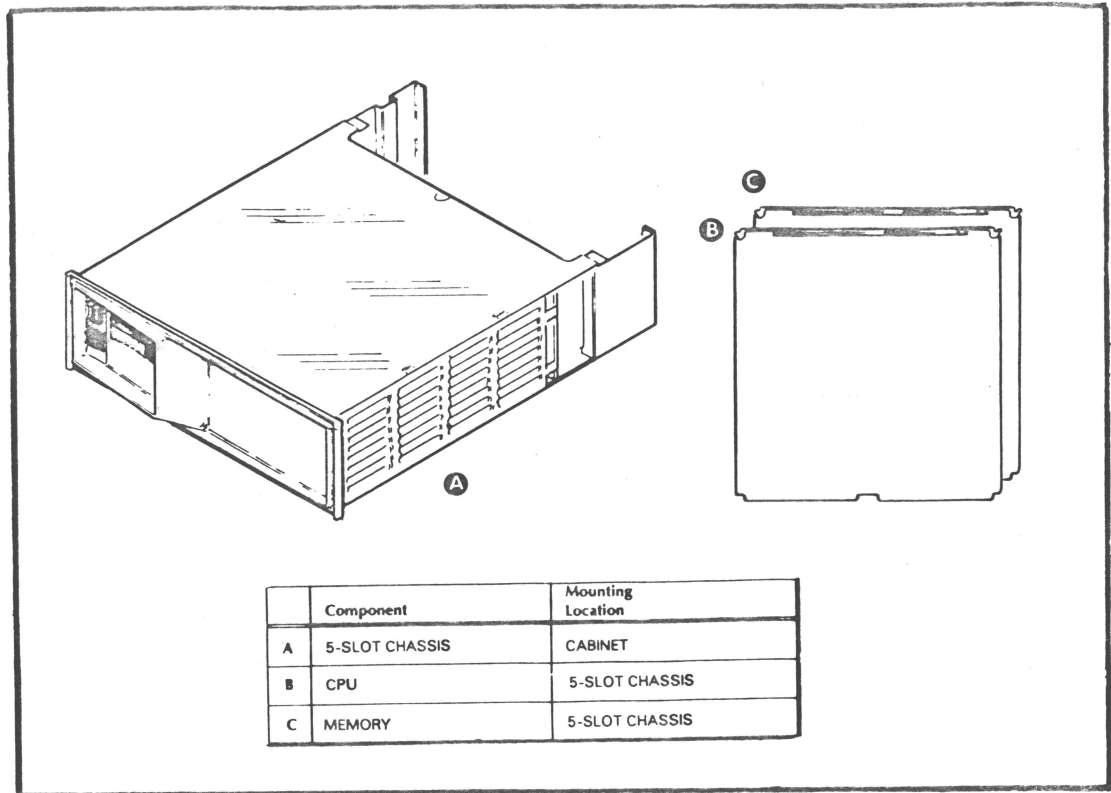
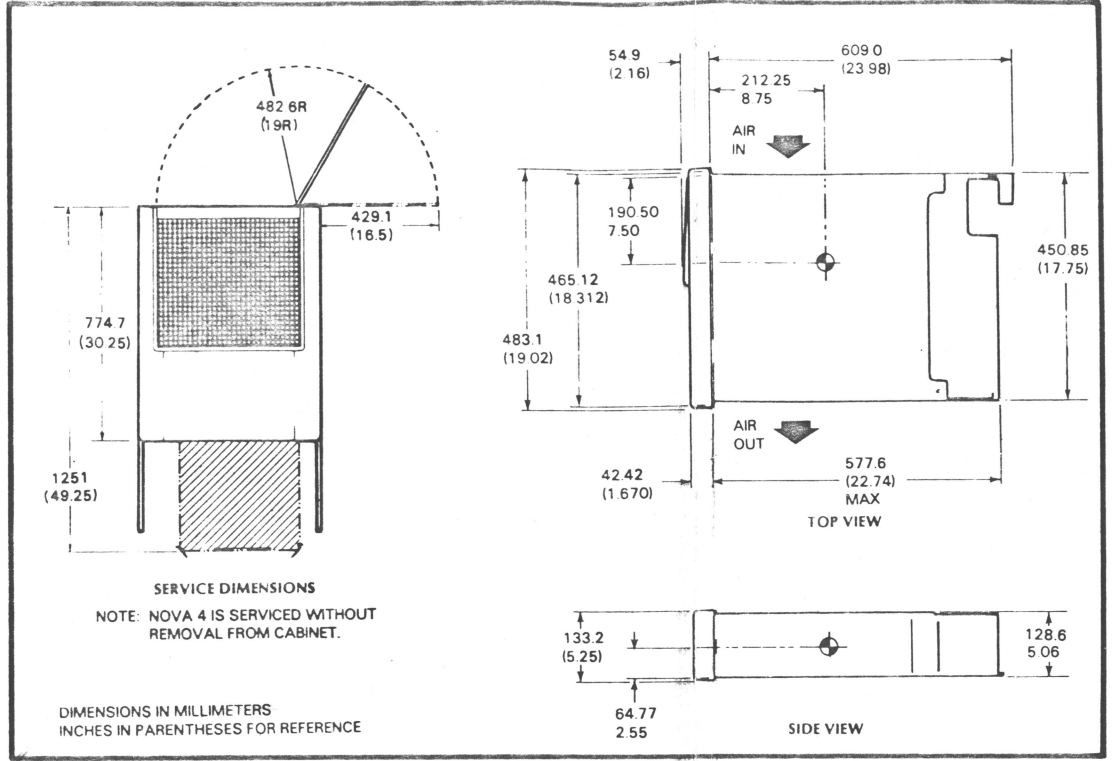


