BRITISH TELECOM*
PRESTEL SERVICE

APPLICATION FOR EVALUATION OF PRIVATELY SUPPLIED TERMINALS/PERIPHERALS FOR CONNECTION TO THE PRESTEL SERVICE.

MANUFACTURER
COMPANY
NAME AND ADDRESS

FELSTED SCHOOL,
FELSTED,
DUNMOW,
ESSEX CM6 3JG

PERSON TO WHOM TECHNICAL ENQUIRIES SHOULD BE DIRECTED

MR C.C.H. DAWKINS

TELEPHONE NOS.

Gt. Dunmow (0371) 820130 (Private)
820790 (Prestel)
(August 1981: 01-500-5690)

TITLE OF EQUIPMENT/TERMINAL

ACORN INTELLIGENT EDITING TERMINAL

IMPORTANT: This form must be submitted to British Telecom Headquarters ME/RCS1.2.1.1, Tenter House, 45 Moorfields, LONDON EC2Y 9TH, in DUPLICATE together with single copies of any other material submitted.

(One photocopy and an original form will be acceptable.)

ME/RCS1.2.1.1
ME/RCS1.2.2.2

APRIL 1981

* British Telecom is part of the Post Office.

REFERENCES

THE QUESTIONS IN THIS DOCUMENT ARE BASED ON THE REQUIREMENTS SPECIFIED IN:-

a. The Prestel Terminal Specification.

b. Technical Guide No. 2

c. Technical Guide No. 5

d. Technical Guide No. 26

e. Technical Guide No. 30

HOW TO COMPLETE THE QUESTIONNAIRE

This questionnaire is designed to help you describe your equipment and is not intended to cover all mandatory sections of the Prestel terminal specification. Administrative details are dealt with on the last page of this questionnaire. This page must be completed by a person at the appropriate level within the Company.

Please tick the appropriate box(es) for each question, or give the details required. If the question is not applicable, indicate by N/A.

If you have difficulty answering any of the questions, please contact our engineers on 01-432 3179.

1 IS THE EQUIPMENT YOU ARE SUBMITTING TO BE TESTED AS:-

i. a Terminal with integral modem ☐

ii. a Terminal requiring external modem ☑

iii. a Micro Computer based system adapted for Prestel access ☐

iv. an adaptor for use with TV sets certified by BSI as meeting BS415 ☐

	YES	NO
2 IF YOUR EQUIPMENT REQUIRES AN EXTERNAL MODEM, HAS IT RECEIVED DATEL 600 CERTIFICATION	☑	☐

3 BARRIER UNIT

	YES	NO
a. Is a standard line coupling unit used	☑	☐

b. Give details of standard LCU

MANUFACTURER	DIAGRAM NO.
G.E.C. (L.T.U. MK 2 May 1980)	D. 140139

c. If non standard LCU is being used details:-

	MANUFACTURER	DIAGRAM NO.
i. Isolating Transformer		
ii. Gas Discharge Tube		
*iii. Quick Blow Fuses		
*iv. Relays		

* These items not required if Transformer meets Section 6.6.1 (Edition One) of the Prestel Terminal specification.

v. Draw block diagram of the Transformer, Fuse, GDT and Relay configuration, or if available send PCB and drawings or diagrams.

BLOCK DIAGRAM

Not applicable.

4 POWER SUPPLIES

		TYPE	DIAGRAM NO.
i.	Power Supply	Transformer / regulator	Diagram Enclosed
ii.	EHT Supply (if any)	None	
	Is it current limited?	YES ☐ NO ☐	
iii.	Mains Filter (if any)	None	

iv. If equipment contains EHT enclose High Voltage Certification as described in Section 6.7 of Prestel Terminal Specification (Edition One).

v. If equipment is an adaptor describe below the means of aerial isolation employed.

Not applicable

5 INTERFACES

i. a. The equipment has a printer interface — YES ☑ NO ☐

b. Give details of printer interface connection, pin functions and connector type.

Centronics parallel driven from 6522 PIA chip on Acorn versatile interface board via 26 way IDC connector, but currently unconnected.

ii. a. The equipment has a tape cassette interface — YES ☑ NO ☐

b. Give details of tape interface connections, pin functions and connector type.

3 - pin DIN 180°

1 = input from cassette recorder
2 = Ground
3 = output to cassette recorder

CUTS 300 baud

Currently unconnected.

iii. a. The equipment has a keyboard interface — YES ☑ NO ☐

b. Give details of keyboard interface connections, pin functions and connector type.

20-way RS Speedblock connector

20	D5	19	D6
18	D4	17	STROBE
16	D3	15	NRST
14	D2	13	+5v
12	D1	11	0v
10	D0	9	
8		7	
6		5	
4		3	
2		1	Blank

iv. a. The equipment has RGB and sync interfaces — YES ☑ NO ☐

b. Describe type of connection used and indicate whether Drivers are I/P or O/P and if any safety devices are employed.

5-pin 180° DIN socket on computer driven from SAA5060 via 74LS86; currently no isolation and currently not in use.

v. Describe below any interfaces provided by equipment not covered by Q5 i. to 5 iv. Detail pin function and connector type.

Econet interface 180° DIN socket
RS 422 standard

Pin 1 Data +
2 Data –
3 Ground
4 Clock +
5 Clock –

6 GENERAL FACILITIES

		YES	NO
i. a.	Is Auto-Dialling provided	✓	
b.	The total number of telephone numbers that can be stored in telephone number memory is	8	

ii. Describe below method by which telephone numbers are programmed. Indicate if a write disable switch is employed.

Numbers programmed by user under software control.
System is under development to allow numbers to be set by remote computer during terminal registration.

iii. Describe below method by which the ID is programmed into the terminal.

As for telephone numbers.

iv. Describe below the type of display employed (include screen size and whether monochrome or colour.

9" B+W Hitachi monitor (or RGB monitor later)

7 MICRO COMPUTER BASED SYSTEMS

TERMINAL IDENTIFIERS

Detail how ID is stored and transmitted in your system (actual or proposed)

Encrypted in protected disk file.

