

## Notice about safety circuit conversion

JTEKT CORPORATION

### Dear Customers

#### Notice of upgrade of programming software "PCwin, PCwin-Safe and PCwin-Safe-J"

The problem of the programming software has been found. And we are going to release the new version of programming software at our company homepage at (<https://www.jtekt.co.jp/e/support/OfcTpSoftwareList.php>)

The costumers must download the new software and use the upgrade programming tool software. The old version may no longer be used. We are very much sorry to trouble you, but kindly ask your understanding and cooperation.

#### 1. The problem of present "PCwin, PCwin-Safe and PCwin-Safe-J"

When the sequence program (as shown in the figure) is programmed, The outputs(M100,M101,M102) will be controlled only by ②-⑥ parts of conditions and not by ① part. **① part condition is ignored**

The problem only happened at the following all 6-conditions are established at same time in the program.

##### 6-conditions

- ① AND before L-type (making multi coil pattern) circuit.
- ② Three multi-coil lines or more of L-type pattern
- ③ 2 OR circuit lines or more
- ④ AND contact
- ⑤ No condition at the 1st line of ④
- ⑥ At the 2nd line of ④, there are 2 OR circuit or more

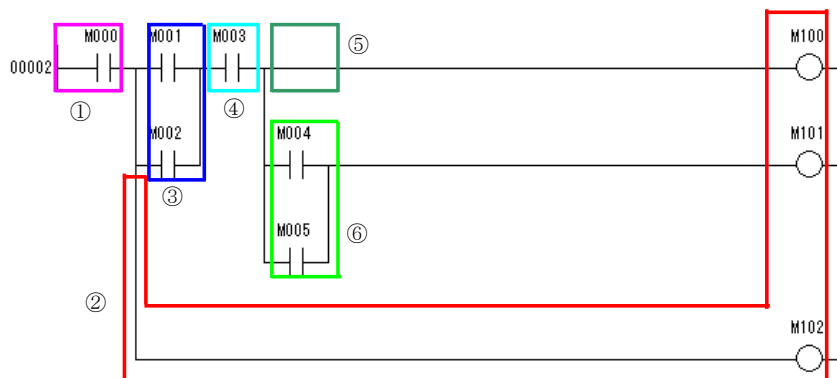


Figure 1

#### 2. The sequence program confirmation method

##### 2.1 In the case of PCwin

Please implement block comparison of the sequence program saved by the old version, and the sequence program saved by the countermeasure version.

When block comparison results are different, please be sure to write the application program saved by the countermeasure version to a CPU module. Please refer to the attached sheet 1 for the details of the confirmation method.

##### 2.2 In the case of PCwin-Safe, PCwin-Safe

Please compare the PSV of the application program translated by the old version and PSV of the application program translated by the fixed version.

All application programs are generally to be translated with the fixed version. If there is a different PSV(checksum) the application program must be transferred to the target system. Please refer to the attached sheet 2 for the details of the confirmation method.

#### 3. The version

The problem and the fixed (new) version are as follows.

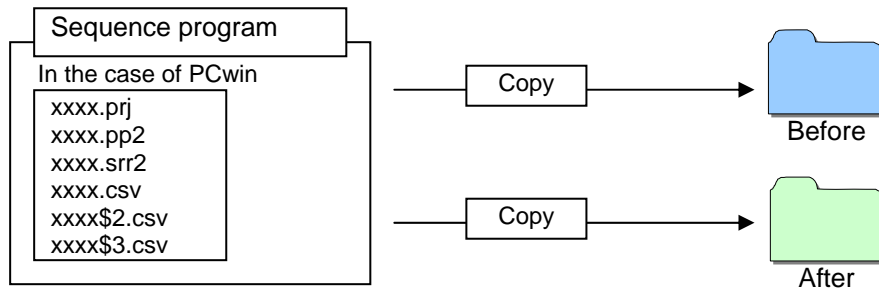
|   | PCwin                       | PCwin-Safe2                | PCwin-Safe-J                | PCwin-Safe                 |
|---|-----------------------------|----------------------------|-----------------------------|----------------------------|
| Old version                               | Ver14.1 Rev.01<br>or before | Ver1.5 Rev.01<br>or before | Ver.1.3 Rev.02<br>or before | Ver2.8 Rev.01<br>or before |
| Fixed version<br>(Countermeasure version) | Ver14.2 Rev.02<br>or after  | Ver1.6 Rev.01<br>or after  | Ver.1.4 Rev.02<br>or after  | Ver2.9 Rev.01<br>or after  |

