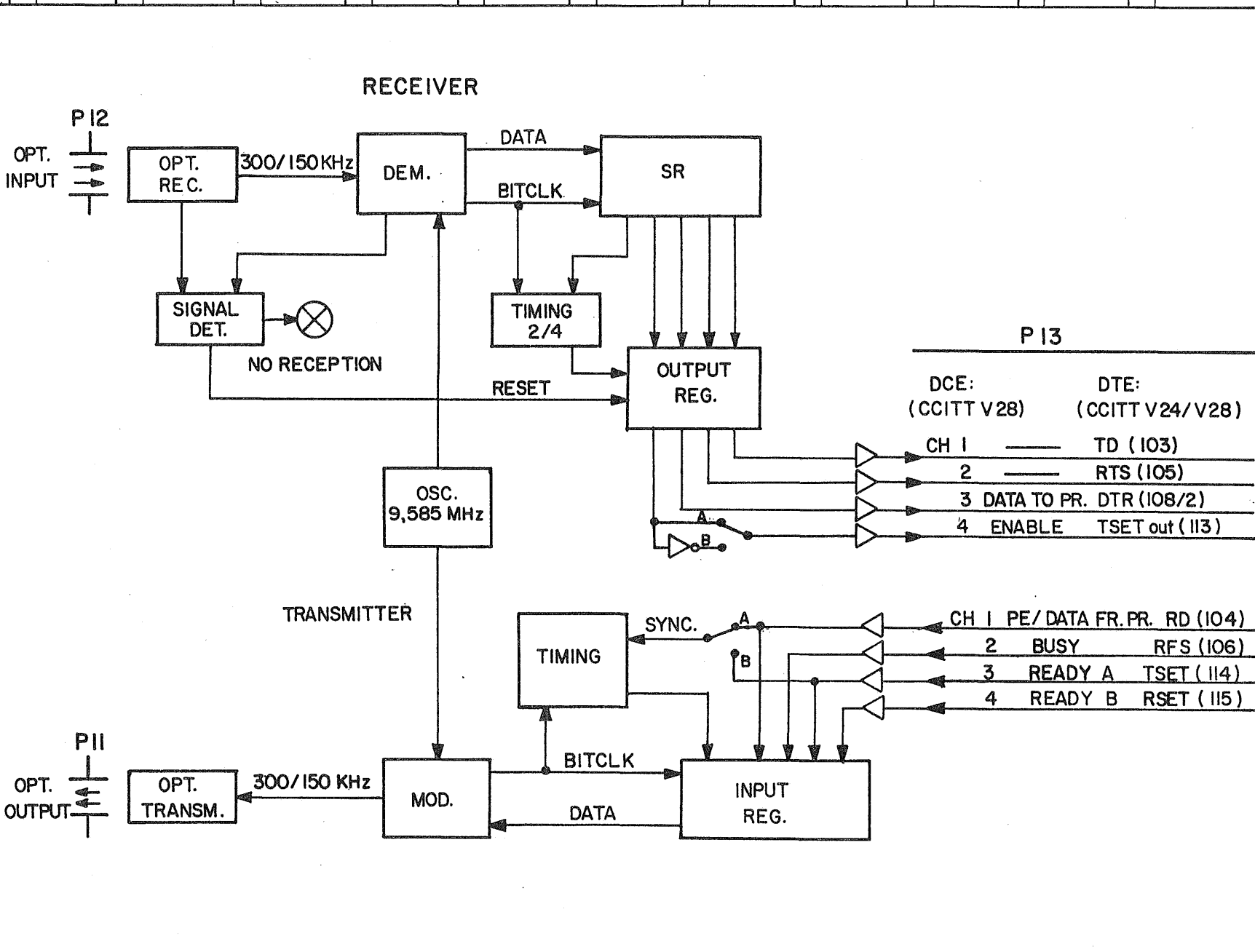
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E 34074 2000 4

Rev. 1 8315 2 602138 2 840824

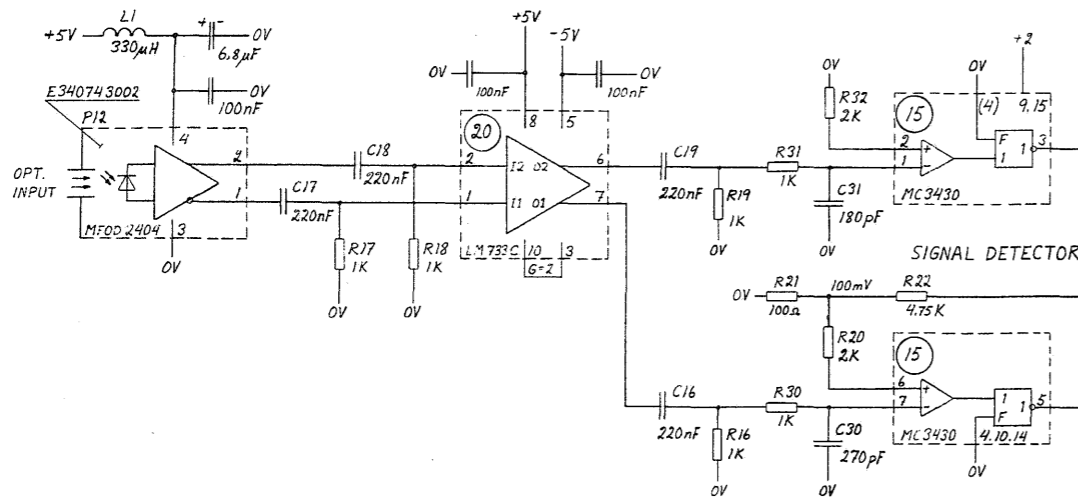
AN56500077

Material	Ytbeläggning	Mättnoggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality SMS 673 Ra	Gradfria kanter Edges free from burr
Utförd Issued	8315 POS	Datum Date	Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	
Kontr. Check		Skala Scale			
Godk. Approv					
		830225			
		22045 AD			
BLOCK DIAGRAM			ERICSSON		
E 34074 2000 4			Blad Sheet		
			3 2		



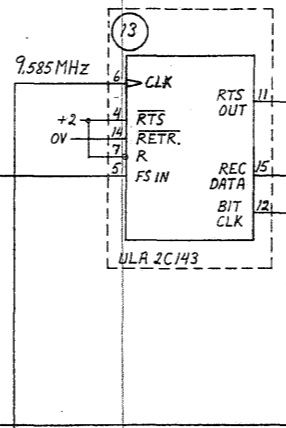
***** cad 7353 VELVETEX 30

OPTICAL RECEIVER

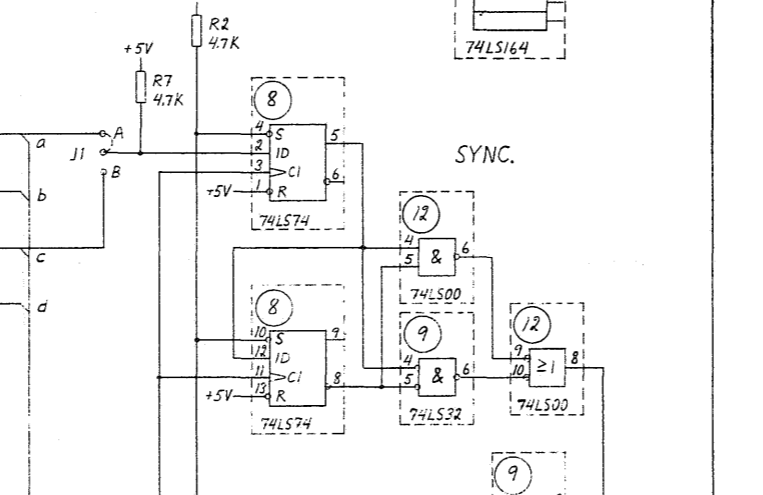
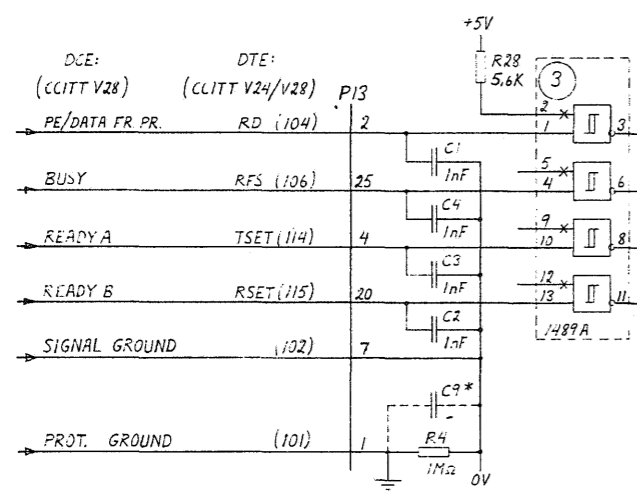
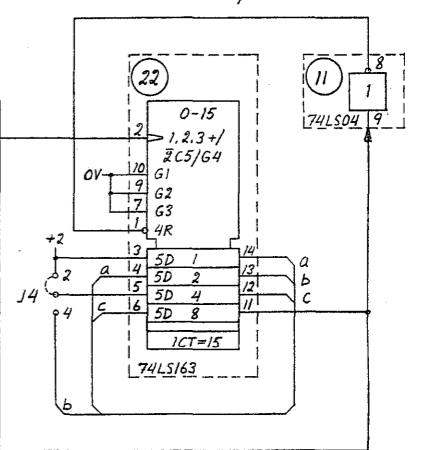


RECEIVER

DEMODULATOR

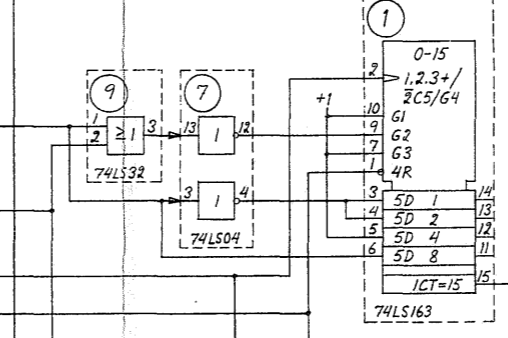


TIMING 2/4

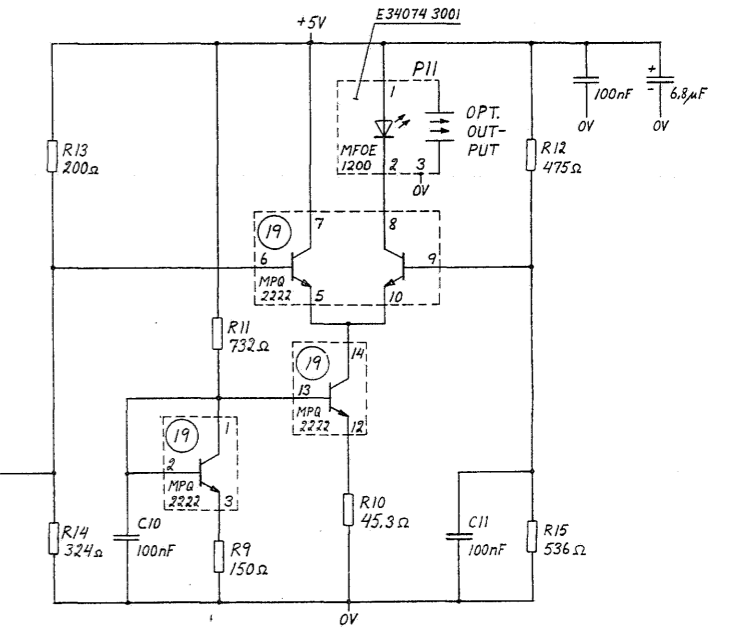


TRANSMITTER

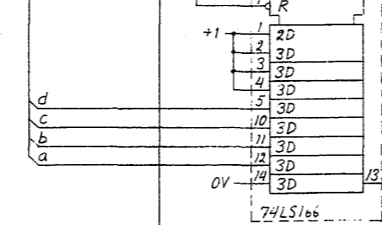
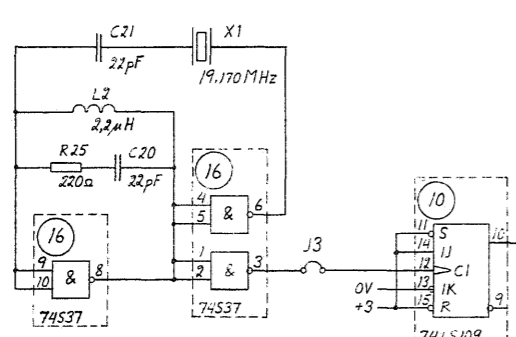
TIMING



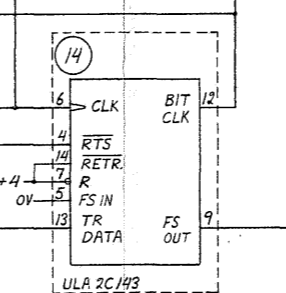
OPTICAL TRANSMITTER



OSCILLATOR



MODULATOR

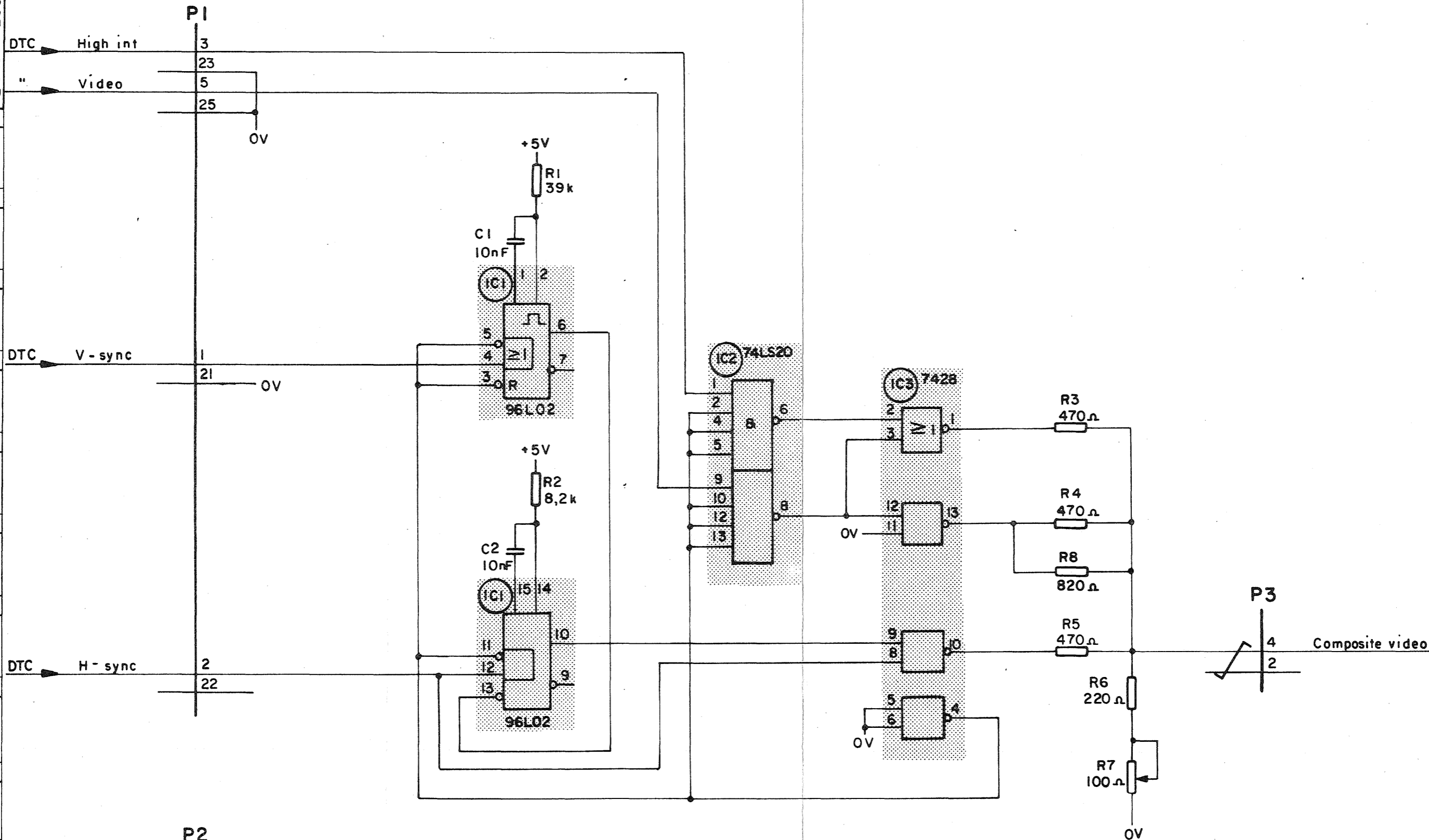


* C9: NOT CONNECTED

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E 34197 2000 3



CAB

Rev.

AN56500078

Material			
Ytbelagning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality SMS 673 Ra	µm
	Ovriga långdmått Other dimensions	Mått gäller före ytbelagning Dimensions do not include coating	Gradfria kanter Edges free from burr
Utförd Issued	8039 AL	Datum Date	820901
Kontr Check	8039 AL	Skala Scale	
Görk Approv	8837 JLO		62673 L-D
CAB CCTV Adapter board		ERICSSON	
			Blad Sheet

***** 006 7353 VELVETEX 30

Flexible Disk Unit

Contents

FDP Flexible Disk Processor

Reference Sheet	E34064 2000 2, sh 1
Block Diagram	E34064 2000 2, sh 2
Logic Diagram	E34064 2000 1, sh 3-4
Logic Diagram	E34064 2001 1, sh 1-2

FDA Flexible Disk Adapter

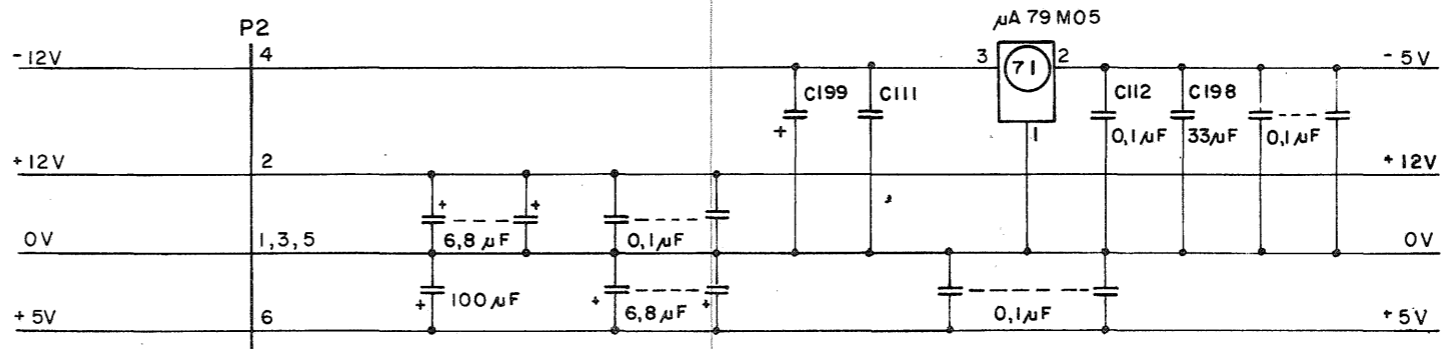
Reference Sheet	E34065 2001 3, sh 1A
Block Diagram	E34065 2001 2, sh 2A
Logic Diagram	E34065 2001 1, sh 3A, 4A, 5A
Logic Diagram (old layout)	E34065 2001 1, sh 1B, 2B
Reference Sheet	E34065 2002 2, sh 1
Block Diagram	E34065 2002 3, sh 2
Logic Diagram	E34065 2002 1, sh 3-5

RB Relay Board

Logic Diagram	E34080 2000 4
---------------	---------------

E34064 2000 2

TEST POINTS	
NO	SIGNAL
1	
2	* 8 MHz
3	
4	DBE 6800
5	
6	
7	
8	RAM 1
9	RAM 2
10	
11	MASK FF Ex
12	
13	
21	
22	
23	
24	PROM
25	I/O
26	
27	Ø1
28	Ø2
29	
30	
31	
32	MIC PIA
33	



COMPONENT LIST

NO	TYPE % /
IC 23	7486
IC 1	74S00
IC 11	74S08
IC 61	74S32
IC 44	74S74
IC 8	74S133
IC 20	74S163
IC 21, 31, 45, 58, 60	74S175
IC 17	74LS00
IC 27	74LS02
IC 19, 33	74LS04
IC 6, 7, 28, 48	74LS08
IC 2, 29, 35	74LS32
IC 12	74LS74
IC 5	74LS175
IC 9, 15, 16, 18, 24, 47	74LS244
IC 34, 42	74LS245
IC 4	74LS273
IC 40	74LS373
IC 37, 38	MC 2716
IC 10	MC 6800
IC 3	MC 6821
IC 22	MC 14536
IC 62	D3242
IC 49-56, 63-70	4116 P
IC 32, 36, 59	ROM32x8 Bit
IC 14	FPLA 82S100
IC 25	ROM256x4 Bit
IC 30	MPQ6842
IC 39, 41	8T28
IC 71	µA 79 M 05
R 46-48	680 Ω
R 40-45	1, 2 kΩ
XI	NC-18A(8MHz)

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

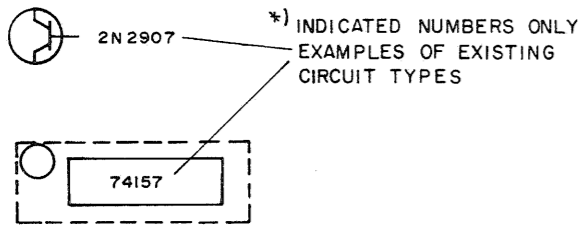
NO	POS / PIN
+ 1	R41/2,3
+ 2	R41/4,5
+ 3	R41/6,7
+ 4	R41/8
+ 5	R41/9
+ 6	R42/2
+ 7	R42/3
+ 8	R42/4
+ 9	R42/5
+ 10	R42/6
+ 11	R42/7
+ 12	R42/8
+ 13	R42/9
+ 14	R40/9
+ 15	R12
+ 16	R39
+ 17	R40/7

Example: +1 CONN. TO R
+16 CONN TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING	STATUS		
	NUMBER	SH	MOD. 3
E34064 2000 2	1	REV.	1
" " " "	2	"	"
" " " "	3	"	"
" " " "	4	"	"

ASSEMBLY DRAWING NO E34064 0000 2



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INGÅR AVEN I ALSO USED ON	REG-NR REG. No	ERICSSON Flexible disk processor E 34064 2000 2	4 BLAD SHEET
KONTR CHECK	GODK APPROV		
SKALA SCALE	KOPIER COPIED		
UTFÖRD ISSUED	KEA		

E34064 2000 2

REV. 1830301 2

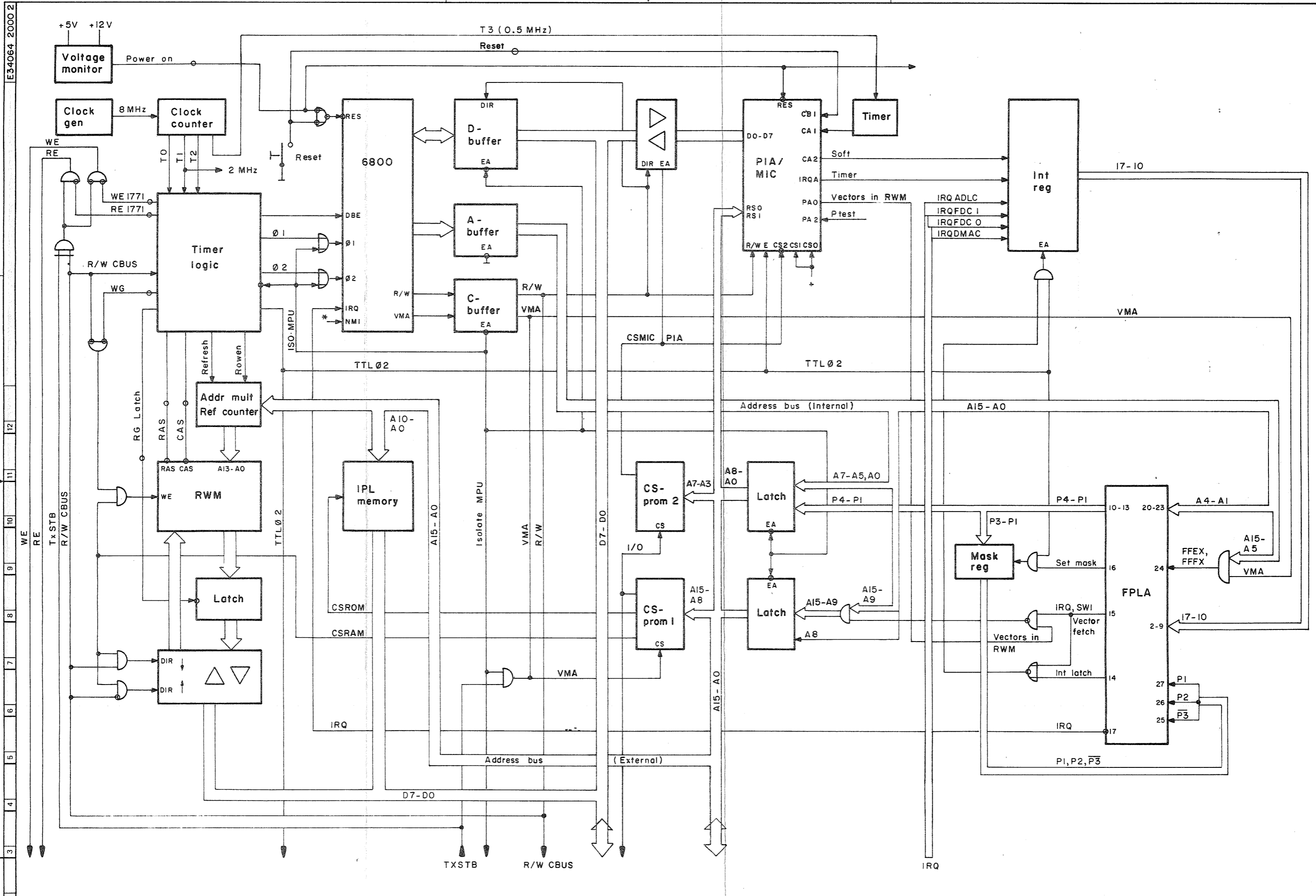
Omitrad

BL 301.23 Oca-Inguet 557-672

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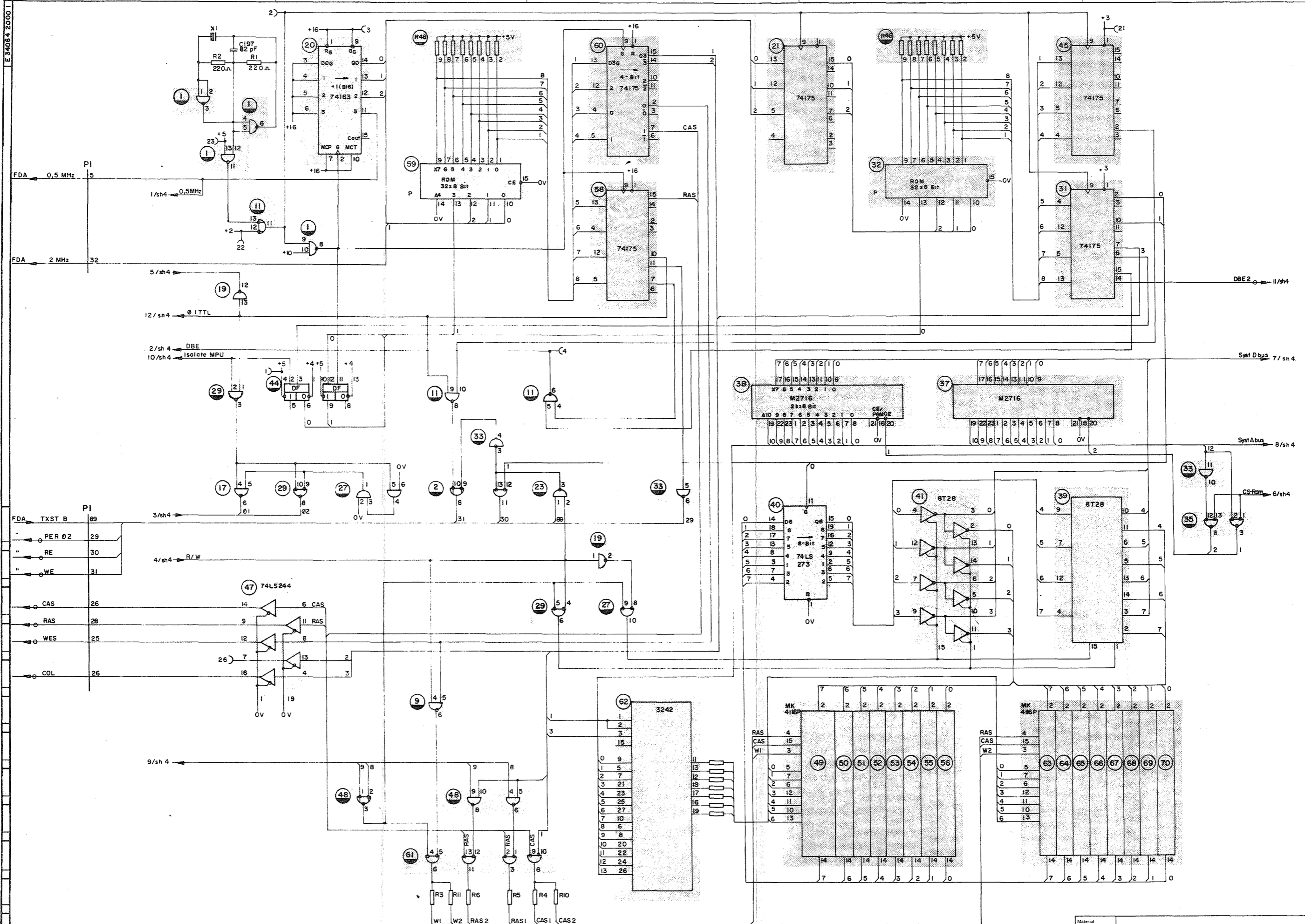
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* NMI from MCP