INSTALLATION SPECIFICATIONS



Component	Mounting Location
A 5-SLOT CHASSIS	CABINET
B CPU	5-SLOT CHASSIS
C MEMORY	5-SLOT CHASSIS



SLOT ASSIGNMENTS

Slot	Data Channel Speeds Available		+5V Current Draw
	Allowed (Slot Chart)	Assigned	
5	I/O		
4	I/O		
3	I/O		
2	MEMORY or I/O		NOTE 2
1	CPU		NOTE 1
0	POWER SUPPLY		

Total +5V Current draw
Max +5 Current Available 35A
+5 Current Surplus

NOTES:

- NOVA 4/S and NOVA 4/X NOVA 4/C 17A
8A
- MEMORY (NOVA 4/S & 4/X only) 5.6A
- PUSH ON TERMINATORS ON MEMORY SLOT (NOVA 4/S & 4/X ONLY)
- MAX DRAW +15V, +12V, +12V MEM 5.0A
- MAX DRAW -5V, -5V MEM 1.5A

SPECIFICATIONS	NOVA 4 5-slot		
DIMENSIONS:	Width	Depth	Height
Millimeters	483.1	663.9	133.2
Inches	19.02	26.14	5.25
SERVICE CLEARANCES:	Front		
Millimeters	508.0		
Inches	20.0		
WEIGHT:	Empty	Fully Loaded	
Kilograms	18.14	22.68	
Pounds	40	50	
OPERATING ENVIRONMENT:	Temperature (max)		
	55°C (131°F) 60Hz, 45°C (113°F) 50Hz		
	Relative Humidity (max)		
	90%		
	Altitude (max)		
	3084m (10,000')		
CABLES:	Length	Conn	Mating Conn
Primary Power			
Domestic	1.8m(6')	5-15P	5-15R
Export	1.8m(6')	6-15P	6-15R
External I/O Bus Cable	15.3m (50') max		
HEAT OUTPUT:	400 watts (1365 BTU/hr)		
POWER REQUIREMENTS:	(Domestic)		
Voltage	85-132		
Hz	47-63		
Max Amp per Phase	6.0		
Phase	1		
LINE CORDS:	Supply	Part No.	
	100V	109 000239	
	120V	109 000238	
	220V	109 000237	
	240V	109 000240	
OPERATING ENVIRONMENT:	(Export)		
Voltage	187-264		
Hz	47-63		
Max Amp per Phase	3.5		
Phase	1		

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REV	BY	DATE	DESCRIPTION
ECO	1/2/82	1/2/82	FEK FBBS 1/5/1
APP			
DATE	2/2/82	2/2/82	2/2/82

DRAWN	APPROVED
CHECKED	FIRST USED ON
ENGINEER	CODE IDENT 34984

TITLE
INSTALLATION DATA SHEET
NOVA 4 5-SLOT

DATA GENERAL CORPORATION			
WESTBORO, MASSACHUSETTS 01581			
SIZE	CODE	DRAWING NUMBER	REV
C	010	000212	03

TAILORING CPU JUMPERING NOVA 4/C

DEVICE CODE JUMPERS FOR FRONT PANEL AUTOMATIC PROGRAM LOAD
SELECT THE PROGRAM LOAD DEVICE CODE BY INSTALLING JUMPERS
W11, W8, W6, W7, W9, W10, AS FOLLOWS:

JUMPER OUT = 1 JUMPER IN = 0

EXAMPLE JUMPERING FOR DEVICE CODE 278:

W11	W8	W6	W7	W9	W10
IN	OUT	IN	OUT	OUT	OUT

W4 IS NOT INSERTED IF THE PROGRAM LOAD DEVICE IS A HIGH SPEED DEVICE, OTHERWISE IT IS INSERTED.

