

Installation Instructions

*P/N 1-960238-04
Edition 3
September 1998*

EasyCoder 201 II Dual Serial Interface Kit

 **ntermec**

A **UNOVA** Company

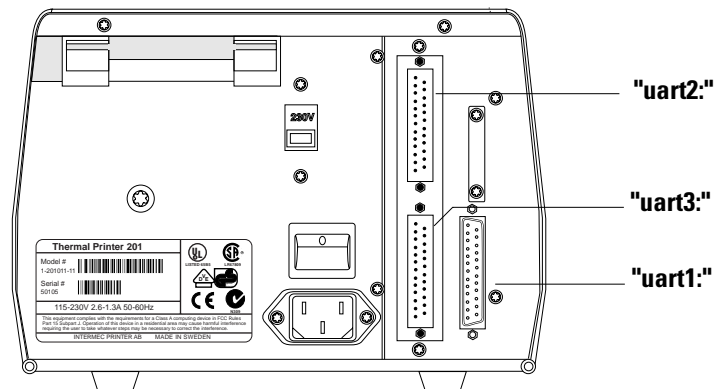
EasyCoder 201 II – Installation Instructions

DUAL SERIAL INTERFACE KIT

Introduction

The Serial Interface Board adds two extra serial communication ports ("uart2:" and "uart3:") to the standard serial communication port ("uart1:").

The printer's firmware detects when a Serial Interface Board is installed and adds communication and buffer setup options for the two additional communication ports.



When a Serial Interface Board is fitted, the following types of interfaces become available:

"uart1:"	<i>Fitted on printer's CPU pcb.</i>	
RS 232C	Standard	
20 mA Current Loop	Option.	Additional opto-couplers required.
"uart2:"	<i>Fitted on Serial Interface Board.</i>	
RS 232C		
"uart3:"	<i>Fitted on Serial Interface Board.</i>	
RS 232C or 20 mA CL	Selected by means of a strap.	

The Dual Serial Interface Kit consists of:

1 Interface board assy.

2 Screws

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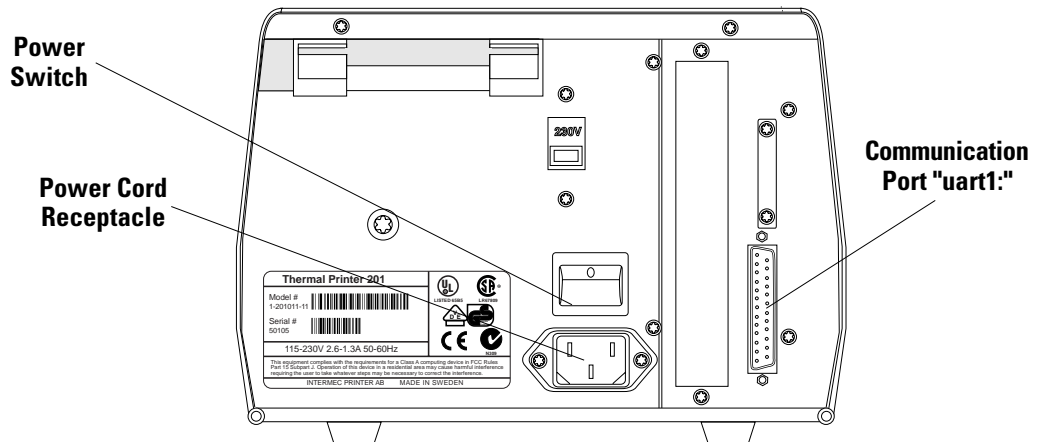
*EasyCoder 201 II
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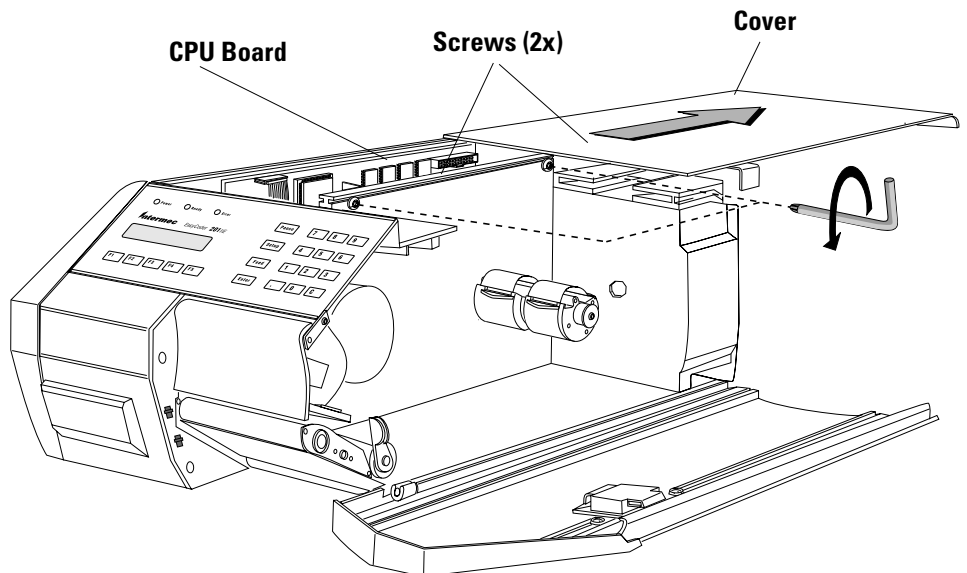
DUAL SERIAL INTERFACE KIT, cont'd.