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KONTR. CHECK	8978	GODK. APPROV.	8837
SKALA	SCALE	KOPIER COPIED	9328
UTFORDR. ISSUED	9776	MG	800124

FDP	ERICSSON
Flexible Disk Processor	E34064 2000 2
	BLAD SHEET 2

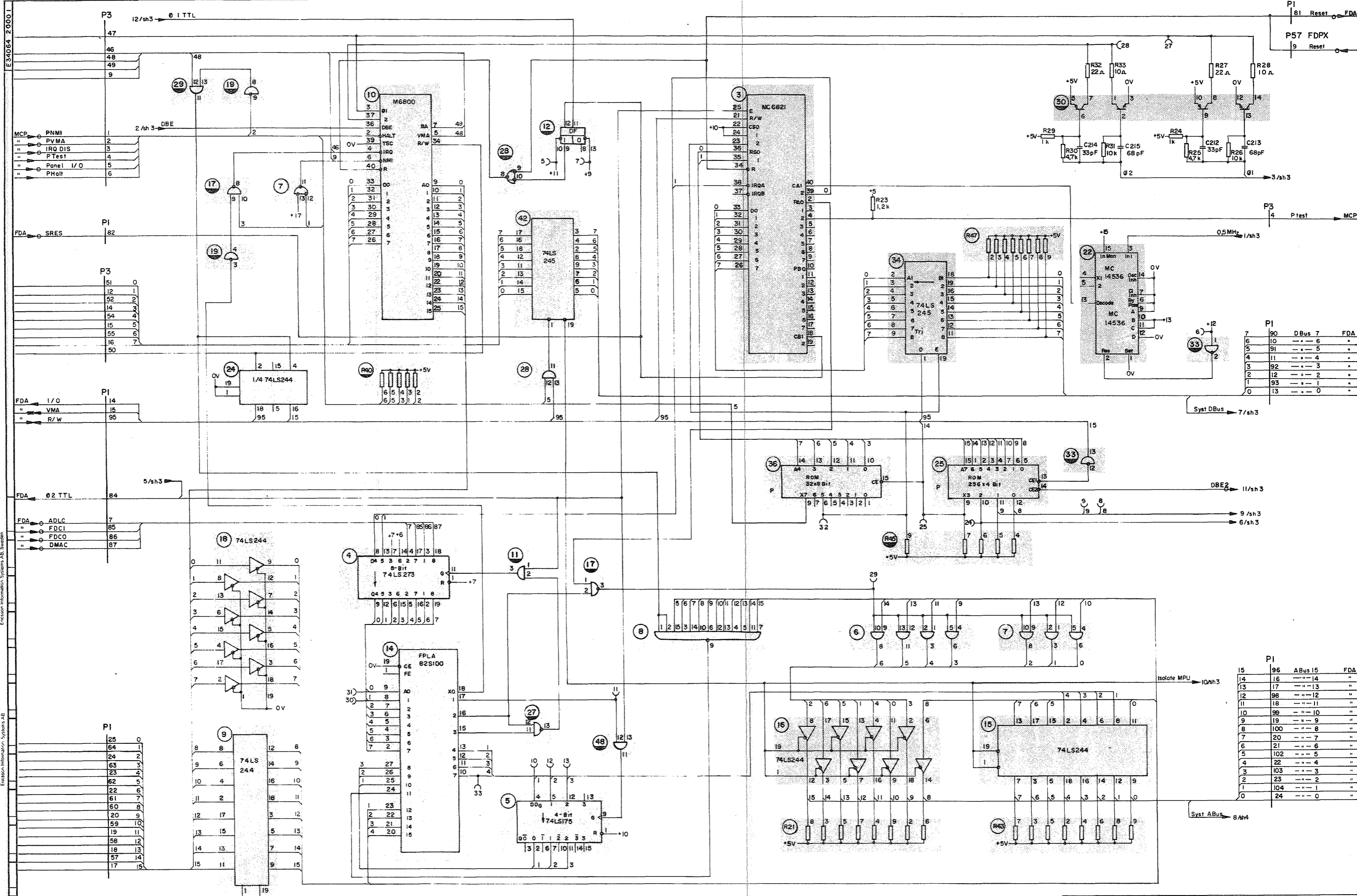


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* = To be tested out
 P = Programming and strapping see separate documentation

Material		Ytbeläggning		Coating	
Måttolerans		Diameter		Ytjämnhet	
Tolerances		Diameters		Surface quality	
Other dimensions		Other dimensions		SMS 873 R _a	
Utfordrad		Date		Mått gäller före ytbeläggning	
Issued		Date		Dimensions do not include coating	
Kontroll		Date		Gradfri kantar	
Checked		Date		Edges free from burr	
Godkänn		Date		ERICSSON	
Approved		Date		FDP	
				Flexible disk processor	
				E 34064 2000 1	
				4 of 3	
				Sheet	
				3	



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F0P
 Rev. 1.1 83.03.10
 Omitted

Syst DBus → 7/sh3

7	90	DBus 7	FDA
6	10	---	6
5	91	---	5
4	11	---	4
3	92	---	3
2	12	---	2
1	93	---	1
0	13	---	0

Isolate MPU → 10/sh3

15	96	ABus 15	FDA
14	16	---	14
13	17	---	13
12	98	---	12
11	18	---	11
10	99	---	10
9	19	---	9
8	100	---	8
7	20	---	7
6	21	---	6
5	102	---	5
4	22	---	4
3	103	---	3
2	23	---	2
1	104	---	1
0	24	---	0

Syst ABus → 8/sh4

P = Programming and strapping
see separate documentation

Material			
Ytbeläggning			
Coating			
Måttögngränshet	Diameter	Ytfinish	SMS 673 R ₃
(Där ej annat angivits)	(Där ej annat angivits)	Surface quality	µm
Tolerances	Övriga mått	Mått gäller före ytbeläggning	Grädfria kanter
(Unless otherwise specified)	Other dimensions	Dimensions do not include coating	Edges free from burr
Utförd	9466	Datum	
Issued	1.9	Date	810218
Kontr	1/19	Skala	FDP
Check	1/19	Scale	Flexible disk processor
Godk	1/21	62673	
Approv	1/21	LD	

ERICSSON

E34064 2000 I

4 of 4

P3

TEST 4	1
TEST 3	2
TEST 2	3
TEST 1	4
TEST 0	5
TEST 4B	6
TEST 4A	7
TEST 4C	8
TEST 4D	9
TEST 4E	10
TEST 4F	11
TEST 4G	12
TEST 4H	13
TEST 4I	14
TEST 4J	15
TEST 4K	16
TEST 4L	17
TEST 4M	18
TEST 4N	19
TEST 4O	20
TEST 4P	21
TEST 4Q	22
TEST 4R	23
TEST 4S	24
TEST 4T	25
TEST 4U	26
TEST 4V	27
TEST 4W	28
TEST 4X	29
TEST 4Y	30
TEST 4Z	31
TEST 4AA	32
TEST 4AB	33
TEST 4AC	34
TEST 4AD	35
TEST 4AE	36
TEST 4AF	37
TEST 4AG	38
TEST 4AH	39
TEST 4AI	40
TEST 4AJ	41
TEST 4AK	42
TEST 4AL	43
TEST 4AM	44
TEST 4AN	45
TEST 4AO	46
TEST 4AP	47
TEST 4AQ	48
TEST 4AR	49
TEST 4AS	50

PADUP 5	1
PADUP 4	2
PADUP 3	3
PADUP 2	4
PADUP 1	5
PADUP 0	6
PADUP 4B	7
PADUP 4A	8
PADUP 4C	9
PADUP 4D	10
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PADUP 4F	12
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PADUP 4J	16
PADUP 4K	17
PADUP 4L	18
PADUP 4M	19
PADUP 4N	20
PADUP 4O	21
PADUP 4P	22
PADUP 4Q	23
PADUP 4R	24
PADUP 4S	25
PADUP 4T	26
PADUP 4U	27
PADUP 4V	28
PADUP 4W	29
PADUP 4X	30
PADUP 4Y	31
PADUP 4Z	32
PADUP 4AA	33
PADUP 4AB	34
PADUP 4AC	35
PADUP 4AD	36
PADUP 4AE	37
PADUP 4AF	38
PADUP 4AG	39
PADUP 4AH	40
PADUP 4AI	41
PADUP 4AJ	42
PADUP 4AK	43
PADUP 4AL	44
PADUP 4AM	45
PADUP 4AN	46
PADUP 4AO	47
PADUP 4AP	48
PADUP 4AQ	49
PADUP 4AR	50
PADUP 4AS	51
PADUP 4AT	52
PADUP 4AU	53
PADUP 4AV	54
PADUP 4AW	55
PADUP 4AX	56
PADUP 4AY	57
PADUP 4AZ	58
PADUP 4BA	59
PADUP 4BB	60
PADUP 4BC	61
PADUP 4BD	62
PADUP 4BE	63
PADUP 4BF	64
PADUP 4BG	65
PADUP 4BH	66
PADUP 4BI	67
PADUP 4BJ	68
PADUP 4BK	69
PADUP 4BL	70
PADUP 4BM	71
PADUP 4BN	72
PADUP 4BO	73
PADUP 4BP	74
PADUP 4BQ	75
PADUP 4BR	76
PADUP 4BS	77
PADUP 4BT	78
PADUP 4BU	79
PADUP 4BV	80
PADUP 4BW	81
PADUP 4BX	82
PADUP 4BY	83
PADUP 4BZ	84
PADUP 4C0	85
PADUP 4C1	86
PADUP 4C2	87
PADUP 4C3	88
PADUP 4C4	89
PADUP 4C5	90
PADUP 4C6	91
PADUP 4C7	92
PADUP 4C8	93
PADUP 4C9	94
PADUP 4CA	95
PADUP 4CB	96
PADUP 4CC	97
PADUP 4CD	98
PADUP 4CE	99
PADUP 4CF	100

IC1 =	IC46 = 74LS280	C39 = 68p	R28 = 10k
2 = 68A21	47 = 74LS109	C40 = 68p	29 = 68k
3 = MC14536	48 = 74LS08	C41 = 33p	30 =
4 = 74LS273	49 = 6330	C42-56 = 0.1μ	31 = 2.2k
5 = 92S100	50 = 74LS04	C57 =	32 = 10k
6 = 74LS20	51 = 74LS32	C58-59 = 6.8μ	33 = 8x680
7 = 74LS244	52 =	C60-61 = 100μ	34 = 8x4.7k
8 = 74LS245	53 = 74LS273	C62-70 = 0.1μ	35-93 = 27
9 = 74LS08	54-61 = 4116	C71-72 = 6.8μ	44 = 1.2k
10 = 74LS138	62 = 4116	C73-94 = 0.1μ	45 = 270
11 = 74LS244	63 =	C95-96 = 6.8μ	46 = 15k
12 = 68A00	64 = 74LS27	C97-122 = 0.1μ	47 = 15k
13 = MP06842	65 = 74LS32	C123-133 = 6.8μ	48 = 1.0k
14 = 74S00	66 =	X1 = 8MHz	49 = 680
15 =	67 = 74S02		50 = 680
16 = 74LS08	68-75 = 4116		51 = 47
17 = 74LS175	76 = 4116		52 = 1.0k
18 =	77 = μA79M05		
19 = 74LS30		R1 = 220	
20 = 74LS244		2 = 220	
21 = 74LS245		3 = 8x1.2k	
22 = 74LS08		4 = 10k	
23 = 74LS30		5 = 8x1.2k	
24 = 74LS04		6 = 8x1.2k	
25 = 74S00		7 = 8x1.2k	
26 = 74LS16		8 = 8x1.2k	
27 = 74LS109		9 = 10	
28 = 74LS86		10 = 10	
29 = 74LS04		11 = 1.0k	
30 = 74LS175		12 = 22	
31 = 74LS04		13 = 22	
32 = 74LS32		14 = 1.0k	
33 = 74LS08		15 = 4.7k	
34 = 74LS00		16 = 10k	
35 = 74LS00		17 = 10k	
36 =		18 = 4.7k	
37 = 74LS161		19 = 8x1.2k	
38 = 74LS273		20 = 8x10k	
39 = 74LS02		21 = 1.5k	
40 = 74LS107		22 =	
41 = 74LS00		23 = 1.2k	
42 = 3242		24 = 1.5k	
43 = 2716		25 = 470	
44 = 2716		26 =	
45 = 74LS245		27 = 470	

* ONLY IF POWERSEQUENCE CIRCUIT IS USED

** ONLY IF PARITY CHECK CIRCUIT IS USED

PIN X IN TESTCONNECTOR P4

Control Panel Interface

MPU Clock Driver

Power Sequence

Power-On Reset

16-Address Decoder

Interrupt Logic

MPU Bus Gate

Memory Address Decoder

Parallel Interface

Interval Timer

Strap Field

SHEET 2

ABUS

DBUS

PCBES

PCBEC

PCBCE

PCBES

PCBES

PCBES

PCBES

PCBES

PCBES

ON MAGOT AR OKLART: FRAGAI
 IF IN DOUBT: ASKI
 Denna handling är en del av produkten och ska inte användas separat.
 Översättningar och andra ändringar ska göras enligt följande.
 Ericsson Information Systems AB

17 18 19 20 21 22 23 24 25 26 27

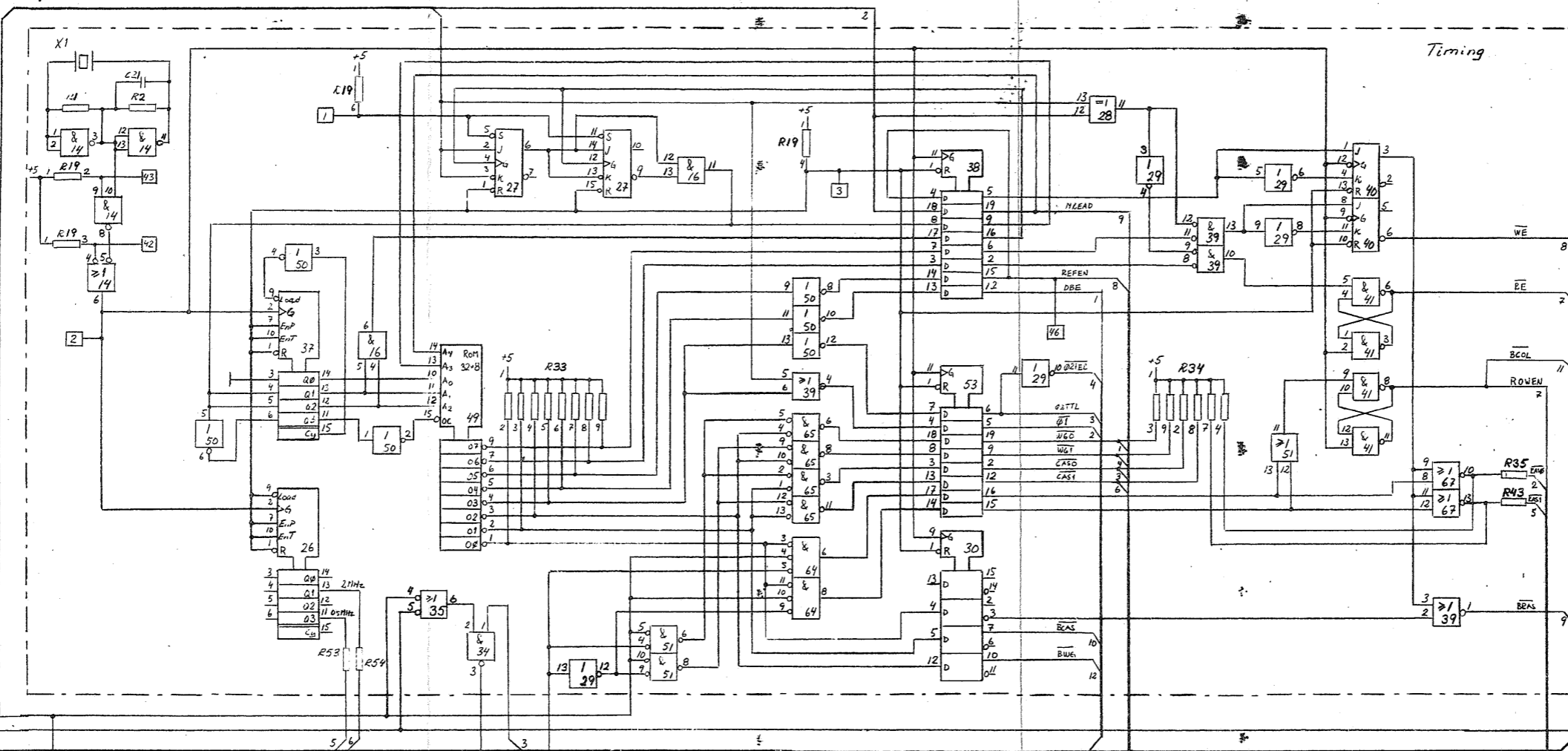
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OM NÅGDT ÅN OKLART: FRÅGAI IF INDOUBT: ASKI

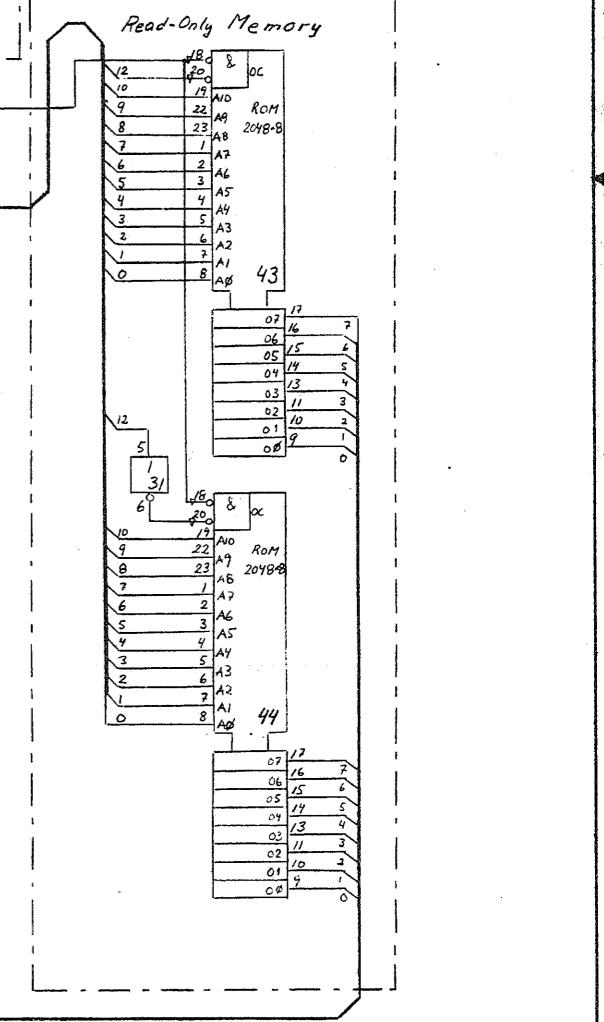
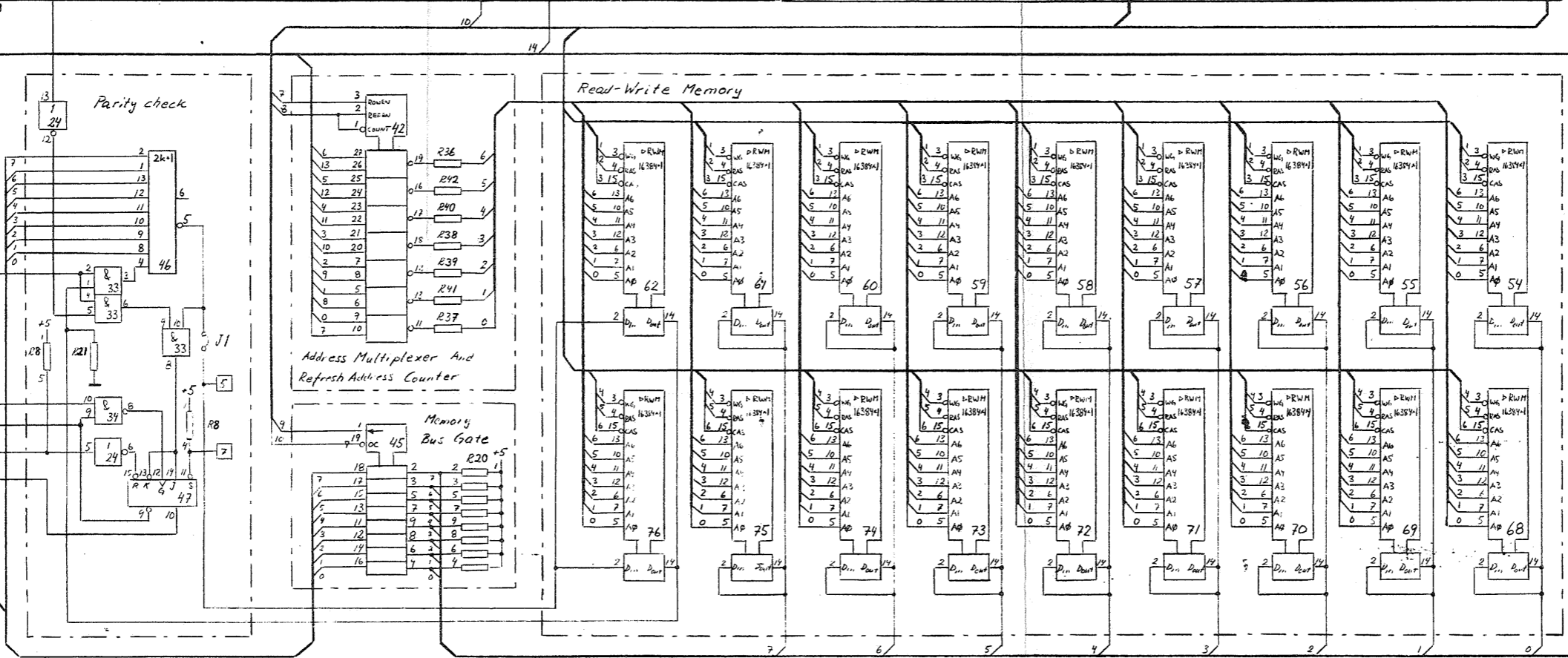
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SHEET 1

ISOLM 1
R/A/B 2
CSAMT 3
CSZOM 4
DBE 5
BT 6
Z2TTL 7
Z2PEE 8
0.5MHz 9
2MHz 10
RE 11
WE 12
BCAS 13
BCOL 14
PCNMT 15
PCRES 16
PCERR 17
A-BUS 18
D-BUS 19