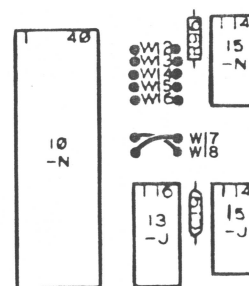
TYPE OF TRANSMISSION JUMPERS

TYPE OF TRANSMISSION	JUMPERS INSERTED*
20MA CURRENT LOOP EIA RS232-C	W1, W3 W2

* JUMPER 25 IS INSERTED IF THE SYSTEM TERMINAL IS A TELETYPE, OTHERWISE IT IS NOT INSERTED.

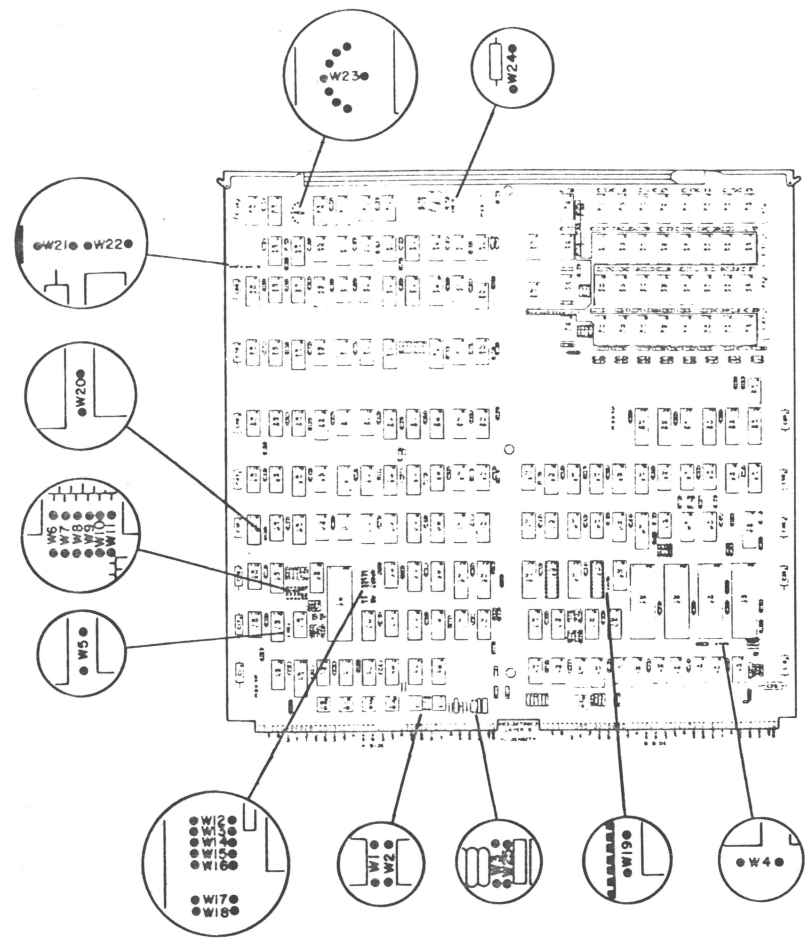
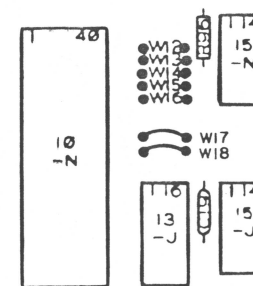
* JUMPERS W17 AND W18 MUST ALSO BE INSERTED AS SHOWN BELOW.

20MA CURRENT LOOP



JUMPERS W17 AND W18 MUST NOT TOUCH!

EIA RS232-C



STOP BIT JUMPERS

NUMBER OF STOP BITS	W15 JUMPER POSITION
1	IN
2	OUT

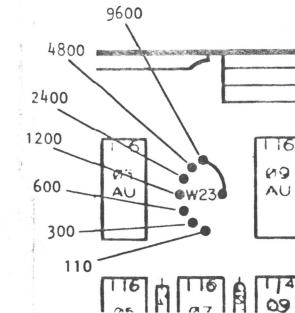
PARITY JUMPERS

TYPE OF PARITY	JUMPER POSITION	
	W12	W16
EVEN	OUT	IN
ODD	IN	IN
NONE	OUT	OUT

CHARACTER LENGTH JUMPERS

CHARACTER LENGTH	JUMPER POSITION	
	W13	W14
5 BITS	IN	IN
6 BITS	OUT	IN
7 BITS	IN	OUT
8 BITS	OUT	OUT

W23 IS INSERTED TO DETERMINE THE BAUD RATE AS SHOWN BELOW: (9600 SHOWN)



W22 IS NEVER INSERTED.