## The confirmation method (PCwin)

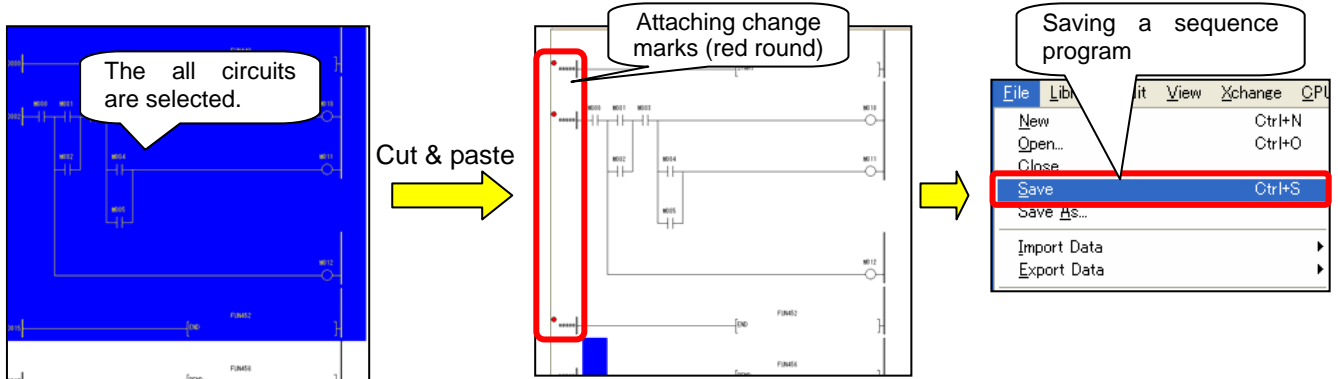
A sequence program with a problem or no problem is confirmed by block comparison. Block comparison is performed by PCwin=> edit => Block Compare Program. Please confirm circuits according to the following procedure.

### [The confirmation method]

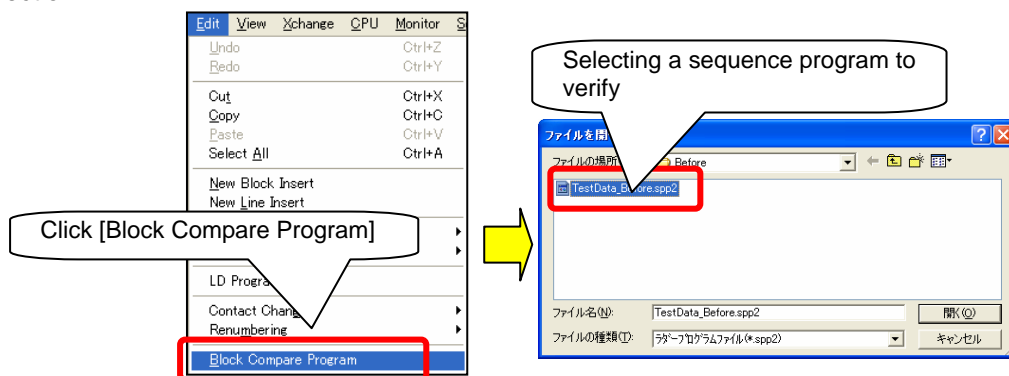
- ① Before opening a sequence program by the countermeasure version, A sequence program is copied to the Before-folder and the After-folder separately.



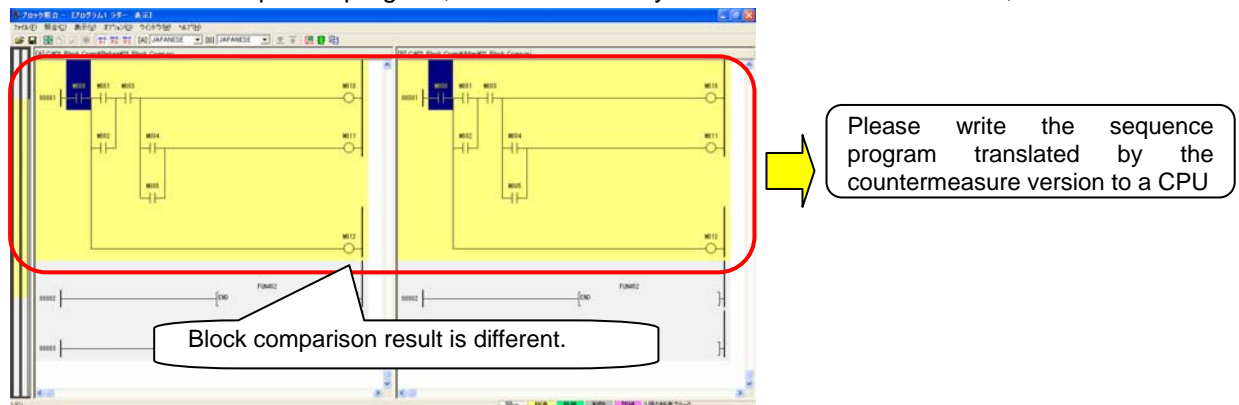
- ② Open the sequence program copied to the After-folder by the countermeasure version. For a change mark (red round) is attached, all sequence programs are cut & pasted after selection. Then, a sequence program is saved.