- Timing**
- IC1 =
 - 2=68A21
 - 3=MC14536
 - 4=74LS273
 - 5=82S100
 - 6=74LS20
 - 7=74LS244
 - 8=74LS245
 - 9=74LS08
 - 10=74LS138
 - 11=74LS244
 - 12=68A00
 - 13=MPQ6842
 - 14=74S00
 - 15=
 - 16=74LS02
 - 17=74LS175
 - 18=
 - 19=74LS30
 - 20=74LS244
 - 21=74LS245
 - 22=74LS08
 - 23=74LS30
 - 24=74LS04
 - 25=74S00
 - 26=74LS163
 - 27=74LS109
 - 28=74LS86
 - 29=74LS04
 - 30=74LS175
 - 31=74LS04
 - 32=74LS32
 - 33=74LS08
 - 34=74S00
 - 35=74LS00
 - 36=
 - 37=74LS161
 - 38=74LS273
 - 39=74LS02
 - 40=74LS107
 - 41=74LS00
 - 42=3242
 - 43=2716
 - 44=2716
 - 45=74LS245
- IC46 = 74LS280 **
 - 47 = 74LS109
 - 48 = 74LS08
 - 49 = 6330
 - 50 = 74LS04
 - 51 = 74LS32
 - 52 =
 - 53 = 74LS273
 - 54 = 61 = 4116 **
 - 62 = 4116 **
 - 63 =
 - 64 = 74LS27
 - 65 = 74LS32
 - 66 =
 - 67 = 74S02
 - 68 = 75 = 4116 **
 - 76 = 4116 **
 - 77 = μ A79M05
- C39 = 68p
 - C40 = 68p
 - C41 = 33p
 - C42 = 56 = 0.1 μ
 - C43 =
 - C44 = 59 = 6.8 μ
 - C45 = 60 = 61 = 100 μ
 - C46 = 70 = 0.1 μ
 - C47 = 72 = 6.8 μ
 - C48 = 74 = 0.1 μ
 - C49 = 76 = 6.8 μ
 - C50 = 77 = 0.1 μ
 - C123 = 135 = 6.8 μ
- R28 = 10k
 - 29 = 68k
 - 30 =
 - 31 = 2.2k
 - 32 = 10k
 - 33 = 8 x 680
 - 34 = 8 x 4.7k
 - 35 = 43 = 27
 - 36 = 44 = 1.2k
 - 37 = 45 = 270
 - 38 = 46 = 15k
 - 39 = 47 = 15k
 - 40 = 48 = 10k
 - 41 = 49 = 680
 - 50 = 680
 - 51 = 47
 - 52 = 10k
 - 53 = 120
 - 54 = 120
- Y1 =
 - 2 = BC547B
 - 3 = BC557A
 - 4 = BC547B
 - 5 = BFY50
 - 6 = BC547B *
 - 7 = BFY50 *
 - 8 = 2N6107 *
- X1 = 8MHz
 - R1 = 220
 - 2 = 220
 - 3 = 8 x 1.2k
 - 4 = 10k
 - 5 = 8 x 1.2k
 - 6 = 8 x 1.2k
 - 7 = 8 x 1.2k
 - 8 = 8 x 1.2k
 - 9 = 10
 - 10 = 10
 - 11 = 1.0k
 - 12 = 22
 - 13 = 22
 - 14 = 1.0k
 - 15 = 4.7k
 - 16 = 10k
 - 17 = 10k
 - 18 = 4.7k
 - 19 = 8 x 1.2k
 - 20 = 8 x 10k
 - 21 = 1.5k
 - 22 =
 - 23 = 1.2k
 - 24 = 1.5k
 - 25 = 470
 - 26 =
 - 27 = 470
- Z1 = IN4148
 - 2 = 62X55C5V6
 - 3 =
 - 4 = IN4148
 - 5 = 62X55C3V3 *
 - 6 = IN4148 *
 - 7 = IN5823 *
- C1 = 6 = 6.8 μ
 - C7 = 12 = 0.1 μ
 - C13 = 20 = 6.8 μ
 - C21 = 82p
 - C22 = 37 = 0.1 μ
 - C38 = 33p



X PW X IN TESTCONNECTOR P4

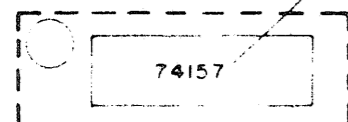
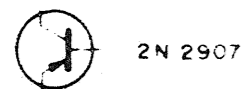
CALLER FOR KLICHE E34064 7001-1
VALID FOR PCB LAYOUT AND FEMDEN 7000-1

ANGAR AVEN I ALSO USED ON	REG-NR	REG. No
MONTH CHECK	100K	
SCALE	KOPPI	FDP
UNITED	COPIED	

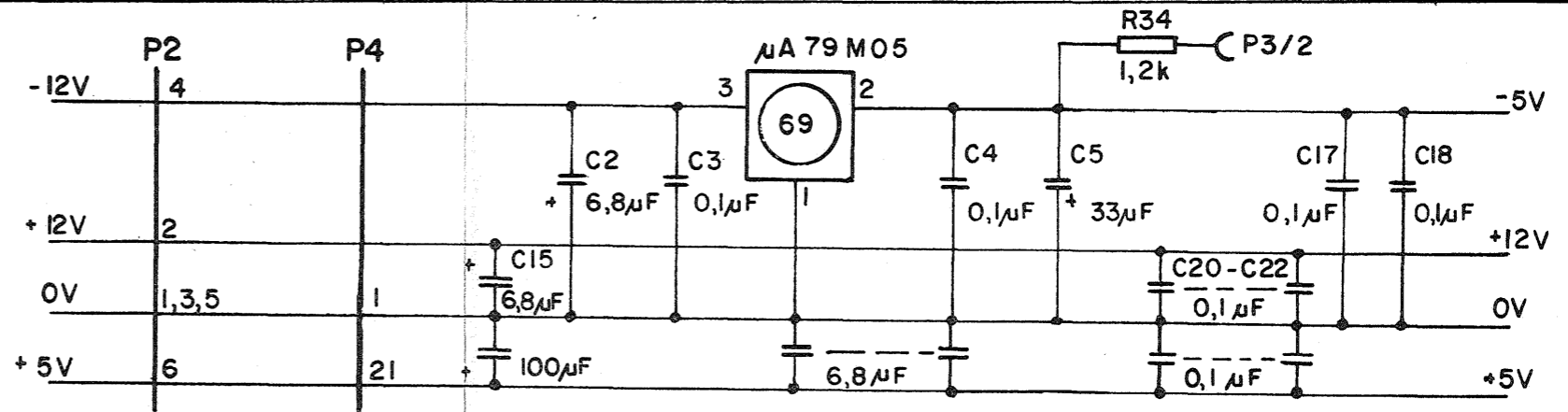
ERICSSON
CIRCUIT DIAGRAM
E34064 2001 1

13 E 34065 2001 3
 12
 11
 10
 9
 8
 7
 6
 5
 4
 3
 2
 1
 REV. 1 830301 2
 Omritad

TEST POINTS	
NO	SIGNAL
1	Mode rec data
2	-5V
3	HLD
4	HLD
5	+5 TTL
6	
7	+6 TTL
8	
9	DRQ 1
10	DRQ 2
11	RTS
12	CTS
13	+1 TTL
14	
15	
16	
17	
18	
19	
20	
21	En drive
22	+3 TTL
23	+4 TTL
24	
25	
26	
27	CS DMAC
28	CS FDA PIA
29	CS ADLC
30	CS FDC 0
31	— " —
32	Mod TR data
33	TR data
34	
35	
36	
37	
38	
39	
40	
41	
42	0V



* INDICATED NUMBERS ONLY
 EXAMPLES OF EXISTING
 CIRCUIT TYPES



COMPONENT LIST

NO	TYPE #/
IC37	7404
IC 28, 55, 57	7406
IC 46, 54	74LS00
IC16	74LS02
IC 27, 40, 43, 52, 56	74LS04
IC 48, IC51, IC53	74LS08
IC 66, 67, 68	74LS14
IC 4, 29	74LS32
IC15, 23, 25	74LS74
IC10, 65	74LS107
IC3	74LS155
IC8	74LS157
IC 49, 50, 61, 62	74LS161
IC 24	74LS174
IC11	74LS193
IC 6, 17, 18, 19, 32	74LS245
IC 22, 64	74LS273
IC 36	74S37
IC 39, 63	74S86
IC1	75452
IC 34, 35	1771
IC31	MC 6821
IC5	MC 6844
IC20	MC 6854
IC 7	ROM32x8 Bit
IC 21	ROM256x4 Bit
IC 9	MC14517
IC 58, 60	MC14536
IC12	MLM 339
IC13	TLO84
IC33, 44	8T26
IC 59	Jumper
IC 69	uA 79M05
Z1	IN 4148
Z3 4, 5	LD 52C
Z2, 6	LD 57C
Y1, 2, 3	BC 547
T1	66211 33
L1, 2	KS66300-B
X1	KS74103-40
R3, 41	220 Ω
R6, 42	330 Ω
R4	680 Ω
R1, 5, 43, 46	1, 2k
R2	10k

NOT USED INPUTS
 CONNECTED TO
 HIGH LEVEL (+5V)

NO	POS/PIN
+1	R5/3
+2	R5/5
+3	R5/6
+4	R5/7
+5	R43/2
+6	R43/3
+7	R43/8
+8	R43/9
+9	R2/4
+10	R2/5
+11	R2/8
+12	R2/9
+13	R45/4

Example: +1 CONN. TO R
 +10 CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS	
NUMBER	SH. MOD.	I	
E 34065 2001 3	1A REV.		
— " — 2	2A		
— " — 1	3A		
— " — 1	4A		
— " — 1	5A		

ASSEMBLY DRAWING NO. E 34065 0001 2

VALID FOR PCB LAYOUT E 34065 7000 -1

1938	8837
72	72
08978	62673
JP	L-D
790303	

FDA
 Flexible disk adapter

ERICSSON
 E 34065 2001 3
 5 BLAD SHEET
 1A

E34065 2001 2

12

11

10

9

8

7

6

5

4

3

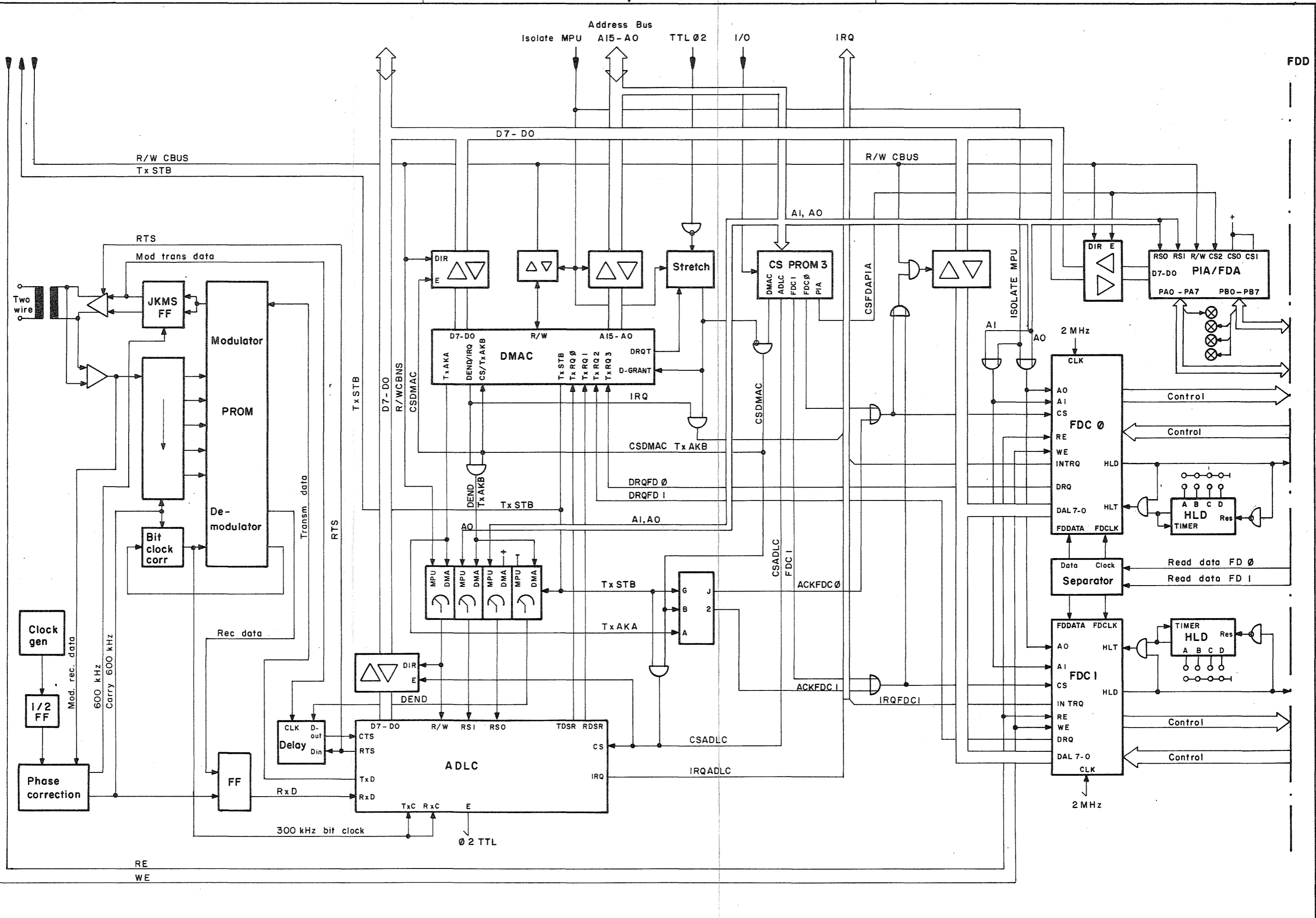
2

1

REV 1/830301

Omritad

Koperas, mangisidigas, alier, alier, adrogen unnyttias, O
 trädde bevaras med stöd av gällande lag
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 Ericsson Information Systems AB, Sweden.



INGAR AVEN I ALSO USED ON		REG-NR	REG. No
KONTR CHECK	9978	GODK APPROV	8837
SKALA SCALE	7/2	KOPIER COPIED	9328
UTFORD ISSUED	9776	MG	80018

FDA Flexible Disk Adapter

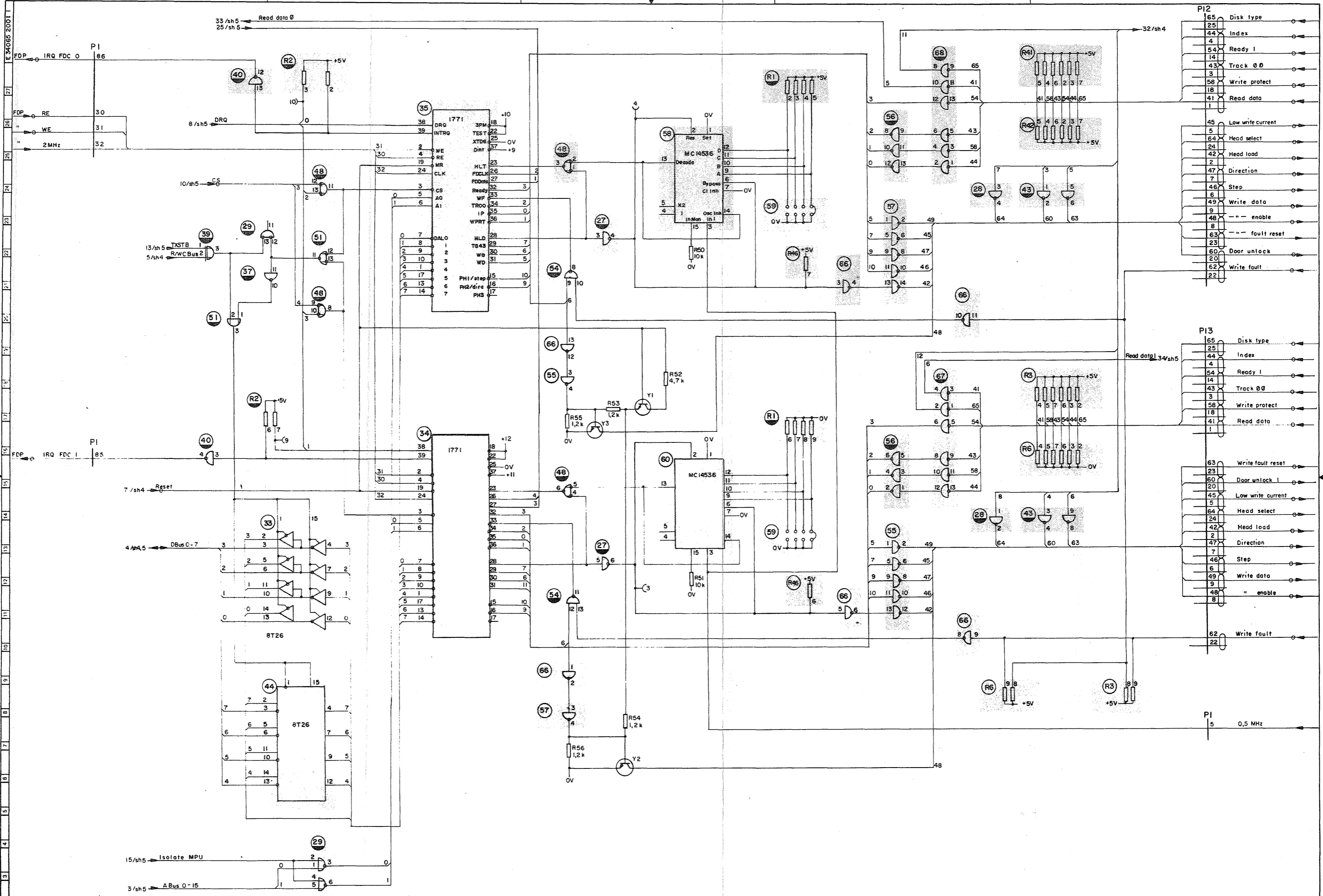
ERICSSON

E34065 2001 2 5 BLAD SHEET 2 A

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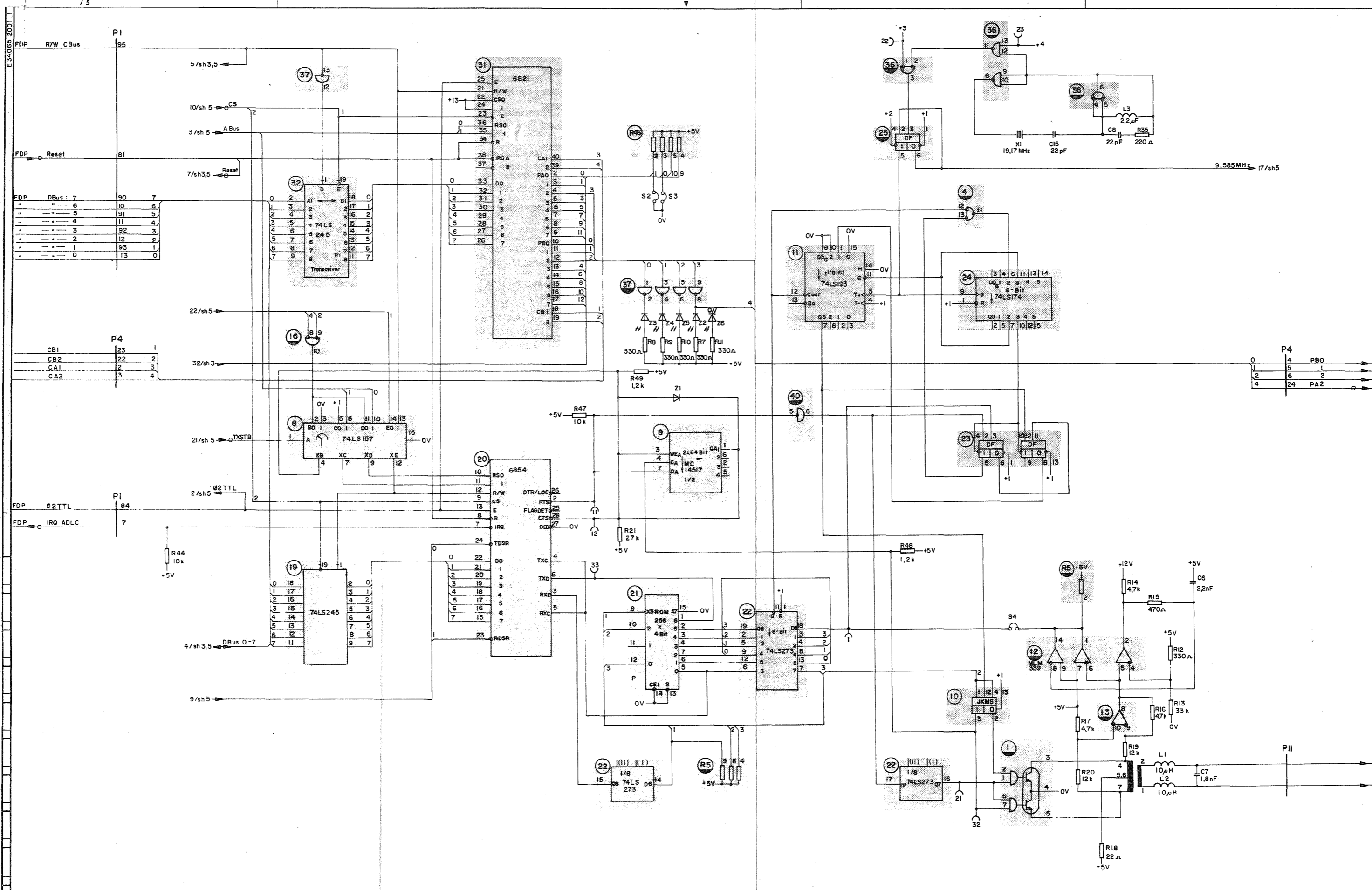
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VALID FOR PCB LAYOUT E34065 7000-1

INGÅR AVEN I ALSO USED ON	REG. NR REG. No
MONTH CHECK	1979
SCALE	2:1
UTGÅVA ISSUED	79 0303
FDA Flexible disk adapter	
ERICSSON E 34065 2001.1	



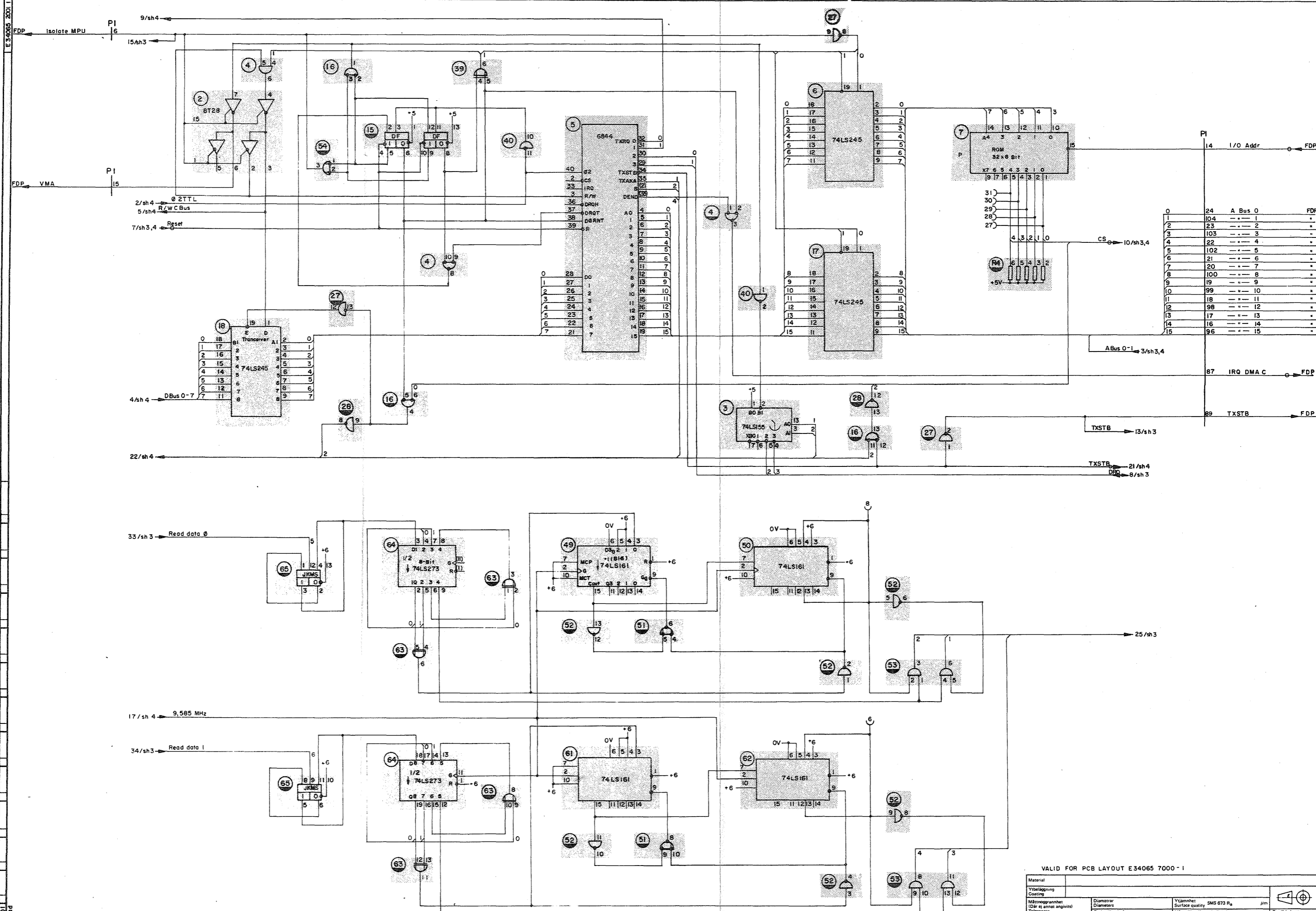
P=Programming and strapping, see separate documentation
 () = Repeated information

VALID FOR PCB LAYOUT E34065 7000-1

Material		Yribelagning		Coating	
Mätning		Diameter		Yutmätning	
Castings		Diameters		Surface quality	
Måttoleranser		Tolerances		SM5 873 R _a	
(IDär ej annat angivits)		(Unless otherwise specified)		Mått gäller före yribelagning	
Övriga mått		Other dimensions		Dimensions do not include coating	
Guldfrä kant		Gröddfrä kant		Edges free from burr	
Edges free from burr		Date		790303	
Urford		Date		790303	
Issued		Date		790303	
Kontr		Date		790303	
Check		Date		790303	
Godk		Date		790303	
Approv		Date		790303	
Scale		Scale		Scale	
L-D		L-D		L-D	
FDA		Flexible disk adapter		ERICSSON	
E 34065 2001 1		5		Sheet	
4 A		4 A		4 A	

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 användning av detta dokument för tekniska ändamål
 utan att behöva betala avgifter till följande
 Ericsson Information Systems AB



Pin	Signal	Value	Notes
0	A Bus 0	FDP	
1	104	---	1
2	23	---	2
3	103	---	3
4	22	---	4
5	102	---	5
6	21	---	6
7	20	---	7
8	100	---	8
9	19	---	9
10	99	---	10
11	18	---	11
12	98	---	12
13	17	---	13
14	16	---	14
15	96	---	15