THE FOLLOWING JUMPERS ARE ALWAYS INSERTED:

- W5
- W19
- W20
- W21
- W24

CPU/MEMORY LOADS

VOLTAGE	DESCRIPTION	CURRENT DRAW
+5V	SYSTEM WITHOUT BATTERY BACKUP	8.0A
+5V	SYSTEM WITH BATTERY BACKUP	7.5A
+5V MEM		0.5A
+12V MEM		0.7A
+15V		0.04A

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REV	DATE	APP	ENGINEER
ECO			
APP			
DATE			

DRAWN	CHECKED	ENGINEER

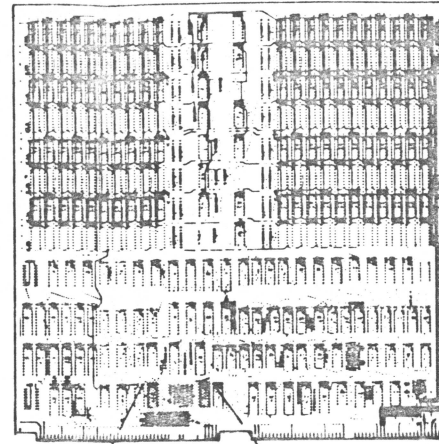
APPROVED	FIRST USED ON	CODE IDENT
		34984

TITLE
INSTALLATION DATA SHEET
NOVA 4 5-SLOT

DATA GENERAL CORPORATION WESTBORO, MASSACHUSETTS 01581			
SIZE	CODE	DRAWING NUMBER	REV
C	010	000212	03

TAILORING (CONT)

MEMORY JUMPERING
NOVA 4/S AND 4/X



NOVA 4/X MEMORY BOARD SELECT JUMPERS

ADDRESS RANGE	JUMPERS INSERTED*	
	BOARD SIZE	
	256KBYTES	128KBYTES
0377777-	NONE	
0300000-		
0277777-		
0200000-		
0177777-		
0100000-		
0077777-	W7	
0000000-		

*NOTE: JUMPERS W1, W3, AND W5 ARE ALWAYS INSERTED.
JUMPERS W2, W4, AND W6 ARE NEVER INSERTED.

NOVA 4/S MEMORY BOARD SELECT JUMPERS

ADDRESS RANGE	JUMPERS INSERTED*	
	BOARD SIZE	
	64 KBYTES	32KBYTES
0077777-	W7 W9	
0040000-		
0037777-		
0000000-		
	W7 W9 W11	

NOTE: JUMPERS W1, W3, AND W5 ARE ALWAYS INSERTED;
JUMPERS W2, W4, AND W6 ARE NEVER INSERTED.

MEMORY LOADS

VOLTAGE	DESCRIPTION	CURRENT DRAW
+5V	SYSTEM WITH BATTERY BACKUP	4.4A
+5V	SYSTEM WITHOUT BATTERY BACKUP	5.6A
+5V MEM		1.2A
+12V MEM	FIRST BOARD IN CHASSIS	2.3A

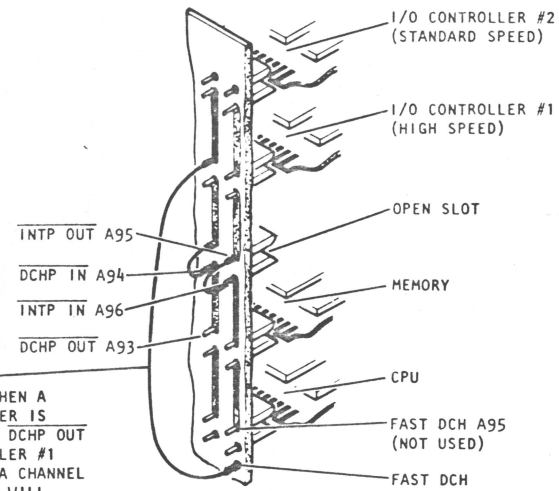
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ECO		CHECKED		FIRST USED ON		INSTALLATION DATA SHEET NOVA 4 5-SLOT											
APP		ENGINEER		CODE IDENT 34984													
DATE																	

DATA GENERAL CORPORATION WESTBORO, MASSACHUSETTS 01581			
SIZE	CODE	DRAWING NUMBER	REV
C	010	000212	03

TAILORING (CONT) BACKPANEL JUMPERING

TYPICAL CONFIGURATION



FAST DCH JUMPER
(THIS JUMPER IS ONLY USED WHEN A STANDARD SPEED I/O CONTROLLER IS CONFIGURED. IT RETURNS THE DCHP OUT SIGNAL TO THE CPU. CONTROLLER #1 WILL RECEIVE HIGH SPEED DATA CHANNEL SERVICE WHILE CONTROLLER #2 WILL RECEIVE STANDARD SPEED DATA CHANNEL SERVICE.)