Draw a Block Diagram of the system layout detailing:-

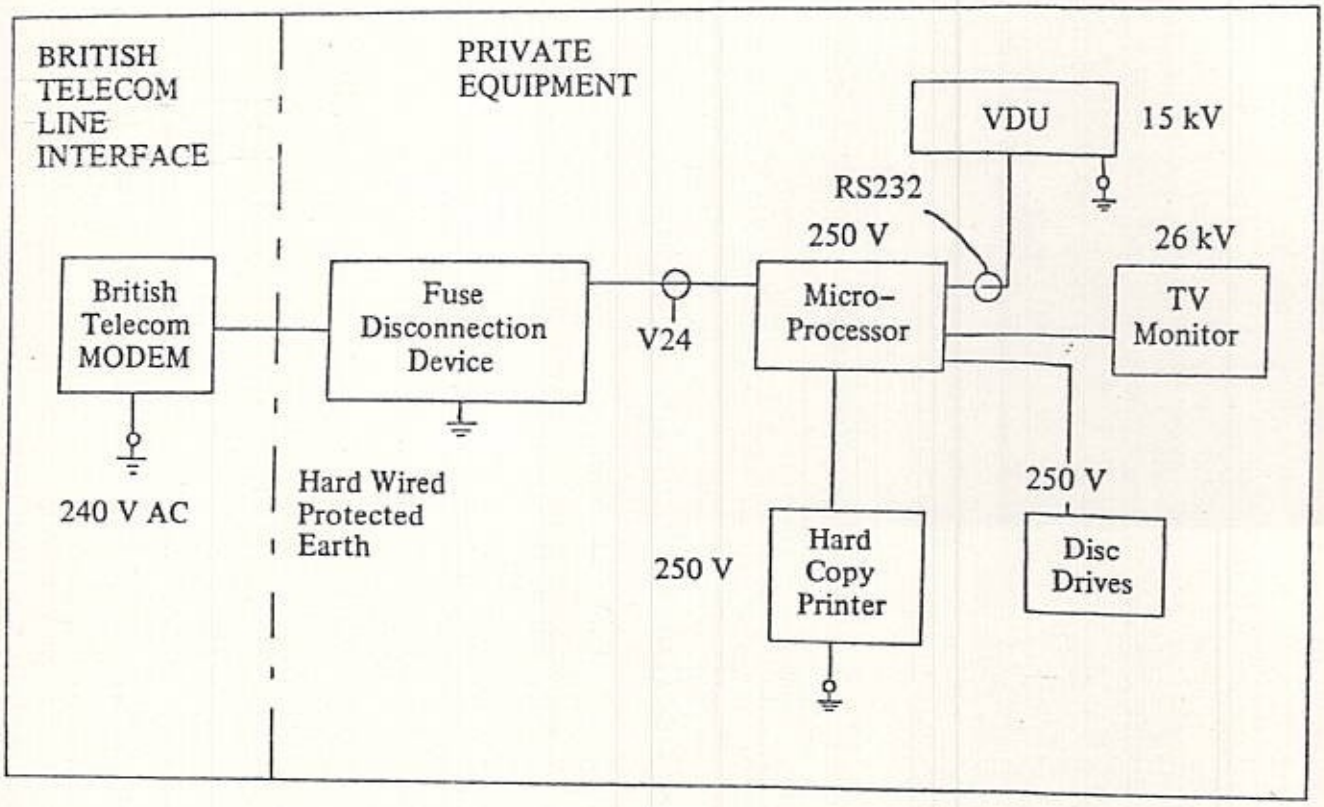
a. Demarcation between the private system and British Telecom Line Interface.

b. Mains and Earth connection distinguishing between an Earth derived from plug or hard wired.

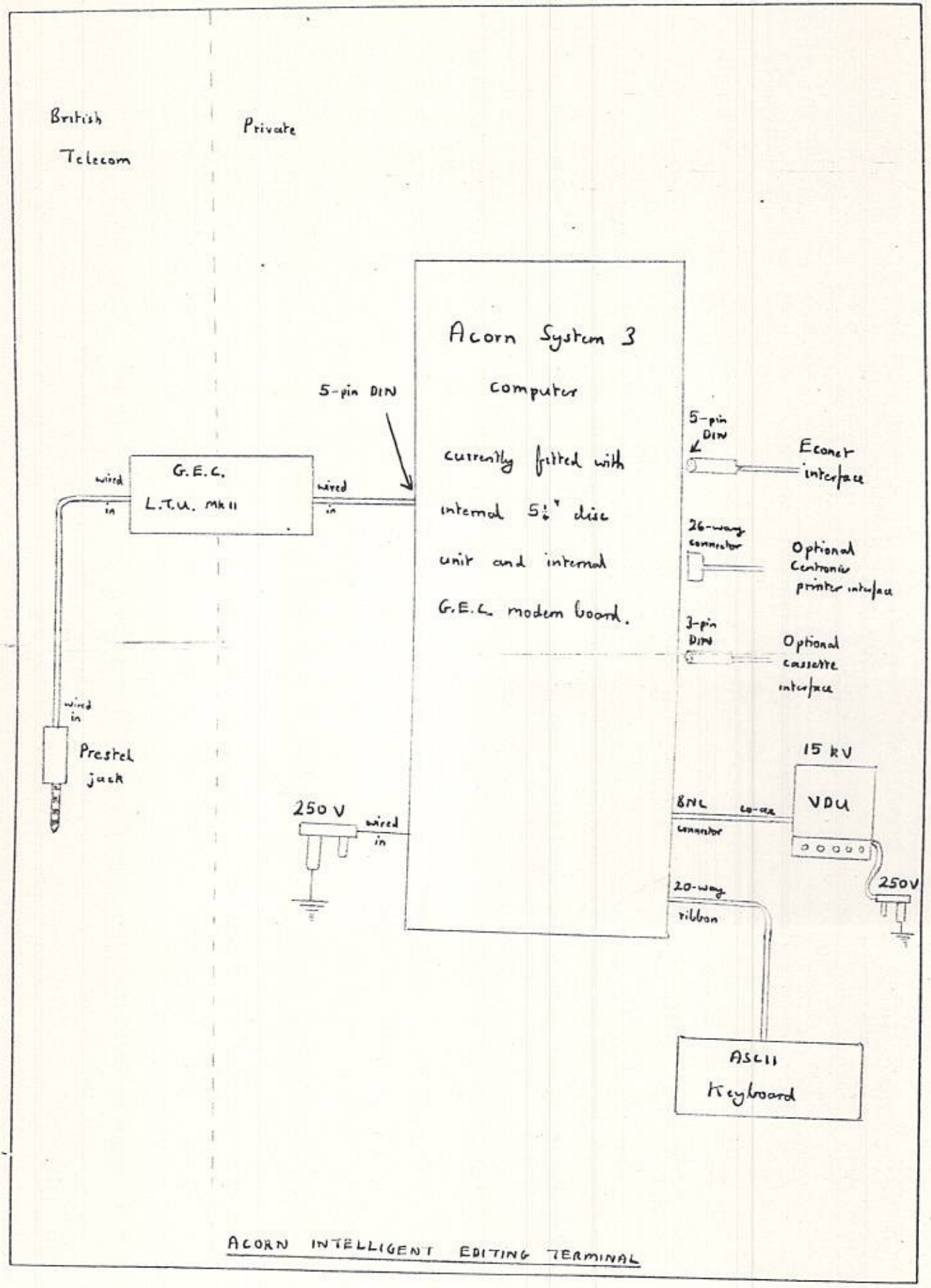
c. The maximum voltage present in each device.

d. Manufacturer and model of equipment being used.