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V.D.
 Rev. 1.0
 Omitad

VALID FOR PCB LAYOUT E34065 7000 - 1

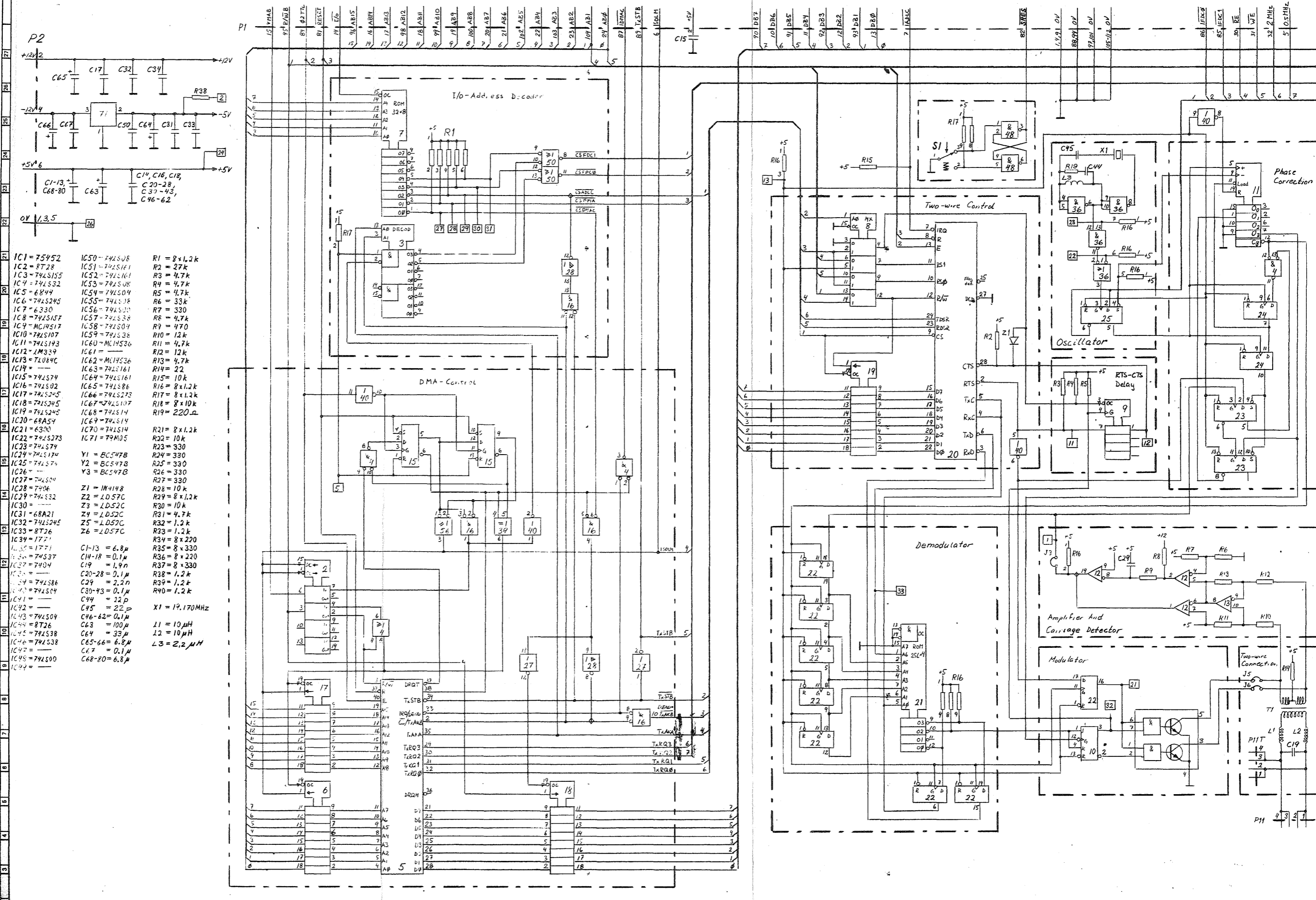
Material			
Ytbeläggning			
Coating			
Måttögngränshet (Där ej annat angivits)	Diametrar	Ytjämnhet	SMS 673 R ₀ μm
Tolerans	Diametrar	Ytjämnhet	
(Unless otherwise specified)	Övriga längdmått	Mått gäller före ytbeläggning	Gröflekta kanter
	Övriga dimensioner	Dimensions do not include coating	Edges free from burr
Utförd	9466	Datum	790303
Kontroll	2718	Skala	
Godkänn	2727	Skala	
Godkänn	2727	Skala	

FDA Flexible disk adapter

ERICSSON

E34065 2001 1 5 A

() = Repeated information



- | | | |
|----------------|----------------|----------------|
| IC1 = 75452 | IC50 = 74LS08 | R1 = 8 x 1.2k |
| IC2 = 8728 | IC51 = 74LS161 | R2 = 27k |
| IC3 = 74LS155 | IC52 = 74LS161 | R3 = 4.7k |
| IC4 = 74LS32 | IC53 = 74LS08 | R4 = 4.7k |
| IC5 = 6844 | IC54 = 74LS04 | R5 = 4.7k |
| IC6 = 74LS245 | IC55 = 74LS04 | R6 = 33k |
| IC7 = 6330 | IC56 = 74LS04 | R7 = 330 |
| IC8 = 74LS157 | IC57 = 74LS38 | R8 = 4.7k |
| IC9 = MC14517 | IC58 = 74LS04 | R9 = 470 |
| IC10 = 74LS107 | IC59 = 74LS38 | R10 = 12k |
| IC11 = 74LS193 | IC60 = MC14536 | R11 = 4.7k |
| IC12 = LM339 | IC61 = | R12 = 12k |
| IC13 = 71084C | IC62 = MC14536 | R13 = 4.7k |
| IC14 = | IC63 = 74LS161 | R14 = 22 |
| IC15 = 74LS74 | IC64 = 74LS161 | R15 = 10k |
| IC16 = 74LS02 | IC65 = 74LS86 | R16 = 8 x 1.2k |
| IC17 = 74LS245 | IC66 = 74LS273 | R17 = 8 x 1.2k |
| IC18 = 74LS245 | IC67 = 74LS107 | R18 = 8 x 10k |
| IC19 = 74LS245 | IC68 = 74LS14 | R19 = 220Ω |
| IC20 = 68A54 | IC69 = 74LS14 | |
| IC21 = 6300 | IC70 = 74LS14 | R21 = 8 x 1.2k |
| IC22 = 74LS273 | IC71 = 79M05 | R22 = 10k |
| IC23 = 74LS74 | | R23 = 330 |
| IC24 = 74LS174 | Y1 = BC547B | R24 = 330 |
| IC25 = 74LS74 | Y2 = BC547B | R25 = 330 |
| IC26 = | Y3 = BC547B | R26 = 330 |
| IC27 = 74LS04 | | R27 = 330 |
| IC28 = 7406 | Z1 = 1N4148 | R28 = 10k |
| IC29 = 74LS32 | Z2 = LD57C | R29 = 8 x 1.2k |
| IC30 = | Z3 = LD52C | R30 = 10k |
| IC31 = 68A21 | Z4 = LD52C | R31 = 4.7k |
| IC32 = 74LS245 | Z5 = LD52C | R32 = 1.2k |
| IC33 = 8T26 | Z6 = LD57C | R33 = 1.2k |
| IC34 = 1771 | | R34 = 8 x 220 |
| IC35 = 74S37 | | R35 = 8 x 330 |
| IC36 = 7404 | | R36 = 8 x 220 |
| IC37 = 7404 | | R37 = 8 x 330 |
| IC38 = | | R38 = 1.2k |
| IC39 = 74LS86 | | R39 = 1.2k |
| IC40 = 74LS04 | | R40 = 1.2k |
| IC41 = | | |
| IC42 = | | |
| IC43 = 74LS04 | | |
| IC44 = 8T26 | | |
| IC45 = 74LS38 | | |
| IC46 = 74LS38 | | |
| IC47 = | | |
| IC48 = 74LS00 | | |
| IC49 = | | |
-
- | | |
|---------------|---------------|
| C1-13 = 6.8μ | C14 = 0.1μ |
| C14-18 = 0.1μ | C19 = 1.9n |
| C20-28 = 0.1μ | C29 = 2.2n |
| C30-43 = 0.1μ | C44 = 22p |
| C44 = 22p | C45 = 22p |
| C46-62 = 0.1μ | C63 = 100μ |
| C64 = 33μ | C65-66 = 6.8μ |
| C67 = 0.1μ | C68-80 = 6.8μ |
-
- | |
|----------------|
| X1 = 19.170MHz |
| L1 = 10μH |
| L2 = 10μH |
| L3 = 2.2μH |

PIN X IN TESTCONNECTOR P3

GRAND FOR MACHINE E39065 2001-1
VARIANTE FOR MACHINE LAURENCE AUC E39065 2001-1

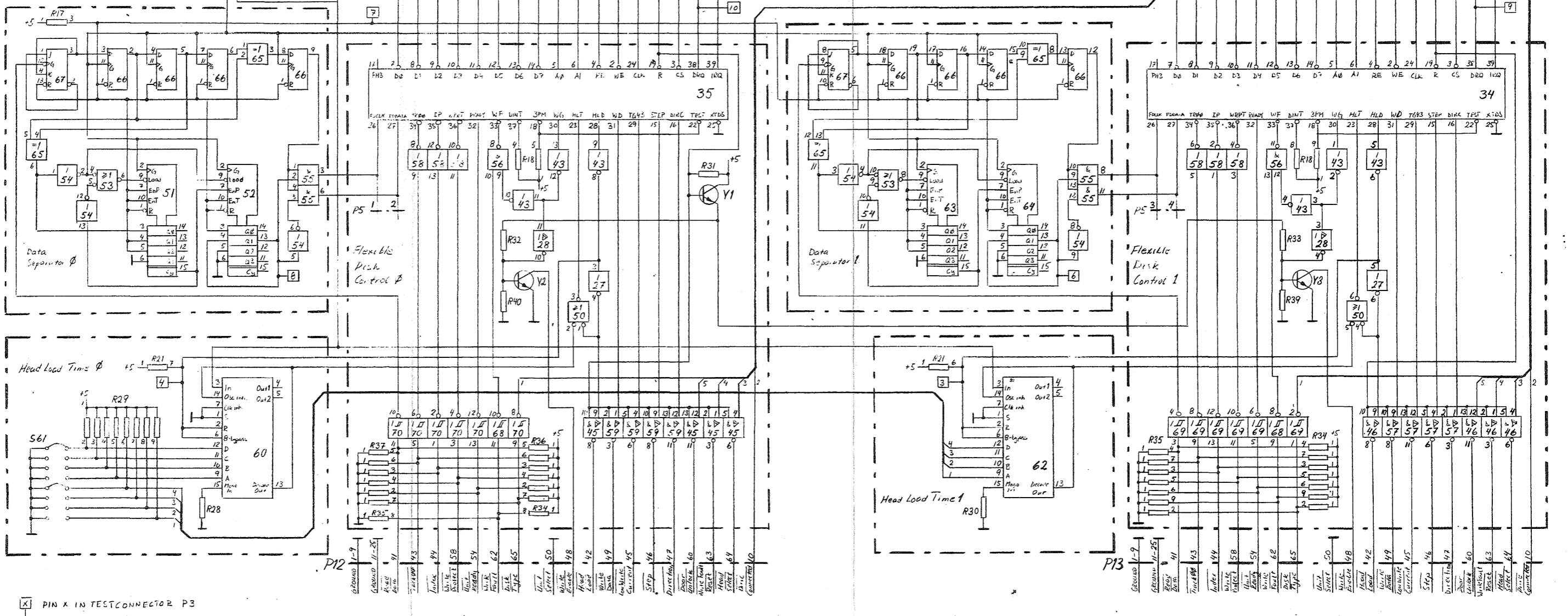
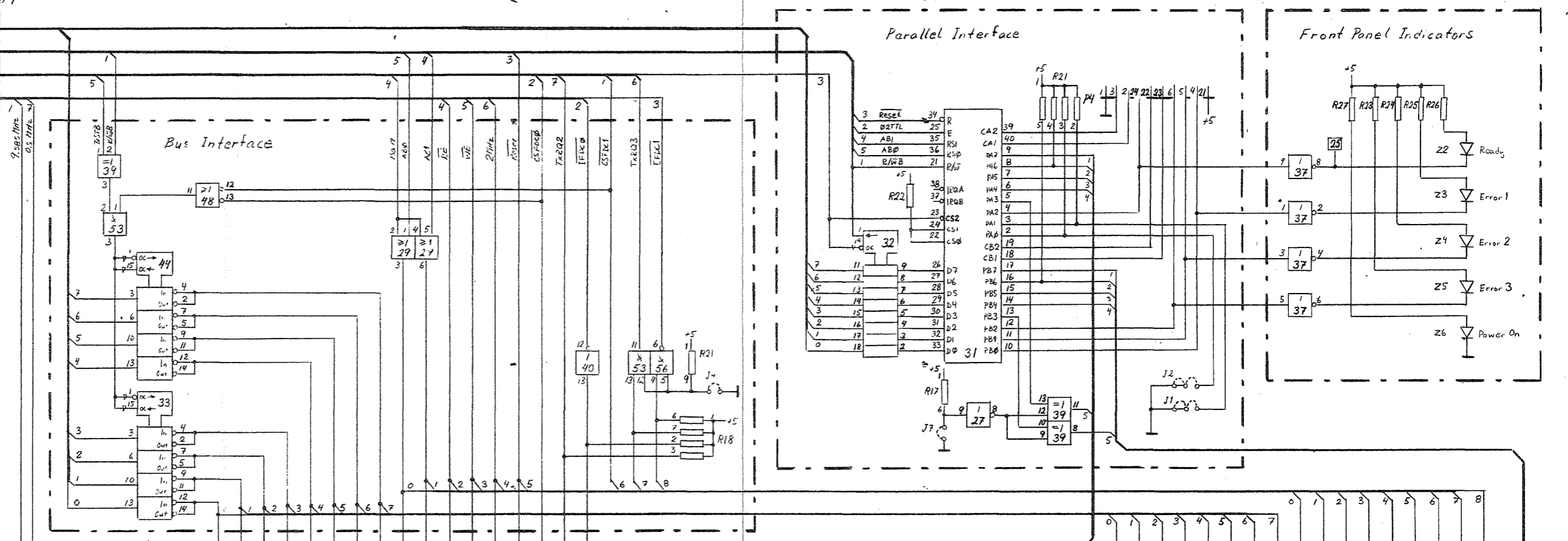
NORTH SCALE WYPODZIA TYPED REVISION	SOUTH SCALE WYPODZIA TYPED REVISION	EAST SCALE WYPODZIA TYPED REVISION	WEST SCALE WYPODZIA TYPED REVISION	CODE APPROVED CODE APPROVED CODE APPROVED CODE APPROVED	ERICSSON E39065 2001 1
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Denne handling är ett utkast, ej bindande. Omfattningen är inte slutgiltig. Öppna förändringar är tillåtna. Öppna förändringar är tillåtna. Öppna förändringar är tillåtna.

OM NAGOT ÄR OKLART: FRÅGA I FÖRSTÄLLNINGEN

This drawing is a preliminary drawing, not binding. The scope is not final. Open changes are permitted. Open changes are permitted. Open changes are permitted.

- SHEET 1**
- IC1 = 75452
 - IC2 = 8728
 - IC3 = 741515
 - IC4 = 741532
 - IC5 = 6844
 - IC6 = 7415245
 - IC7 = 6330
 - IC8 = 7415157
 - IC9 = MC14517
 - IC10 = 7415107
 - IC11 = 7415193
 - IC12 = LM339
 - IC13 = TL084C
 - IC14 =
 - IC15 = 741574
 - IC16 = 741502
 - IC17 = 7415245
 - IC18 = 7415245
 - IC19 = 7415245
 - IC20 = 68A54
 - IC21 = 6330
 - IC22 = 7415273
 - IC23 = 741574
 - IC24 = 741574
 - IC25 = 741574
 - IC26 =
 - IC27 = 741504
 - IC28 = 7406
 - IC29 = 741532
 - IC30 =
 - IC31 = 68A21
 - IC32 = 7415245
 - IC33 = 8T26
 - IC34 = 1771
 - IC35 = 1771
 - IC36 = 741537
 - IC37 = 7404
 - IC38 =
 - IC39 = 741586
 - IC40 = 741504
 - IC41 =
 - IC42 =
 - IC43 = 741504
 - IC44 = 8T26
 - IC45 = 741538
 - IC46 = 741538
 - IC47 =
 - IC48 = 741500
 - IC49 =
 - IC50 = 741508
 - IC51 = 7415161
 - IC52 = 7415161
 - IC53 = 741508
 - IC54 = 741504
 - IC55 = 741508
 - IC56 = 741500
 - IC57 = 741538
 - IC58 = 741534
 - IC59 = 741538
 - IC60 = MC14536
 - IC61 =
 - IC62 = MC14536
 - IC63 = 7415161
 - IC64 = 741586
 - IC65 = 741586
 - IC66 = 7415273
 - IC67 = 741507
 - IC68 = 741514
 - IC69 = 741514
 - IC70 = 741514
 - IC71 = 79M05
 - R1 = 8x1.2k
 - R2 = 27k
 - R3 = 4.7k
 - R4 = 4.7k
 - R5 = 4.7k
 - R6 = 33k
 - R7 = 330
 - R8 = 4.7k
 - R9 = 470
 - R10 = 12k
 - R11 = 4.7k
 - R12 = 12k
 - R13 = 4.7k
 - R14 = 22
 - R15 = 10k
 - R16 = 8x1.2k
 - R17 = 8x1.2k
 - R18 = 8x10k
 - R19 = 220Ω
 - R20 =
 - R21 = 8x1.2k
 - R22 = 10k
 - R23 = 330
 - R24 = 330
 - R25 = 330
 - R26 = 330
 - R27 = 330
 - R28 = 10k
 - R29 = 8x1.2k
 - R30 = 10k
 - R31 = 4.7k
 - R32 = 1.2k
 - R33 = 1.2k
 - R34 = 8x220
 - R35 = 8x330
 - R36 = 8x220
 - R37 = 8x330
 - R38 = 1.2k
 - R39 = 1.2k
 - R40 = 1.2k
 - Y1 = BC547B
 - Y2 = BC547B
 - Y3 = BC547B
 - Z1 = IN4148
 - Z2 = LD57C
 - Z3 = LD52C
 - Z4 = LD52C
 - Z5 = LD52C
 - Z6 = LD57C
 - C1-13 = 6.8μ
 - C14-18 = 0.1μ
 - C19 = 1.4n
 - C20-28 = 0.1μ
 - C29 = 2.2n
 - C30-43 = 0.1μ
 - C44 = 22p
 - C45 = 22p
 - C46-62 = 0.1μ
 - C63 = 100μ
 - C64 = 33μ
 - C65-66 = 6.8μ
 - C67 = 0.1μ
 - C68-80 = 6.8μ
 - X1 = 19.170MHz
 - L1 = 10μH
 - L2 = 10μH
 - L3 = 2.2μH



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X PIN X IN TESTCONNECTOR P3

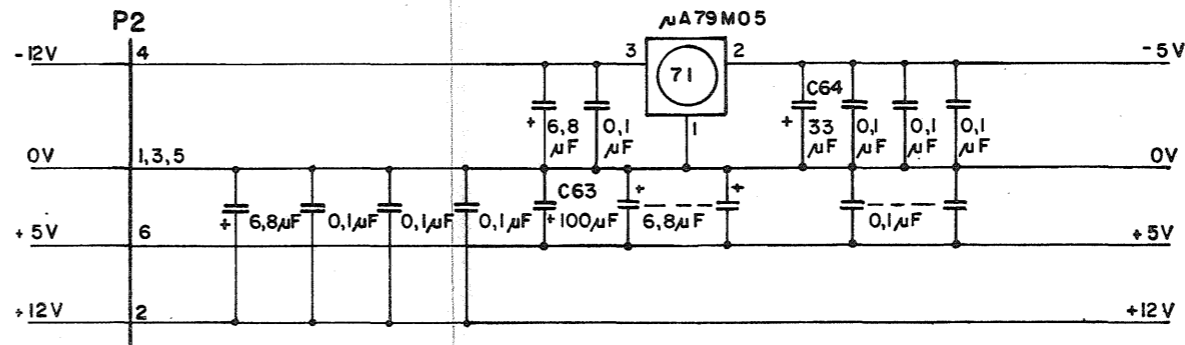
GÄLLER FÖR KLICHE E34065 7001-1
 VALID FOR PCB LAYOUT NO E34065 7001-1

INGÅR AVEN I ALSO LISTED ON	REG. NO.
MONTH CHECKED	GOOD APPROVED
SCALE	DATE
ISSUED	FDA
ISSUED	CIRCUIT DIAGRAM

ERICSSON
 E34065 2001 1

TEST POINTS

NO	SIGNAL
1	
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39	
40	
41	
42	



COMPONENT LIST

NO	TYPE #/
IC37,38	7404
IC28	7406
IC9	74S37
IC48,49,56	74LS00
IC16	74LS02
IC27,40-43,54,58	74LS04
IC50,53,55	74LS08
IC68,69,70	74LS14
IC4,29,30	74LS32
IC45-47,57,59	74LS38
IC10,15	74LS74
IC39,65	74LS86
IC26,67	74LS107
IC3	74LS155
IC8	74LS157
IC51,52,63,64	74LS161
IC6,17,18,19,32	74LS245
IC66	74LS273
IC13,14	75452
IC31	68A21
IC20-25	68A54
IC33,44	8T26
IC2	8T28
IC12	LM339
IC7	6330
IC5	MC6844
IC60,61,62	MC14536
IC11	ULA2C143
IC34,35,36	1771
Z1	BYV10
Z3-5	LD52C
Z2,6	LD57C
Z7,8	BZx55
Y1-3	BC547B
L1-3	
X1	
R34,36	220 Ω
R35,37	330 Ω
R1,16,17,21,29	1,2 k
R18	10 k

NOT USED INPUTS
CONNECTED TO
HIGH LEVEL (+5V)

NO	POS/PIN
+1	R16/8
+2	R17/2
+3	R17/3
+4	R17/4
+5	R18/4
+6	R18/5
+7	R18/8
+8	R18/9

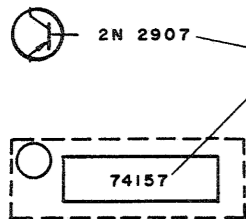
Example +1 CONN. TO R
+1G CONN. TO IC

REVISION OF DIAGRAMS

DIAGRAM AND DRAWING		STATUS	
NUMBER	SH MOD.		
E34065 2002 2	1 REV.		
"	3 2		
"	1 3		
"	1 4		
"	1 5		

ASSEMBLY DRAWING NO. E 34065 0002 2

*) INDICATED NUMBERS ONLY
EXAMPLES OF EXISTING
CIRCUIT TYPES



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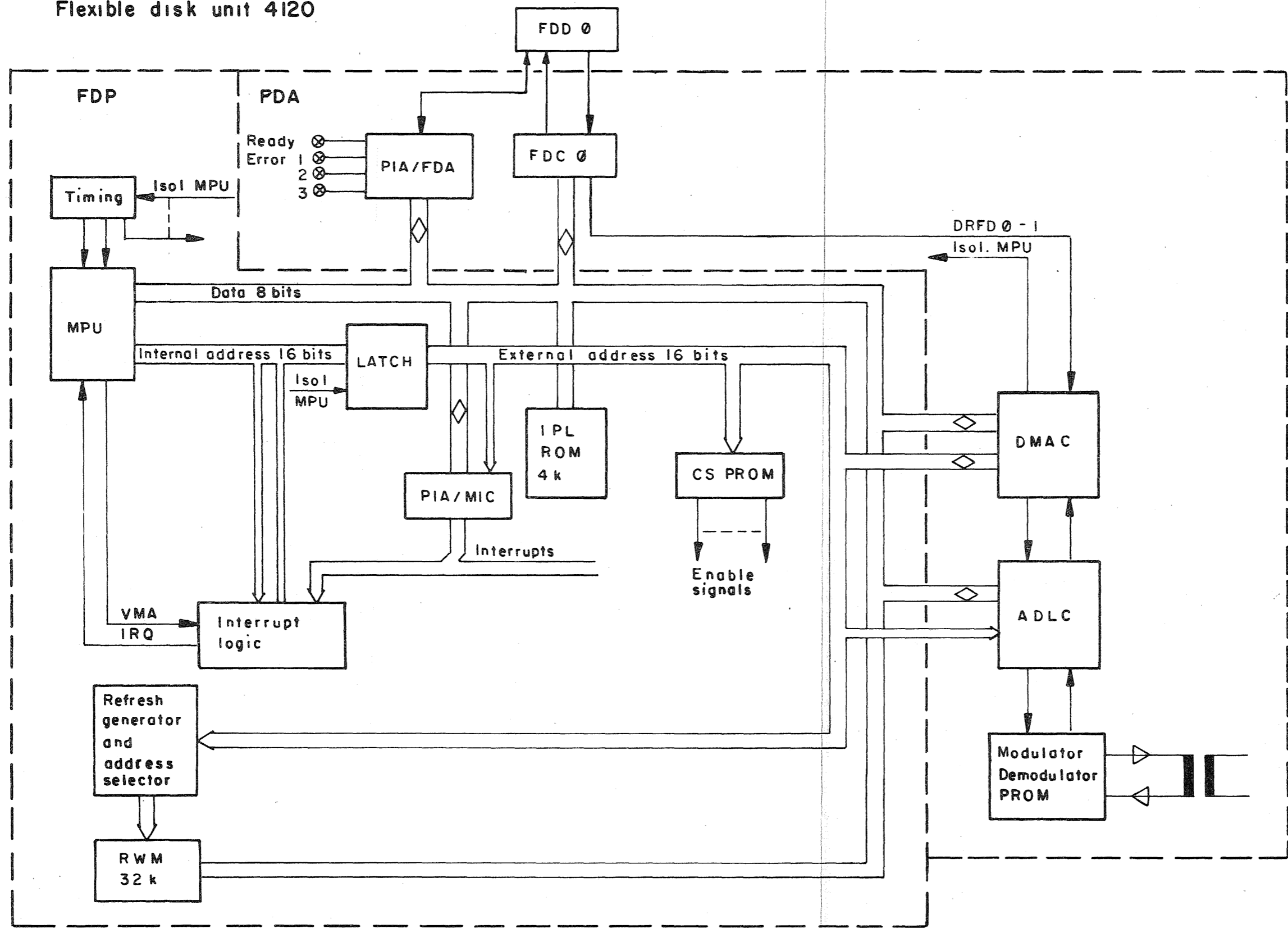
Material		Ytbeläggning Coating		
Mättnoggrannhet (Dar ej annat angivits) Tolerances (Unless otherwise specified)		Ytjämnhet Surface quality		
Utford Issued Kontr Check Godk Approv		Datum Date Skala Scale		FDA Flexible disk adapter
8978 JPE 8978 72 6237		820601 L'D		
Ericsson Information Systems AB		Ericsson		E 34065 2002 2 5 Blad Sheet 1