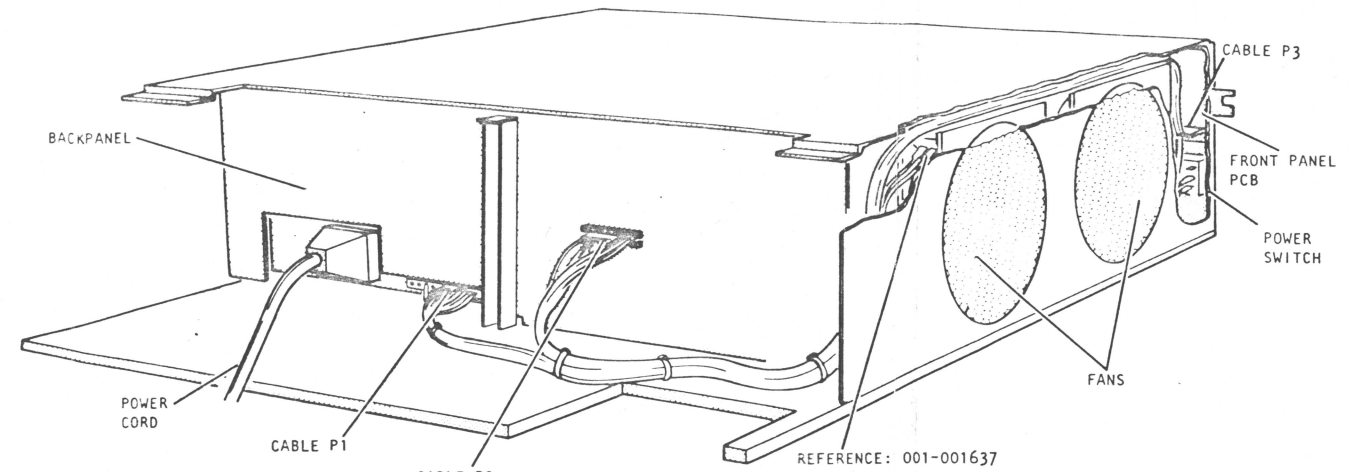
NO JUMPERS NEEDED EXCEPT FOR OPEN SLOTS

NOTE: WHEN AN I/O CONTROLLER RESIDES OUTSIDE THE CHASSIS, IT MUST BE CONFIGURED AS A STANDARD DATA CHANNEL CONTROLLER.

FOR MORE INFORMATION CONCERNING INTERRUPT AND DATA CHANNEL PRIORITY SCHEMES, REFER TO THE INTERFACE DESIGNER'S REFERENCE, NOVA AND ECLIPSE LINE COMPUTERS, DG NO. 015-000031.