EXAMPLE



BLOCK DIAGRAM



ACORN INTELLIGENT EDITING TERMINAL

① The system is a prototype being developed by Felsted School in conjunction with Acorn Computer Ltd, of 4A Market Hill, Cambridge.

② Until September 9th 1981 development work will be carried out by Mr A.R. Gordon at 63 Chigwell Park Drive, Chigwell, London (01-500-5690) where a Prested jack will be required.

CONDITIONS RELATING TO THE CERTIFICATION OF PRIVATE EQUIPMENT SUPPLIED FOR CONNECTION DIRECTLY OR INDIRECTLY TO POST OFFICE INSTALLATIONS

TERMS AND CONDITIONS OF CERTIFICATION

On behalf of the Company applying for certification it is hereby agreed that if certification of the equipment for its use in conjunction with the Post Office Prestel Service is granted, it shall be subject to the terms and conditions of the standard suppliers Agreement that exists at the time of dating of this application, and the requirements of Technical Guides Numbers 26 and 30 and the Prestel Service Terminal Specification.

REGISTRATION

Registered Name:

FELSTED SCHOOL

Registered Office:

FELSTED SCHOOL,
FELSTED,
DUNMOW,
ESSEX CM6 3JG

Registered Number:

Place of Registration:

Name (Block Caps): C.C.H. DAWKINS

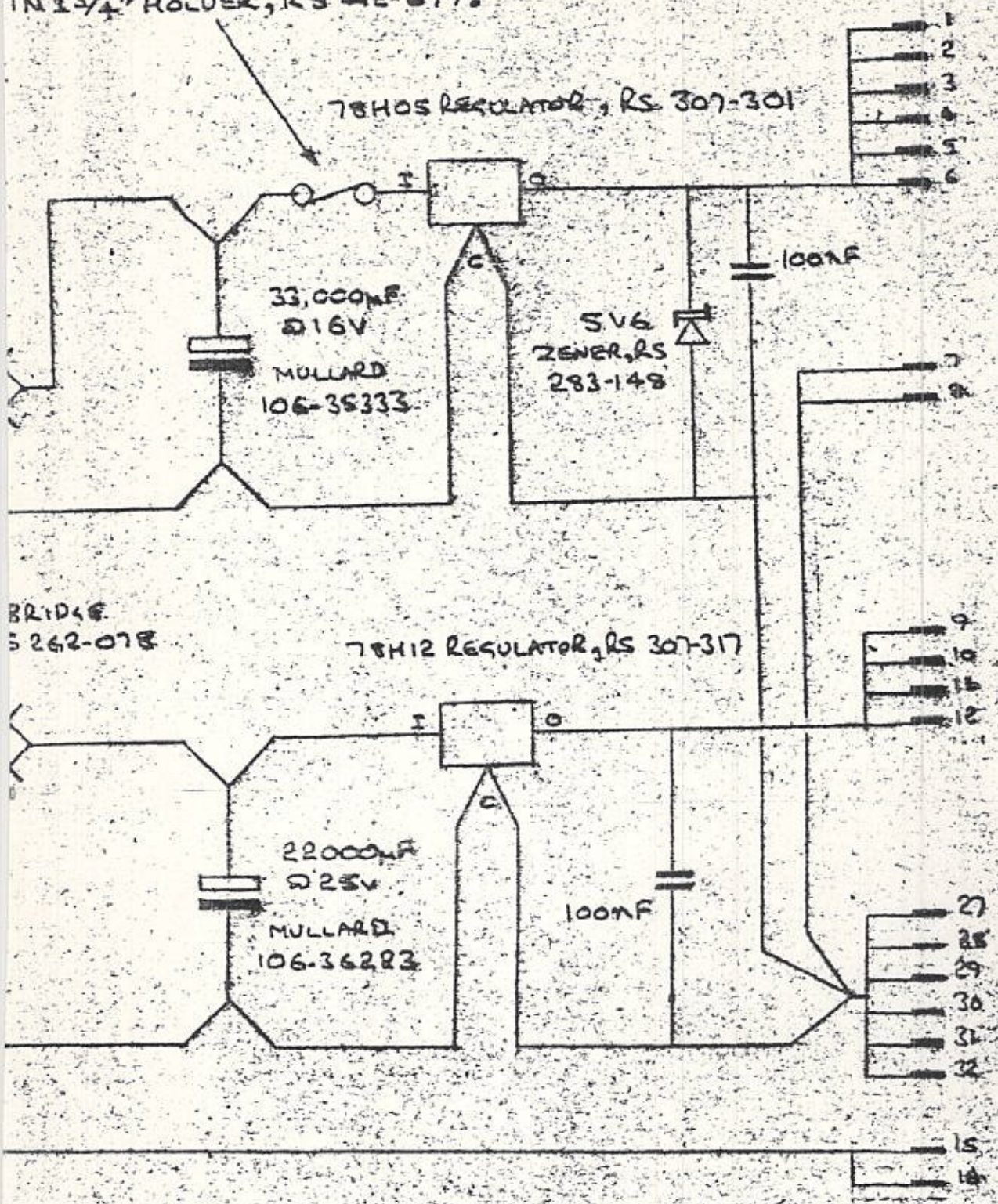
Signature*: C Dawkins

Date: 20th July 1981

* This application must be signed by a person employed by the Company applying and authorised by the Company to sign such documents.

POWER SUPPLY

7A FUSE, RS 412-318
IN 1¾" HOLDER, RS 442-677.



