

## 8.31 ALARM 914 TO 915 (SRAM PARITY)

### Causes and Remedies

Parity error of RAM module that stores part programs.

### Related Information

- (1) If a parity alarm occurs, the following message appears on the screen. The value at the right of “ADRS” in the lower left section of the screen is the address (in hexadecimal) of the alarm. This value can be used to locate the RAM chip in which a failure occurred.

```

SYSTEM ALARM
915 SRAM PARITY (2N+1)
EAX      EBX      ECX      EDX      ESI      EDI      EBP      ESP
XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX
SS  DS  ES  FS  GS  TR  LDTR EFLAGS VECT  ERRC  ERROR-ADDRESS
XXXX XXXX XXXX XXXX XXXX XXXX XXXX:XXXXXXXX XXXX      XXXX:XXXXXXXX
STACK (PLO)
XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

NMIC
XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX

ADRS      XXXXXXXX
  
```

This value

- (a) If the address falls in a range of 0F1000H to 0F5FFFH, 740000H to 77FFFFH, or 7C0000H to 7FFFFFFH:

#### FROM/SRAM module

A20B-2902-0341, 0343

A20B-2902-0410, 0411

- (b) If the address falls in a range of 700000H to 73FFFFH, 780000H to 7BFFFFH, or 400000H to 5FFFFFFH:

#### SRAM module

A20B-2902-0350, 0351, 0352

#### NOTE

- 1 If an SRAM parity alarm occurs in a module other than the main CPU board, the following message appears: ALM972 NMI OCCURRED IN OTHER MODULE
- 2 If a parity alarm occurs in a system that was kept switched off for a long time, it is likely that the batteries have exhausted or the backup circuit (on the main board) is defective.

- (2) Causes are faults of RAM on the main board or RAM module, or fault of data memorized in RAM. When this alarm occurs immediately after power is turned on, once turn off power, then turn on power while pushing  and  key to perform memory all clear

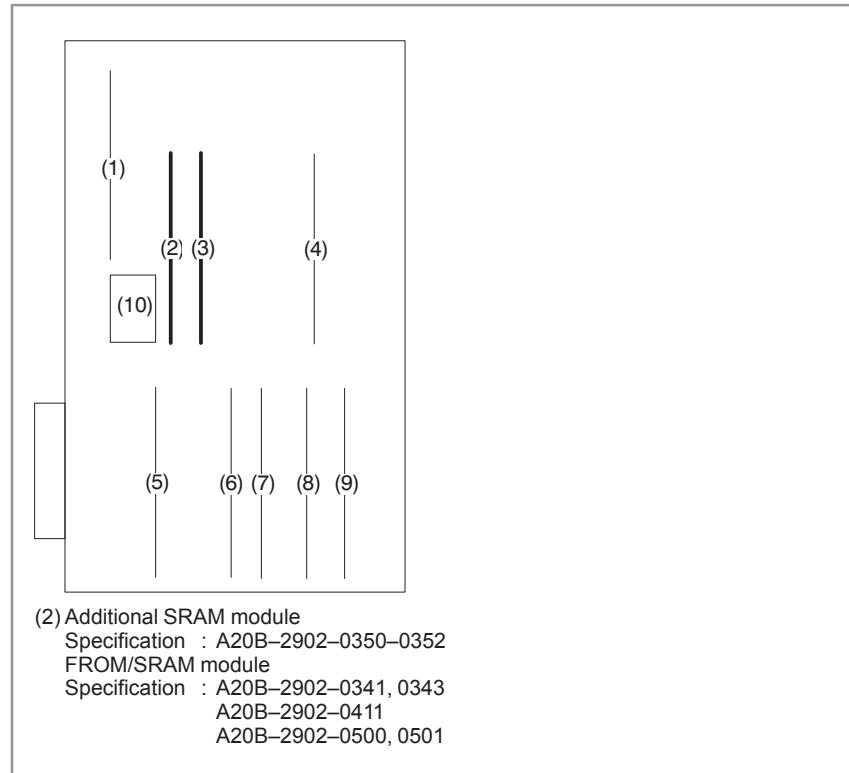
If parity error is not released by clearing all memory, RAM on the main board or RAM module may be faulty. Change (4)RAM module on main CPU board.

Set all the data again, referring to chapter 3 “data input/output”.

- **RAM module mounting position**

1 : SRAM module (Part program editing, parameters)

<Main CPU board>



(3) Low voltage of memory back up battery. Battery alarm occurs if voltage is 2.6V or less (3.0V rating).

When the memory back up battery voltage is lowered, BAT is displayed at lower part of the screen.

When battery alarm is lit, replace with new lithium batteries as soon as possible.

Refer to 2.8 battery replacing item and change the batteries.

(4) Power supply unit is faulty

When alarm turns off by an operation of clearing all the memory, power supply unit may also be faulty.