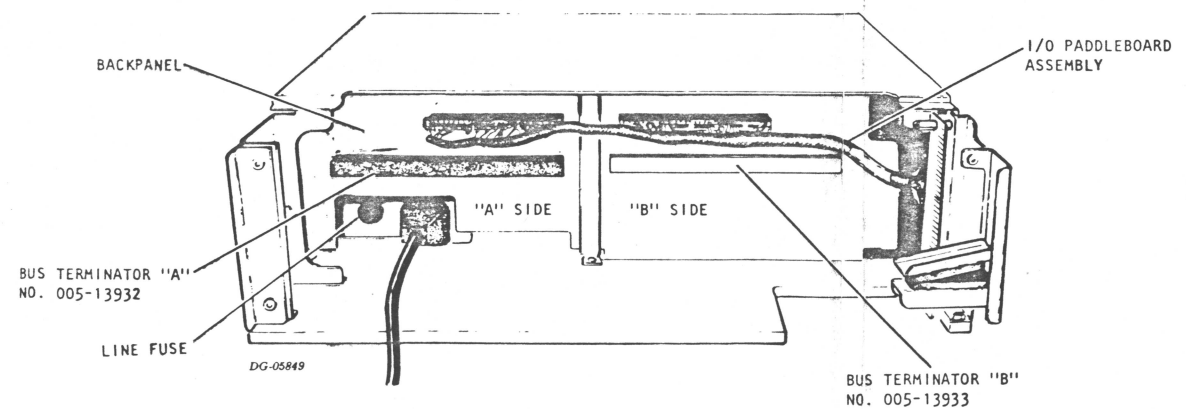
DG-05828

INTERNAL CABLING BACKPANEL CONNECTORS



DG-05847

REFERENCE: 001-001637



DG-05849

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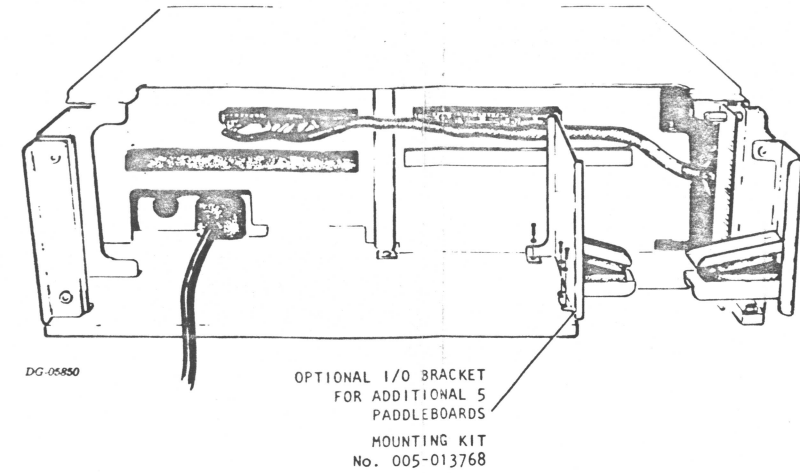
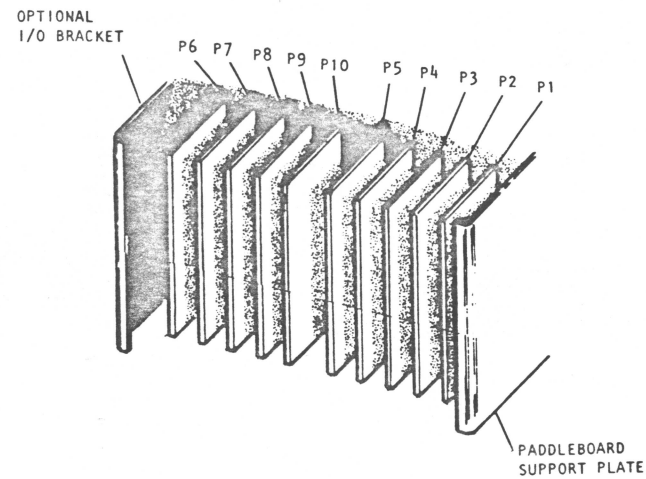
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NOVA 4 5-SLOT

DATA GENERAL CORPORATION
WESTBORO, MASSACHUSETTS 01581

SIZE	CODE	DRAWING NUMBER	REV
C	010	000212	03

INTERNAL CABLING (CONT)

PADDLEBOARD MOUNTING



NOVA 4 I/O PADDLEBOARDS

ASSEMBLY No.	TYPE
005 012472	GENERAL PURPOSE I/O
005 012751	EXTERNAL I/O BUS**
005 012765	UNIVERSAL LINE MUX (SYNC) MODEL 4241, 4241A, 4242, 4243***
005 012476	I/O BUS REPEATER MODEL 8315
005 012590	DCU-50 MODELS 4250, 4254
005 012473*	ASYNCHRONOUS INTERFACE MODELS 4007, 4010, 4023, 4075, 4077, 4078
005 012585	MCA MODEL 4206

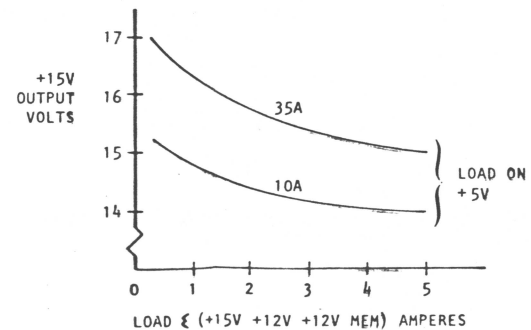
* THIS PADDLEBOARD MUST BE PLACED IN THE OUTSIDE POSITION: I.e. THE FURTHEST AWAY FROM THE PADDLEBOARD SUPPORT PLATE.