Step-by-Step Installation Instructions

- ❑ Turn off the power and remove the power cord.
- ❑ Remove the communication cable from communication port "uart1:".



- ❑ Open the right hand door.
- ❑ Loosen the two screws that lock the cover.
- ❑ Pull the cover straight back and remove it completely.



- ❑ Open the left-hand door.

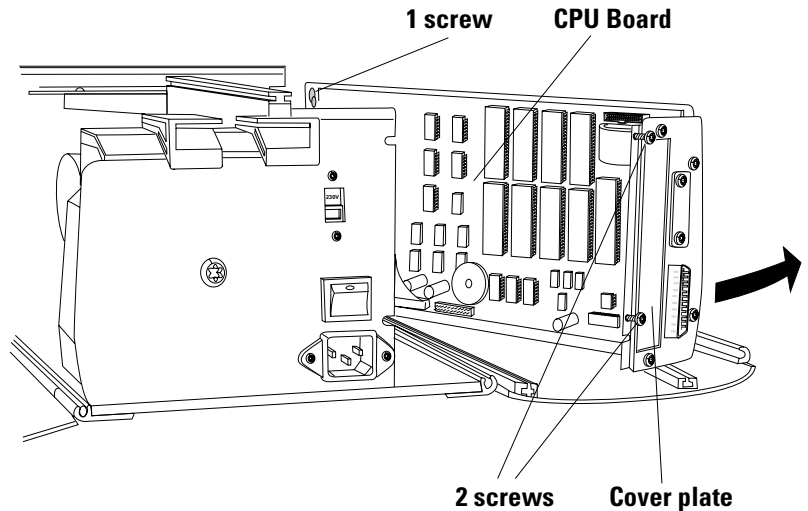
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DUAL SERIAL INTERFACE KIT, cont'd.

Step-by-Step Installation Instructions, cont'd.

- ❑ Loosen the three screws that hold the CPU board assy. and swing the unit outwards as illustrated.



