3 WARNINGS RELATED TO REPLACEMENT

⚠ WARNING

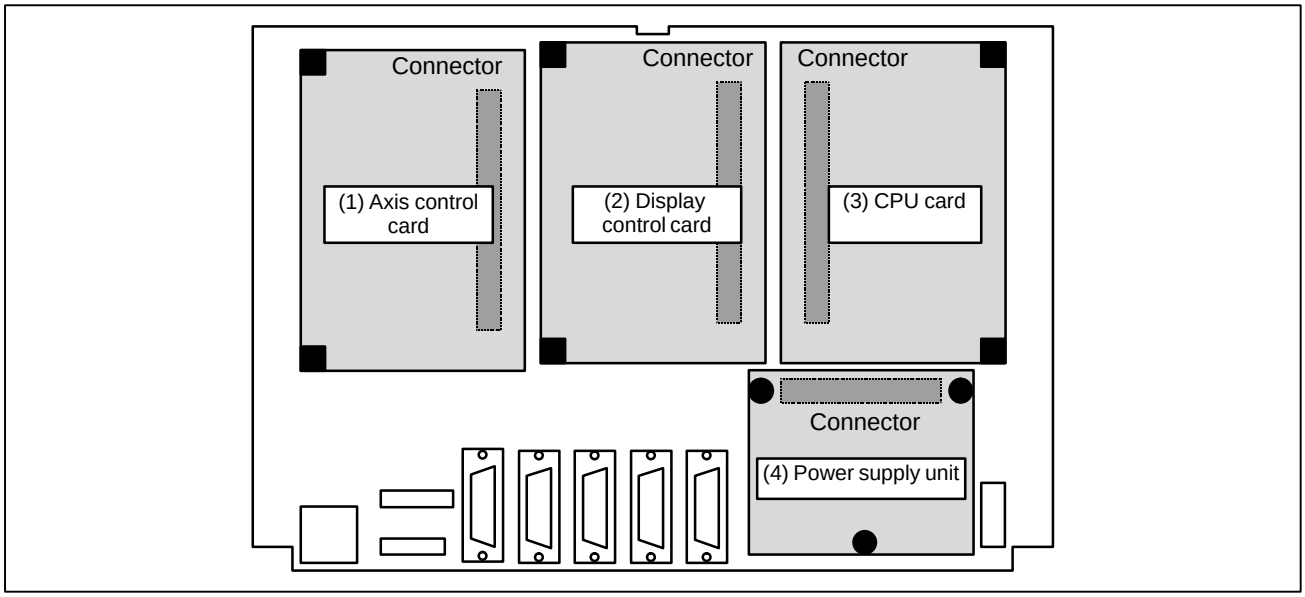
1. Always turn off the power to the CNC and the main power to the power magnetics cabinet. If only the power to the CNC is turned off, power may continue to be supplied to the serve section. In such a case, replacing a unit may damage the unit, while also presenting a danger of electric shock.
2. When a heavy unit is to be replaced, the task must be undertaken by two persons or more. If the replacement is attempted by only one person, the replacement unit could slip and fall, possibly causing injury.
3. After the power is turned off, the servo amplifier and spindle amplifier may retain voltages for a while, such that there is a danger of electric shock even while the amplifier is turned off. Allow at least twenty minutes after turning off the power for these residual voltages to dissipate.
4. When replacing a unit, ensure that the new unit has the same parameter and other settings as the old unit. (For details, refer to the manual provided with the machine.) Otherwise, unpredictable machine movement could damage the workpiece or the machine itself, and present a danger of injury.

