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Concerned Products: IE-78K0-NS-P04	Customer Notification		Date: August 29 th , 2001
			NEC-Electronics (Europe) GmbH EAD – Technical Product Support
	Bug Report		Source Doc: nn
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Date of initial issue: Nov. 18th, 98		Doc. No.: TPS-LE-B-0T010	
1 st revision : Sep. 27 th , 99		Doc. No.: TPS-LE-B-0T010-1	
2 nd revision : Aug. 29 th , 01		Doc. No.: TPS-LE-B-0T010-2	

Table of contents

- (A) Bug List
- (B) Bug Description
- (C) History List


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(A) BUG LIST (1/2)

Bug No.	Outline	IE-78K0-NS-P04					
		Code "A"	Code "B"	Code "C"	Code "D"		
1	Read of int. expans. RAM when CAN is used		✓	✓	✓		
2	Change of control code due to production			✓	✓		
3	Default jumper setting has changed				✓		
4	Setting of ext. voltage supply not documented						

✓: No problem

: Bug (will be corrected by next version upgrade)

: Bug (restriction, not corrected by version upgrade)

The (control) code of the version information is the second character of the serial number. Or is marked on the tool with a "VERSION-UP" label.

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(B) BUG DESCRIPTION

Bug No.	Outline	Description
1	Read of int. expan. RAM when CAN is used	The internal expansion RAM can not be read out correctly when this RAM area is used for the CAN.
2	Change of control code due to production	To be in line with products from different productions the control code has changed to the highest value at this time, which is "C".
3	Default jumper setting has changed	Default jumper setting on the IE-78K0-NS-P04 board has changed.
4	Setting of external voltage supply not documented.	<p>The setting of the external supply voltage (LVDD) is described below. Aside from the setting of the LCD voltage, the socket SO1 on the IE-78K0-NS-P04 board is used for the external voltage. The details of the connections of SO1 are listed below:</p> <p><u>Assignment of the PINS on the socket SO1 on IE-78K0-NS-P04:</u></p> <p>PIN2 - PIN15 , external voltage (for the resistor Rx see below) PIN6 - PIN12 , LCD-voltage PIN6 - PIN11 , LCD-voltage PIN7 - PIN11 , LCD-voltage PIN7 - PIN10 , LCD-voltage</p> <p>A connection between PIN2 and PIN15 is needed if the emulationssystem should work with external voltage. The value of the resistance between PIN2 and PIN15 determines the level of the external voltage $U_{ext.}$ which is accepted as good by the emulationssystem. The detailed formula is given below.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> $U_{ext.} \geq 1,25V \times (10K\Omega + Rx) / 10K\Omega$ </div> <p>Some examples for the relation between the needed $U_{ext.}$ and the resistor Rx are given below.</p> <p>Rx = 0 KΩ -> $U_{ext.}$ must be higher than 1.25V Rx = 26 KΩ -> $U_{ext.}$ must be higher than 4.50V Rx = 30 KΩ -> $U_{ext.}$ must be higher than 5.00V Rx = open -> $U_{ext.}$ will not be accepted at all</p> <p>Please note, that aside from setting up the socket SO1 on the IE-78K0-NS-P04 board correctly, the external voltage must be connected to the TP1 connector on the IE-78K0-NS-A emulator. In this case the current which flows into the emulator may be up to $I_{ext.} = 300mA$. The sequence of start-up the emulationssystem is as listed below:</p> <ol style="list-style-type: none"> 1. Switch ON the emulator. 2. Switch ON the external voltage. 3. Start the related software for the debugger.

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(C) History List

Rev.	Part	Item	Modification
2 nd	2, 3, 4		Addition of the restriction described under point 2, 3 and 4. Addition of the history list and table of contents.