** EXTERNAL I/O BUS MUST BE TERMINATED AT THE END AWAY FROM THE COMPUTER BY TERMINATOR NO. 005-9067, OR EQUIVALENT.

*** REQUIRES TWO PADDLEBOARD LOCATIONS.

POWER SYSTEM LOADING RULES:

- SUPPLY VOLTAGES +5V, +12V, -5V ARE TIGHTLY REGULATED (SEE 001-001615 FOR LIMITS). +15 VOLTS IS NOT LOAD REGULATED; IT'S TYPICAL OUTPUT VOLTAGE IS SHOWN IN THE GRAPH TO THE RIGHT.
- LOADING ON +5V VOLTS MUST BE DIVIDED SO THAT SLOTS 1 AND 2 DRAW LESS THAN 22 AMPERES, SLOTS 3, 4, AND 5 DRAW LESS THAN 22 AMPERES AND THE TOTAL LOAD IS LESS THAN 35 AMPERES.



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REV	DATE	APP	ECO

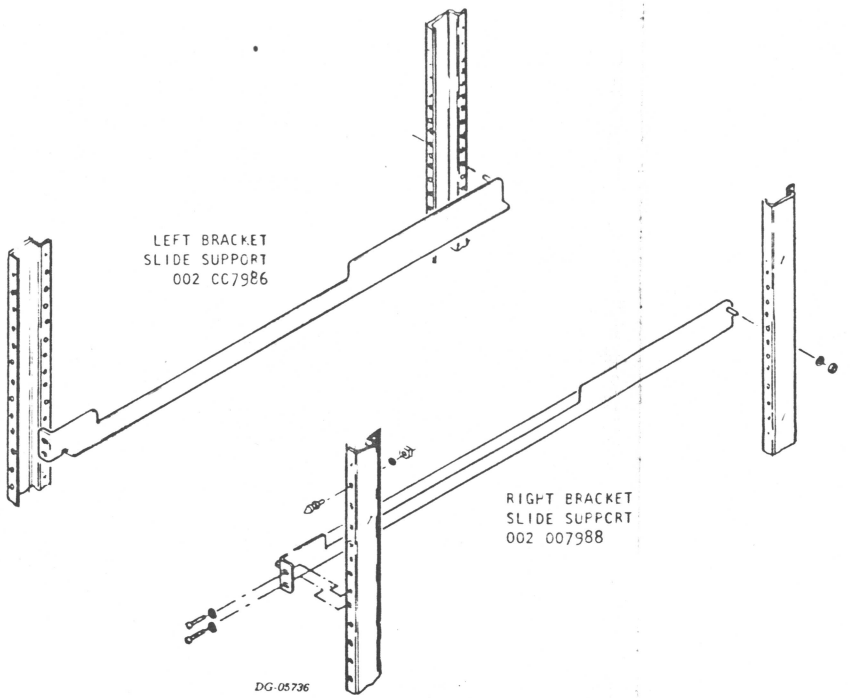
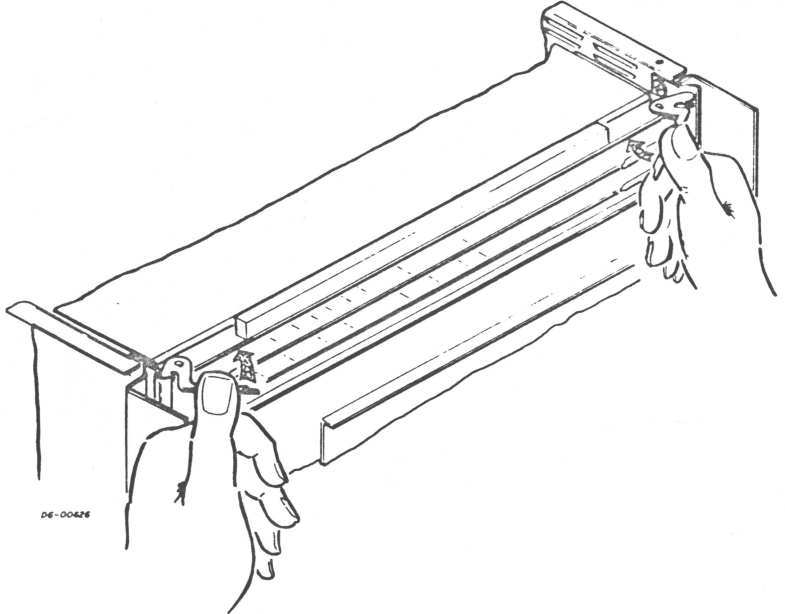
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NOVA 4 5-SLOT

