

To: All repair centres and production sites
Copy to: Anyone working with ND-120-CPU
From: Lasse Brataas
Date: 18 November 1994

Subject: NEW BACKUP BATTERY FOR THE CALENDAR ON ND-120-CPU

Actual part numbers for the affected ND-120-CPUs are listed below.

PART NO.	NAME	PRINT
350002	ND-120/CX 32-BIT 6 MB	3202
350102	ND-120/CX 48-BIT 6 MB	3202
350103	ND-120/CX 32-BIT 4 MB	3202
350104	ND-120/CX 48-BIT 4 MB	3202
350105	ND-120/CX 32-BIT 2 MB	3202
350106	ND-120/CX 48-BIT 2 MB	3202
350107	ND-120/CX GEN.VERS.	3202
350108	ND-120 32-BIT 6 MB	3202
350109	ND-120 48-BIT 6 MB	3202
350110	ND-120 32-BIT 4 MB	3202
350111	ND-120 48-BIT 4 MB	3202
350112	ND-120 32-BIT 2 MB	3202
350113	ND-120 48-BIT 2 MB	3202

There will be a change in production of the ND-120-CPU from approximately the end of November this year. The calendar on the ND-120-CPU will be supplied with a new type of backup battery. The function of the backup battery is only to supply power to the calendar when the +5VStb is lost, such as during very long power-cut (more than 10 minutes), or when the CPU is in storage. See the detail from logic diagram on page 3.

The "OLD" battery has part number: 512022
The "NEW" battery has part number: 507040

The "old" battery is a Lithium battery, which means that it is not possible to charge and dangerous to try. This battery will supply power to the calendar for approximately two years with the CPU in stock. If the CPU runs in the crate the battery is not in use and it will therefore last longer. Since the clock is running while the CPU is in store the time and date shown may be correct, (summertime, time zone, etc.).

The "new" battery is a Ni-Cd battery, which means that it must be charged. This battery will supply power to the calendar for about one week with the CPU in stock. This means that the clock is probably not correct when you install the CPU in the crate, because the battery has been emptied while the CPU has been stored. A capacity of approximately one week should be more than enough to cope with even extremely long power failures.

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The reason for this change of battery is due to future difficulties with delivery of the "old" type of battery. As we are the sole purchaser of this battery, the price is expected to rise drastically.

This change will not be issued as a ECO at this stage, but only as a change of production. Defective batteries of the "old" type will be replaced with "old" batteries as long as we have them in stock.

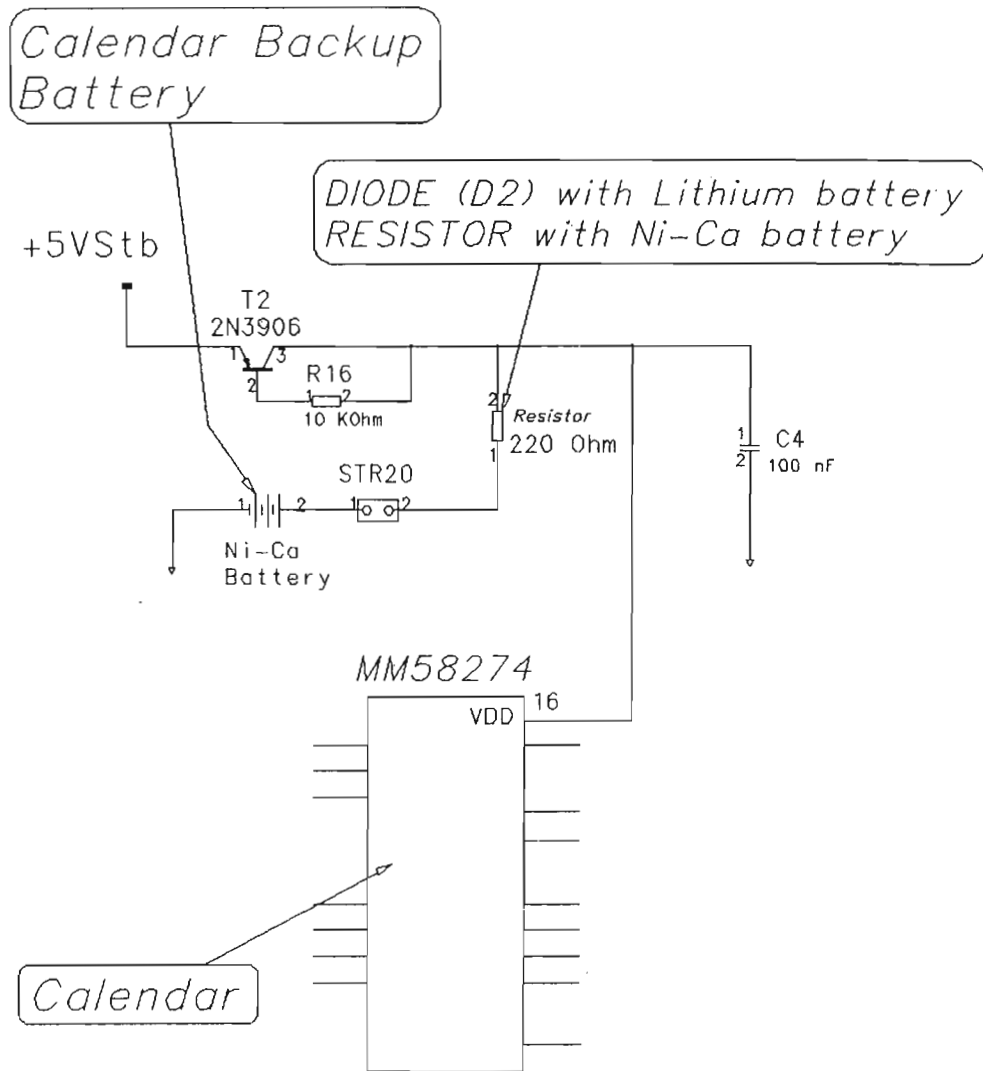
"Old" batteries on the ND-110-CPU (with print no: 3095) will also be replaced with "old" battery. When in the future we have the problem of no stock, we will then take the decision about releasing an ECO on ND-120-CPU and ND-110-CPU (print 3095).

Note!

WHEN THE CPU IS MODIFIED, (DIODE D2 IS REPLACED BY A RESISTOR), YOU MUST NEVER TRY TO INSTALL THE "OLD" BATTERY AGAIN. THIS WILL CAUSE CHARGING OF THE LITHIUM BATTERY WHICH MAY CAUSE A BIG EXPLOSION.

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Detail of the logic diagram of print 3202.



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Upper right corner of print no. 3202.