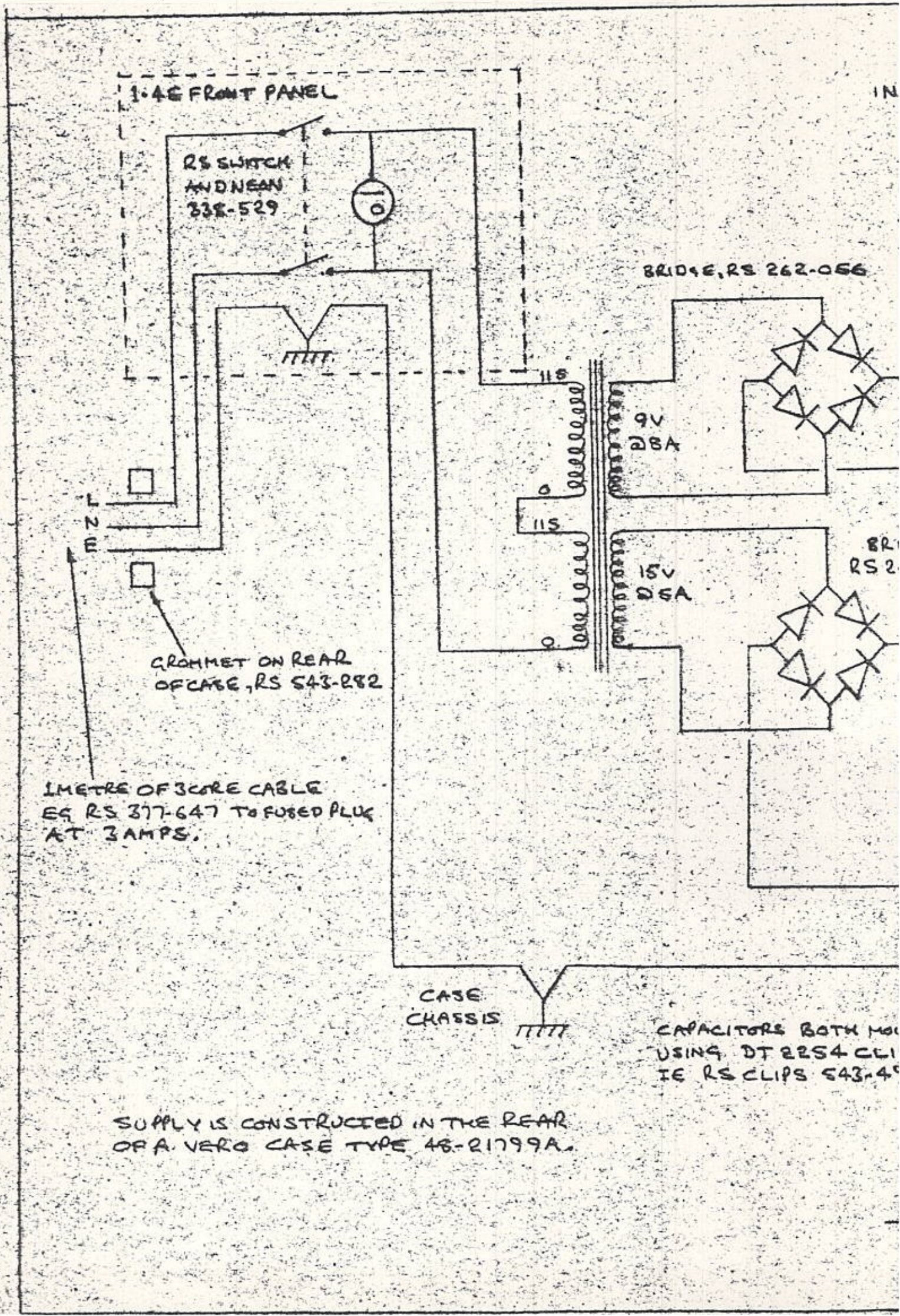
MOUNTED
CLIPS
-490

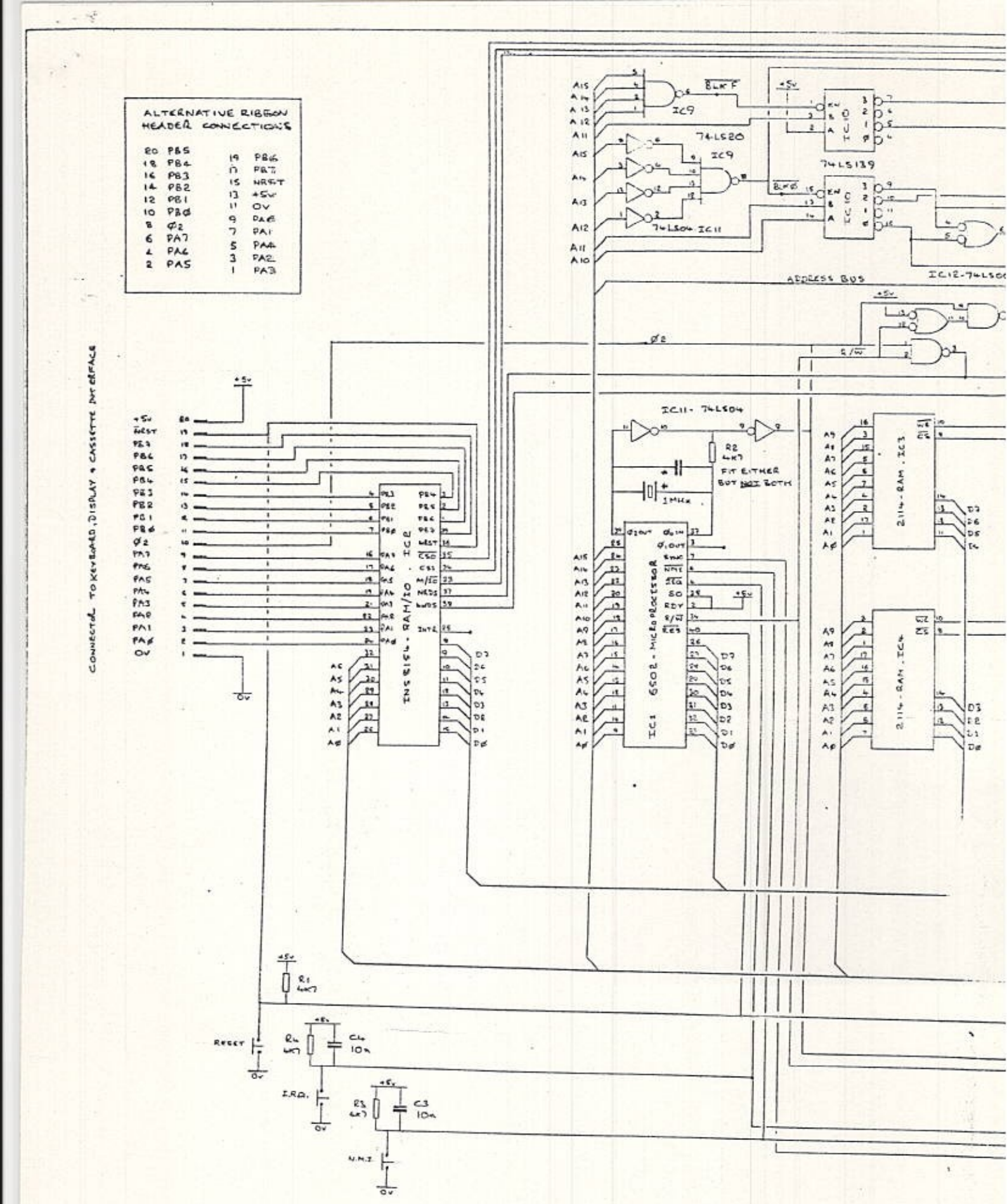
REGULATORS MOUNTED ON TWO HEATSINKS
RS 401-403 OR 100/104 OR MARSTON 10 DN (FARNELL)

