A Note on Using the C Compiler Packages
M3T-NC308WA and M3T-NC30WA

Please take note of the following problem in using the C compiler packages M3T-NC308WA and M3T-NC30WA, which are used for the M16C family of MCUs:

- On incorrect description of do statements

1. **Products and Versions Concerned**
   
   M3T-NC308WA V.5.00 Release 1 through V.5.20 Release 02  
   (for the M32C/90, M32C/80, and M16C/80 series)  

   M3T-NC30WA V.5.00 Release 1 through V.5.30 Release 02  
   (for the M16C/60, M16C/30, M16C/20, M16C/10, M16C/Tiny, and R8C/Tiny series)

2. **Description**

   Incorrect description of do statements results in system errors or application errors.

2.1 **Examples**

   Example 1: Missing while statement
   
   ```c
   int func(void)
   {
   int        j;
   int     i = 0;

   for( j=0; j<10; j++) {
   do{
        i++;
   }/* No while statement */
   }
   return i;
   ```
Example 2: Missing controlling expression

```c
int func(void)
{
    int     j;
    int     i = 0;

    for( j=0; j<10; j++ ){
        do{
            i++;
        } while();      /* No controlling expression */
    }
    return i;
}
```

Example 3: Missing semicolon

```c
int func(void)
{
    int     j;
    int     i = 0;

    for( j=0; j<10; j++ ){
        do{
            i++;
        } while( i < 10 )     /* No semicolon */
    }
    return i;
}
```

3. **Workaround**
   Describe correct do statements.

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