- ③ Execute Edit => Block Compare Program by PCwin. The sequence program in a Before-folder is selected by file selection.



- ④ Confirm the result of block comparison. When block comparison result is different, the sequence program with a problem is included. Please be sure to write the sequence program, which is saved by the countermeasure version, to a CPU.



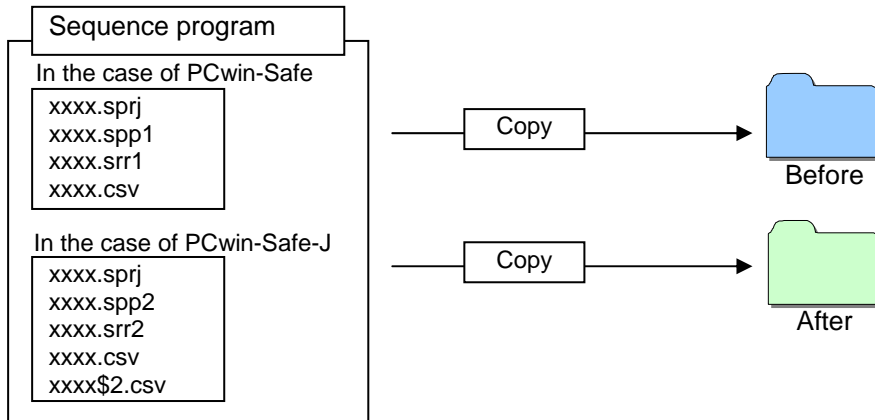
## The confirmation method(PCwin-Safe,PCwin-Safe-J)

Because PSV is calculated including mnemonics, Instead of PSV comparison, circuit comparison can be performed by block comparison. Block comparison is performed by PCwin-Safe and PCwin-Safe-J=> Edit => Block Compare Program.

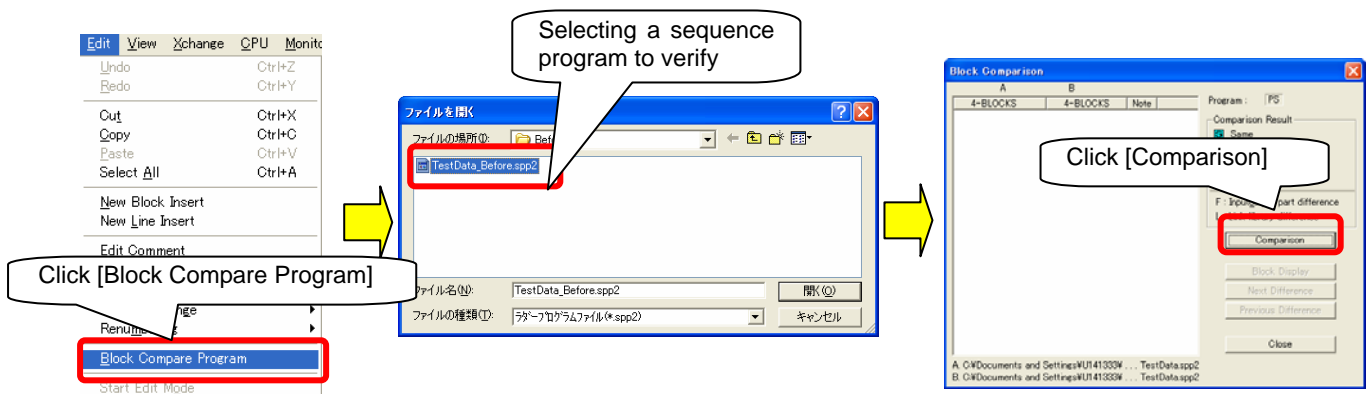
Please confirm circuits according to the following procedure.

### [The confirmation method]

- ① Before opening a sequence program by the countermeasure version, a sequence program is copied to the Before-folder and the After-folder separately.



- ② Open the sequence program copied to the After-folder by the countermeasure version, and implement a logic check and a translation.
- ③ Execute Edit => Block Compare Program by PCwin-Safe or PCwin-Safe-J. The sequence program in a Before-folder is selected by file selection. [Comparison] is clicked in a Block Comparison dialog.



- ④ Confirm a block comparison result. When block comparison results are different, the sequence program with a problem is included. Please be sure to write the sequence program translated by the countermeasure version to a CPU.