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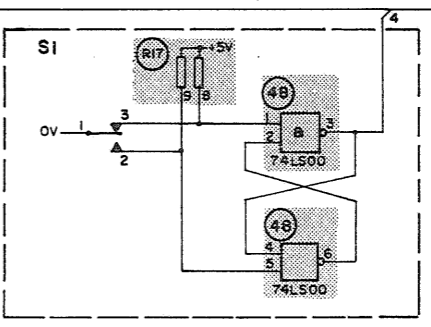
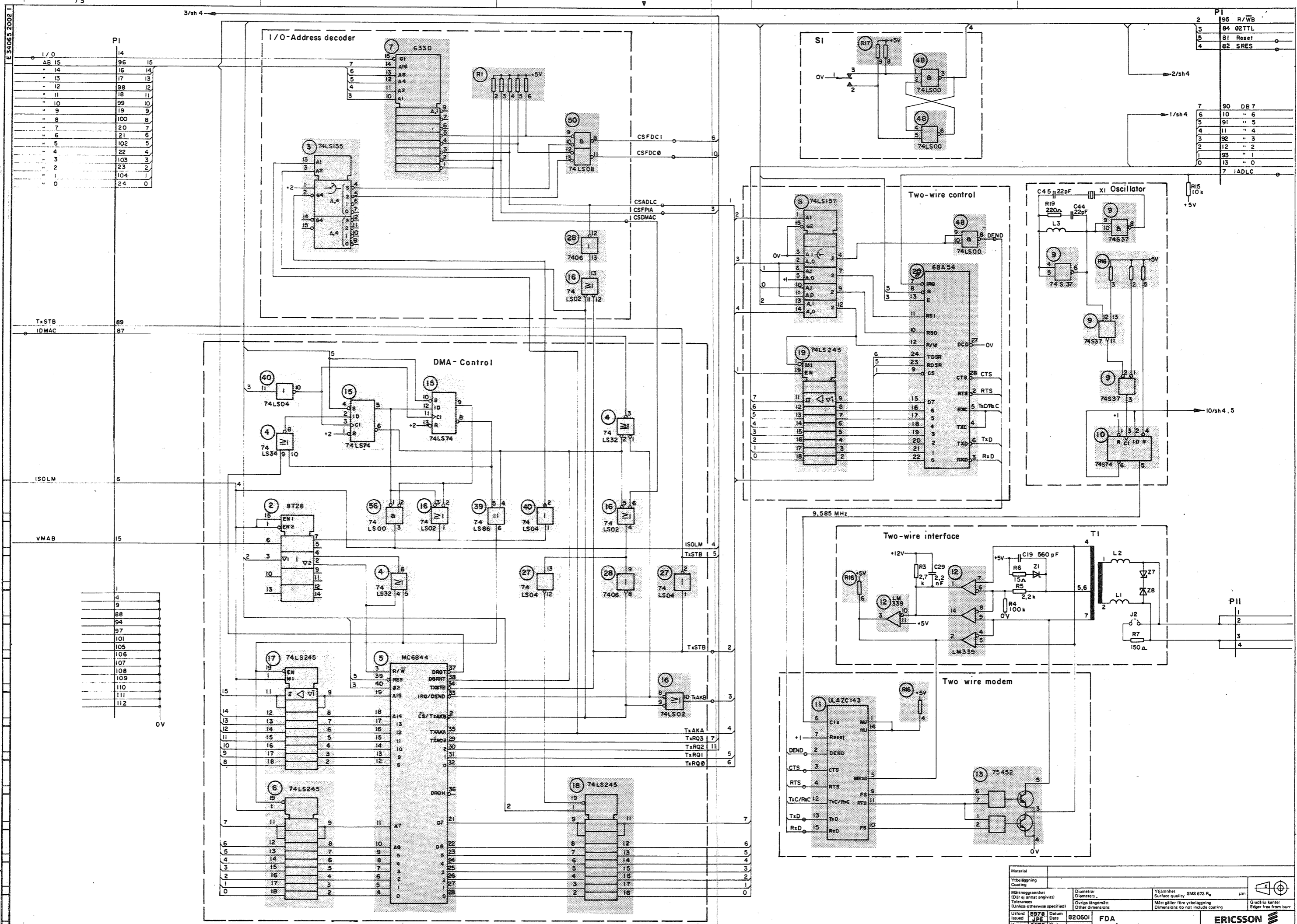
E 34065 2002 3

Flexible disk unit 4120

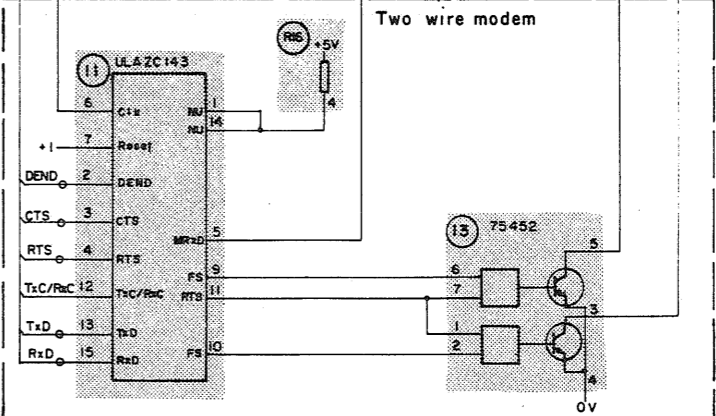
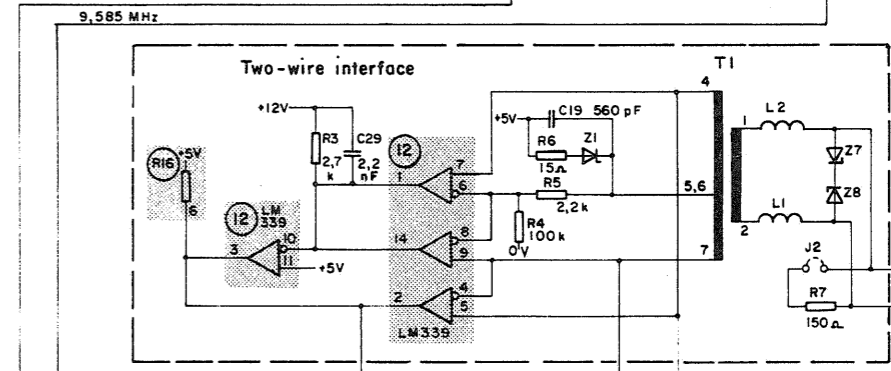
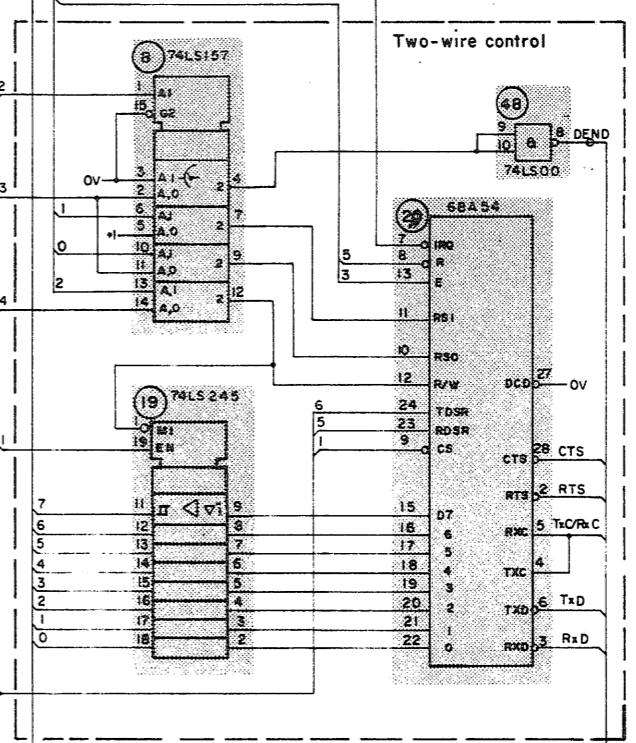
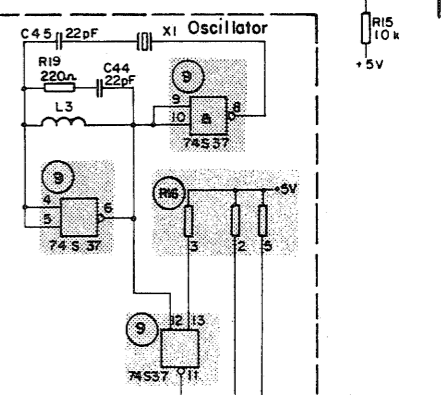


FDA

Material			
Ytbelagning Coating			
Mått noggrannhet (Dar ej annat angivits) Tolerances (Unless otherwise specified)	Diameter Diameters	Ytjämnhet Surface quality	SMS 673 Ra μm
	Ovriga längdmått Other dimensions	Mått gäller före ytbelagning Dimensions do not include coating	Gradfria kanter Edges free from burr
Utford Issued	8978	Datum Date	820601
Kontr Check	8978	Skala Scale	
Godk Approv	8201	62673 L-D	
FDA Flexible disk adapter			ERICSSON
			E 34065 2002 3
			5 Blad 2 Sheet



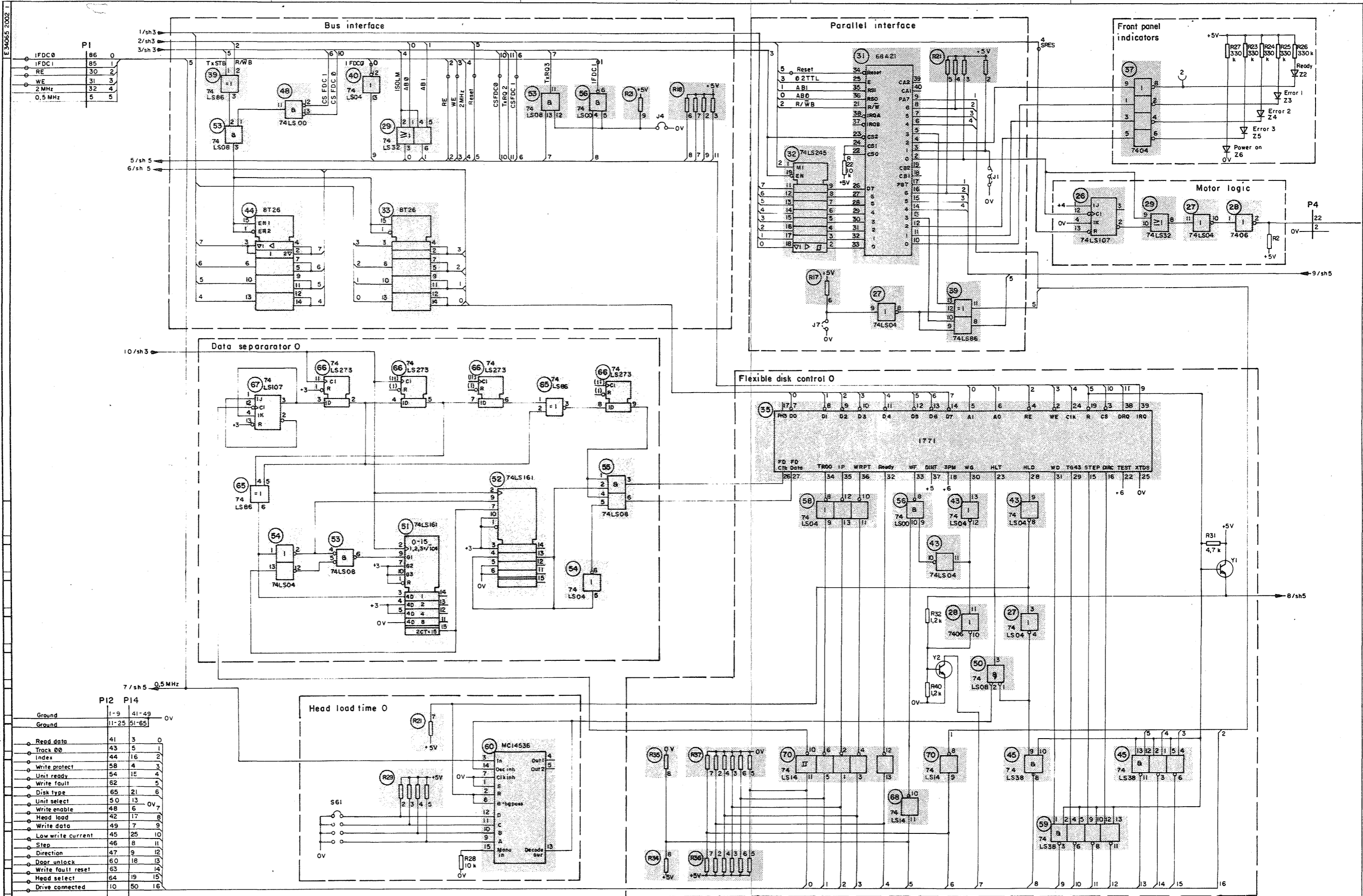
P1	Signal
2	95 R/WB
3	84 Q2TTL
4	81 Reset
5	82 SRES
7	90 DB 7
6	10 " 6
5	91 " 5
4	11 " 4
3	92 " 3
2	12 " 2
1	93 " 1
0	13 " 0
7	IADLC



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FDA

Material		Ytekniska	
Ytekniska	Ytekniska	Ytekniska	Ytekniska
Material Ytekniska Coating Måttögonmått (Går ej annat angivits) Tolerances (Unless otherwise specified) Other dimensions Utford Issued Kontr Check Godk Approv			
Diameter Diameters Ytekniska Surface quality SMS 673 Ra µm		Mått gäller före ytekniska Dimensions do not include coating Gradlinjer Edger free from burr	
Datum Date 820601 Skala Scale G673 L-D	820601 FDA Flexible disk adapter	ERICSSON E34065 2002 1 5 Sheet	



	P12	P14	
Ground	1-9	41-49	0V
Ground	11-25	51-65	0V
Read data	41	3	0
Track 00	43	5	1
Index	44	16	2
Write protect	58	4	3
Unit ready	54	1E	4
Write fault	62	5	5
Disk type	65	21	6
Unit select	50	13	OV
Write enable	48	6	7
Head load	42	17	8
Write data	49	7	9
Low write current	45	25	10
Step	46	8	11
Direction	47	9	12
Door unlock	60	18	13
Write fault reset	63	14	14
Head select	64	19	15
Drive connected	10	50	16

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Material
 Viteblagning
 Coating

() = Repeated information

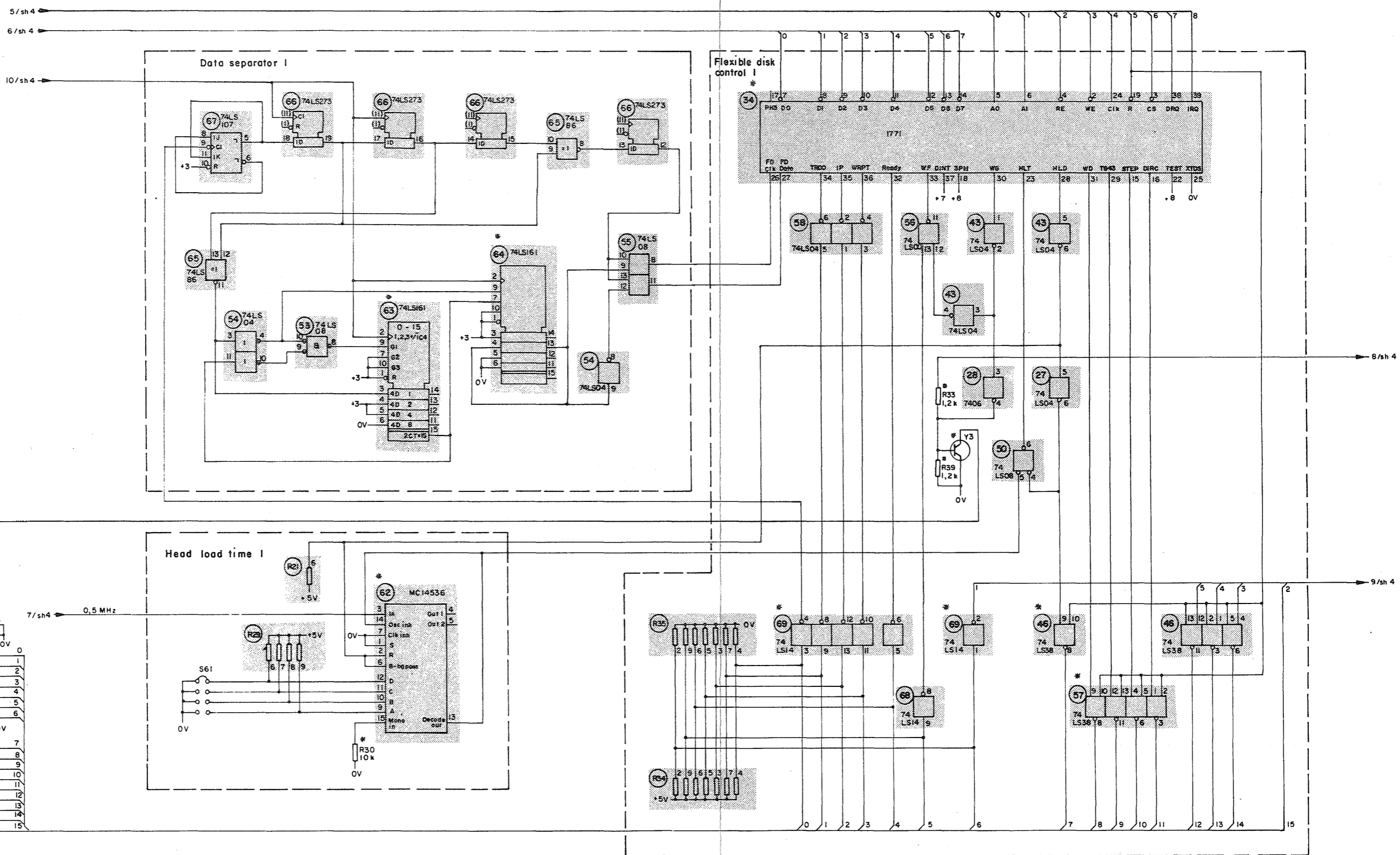
Material	Viteblagning	Coating	
Mättnögrannhet (Dar ej annat angivits)	Diametrar	Vijämnhet	
Toleranser (Unless otherwise specified)	Övriga längdmått	Mått gäller före viteblagning	
Utförd	8978	Datum	820601
Insänd	JPE	Date	
Kontr	RTB	Skala	
Check		Scale	
Godk			
Approv			

FDA Flexible disk adapter

ERICSSON

E 34 065 2002 I 5

Blad 5
Sheet 4



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	P13	P15
Write enable	48	6
Ground	11-25	51-65
Ground	1-9	41-49
Read data	41	3
Track 00	43	5
Index	44	16
Write protect	58	4
Unit ready	54	15
Write fault	62	5
Disk type	65	21
Unit select	50	13
Head load	42	17
Write data	49	7
Low write current	45	25
Step	46	8
Direction	47	9
Door unlock	60	18
Write fault reset	63	13
Head select	64	19
Drive connected	10	50

() = Repeated information
 * = Not mounted

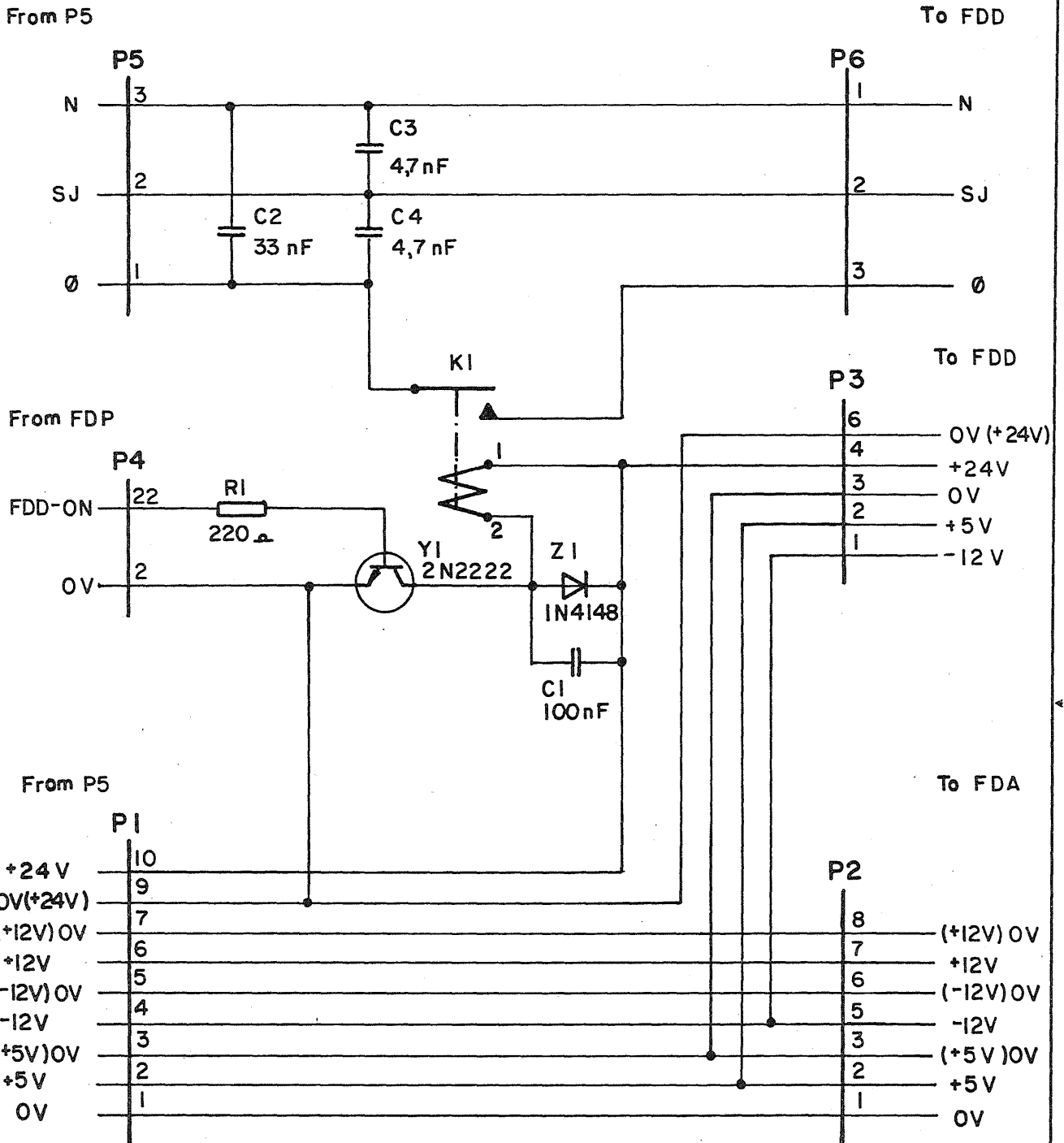
FDA

Material		Ytbeläggning		Coating	
Måttolerans		Diameter		Ytjämnhet	
(Unless otherwise specified)		Diameter		Surface quality	
Tolerances		Diameter		SMS 673 R _a	
Other dimensions		Mitt gäller före yttbeläggning		Dimensions do not include coating	
Gradfri kanter		Edges free from burr			
Utländ	8078	Datum	820601	Ericsson	
Issued	JPE	Date		Flexible disk adapter	
Kontr	8478	Skala		E 34065 2002 I	
Check		Scale		5 Blad	
Godk	8221			Sheet	
Approv	8221			5	

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Ericsson Informations Systems AB

E 34080 2000 4



Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality SMS 673 Ra	μm
	Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating	Gradfria kanter Edges free from burr
Utförd Issued	8266 K.G.B.	Datum Date	820618
Kontr Check	9289 K.G.B.	Skala Scale	
Godk Approv	8337 K.G.B.		62673 L-D
Relay board			ERICSSON
E 34080 2000 4			Blad Sheet

Power Supplies

Contents

CPS	Communication Processor Power Supply	
	Reference Sheet	E34068 2001 4, sh 1
	Logic Diagram	E34068 2001 2, sh 2
FPS	Flexible Disk Unit Power Supply	
	Reference Sheet	E34068 2004 4, sh 1
	Logic Diagram	E34068 2004 2, sh 2
DPS	Display Terminal Power Supply	
	Reference Sheet	E34068 2005 4, sh 1
	Logic Diagram	E34068 2005 2, sh 2
UPS	Universal Power Supply	
	Reference Sheet	E34068 2010 4, sh 1
	Logic Diagram	E34068 2010 2, sh 2
UPB	Universal Power Board	
	Reference Sheet	E34068 2011 4, sh 1
	Logic Diagram	E34068 2011 2, sh 2
	Reference Sheet	E34068 2060 4, sh 1
	Logic Diagram	E34068 2060 2, sh 2
DPB	Display Power Board	
	Reference Sheet	E34068 2030 4, sh 1
	Logic Diagram	E34068 2030 2, sh 2
	Reference Sheet	E34068 2040 4, sh 1
	Logic Diagram	E34068 2040 2, sh 2
	Reference Sheet	E34068 2050 4, sh 1
	Logic Diagram	E34068 2050 2, sh 2

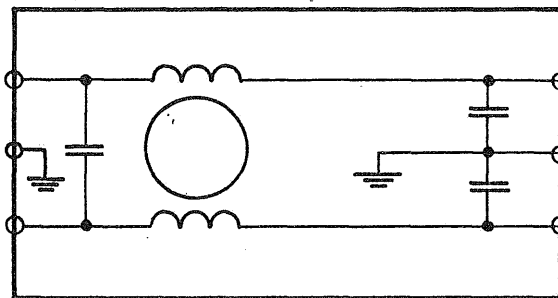
CPS

REV.1	790314	2	800512	3	801103	4	810224	5	810306	6	811211	7	8	9	10	11	12	E34068 2001 4
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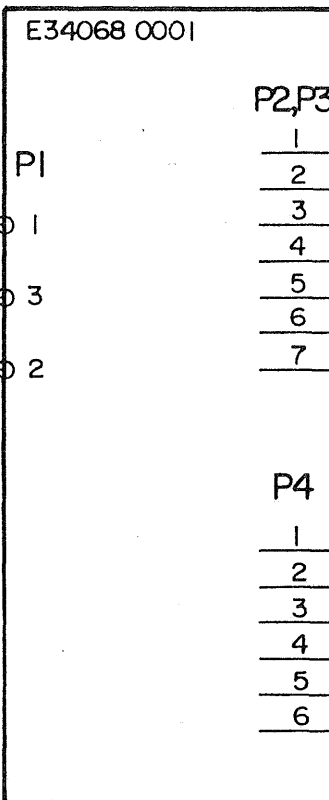
BL 301: 43

INGÅR AVEN I ALSO USED ON	KONTR CHECK	UTFÖRD ISSUED	SKALA SCALE	GODK APPROV	KOPIER COPIED
	<i>B</i>	9000 81			8452 100
		781109			