HEAT SINKS INSULATED FROM CASE AND EACH OTHER USING FOUR TRANSI BLOCKS TYPE 566 (FARNELL)

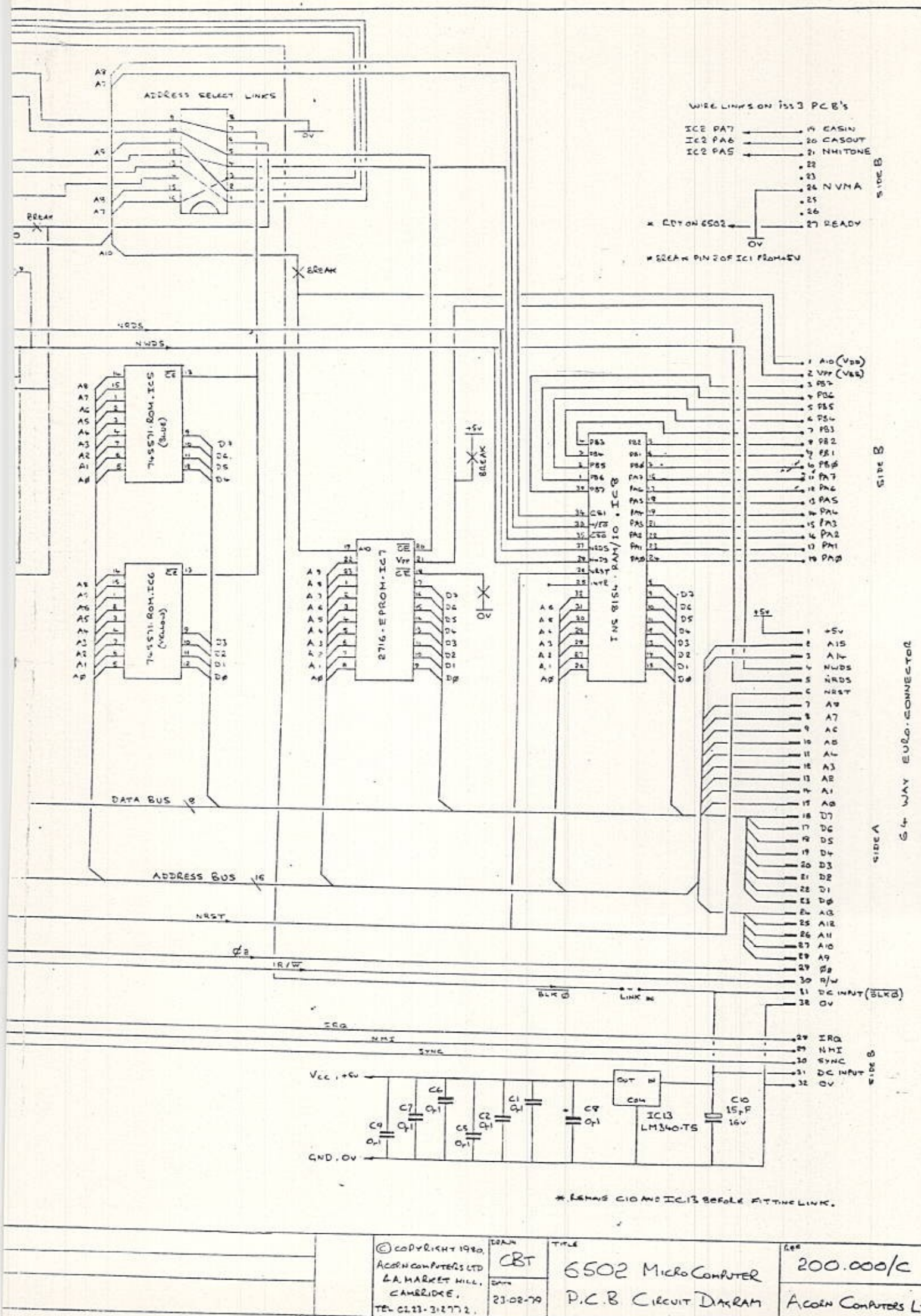
ISSUE	DATE
1	22.12.78

5v @ 5A and 12v @ 3A Supply.

