



Siemens Technical Bulletin STAB10-0060

Special Conditioning Timers on PB801 Issue9 ST900/ST750 Controllers

21st Apr 2010

Product: ST750/ST900**Modifications Req:** Yes**Retrospective Action Req:** Yes**Priority of Change:** Action only if problem occurs

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Introduction

One of the corrections implemented in PB801 issue 9 is having a detrimental effect on the operation of some controllers. The change in operation of the Special Conditioning timers can stop Special Conditioning working correctly.

In PB801 issue 9, the mnemonic "CNDTMAn" shows the timer as active immediately after the "RUN<n>" instruction has been executed.

In previous versions of controller firmware, the mnemonic "CNDTMAn" shows the state the timer was in before the "RUN<n>" instruction, i.e. the value of "CNDTMAn" is unaffected by the "RUN<n>" instruction.

This difference can cause a wide range of effects in the Special Conditioning, because these timers can be used for a multitude of different tasks. But one less obvious effect of the change is if Special Conditioning starts a timer again when it terminates. Any instructions placed after the RUN instruction will only ever see the timer active. Those instructions don't see the timer briefly appear inactive.

PB801 issue 10 will, by default, revert back to the original way of working, matching PB801 issue 8 and earlier versions.

Scope

Any Controllers and CPU Cards supplied from Poole between January and April 2010 would normally be fitted with PB801 issue 9.

However the following controllers in the ST900 and ST750 family will not be affected and can continue to use PB801 issue 9:

- Any Controllers that do not use Special Conditioning timers
- Existing Controllers fitted with Wig-Wag Signals*
- ST750 and ST750ELV Controllers that are using the standard pedestrian configurations* (CIC: 30700-30703 or CIC: 30750-30753)

* The conditioning in Wig-Wag and Standard Ped Configurations have been checked and are unaffected by this change to the firmware.

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Procedure

1. Non-installed systems

- Any ST750/ST900/ST900ELV/ST750ELV CPU Cards held as spares by maintenance personnel must be checked.
 - In the depots, check all ST750/ST900/ST900ELV/ST750ELV controllers supplied from Poole.
- If a CPU Card is found with PB801 issue 9, it should be upgraded to issue 10 (or later).

2. Installed ST750/ST900 family of systems:

If problems are experienced at a specific installation, perform the following checks to see if this fault could be the cause of the problems.

- Confirm that the version of the firmware is Issue9, by using the PIC handset command.
- Confirm that controller is not running a Standard PED Configuration (i.e. "CIC:30750~30753" or "CIC:30700~30703"), by using the CIC handset command.
- Confirm if the configuration uses any Special Conditioning Timers, by using CDT handset command. If the response is "CDT*R", no timers have been configured.

After performing these checks, if the controller is running PB801 issue 9, is not running a Standard PED Configuration and has conditioning timers, this fault **may** be the cause of the problems. The firmware therefore **MUST BE** upgraded from PB801 issue 9 to issue 10.

Note: Replacing the firmware PROM PB801 issue 9 with a new PB801 issue 10 PROM will **NOT** require the controller to be re-initialised. A controller upgraded from PB801 issue 9 to issue 10 will retain all of the handset changes. The same may not be true when upgrading from issue 9 to issue 11 or higher.

Related documents

> [667/SU/32900/000](#)

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