DCR MCB

Multi-connector board

Technical manual

Version 1.2

datelcare

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1 GENERAL DESCRIPTION

1.1 Purpose

The Datelcare Multi-Connection-Board (DCR-MCB) is primarily ment as a distribution panel for the DCR Multi-Function-Board (DCR-MFB). It contains a 25 pin male D-connector and a rotary baudrate-switch for the EIA / RS232C terminal connection. Further a 25 pin female D-connector for the printer interface, a switch to put the LTC on and off, a Halt/Run switch and a LED run indicator.

The DCR-MCB is connected with the DCR-MFB through a 26 pin flatcable.

1.2 Specifications

1.2.1 physical dimensions

height	:	38.0 mm
length	:	84.0 mm
width	:	66.0 mm

1.2.2 power requirements

+ 5 V +/- 5% @ 10 mA, supplied bye DCR-MFB

1.2.3 Baud rate range serial interface

Baud rate: 75,110,150,300,600,1200,2400,4800,9600,19200 baud

2 INSTALLATION

The DCR-MCB requires no adjustments. The next chapter will descript the pin definition of the used connectors.

2.1 Serial interface

The serial interface from the DCR-MFB is mainly ment for use of a console terminal. Therefore only a 3-wire RS232 connection is provided.

The baudrate can easily be adjusted with the rotary switch. With the baudrate prom Bx in the DCR MFB you can use the following baud rates: 75, 110, 150, 300, 600, 1200, 2400, 4800, 9600 and 19200 baud. Other RS232 settings should be made with the jumpers on the DCR-MFB. The following table shows the pin definition for the male D-connector.

Pin No.	Label	Description
2	Tx	Transmit Data
3	Rx	Receive Data
7	Gnd	Signal Ground
others	NC	Not Connected

Table 2.1

2.2 Parallel interface

The DCR-MFB features a parallel port for use of a centronics-type printer. The pin definition is according to the IBM-PC printer connector so that a 'IBM printer cable' can be use for the connecton between the printer and the DCR-MCB. The following table shows the pin definition for the female D-connector.

Pin No.	Label	Description
1	/STROBE	data strobe, negative-going pulse
2	Data1	8 or 7 bits data lines
3	Data2	
4	Data3	
5	Data4	
6	Data5	
7	Data6	
8	Data7	
9	Data8	
10	/ACK	4 usec Acknowledge pulse
11	BUSY	printer busy if high level
12	PAPER OUT	paper out if high level
13	ON LINE	Printer on line indication
18..25	GROUND	Signal and shield ground

Table 2.2

2.3 Other features

Besides the mentioned connectors and rotary switch, the DCR-MCB contains two other switches and a LED indicator.

The LTC on/off switch is used to control the clockpulse on the BEVENTL line. When switched on, the 50 or 60 Hz pulses are pushed on the this Q-bus line. This switch can be used to switch the clock temparary off.

The Halt/Run controls the Q-bus BHALTL line. When switched to Halt, the processor responds by going into tconsole ODT mode.

The Run LED indicator monitors the Q-bus SRUNL line on the processor board. This LED lights when the processor is in RUN mode.