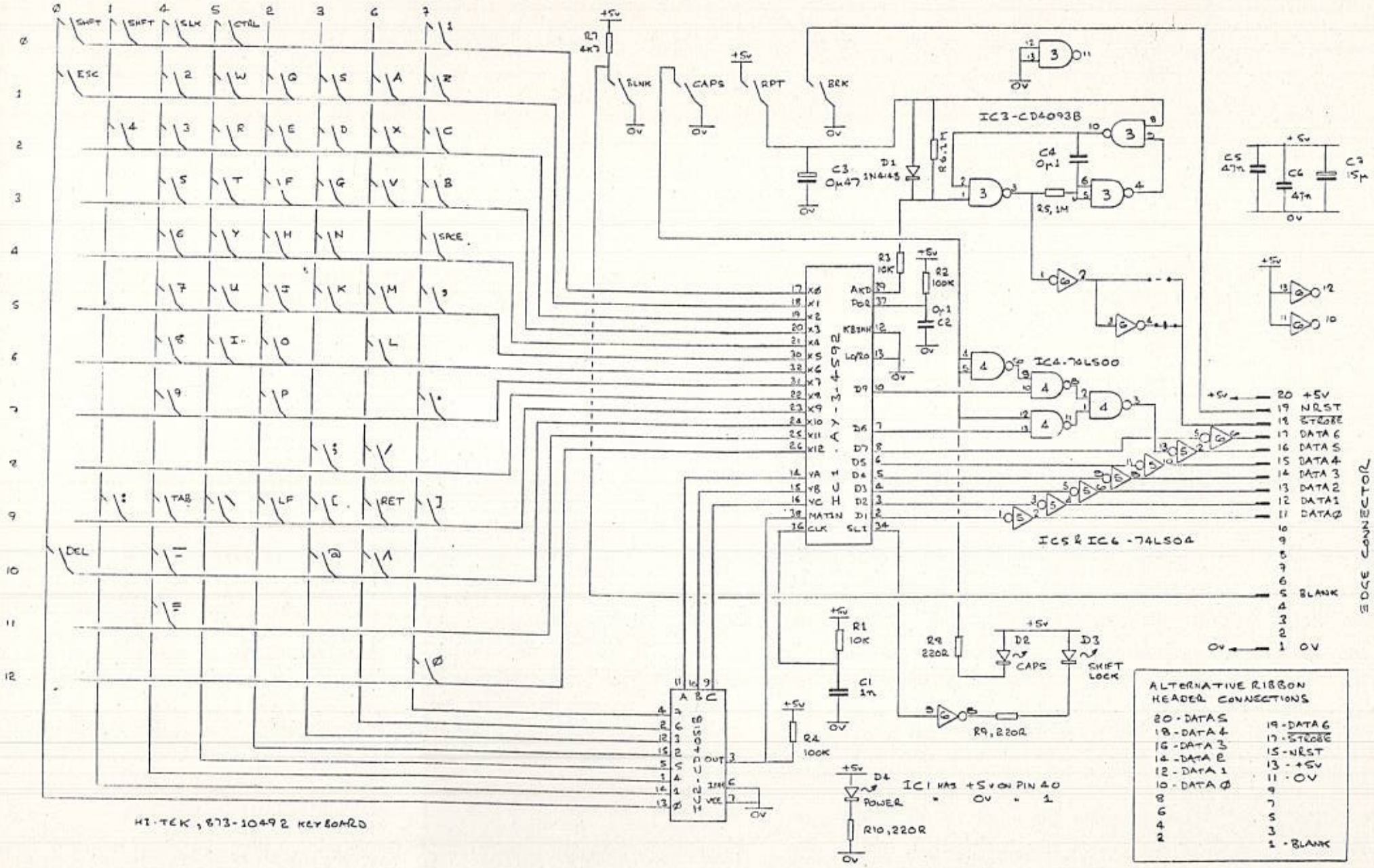

1·4E FRONT PANEL
RS SWITCH
AND NEAN
338-529
BRIDGE, RS 262-056
115
9V
2.8A
0
115
15V
0.6A
0
L
N
E
GROMMET ON REAR
OF CASE, RS 543-882
1 METRE OF 3 CORE CABLE
EG RS 377-647 TO FUSED PLUG
AT 3 AMPS.
CASE
CHASSIS
SUPPLY IS CONSTRUCTED IN THE REAR
OF A VERO CASE TYPE 46-21799A.



