Please take note of the following problem in using the M3T-PD308F, M3T-PD30F, and M3T-PD30MF emulator debuggers:

- On using the C Watch window

1. **Versions Concerned**
   
   M3T-PD308F V.1.00 Release 1 through V.3.20 Release 1  
   (for the M32C/80 series of MCUs)

   M3T-PD30F V.1.00 Release 1 through V.2.20 Release 1  
   (for the M16C/60 and /Tiny series of MCUs)

   M3T-PD30MF V.1.00 Release 1  
   (for the M16C/Tiny series of MCUs)

2. **Description**

   Incorrect values of variables may be displayed in the C Watch window if RAM-monitoring display * is used.

   * RAM-monitoring display is to provide the values at the locations of the program executed on RAM in real time using the real-time RAM monitoring function. The range of RAM to be displayed is 256 bytes at a time and is set as a RAM monitoring area.

3. **Conditions**

   This problem occurs if the following conditions are all satisfied:

   (1) The target program is under execution.
(2) The values of variables are displayed in the C Watch
window using RAM-monitoring display.

(3) The range of the addresses assigned to the variables in
(2) spreads across the 256-byte boundary of the RAM
monitoring area.
For example, if a RAM monitoring area is set at addresses
1000H through 11FFH (they are split into two areas,
1000H through 10FFH and 1100H through 11FFH), RAM
monitoring will incorrectly provide the variables of type
long at addresses 10FEH through 1101H in the C Watch
window.

4. **Workaround**
   If variables concerned are referenced during executing the target program, display them in
the RAM Monitor window.
And, if variables concerned are referenced using the RAM Monitor window, specify the
addresses assigned to them.

5. **Schedule of Fixing the Problem**
   We plan to fix this problem in our next release of the products.

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