POWER LINE FILTER FN 322-3/01



POWER SUPPLY BOARD



CPS
BLOCKSCHEMA
BLOCK DIAGRAM

DIAGRAM AND DRAWING		STATUS									
NUMBER	SH	MOD.	1	-	-	-	2	-			
E34068 2001 4	1	REV.	0	1	2	3	4	5	6		
" " 2	2	"	0	1	2	3	4				
		"									
		"									
		"									
		"									
		"									
		"									

ERICSSON
E34068 2001 4
2 SHEET
1

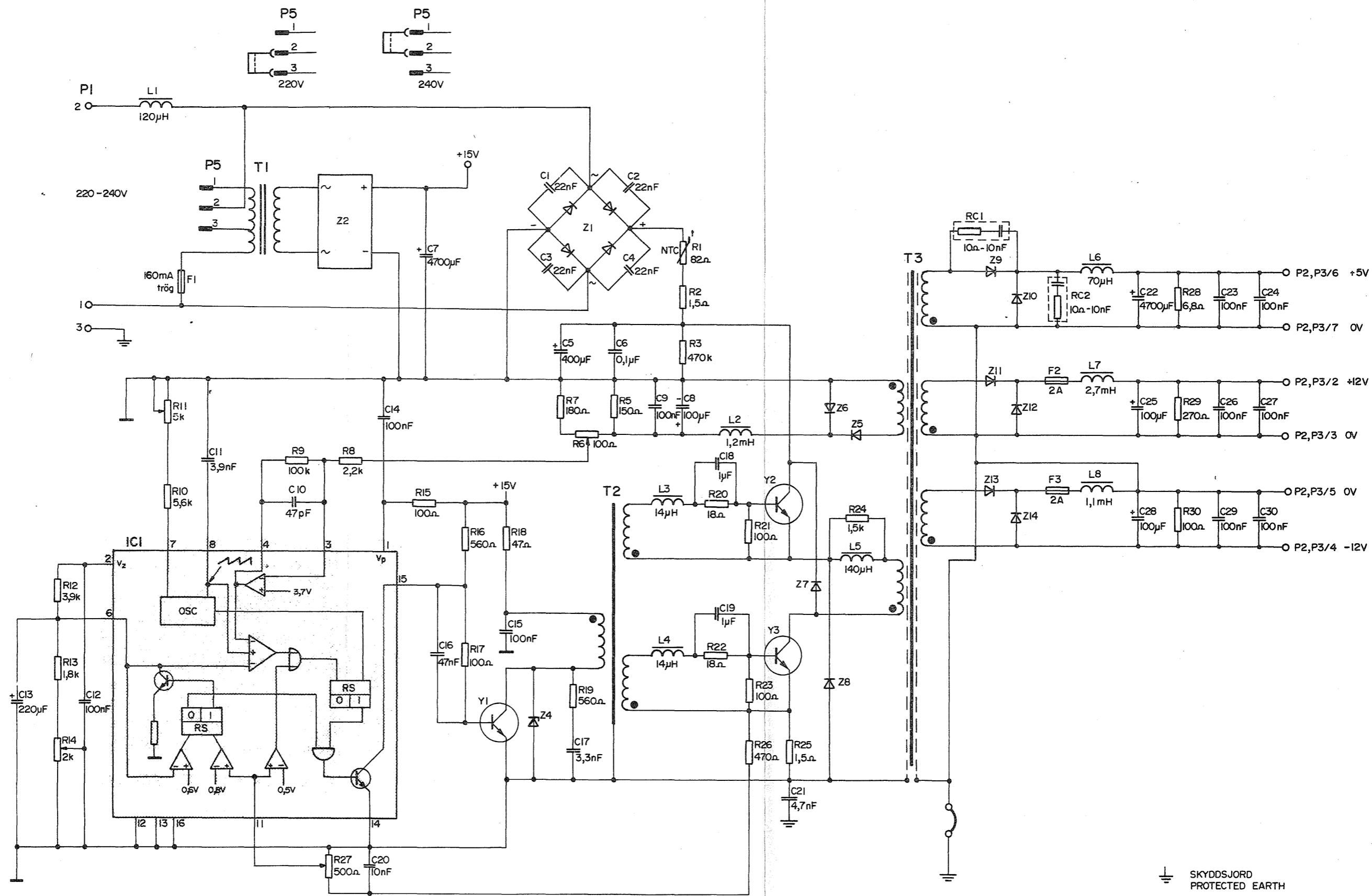
REG. NR
REG. NO

REV. 1 790314 2 80103 3 810306 4 811211 5 6 7 8 9 10 11 12 E34068 2001 2

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SKYDDSJORD
 PROTECTED EARTH
 OV

- IC1 TDA 1060
- Y1 MJE240 ALT BDX 37
- Y2,Y3 MJE 13007
- Z1 BY224-600
- Z2 ISB10A 100V IA

- Z4 IN5377B 91V
- Z5,Z6 KS78206 B EX IN4148
- Z7,Z8 BY208-600
- Z9,Z10 MBR3535 ALT SD 41
- Z11,Z12,Z13,Z14 BYW29-100

INGÅR ÄVEN I ALSO USED ON		REG. NR REG. NO.	
KONTR CHECK	13	GODK APPROV	Prd
SKALA SCALE		KOPIER COPIED	8452 100
UTFÖRD ISSUED	9000 BN	78 10 31	

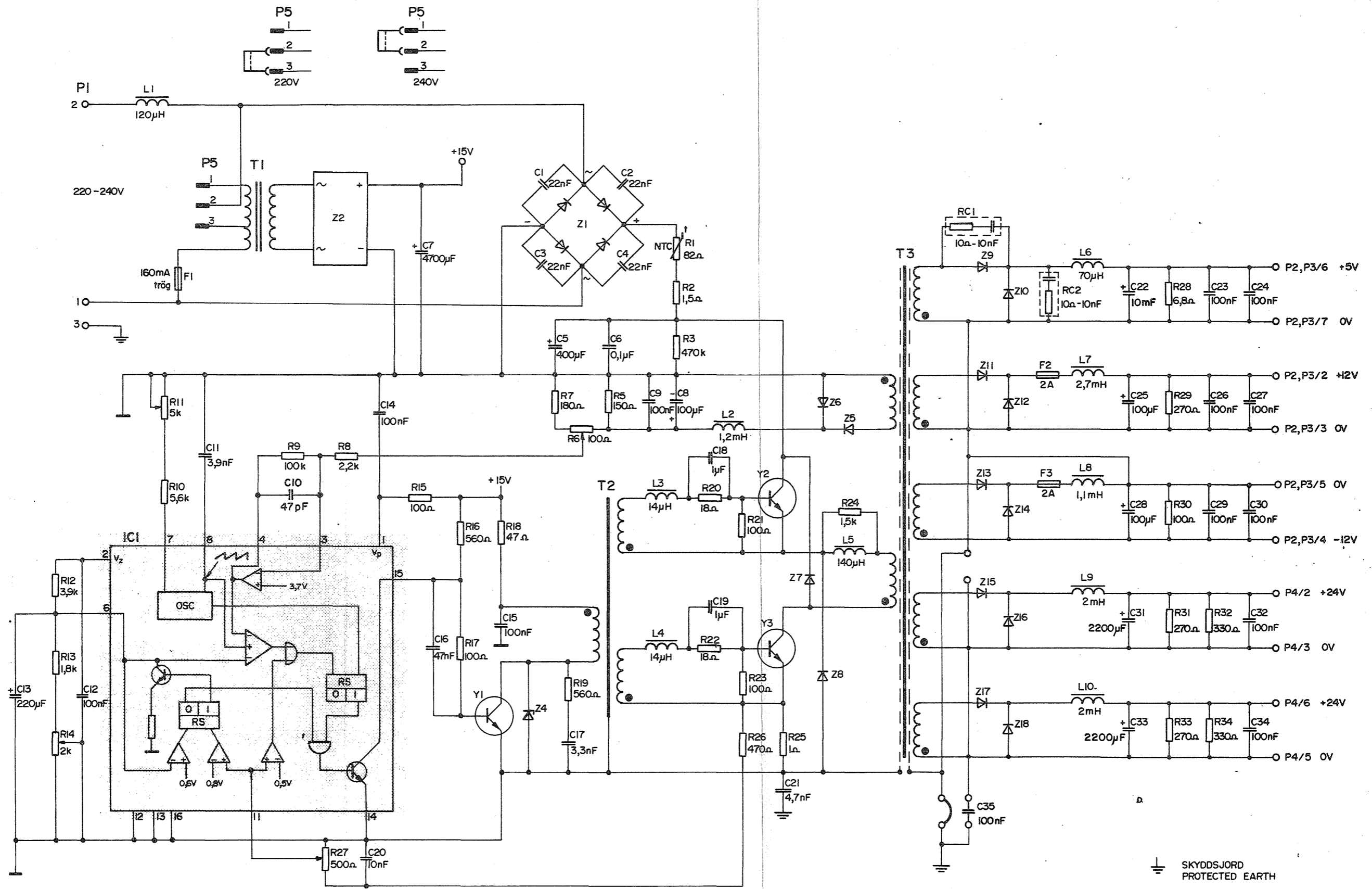
CPS POWER SUPPLY BOARD KRETSSCHEMA CIRCUIT DIAGRAM	
E34068 2001 2	2 BLAD SHEET 2

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REV. 1 2003/4 2 80103 3 B11211 4 5 6 7 8 9 10 11 12



- IC1 TDA 1060
- Y1 MJE 240 ALT BDX 37
- Y2,Y3 MJE 13007
- Z1 BY224-600
- Z2 ISB10A 100V IA
- Z4 IN5377B 91V
- Z5,Z6 KS78206 B EX IN4148
- Z7,Z8 BY208-600
- Z9,Z10 MBR3535 ALT SD 41
- Z11,Z12,Z13,Z14 BYW29-100
- Z15,Z16,Z17,Z18 BYW29-150

⏏ SKYDDSJORD
PROTECTED EARTH

⏏ 0V

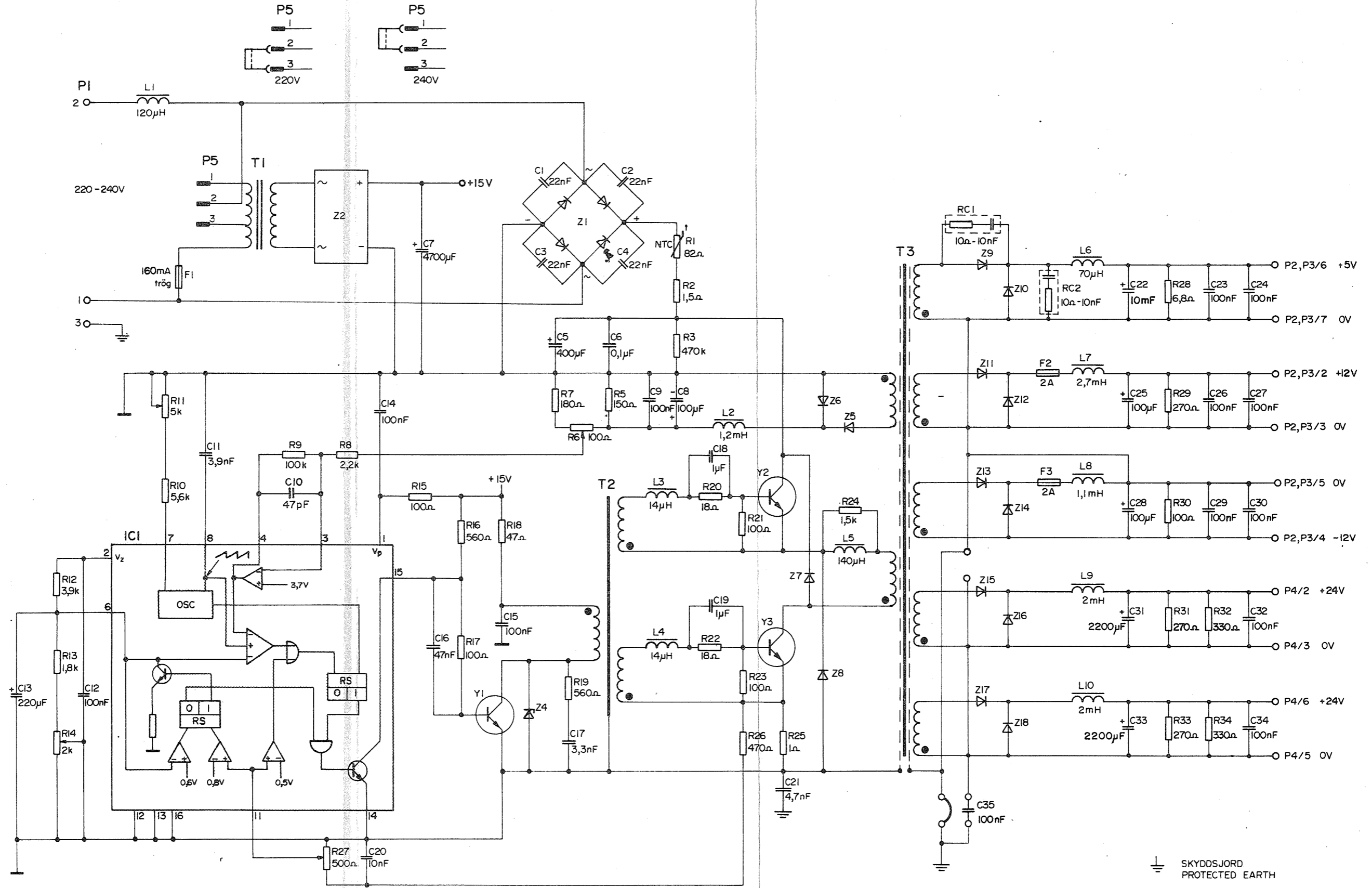
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SKALA SCALE		KOPIER COPIED	8452 100
UTFÖRD ISSUED	9000 BN	78 10 31	

FPS POWER SUPPLY BOARD KRETSSCHEMA CIRCUIT DIAGRAM		ERICSSON	
E34068 2004 2	2	BLAD SHEET	2

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- IC1 TDA 1060
- Y1 MJE 240 ALT BDX 37
- Y2,Y3 MJE 13007
- Z1 BY 224-600
- Z2 ISB10A 100V IA
- Z3 LD 57C
- Z4 IN5377B 91V
- Z5,Z6 KS78206 B EX IN4148
- Z7,Z8 BY 208-600
- Z9,Z10 MBR3535 ALT SD 41
- Z11,Z12,Z13,Z14, } BYW 29-150
- Z15,Z16,Z17,Z18 }

SKYDDSJORD
PROTECTED EARTH

OV

INGÅR ÄVEN I ALSO USED ON		REG NR	
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JTFORD ISSUED	9000 BN	79 05 03	

DPS
POWER SUPPLY BOARD
KRETSSCHEMA
CIRCUIT DIAGRAM

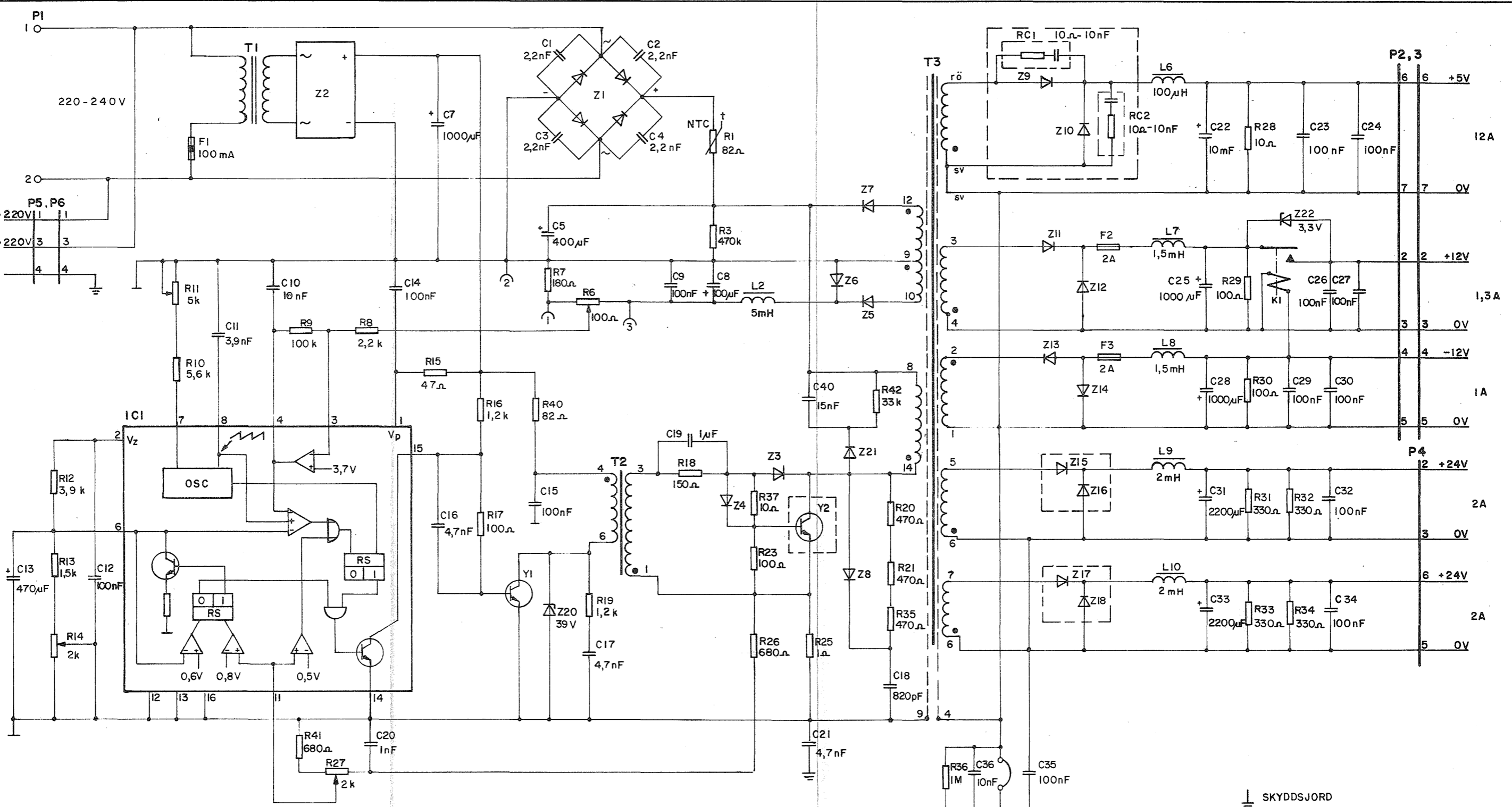
ERICSSON

E34068 2005 2 2 BLAD SHEET 2

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- IC1 TDA 1060
- Y1 2N2222 A
- Y2 BUX 81
- Z1 KBL06
- Z2 W02
- Z3,Z7,Z8, Z21 BY 208-1000
- Z4 IN5059
- Z5,Z6 KS 78206B EXIN4148
- Z9,Z10 MBR 3535 ALT SD41
- Z11,Z12,Z13, Z14, Z15, Z16, Z17, Z18 BYW 29-150
- Z20 BZX 55C39
- Z22 IN 5333
- K1 LZ 12 ALT. II-A0-5,2-12V DC

⏚ SKYDDSJORD
PROTECTIVE EARTH

⏚ 0V

INGÅR ÄVEN I ALSO USED ON		REG-NR REG. NO.
KONTR CHECK	8559 GODK APPROV	9000 16
SKALA SCALE	KOPIER COPIED	62673 L-D
UTFORD ISSUED	09000 BN	790 503

UPS
Power supply board

ERICSSON
E 34068 2010 2

2 BLAD
SHEET
2

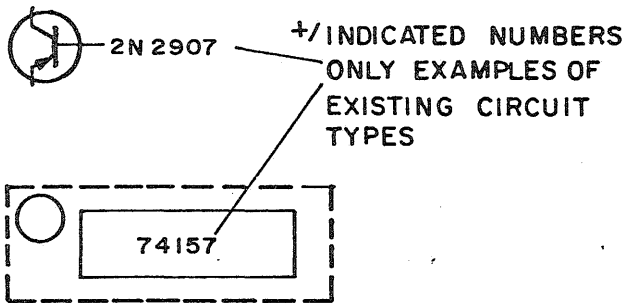
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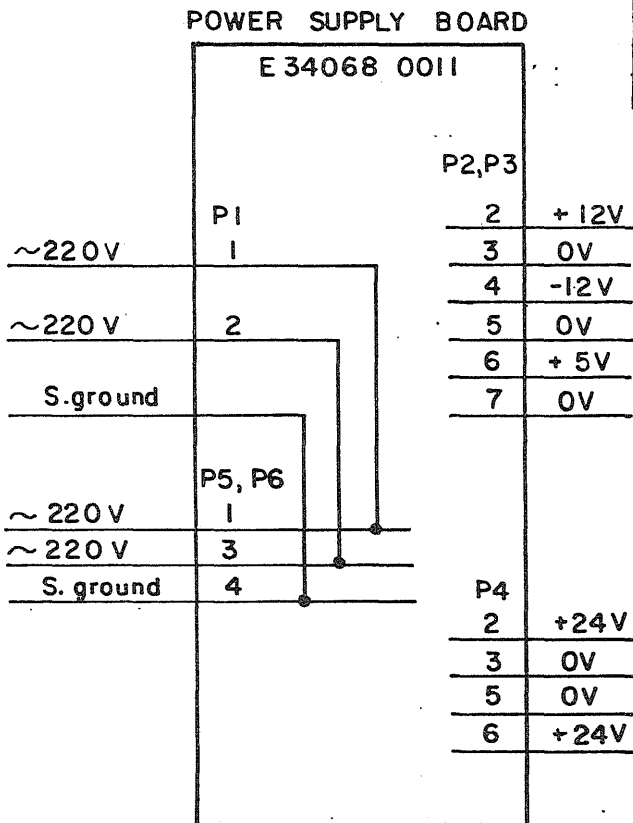
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REV.1 820219 2 830310 3 4 5 6 7 8 9 10 11 12 E 34068 2011 4



COMPONENT LIST

NO	TYPE +/-
ICI	TDA 1060
Y1	2N2222 A
Y2	BUX 81
Z1	KBL 08
Z2	W02
Z3,7,8,9	BYW 96 E
Z4	BZX55C39
Z5,6	IN4148
Z10	IN 5060
Z11-18	BYW29-150
Z19,20	MBR3535
Z21	IN 5333 B



REVISION OF DIAGRAMS

DIAGRAM AND DRAWING NUMBER	SH. MOD.		0		1		STATUS												
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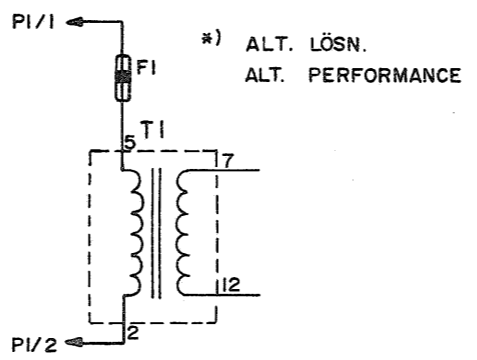
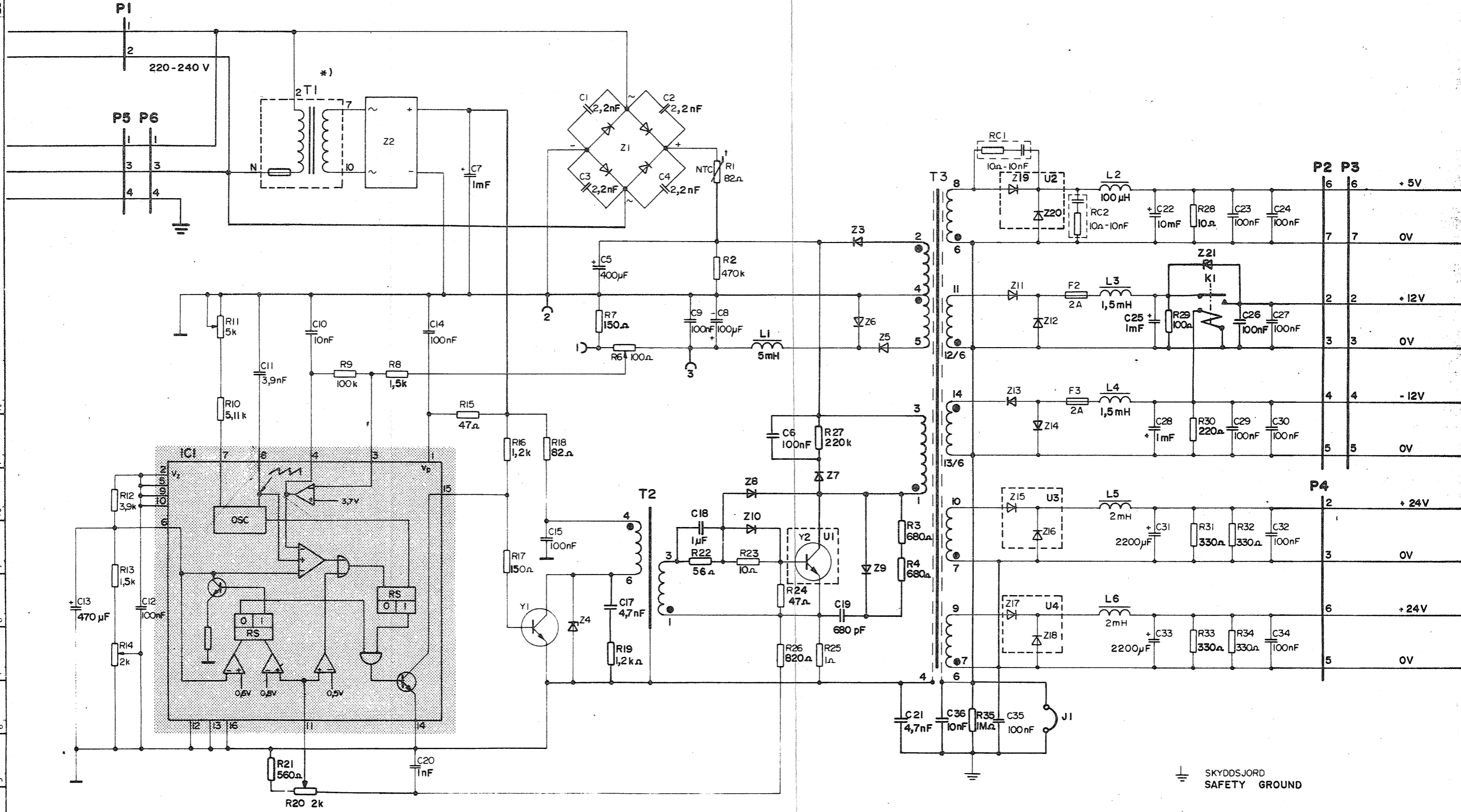
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SKALA SCALE	KOPIER COPIED 9977 L.P.	
UTFÖRD ISSUED 9000 BN	810205	UPB Universal power board
REV.1 820219 2 830310 3 4		E 34068 2011 4
		2 BLAD SHEET