ISSUE	1	2	3
DATE	23-02-79	11-07-79	27-03-80



DRAWN CBT	TITLE 6502 MICRO COMPUTER P.C.B CIRCUIT DIAGRAM	REF 200.000/C
DATE 23-02-80		ACORN COMPUTERS LTD



ISSUE	1	1	2
DATE	11·10·79	19·12·79	14·01·80
		CBT	

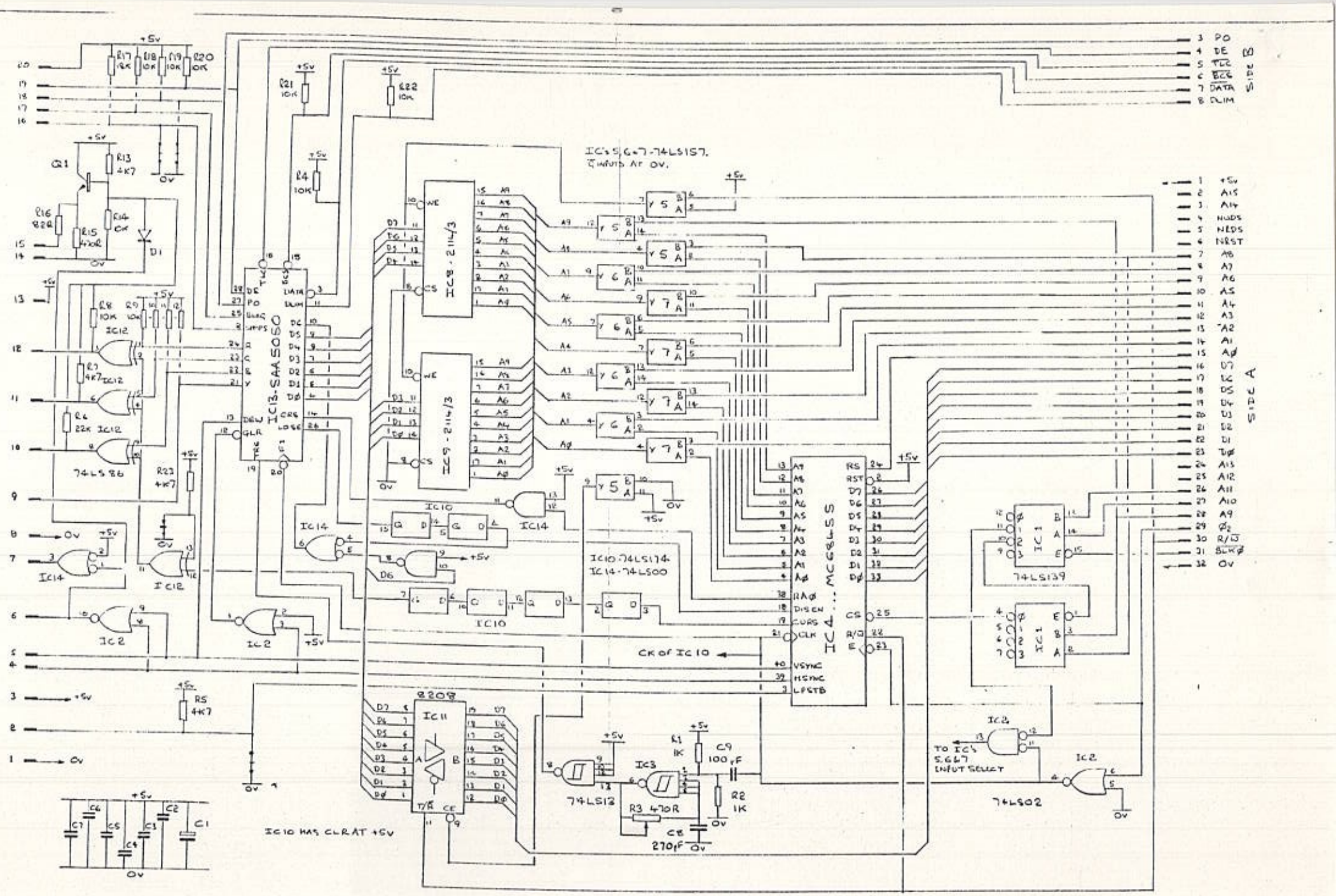
DRN CBT

DATE 11·10·79

TITLE ASCII KEYBOARD CIRCUIT DIAGRAM

DRG 200.013/C

ACORN COMPUTERS LTD



ISSUE	C	D	1	2	3
DATE	12/6/79	19/06/79	29/08/79	15/11/79	19/12/79
	CBT	CBT	CBT	CBT	CBT

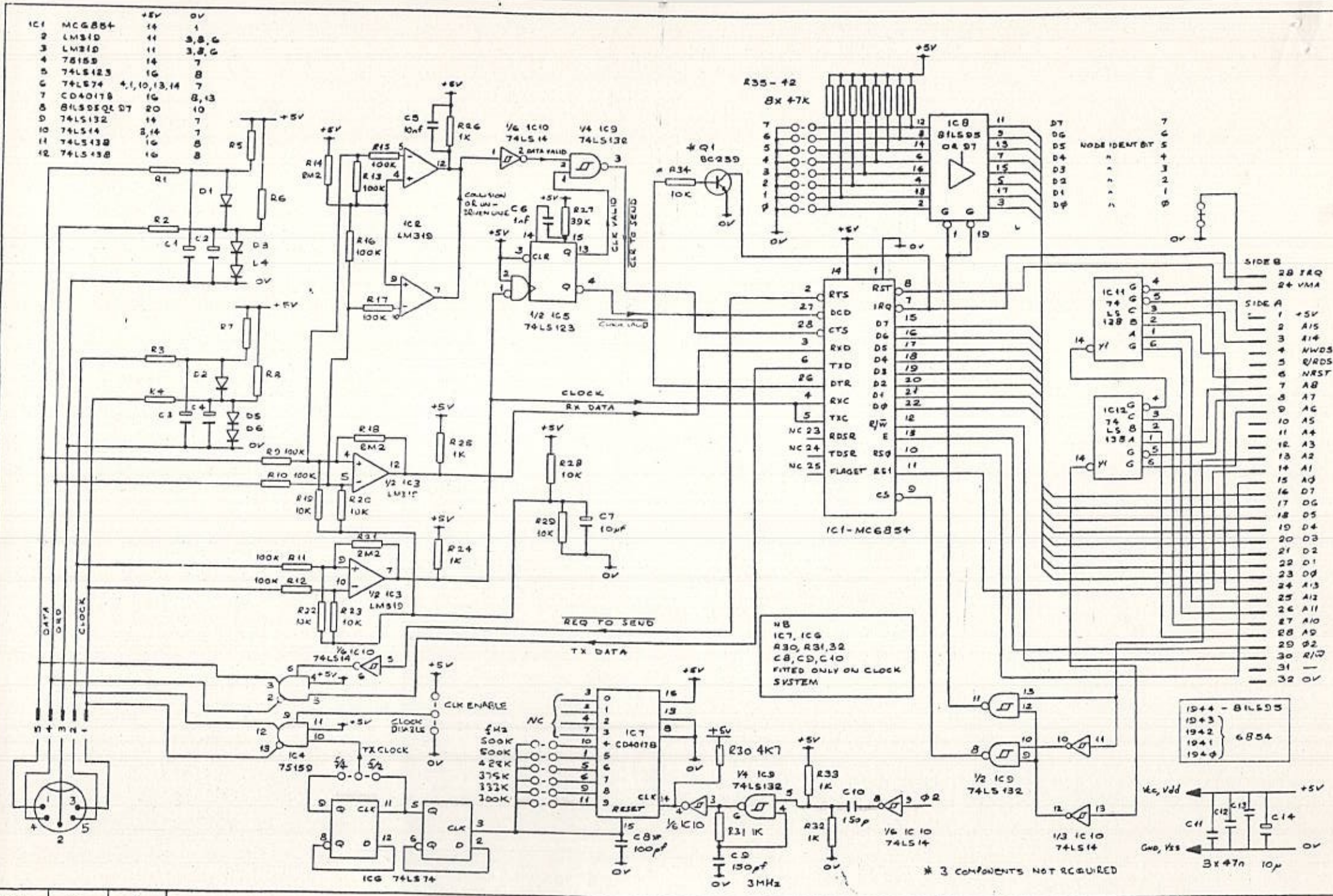
DRN CBT

DATE 12/6/79

TITLE V.D.U. INTERFACE P.C.B. (TELETEXT).

DRG 200,002/C

ACORN COMPUTERS LTD



ISSUE	1	L
DATE	13-1-81	27-1-81
		C&T

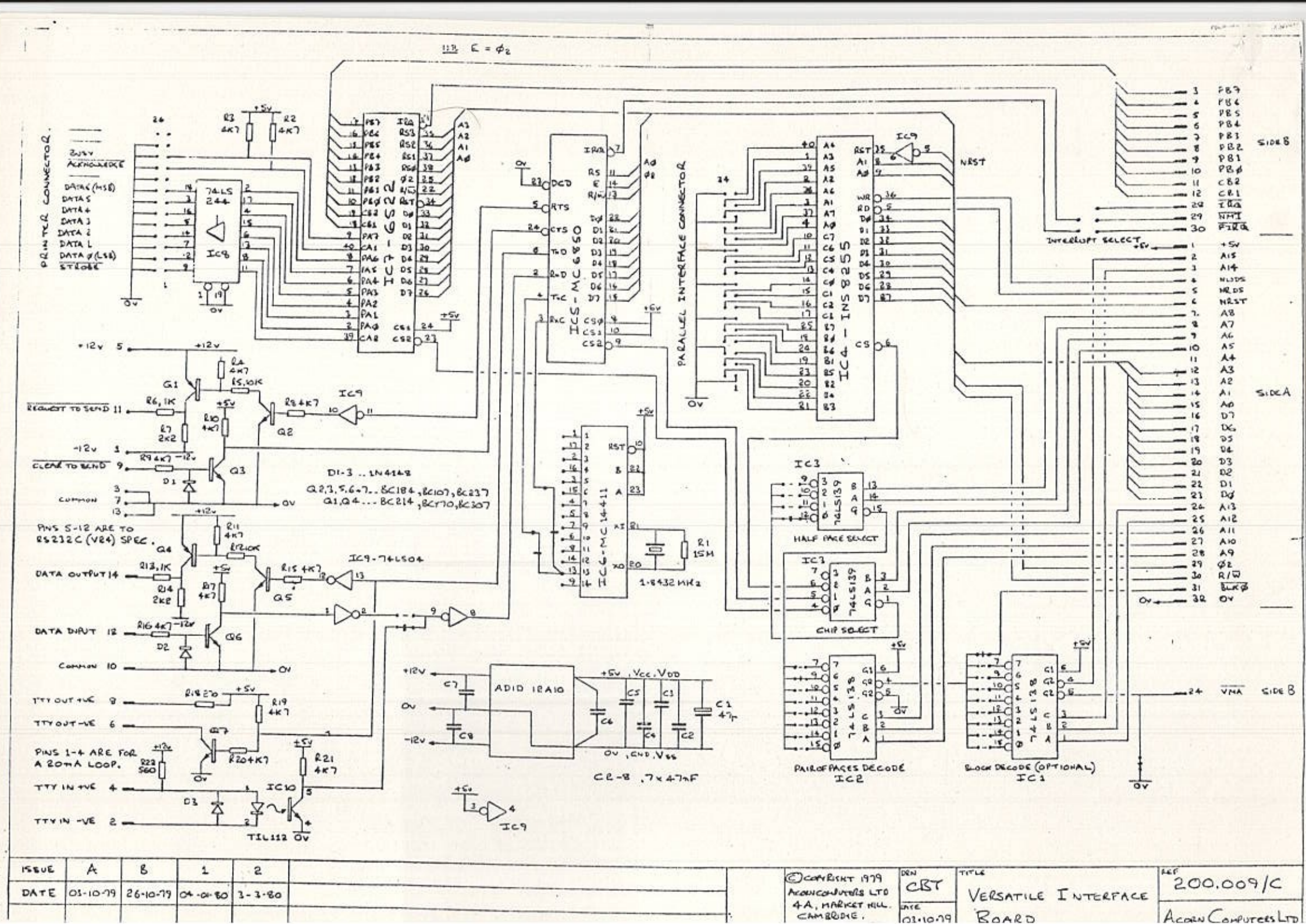
4A MARKET HILL CAMBRIDGE
TEL 0223-312772