4 WARNINGS RELATED TO PARAMETERS

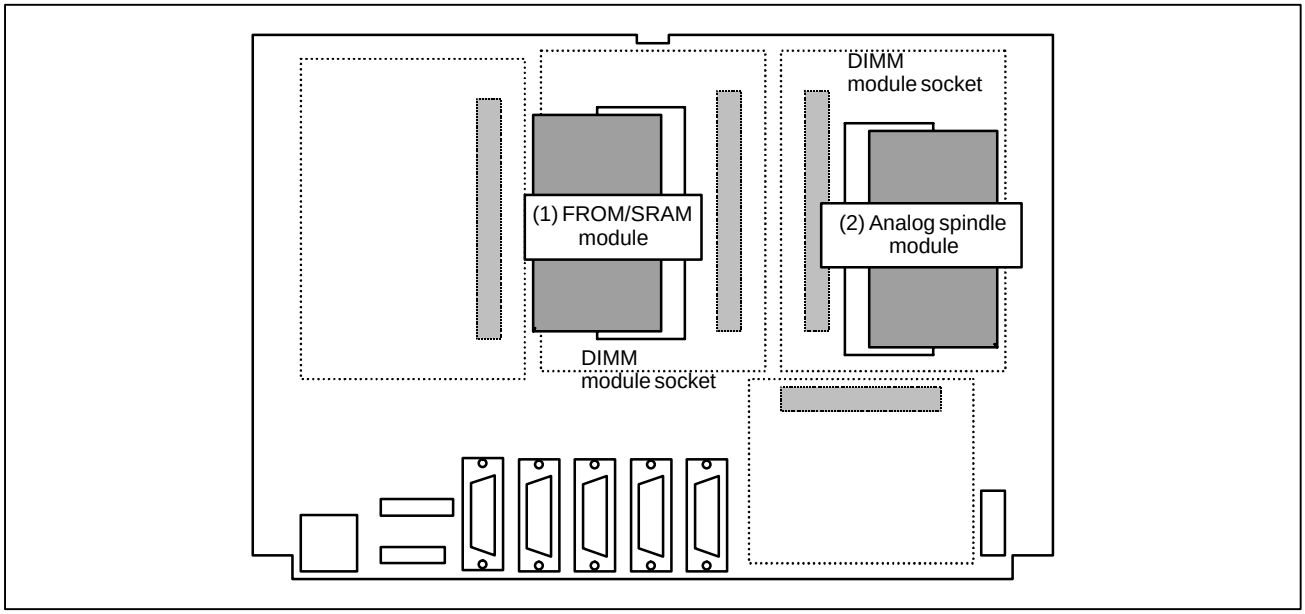
⚠ WARNING

1. When machining a workpiece for the first time after modifying a parameter, close the machine cover. Never use the automatic operation function immediately after such a modification. Instead, confirm normal machine operation by using functions such as the single block function, feedrate override function, and machine lock function, or by operating the machine without mounting a tool and workpiece. If the machine is used before confirming that it operates normally, the machine may move unpredictably, possibly damaging the machine or workpiece, and presenting a risk of injury.
2. The CNC and PMC parameters are set to their optimal values, so that those parameters usually need not be modified. When a parameter must be modified for some reason, ensure that you fully understand the function of that parameter before attempting to modify it. If a parameter is set incorrectly, the machine may move unpredictably, possibly damaging the machine or workpiece, and presenting a risk of injury.