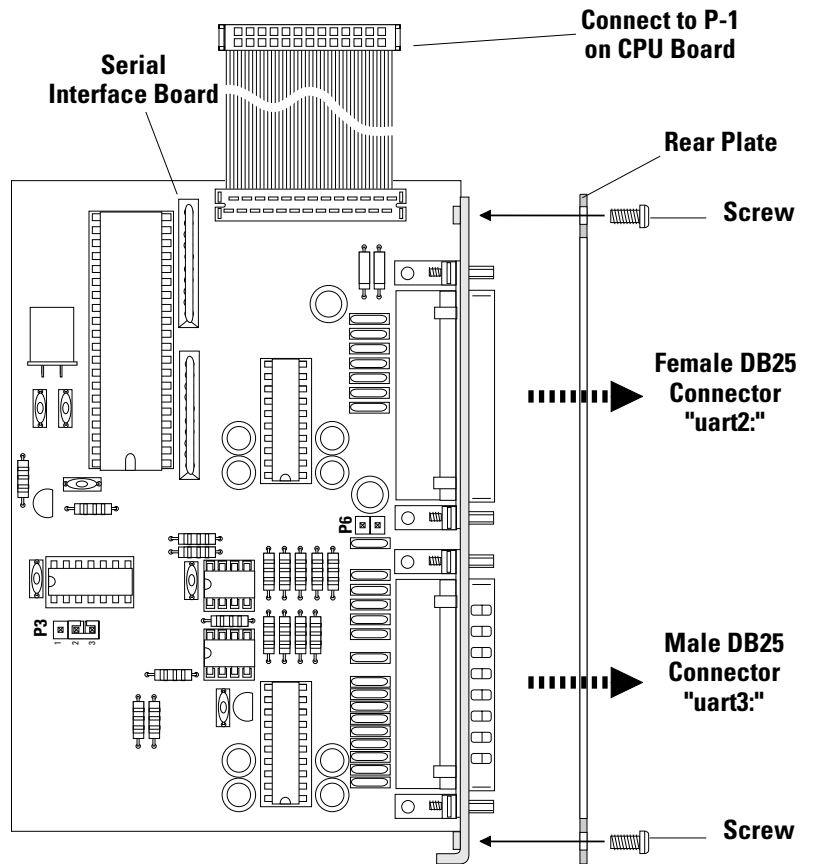
- ❑ Remove the cover plate.
- ❑ Make sure that the CPU board is strapped and equipped for the desired type of communication on port "uart1:" (see the *EasyCoder 201 II* Technical Manual). Once the interface board has been fitted, it will be difficult to access the rear part of the CPU board.
- ❑ Fit the required straps on the Serial Interface Board as described on page 5.
- ❑ Connect the cable from the interface board to connector **P-1** at the top rear corner of the CPU board. Be careful so the interface board and the CPU board do not come in contact with each other, which possibly may cause damage or short-circuiting.
- ❑ Fit the interface board assembly to the printer's rear plate from the inside into the space left by the cover plate using the screws included in the kit (see illustration on next page).

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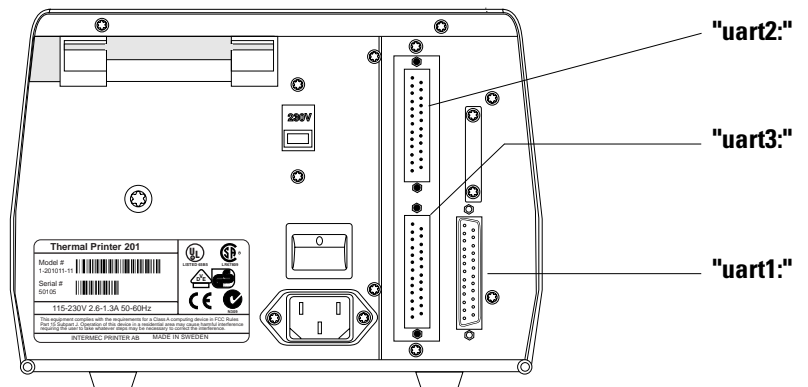
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DUAL SERIAL INTERFACE KIT, cont'd.

Step-by-Step Installation Instructions, cont'd.



- Reassemble the printer in reverse order.
- Connect the communication cables to their respective connectors. Please refer to page 6 for pinout descriptions.
- Connect the power cord and turn on the power.
- Set up the communication and buffer parameters for the two new ports "uart2:" and "uart3:" as described in the *EasyCoder 201 II* Technical Manual.