E34068 2011 2

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REV 1 820219 2 830310 3



⊥ SKYDDSJORD
SAFETY GROUND

⊥ OV PRIMARY

INGÅR ÄVEN ALSO USED ON		REG. NR. REG. No.
KONTROLLERAD CHECKED	8558	9000
GRANSAD APPROVED	NS	NS
SKAPAD DRAWN	9977	9977
REVISERAD REVISED	L.P.	L.P.
PROJEKT PROJECT	9000	9000
SKISS DRAWING	BN	810205
UPB UNIVERSAL POWER BOARD KRETSSKEMA CIRCUIT DIAGRAM		ERICSSON
E34068 2011 2		2 BLAD SHEET

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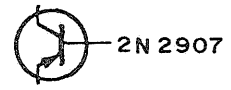
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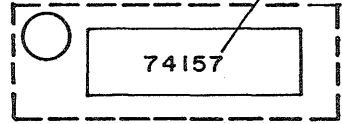
Ericsson Information Systems AB

UPB

E 34068 2060 4



+ / INDICATED NUMBERS
ONLY EXAMPLES OF
EXISTING CIRCUIT
TYPES

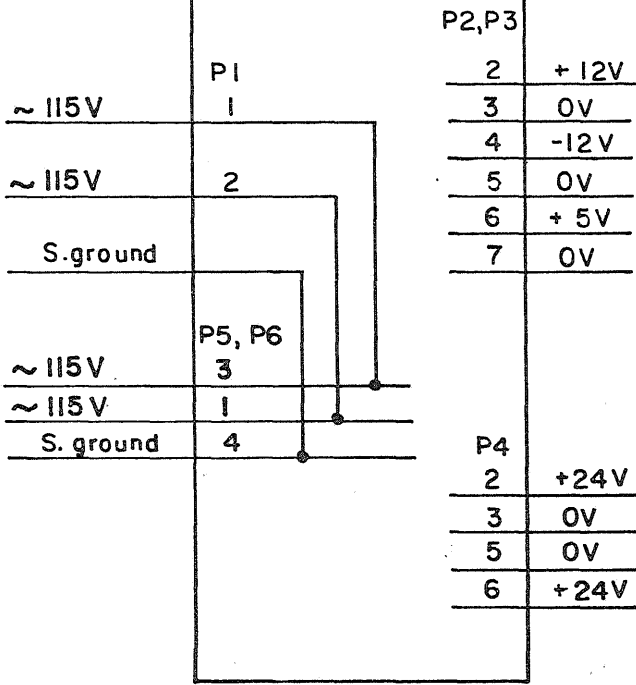


COMPONENT LIST

NO	TYPE +/-
IC1	TDA 1060
Y1	BC 635
Y2	BUX 81
Z1	KBL 08
Z2	W 02
Z3,7,8,9	BYW 96 E
Z4	BZX55C39
Z5,6	IN4148
Z10	IN5060
Z11-18	BYW29-150
Z19,20	MBR3535
Z21	IN5333 B

POWER SUPPLY BOARD

E 34068 0060



REVISION OF DIAGRAMS

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ASSEMBLY DRAWING NO E 34068 0011 11 /sh 1-2

NGÅR AVEN
A.S.C USEC ON

KONTR 9000
CHECK AB

SKALA
SCALE

UTFÖR 9000
ISSUED BN

SODR 8837
APPROV M

KOPIER 62673
COPIED LD

820723

UPB
Universal power board (US)

ERICSSON

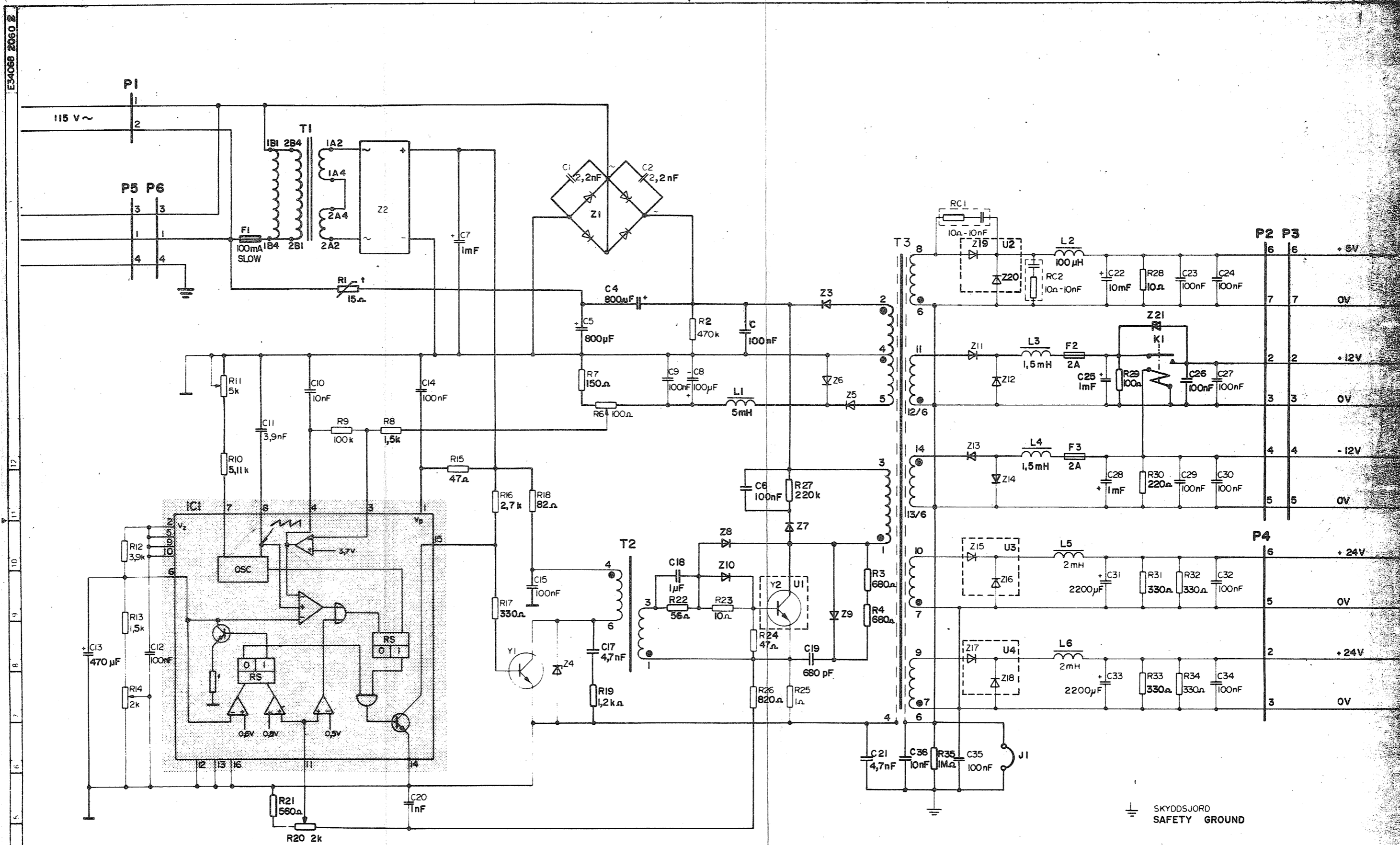
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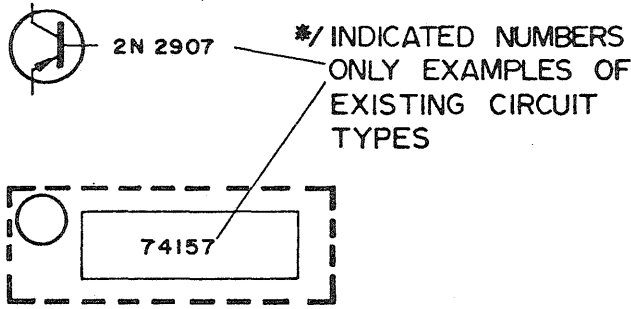
Ericsson Information Systems AB, Sweden.



SKYDDSJORD
 SAFETY GROUND
 0V PRIMARY

INGÅR I SERIEN	9000 IB	820723	UPB Universal power board (US)	ERICSSON KRETSSCHEMA CIRCUIT DIAGRAM	E34068 2060 2	2 SHEET
REVISJON	9000 BN	820723	820723 L-D			

E 34068 2030 4 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2



COMPONENT LIST

NO	TYPE #/
IC1	TDA1060
IC2	7912
Y1	BC 635
Y2	BUX 81
Z3,7-9,12-14	BYW 96 E
Z17,18	BYW 29-150
Z5,6	1N4148
Z10	1N5060
Z15,16	1N5356
Z4	BZX55C 39
Z2	LIB100V1A
Z1	LIB800V4A
Z11	SD 241

ASSEMBLY DRAWING NO. E

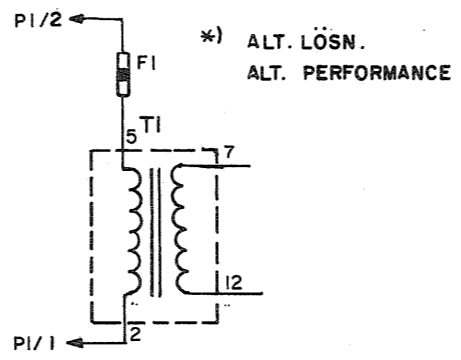
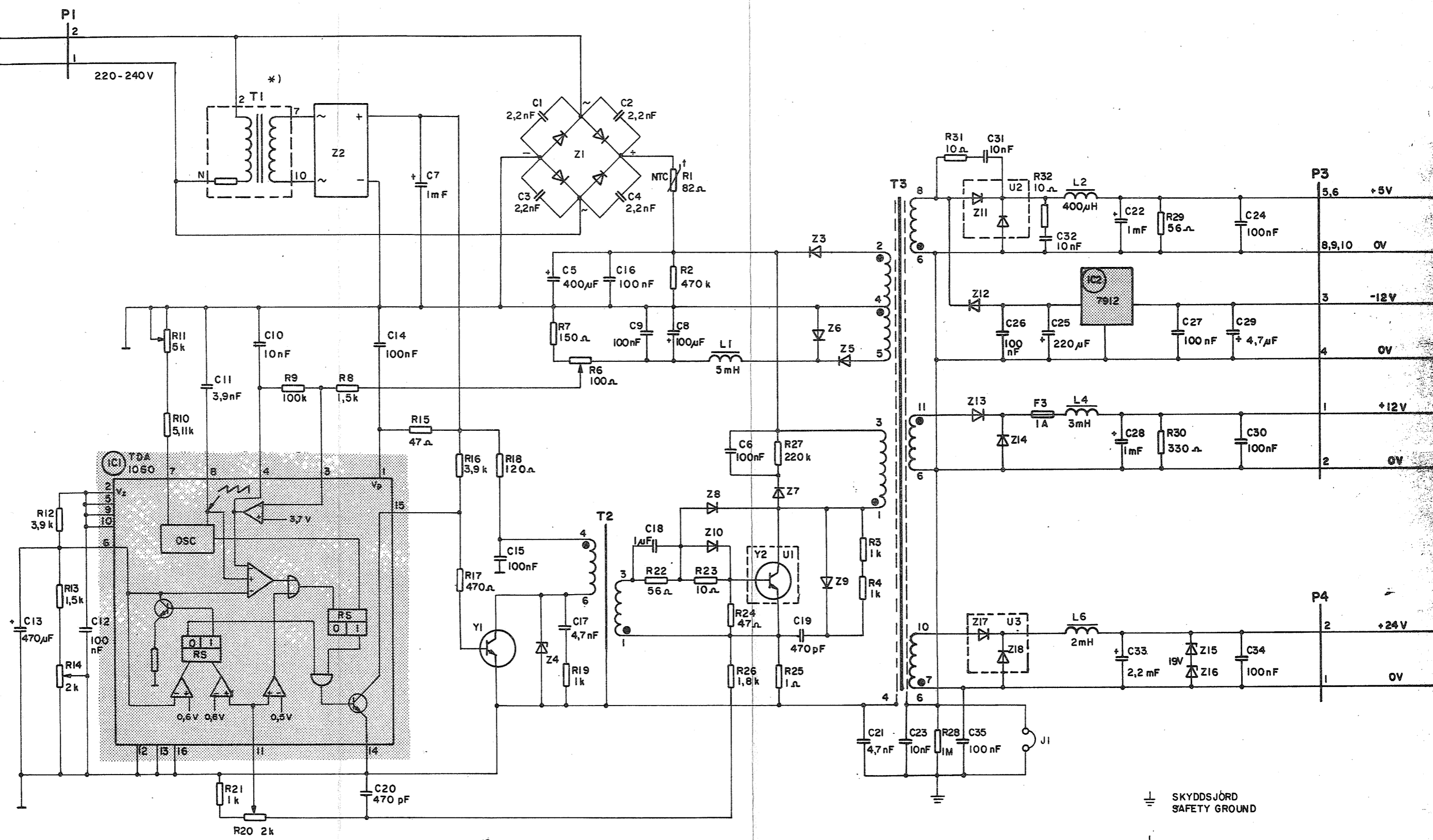
REVISION OF DIAGRAMS

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		"									

INGÅR ÄVEN I ALSO USED ON	REG.-NR REG. No
KONTR CHECK	GODK APPROV
SKALA SCALE	KOPIER COPIED
UTFÖRD ISSUED	820622
REV. 1	DPB Display power board
	ERICSSON
	E34068 2030 4
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SAFETY GROUND

⊥ 0V PRIMARY

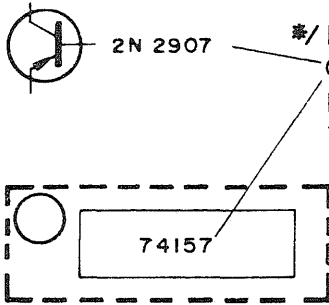
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Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diameter Diameters	Ytjämnhet Surface quality	SMS 673 R _z μm
Övriga längdmått Other dimensions		Mått gäller före ytbeläggning Dimensions do not include coating	Grädfria kanter Edges free from burr
Utförd Issued	9000 BN	Datum Date	820622
Kontr Check	9000 JF	Skala Scale	
Godk Approv	8831 CB	62673 L-D	
DPB Display power board		ERICSSON	
E 34068 2030 2		2 2 2 2	

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E 34068 2040 4



*/ INDICATED NUMBERS
ONLY EXAMPLES OF
EXISTING CIRCUIT
TYPES

COMPONENT LIST

NO	TYPE */
IC1	TDA1060
IC2	7912
Y1	BC 635
Y2	BUX 81
Z3,7-9,12-14	BYW 96 E
Z17,18	BYW 29-150
Z5,6	1N4148
Z10	1N5060
Z15,16	1N5356
Z4	BZX55C39
Z2	W02
Z1	KBL 08
Z11	SD 241

ASSEMBLY DRAWING NO. E

REVISION OF DIAGRAMS

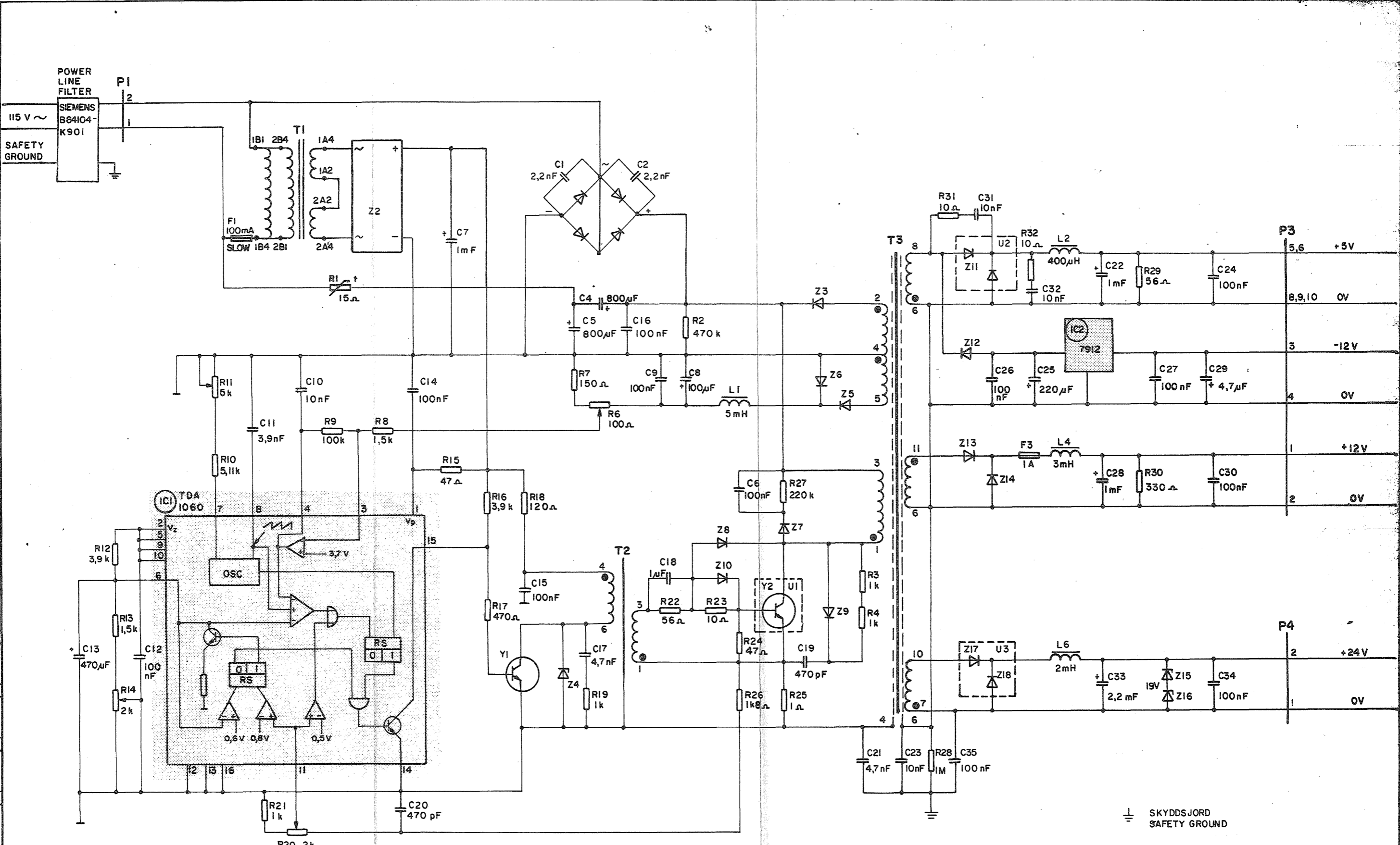
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E 34068 2040 4	1		REV.	
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KONTR CHECK	9000 NB
GODK APPROV	8837 C/10
SKALA SCALE	KOPIER COPIED
9000 BN	62673 L-D
UTFÖRD ISSUED	820723
DPB Display power board (US)	ERICSSON
E34068 2040 4	2 BLAD SHEET
	1

E 34068 2040 4

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⊥ SKYDDSDJORD
SAFETY GROUND

⊥ 0V PRIMARY

Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality SMS 673 R _a	μm
Utford Issued	9000 B N	Datum Date	820723
Kontr Check	9000 B	Skala Scale	
Godk Approv	883 A		62673 L-D
DPB Display power board (US)		ERICSSON	
E 34068 2040 2		2 Blad Sheet	

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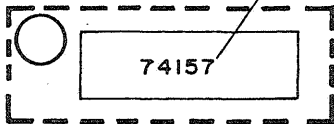
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E 34068 2050 4



2N 2907

* / INDICATED NUMBERS
ONLY EXAMPLES OF
EXISTING CIRCUIT
TYPES



74157

COMPONENT LIST

NO	TYPE #/
IC1	TDA1060
IC2	7912
IC3,4	BDT 60 C
IC5	723
Y1	BC 635
Y2	BUX 81
Z5,6,15	1N4448
Z10,19,20	1N5060
Z4	BZX55C39
Z16	BZX55C120
Z17,18	BYW 96 E
Z3,7-9,12-14,22	TR=300
Z2	LIB100V1A
Z1	LIB800V4A
Z11	SD241

ASSEMBLY DRAWING NO. E

REVISION OF DIAGRAMS

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REG.-NR
REG. No

KONTR CHECK	9000 BN	GODK APPROV	8831 710
SKALA SCALE		KOPIER COPIED	62673 L-D
UTFÖRD ISSUED	9000 BN		820622

DPB
Display power board

ERICSSON 

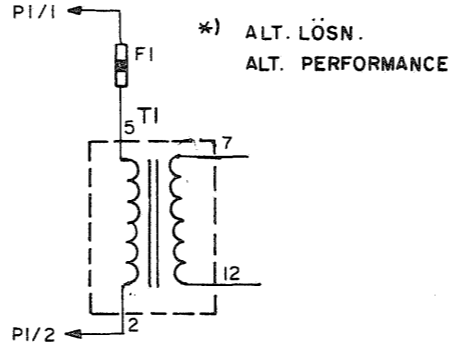
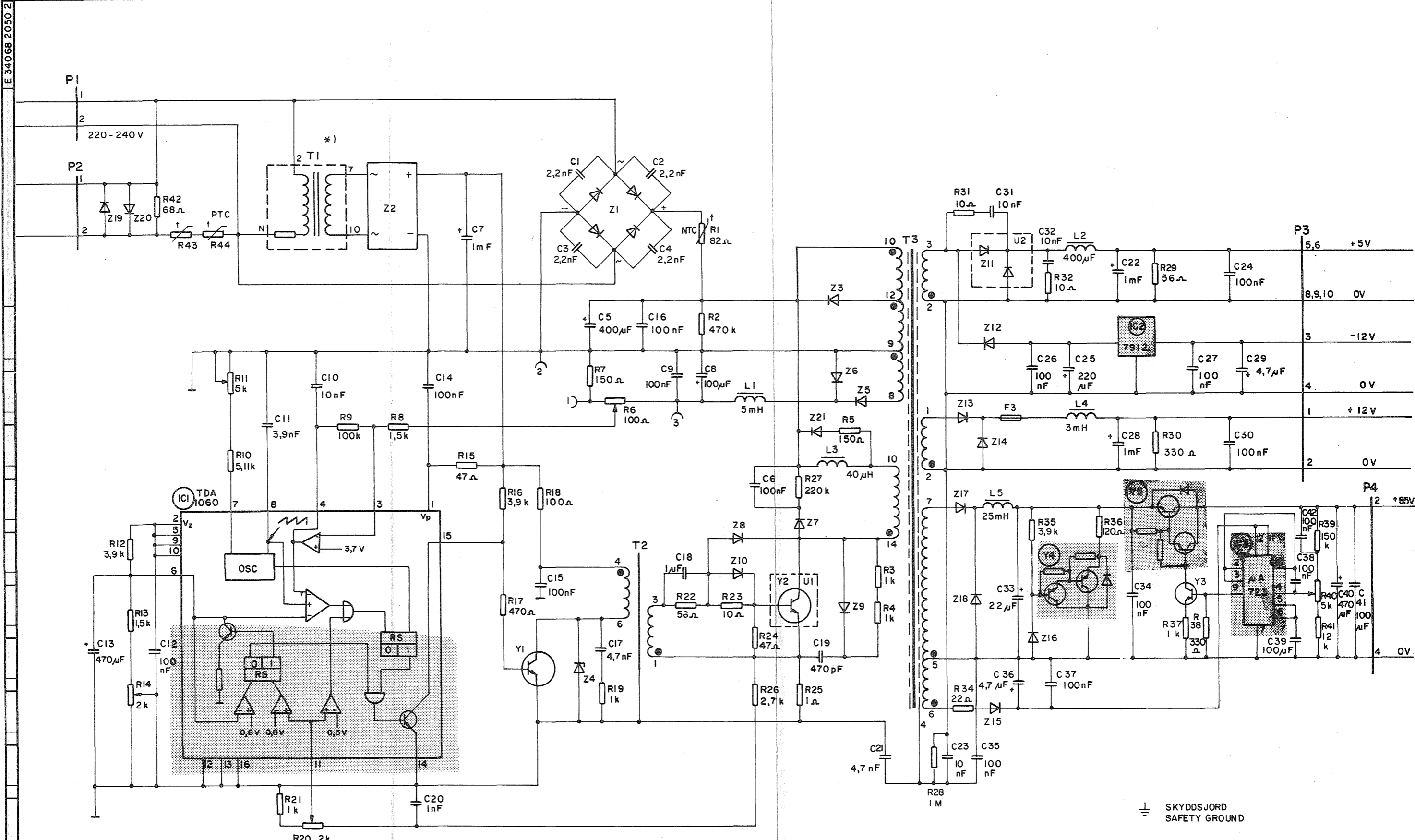
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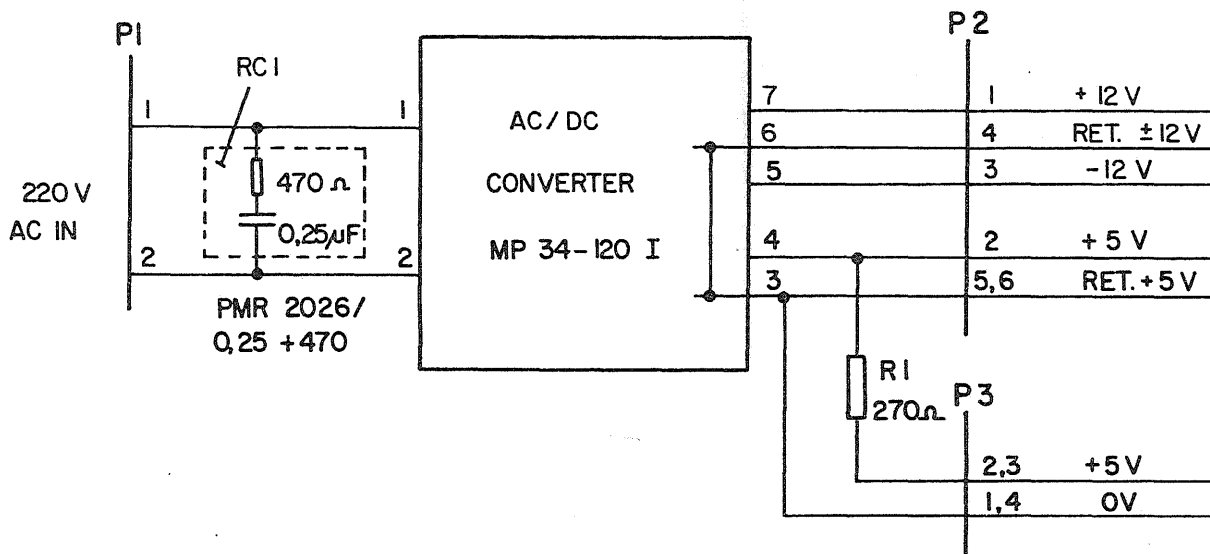
⊥ SKYDDSJORD
SAFETY GROUND