- **Card and power supply mounting location**

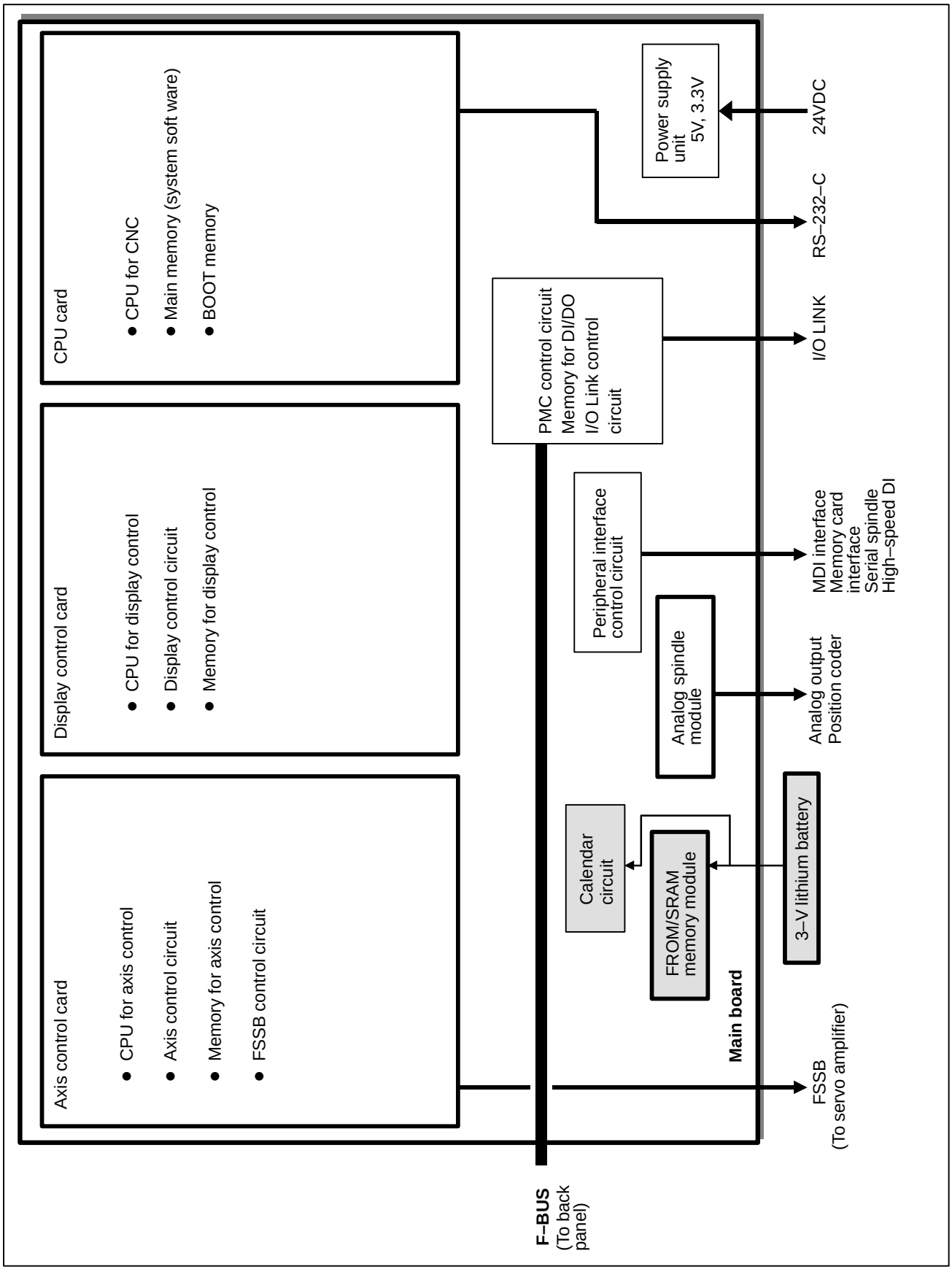


- **DIMM module mounting location**



No.	Item	Code	Function	Remarks
(1)	Axis control card	A20B–3300–0393	Two axes control	
		A20B–3300–0392	Four axes control	
(2)	Display control card	A20B–3300–0280	10.4″ color LCD	
		A20B–3300–0281	8.4″ color LCD	
		A20B–3300–0283	7.2″ monochrome LCD	
(3)	CPU card	A20B–3300–0291	DRAM 16MB 486	
		A20B–3300–0290	DRAM 32MB 486	0*i*–C only
		A20B–3300–0313	DRAM 32MB Pentium	0*i*–C only
(4)	Power supply unit	A20B–8101–0180		
(5)	FROM/SRAM module	A20B–3900–0163	FROM 32MB SRAM 1MB	FROM stores various control software products. SRAM is backed up by a battery.
(6)	Analog spindle module	A20B–3900–0170	Analog spindle control position coder interface	

- **Block diagram**



2.5.3 Printed Circuit Boards

(If the drawing number of the basic unit is A02B–0309–B50n, A02B–0311–B50n, or A02B–0311–B51n (where n is 0, 1, ..., 9))

Item	Drawing No.	ID	Remarks
0*i*–C main board (PMC–SA1)	A20B–8101–0280	0x18	
0*i*–C main board (PMC–SB7)	A20B–8101–0281	1x18	
0*i* Mate–C main board	A20B–8101–0285	0x19	
Power supply unit	A20B–8101–0180	–	
CPU card (486 with 16 MB of DRAM)	A20B–3300–0291	CPU: 09 DRAM: 89	
CPU card (486 with 32 MB of DRAM)	A20B–3300–0290	CPU: 09 DRAM: 8A	
CPU card (Pentium with 32 MB of DRAM)	A20B–3300–0313	CPU: 11 DRAM: AA	
2–axis control card (C5410)	A20B–3300–0393	08 02 0x	
4–axis control card (C5410)	A20B–3300–0392	08 02 1x	
Display control card B (for 8.4″ color graphics)	A20B–3300–0281	0A	
Display control card D (for 7.2″ color graphics)	A20B–3300–0283	02	
Display control card (for 10.4″ color graphics)	A20B–3300–0280	0E	
FROM/SRAM memory H (32M/1M)	A20B–3900–0163	FROM: C2 SRAM: 03	
Analog spindle module	A20B–3900–0170	–	
Fast Ethernet board (100BASE–TX connector)	A20B–8100–0770	x08E	
Fast data server board (for ATA flash memory card) (100BASE–TX connector)	A20B–8100–0770	x08E	
Add–on board for fast Ethernet board	A20B–2002–0960	–	
PROFIBUS (master/slave) board	A20B–8100–0430	0xBB	
Add–on board for PROFIBUS board	A20B–2100–0430	–	
Back–panel with 2 slots	A20B–2003–0150	–	
Inverter (for 8.4″ color LCD)	A20B–8001–0922	–	
Inverter (for 7.2″ monochrome LCD)	A20B–8100–0710	–	
Inverter (for 10.4″ color LCD)	A20B–8001–0920	–	