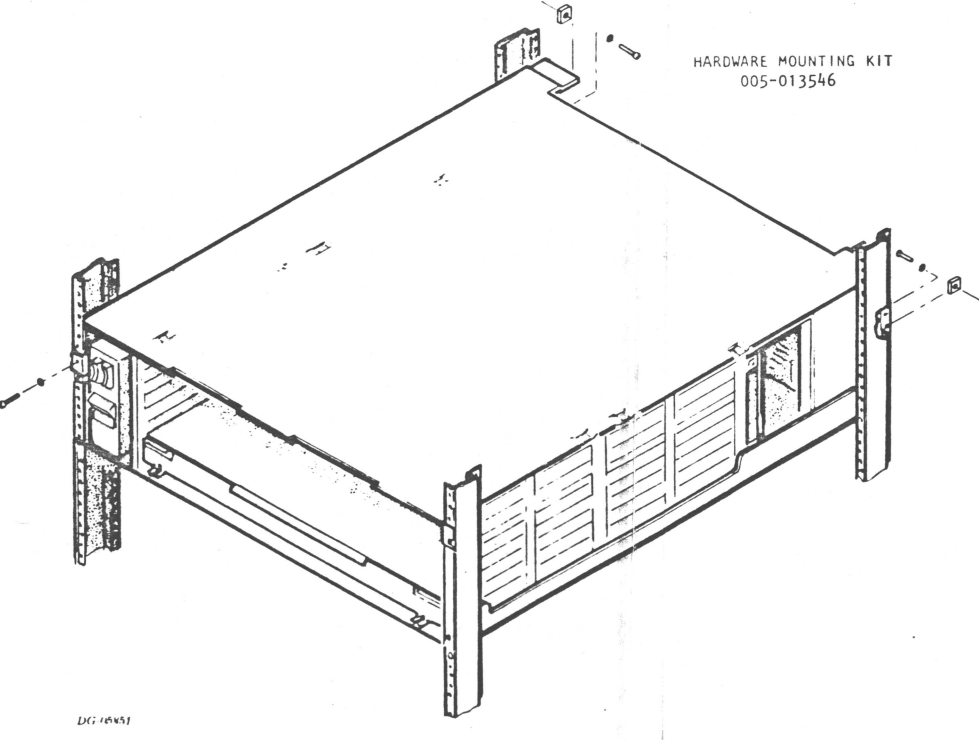
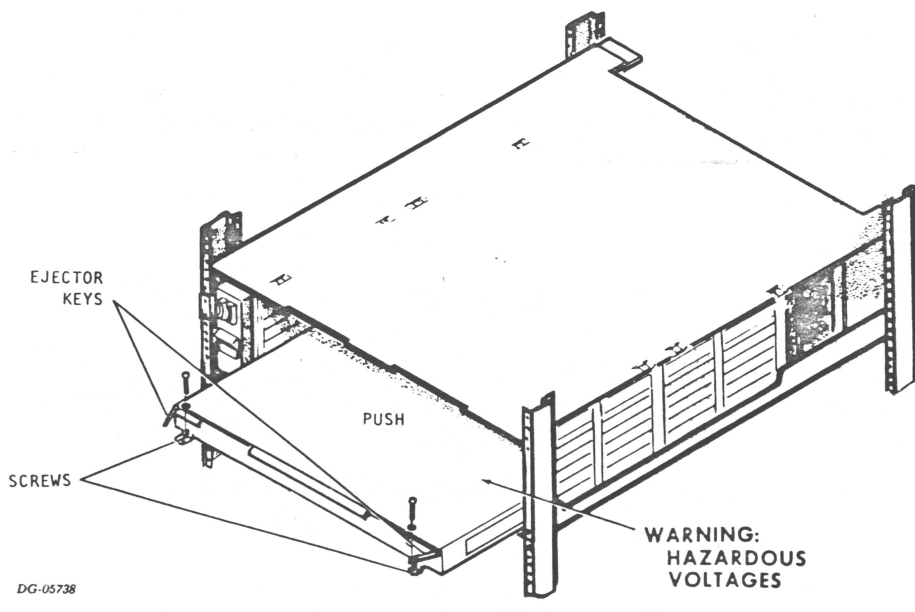
DATA GENERAL CORPORATION WESTBORO, MASSACHUSETTS 01581			
SIZE C	CODE 010	DRAWING NUMBER 000212	REV 03

CABINET MOUNTING

INSERTING PC BOARD



INSERTING POWER SUPPLY PCB



HARDWARE MOUNTING KIT
005-013546

NOVA 4 16-slot

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NOVA 4 5-SLOT

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SIZE	CODE	DRAWING NUMBER	REV
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