⊥ 0V PRIMARY

Material			
Ytbeläggning Coating			
Mått noggrannhet (Där ej annat angivits) Tolerances (Unless otherwise specified)	Diametrar Diameters	Ytjämnhet Surface quality	SMS 673 R _z μm
Utförd Issued	9000 BN	Datum Date	820622
Kontr. Check	4000 /P	Skala Scale	
Godk. Approv	8837 /P		62673 L-D
DPB		Display power board	
ERICSSON		E 34068 2050 2	
		2 Blad 2 Sheet	

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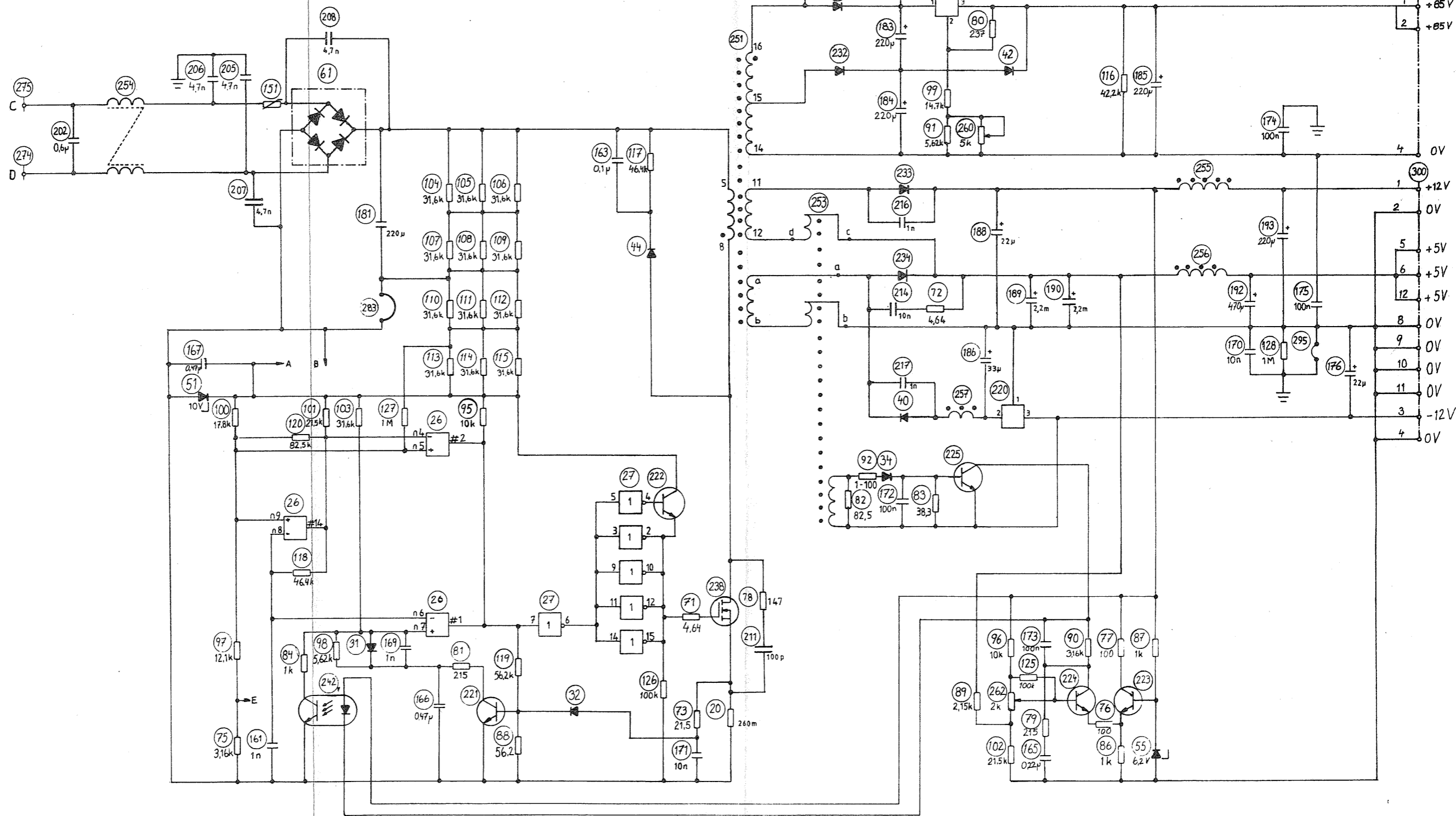
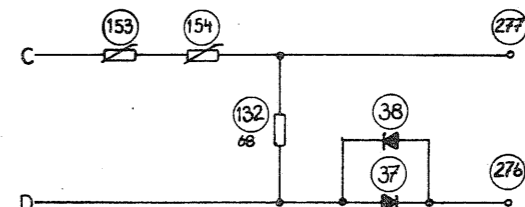
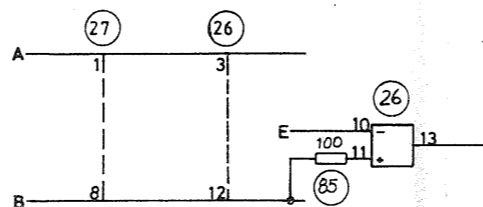
E 34075 2000 4

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Ytbeläggning Coating			
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		Övriga längdmått Other dimensions	Mått gäller före ytbeläggning Dimensions do not include coating
		Gradfria kanter Edges free from burr	
Utförd Issued	8315 P.O.S.	Datum Date	830225
Kontr Check	<i>P.S.</i>	Skala Scale	
Godk Approv	708929	22045 A.D.	
POWER SUPPLY, PS CIRCUIT DIAGRAM			ERICSSON
E 34075 2000 4			Blad Sheet

Uppgjord - Prepared KTRB HEYL	Faktsansvarig - Subject responsible KTRB	Nr - No. 1911 - ROA 117202/1
Dokument/Godk. - Doc respons/Approved KTRBC 8309 <i>C. Sjöström</i>	Datum - Date See below	Rev File
Benämning KRETSSCHEMA		Titel CIRCUIT DIAGRAM
Toleranser - Tolerances	Ritningsregler - Drawing rules	Ref

Sheet

Rev	A
	83 09
	B
	85-01



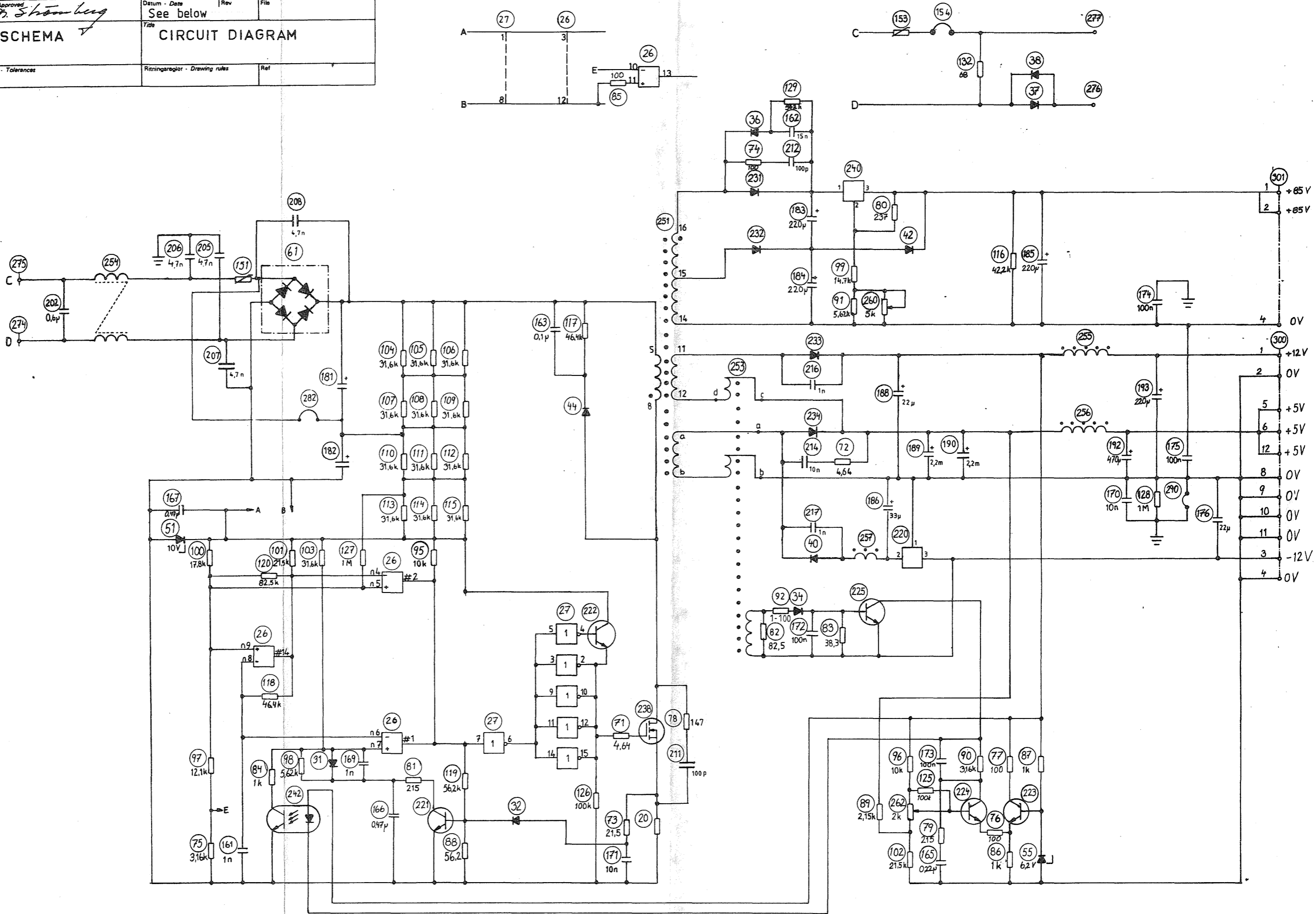
Bildkort

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Reprod

Uppgjord - Prepared KTRB HEYL	Faktsvarerig - Subject responsible KTRB	Nr - No. 1911 - ROA 117202/2
Dokument/Godk - Doc respons/Approved KTRBC 8309 P. Stromberg	Datum - Date See below	Rev File
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Toleranser - Tolerances	Ritningsregler - Drawing rules	Ref

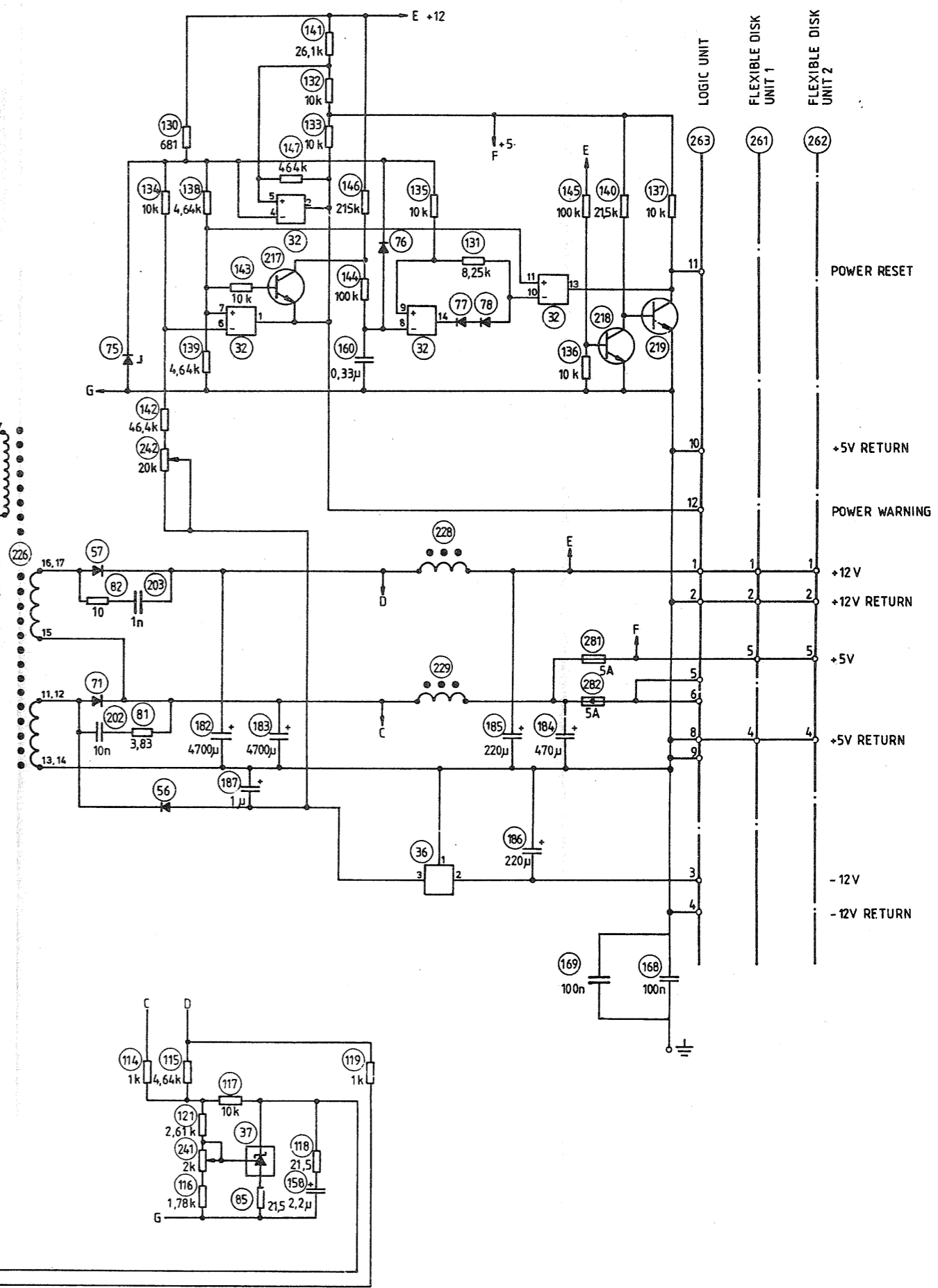
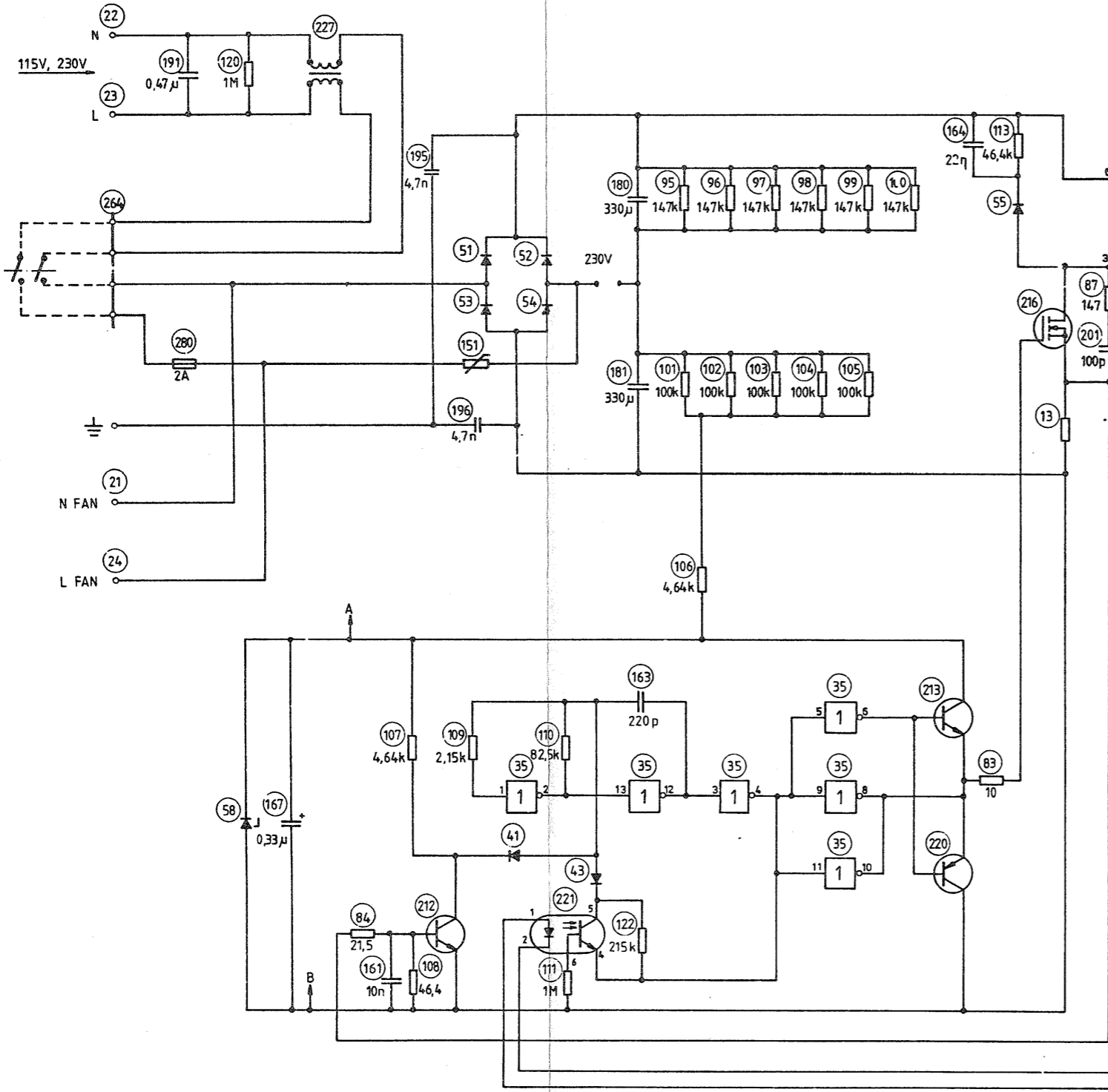
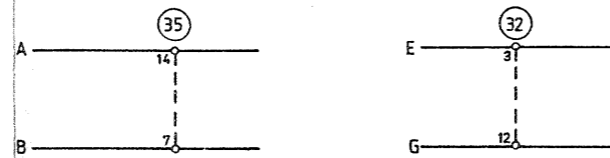
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Reprod

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Dokument/Godk. - Doc respons/Approved KTRBC 8308 P. Stromberg	Datum - Date See below	Rev File
Benämning KRAFTAGGREGAT 55W		Titel POWER SUPPLY 55W
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Sheet
Rev
A
83-08
B
83-11
C
84-01

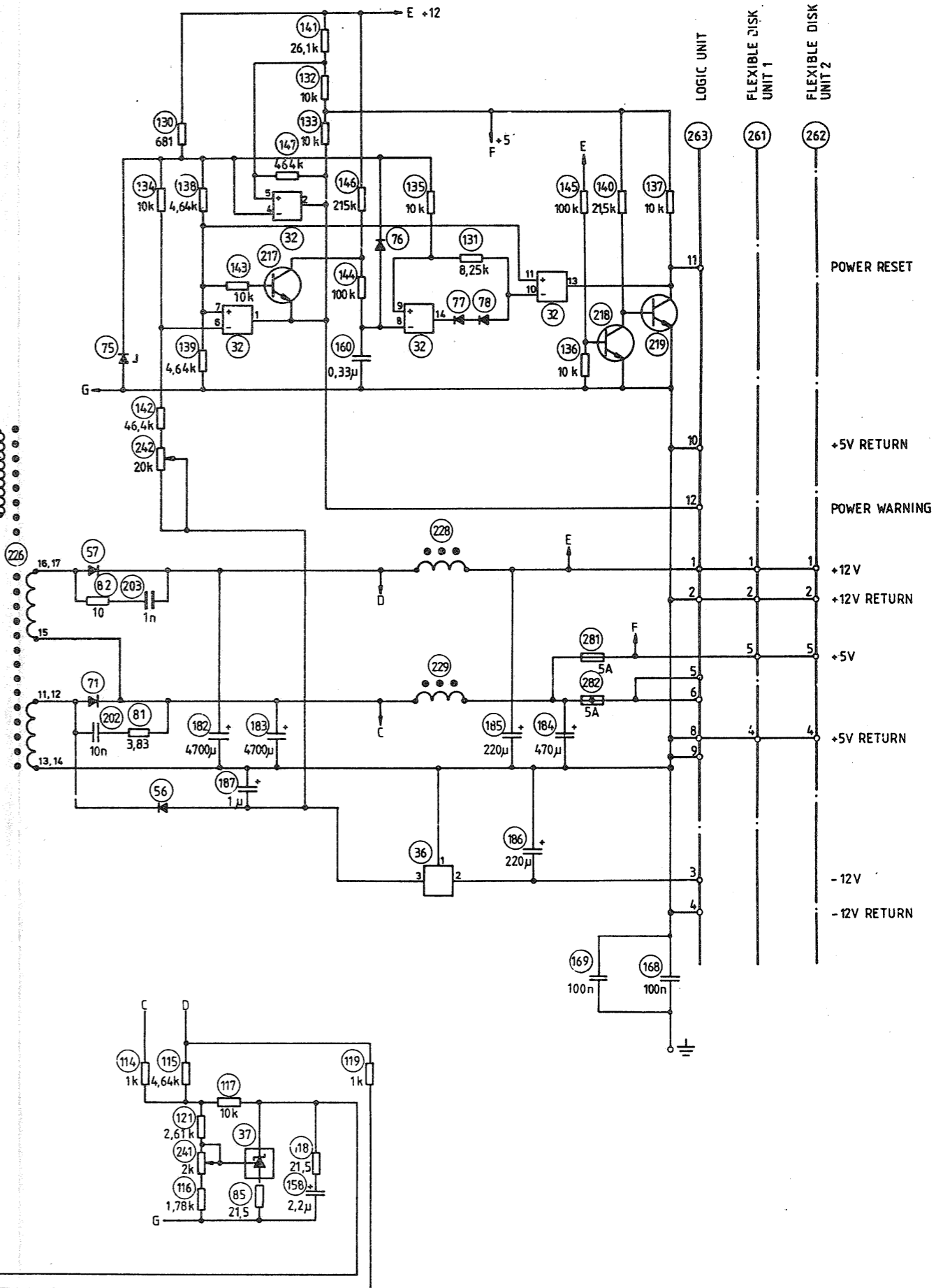
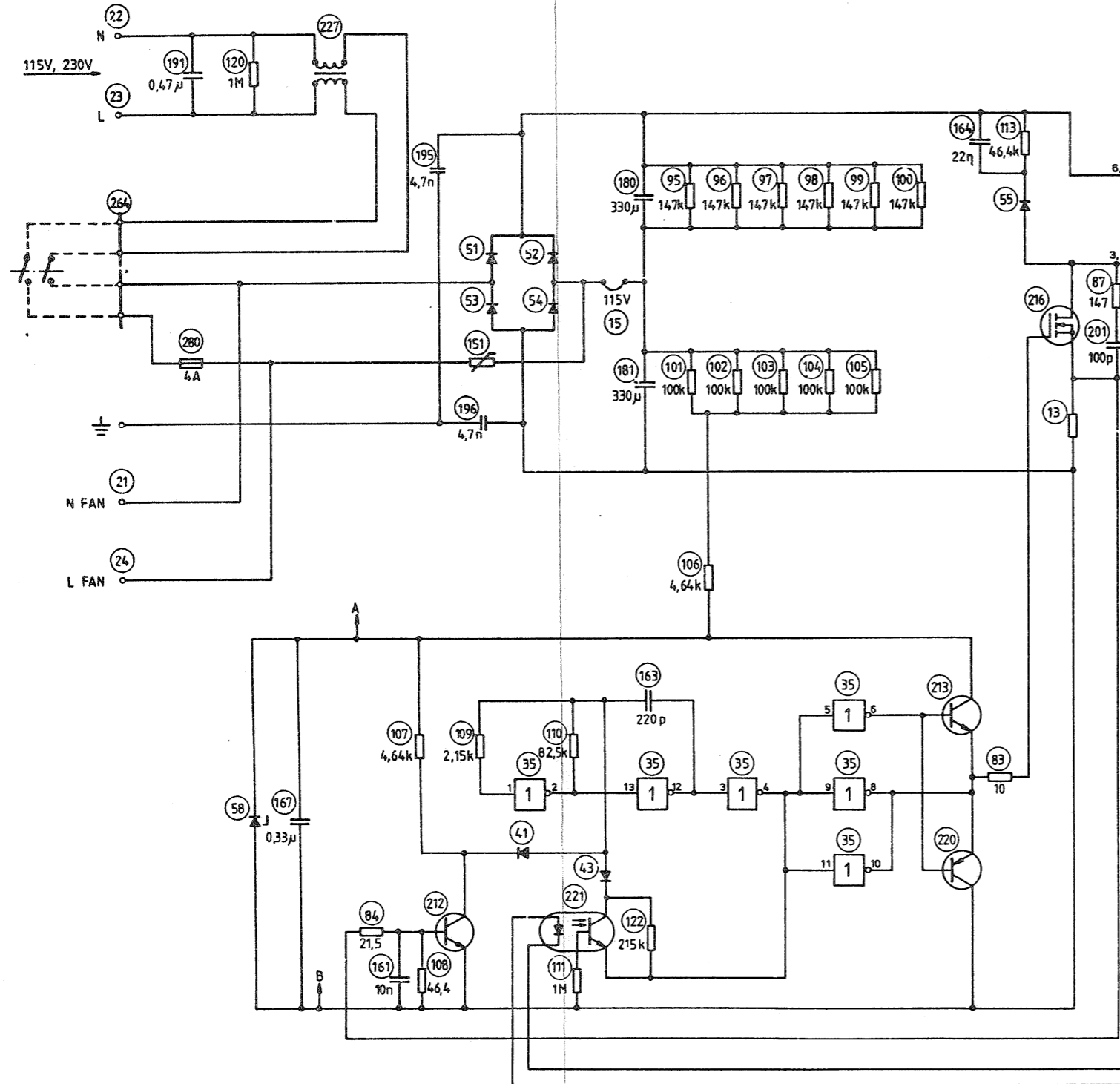
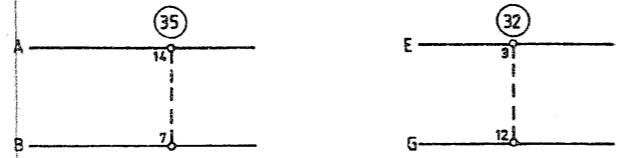


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Uppgjord - Prepared K/YBA CUJ/MLZ KTRB	Fektaansvarig - Subject responsible	Nr. No. 2111 - ROA 117 203/2
Dokument/Godk. - Doc. reason/Approved KTRBC 8308 P. Strömberg	Datum - Date See below	Rev File
Benämning KRAFTAGGREGAT 55 W	Ritningsregler - Drawing rules	Ref
Toleransar - Tolerances		

Sheet

Rev	
A	83-08
B	83-11
C	83-12



Bladkont
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56 789
Kopier