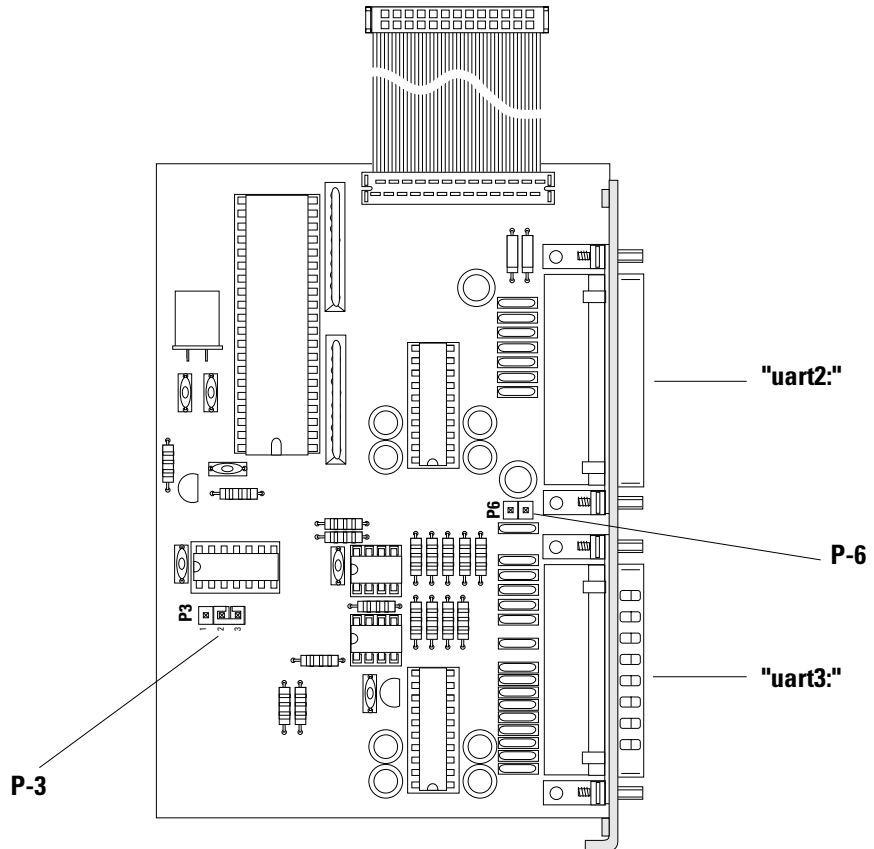


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DUAL SERIAL INTERFACE KIT, cont'd.

Straps



The following straps and circuits are used to set up the desired type of interface on the communication ports "uart2:" and "uart3:".

Communication Port "uart2:"

There are no straps for controlling the RS 232C interface on "uart2:".

Communication Port "uart3:"

RS 232C:

Strap fitted on **P-3** between pin 1 – 2 (left and middle pins) selects RS 232C.

20 mA Current Loop:

Strap fitted on **P-3** between pin 2 – 3 (middle and right pins) selects 20 mA current loop.

External +5V:

External +5V (max. 200 mA) can be made available on pin 16 by fitting a strap on **P-6**.

Be careful not to enable this option unintentionally, which may cause harm to the connected terminal, computer or other device.

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DUAL SERIAL INTERFACE KIT, cont'd.

Connector Configuration

"uart2:" is a DB25 **female** connector.

"uart3:" is a DB25 **male** connector.

The mounting holes are connected to chassis ground.

Pin	"uart2:"	"uart3:"	Used for:		Remarks
	DB25 female	DB25 male	"uart2:"	"uart3:"	
1	GNDC	GNDC	RS 232C	RS 232C	Cable shield
2	TXDA	TXDB	RS 232C	RS 232C	Transmitted data from printer
3	RXDA	RXDB	RS 232C	RS 232C	Received data to printer
4	RTSA	RTSB	RS 232C	RS 232C	RTS from printer
5	CTSA	CTSB	RS 232C	RS 232C	CTS to printer
6	DSRA	DSRB	RS 232C	RS 232C	DSR to printer
7	GNDI	GNDI	RS 232 C	RS 232C	Signal ground
8	–	–	–	–	not used
9	–	+20M1	–	Current loop	+ 20 mA
10	–	–20M1	–	Current loop	- 20 mA
11	–	+TXD	–	Current loop	TXD +
12	–	–TXD	–	Current loop	TXD –
13	–	+20M2	–	Current loop	+ 20 mA *
14	–	–20M2	–	Current loop	– 20 mA *
15	–	–	–	–	not used
16	–	+5VEXT	–	RS 232C/CL	+ 5V max 200 mA. (if strap fitted on P-6)
17	–	–	–	–	not used
18	–	+RXD	–	Current loop	RXD +
19	–	–	–	–	not used
20	DTRA	DTRB	RS 232C	RS 232C	DTR permanently high
21	–	–	–	–	not used
22	–	–	–	–	not used
23	–	–	–	–	not used
24	–	–	–	–	not used
25	–	–RXD	–	Current loop	RXD –

*/. In case of printer being active receiver.

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