2.4 Interface with DCR-MFB

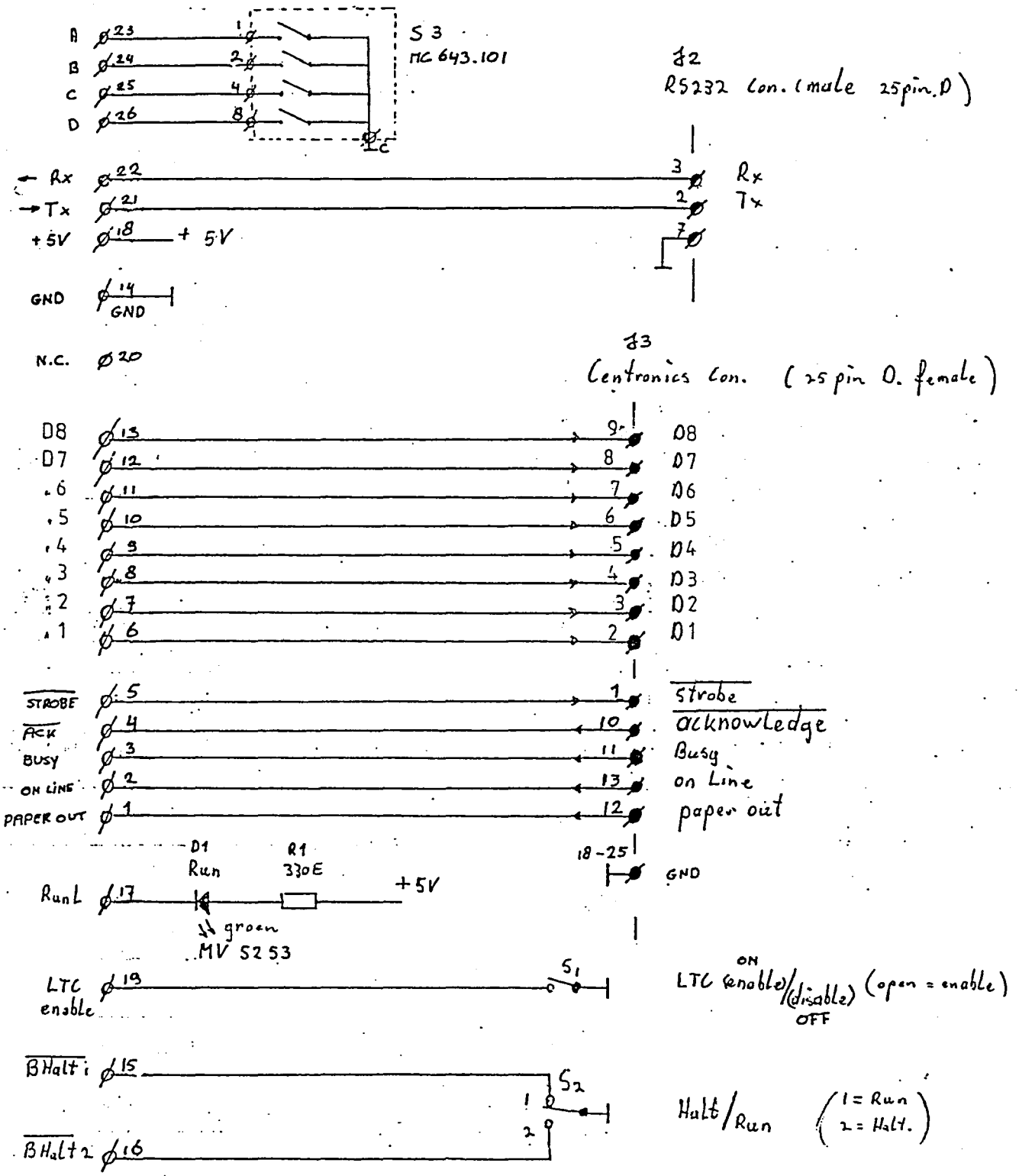
The DCR-MCB is connected with the DCR-MFB through a 26 wire flatcable. The next tables gives you the pin definition for the flatcabel connector on the back of the DCR-MCB.

pin number	label	function
1	PAPER OUT	printer: paper out signal
2	ON LINE	printer: on line signal
3	BUSY	printer: busy signal
4	/ACK	printer: acknowledge
5	/STROBE	printer: data strobe
6	D1	
7	D2	
8	D3	
9	D4	printer: data bits
10	D5	
11	D6	
12	D7	
13	D8	
14	GROUND	signal ground
15	BHALT 1	halt/run: GND = RUN
16	BHALT 2	halt/run: GND = HALT
17	RUN L	run LED indicator
18	+ 5 VOLT	
19	LTC ENABLE	GND: disable LTC
20		not connected
21	TX RS232	RS232C transmit signal
22	RX RS232	RS232C receive signal
23	A	
24	B	For baudrate select switch
25	C	
26	D	

Table 2.3

J1

Bus draite
10 standen draaischakelaar.



PRINT NR 19860601-A

gewijzigd	datum	SCHEMA	get. : FvN	gec. :
HJ	4-3-86	DCR MCB ISS. A	datum : 17-1-86	schaal :
P.R.v.V	5-20-86		aant.bl.: 1	tek.nr. : 19860602
		REV. 1	bladnr.: 1	doc.nr.:

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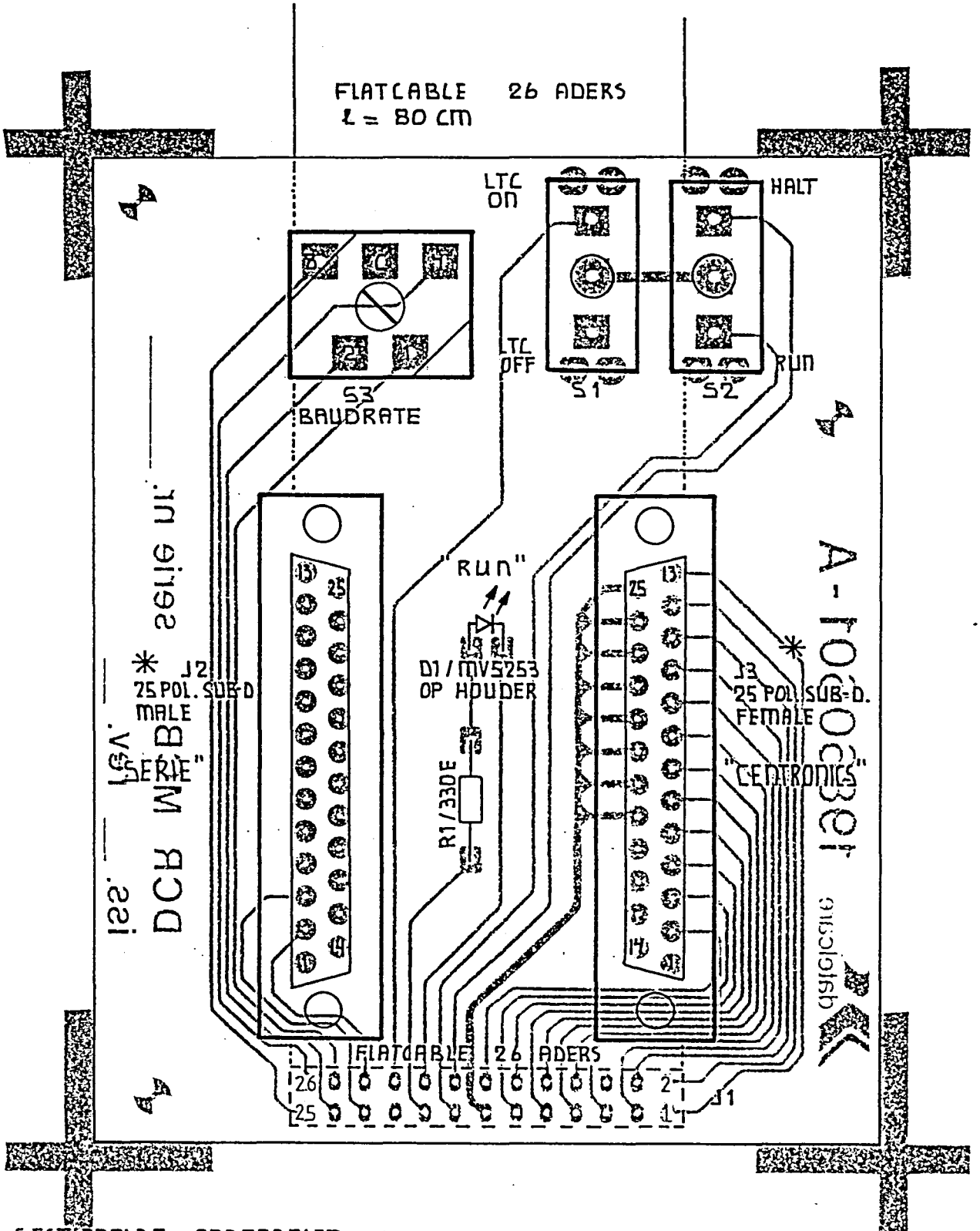

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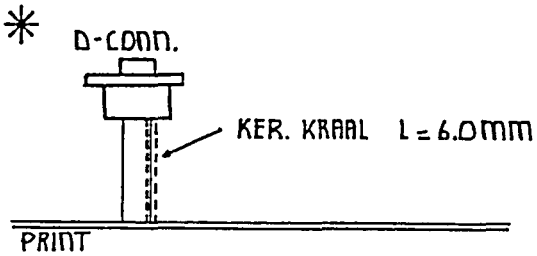

P.R.v.V. 5-20-86

MONTAGEPLAN
DCR MCB
ISS. A REV. 1
DATUM 07/07/86
TEK. NR.: 19860603

Pos.	Omschrijving	Fabrikaat	Opmerkingen	aant.
R1	METAAL ERST. 330E-0,33W	PHILIPS	SFR 25	1
D1	LED MV5453	GEN.INSTR	5mm GROEN	1
	LEDHOUDER 10mm	FISCHER	DH5 W	1
S1,2	7101-S-D9-V30-B-E	C&K	1 POLIG WISSEL PRINT MONT.	2
S3	MC 643.101	ERNI	10 STANDEN BCD CODE	1
	KNOP 10mm ZWART + STREEP	ELMA	021-2320	1
	DEKSEL ZWART + STREEP	..	040-1620	1
J1	PCB CONN. 26P	3M	3926-0000T	1
	FLATCABLE 26 ADERS	3M	3365/26	0,8m
	SOCKET CONN. 26P	3M	3499-6000	1
J2	25P D-CONN. MALE	SOURIAU	DBO 25 P 431	1
J3	25P D-CONN. FEMALE	..	DBO 25 S 431	1
	FEMALE SCREW LOCK	AMP	205817-1 (SET VAN 2)	2
	KER. KRAAL 6mm	DTC		8
	PRINTNUMMER 19860601-B	DTC		1
	MONTAGEPANEEL	DTC	TEKNR. 19860605	1
	HANDBOEK	DTC	TEKNR. 19860611	1
	MONTAGEOVERZICHT	DTC	TEKNR. 19860610	1
	SCHEMA	DTC	TEKNR. 19860602	1
	MONTAGEPLAN	DTC	TEKNR. 19860603	1

GEW.	DATUM	STUKLIJST	GET.: HJ	GEC.:
HJ	05-28-86	DCR MCB iss. A	DAT.: 02-21-88	SCHAAL:
			AANT.BL.: 1	TEKNR.: 19860604
		REV. 1	BLADNR.: 1	DOCNR.:

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af	afg	afg.	[redacted]	prijs	[redacted]s prijs	l prijs	datum	l datum	e opmerkingen

paraaf inkoop	magazijn
datum	datum in

Order nummer :

Te produceren aantal :

Serienummer(s) : t/m

inkoop ☐ montage ☐

TEKNR.: 19860604