DRN	GWDS
DATE	14-1-81

TITLE
ECONET
NODE CIRCUIT DIAGRAM
EURO CARD VERSION

REF 200,024

ACORN COMPUTERS



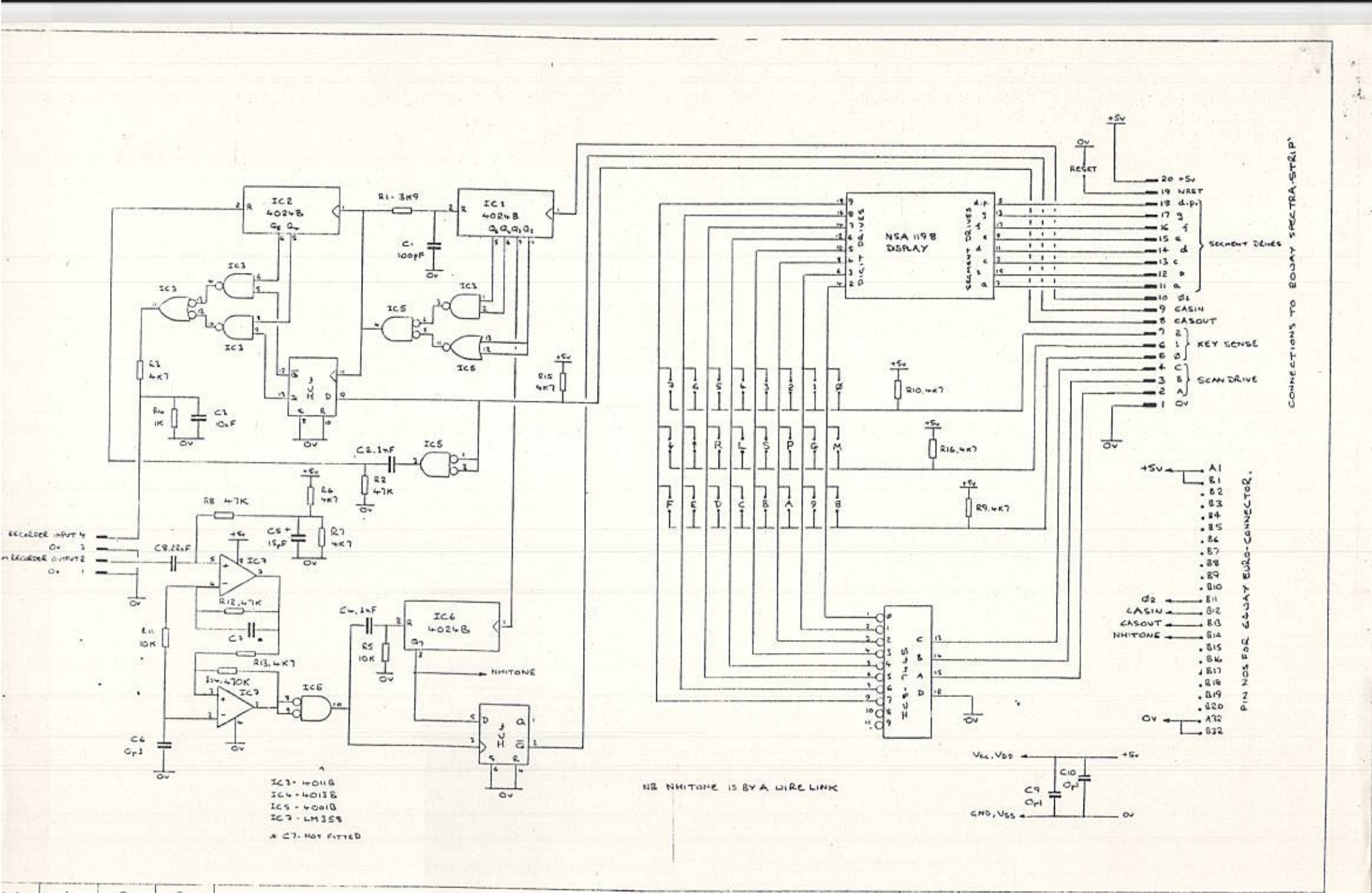
ISSUE	A	B	1	2
DATE	03-10-79	26-10-79	04-01-80	3-3-80

DRN CBT
DATE 03-10-79

TITLE
VERSATILE INTERFACE BOARD

REF 200.009/C

ACORN COMPUTERS LTD



ISSUE	1	2	2
DATE	26-02-79	11-07-79	27-03-80

DRAWN	CBT
DATE	26-02-79
TITLE	KEYBOARD, DISPLAY & CASSETTE INTERFACE P.C.B.
REF	200.001/C
	ACORN COMPUTERS LTD