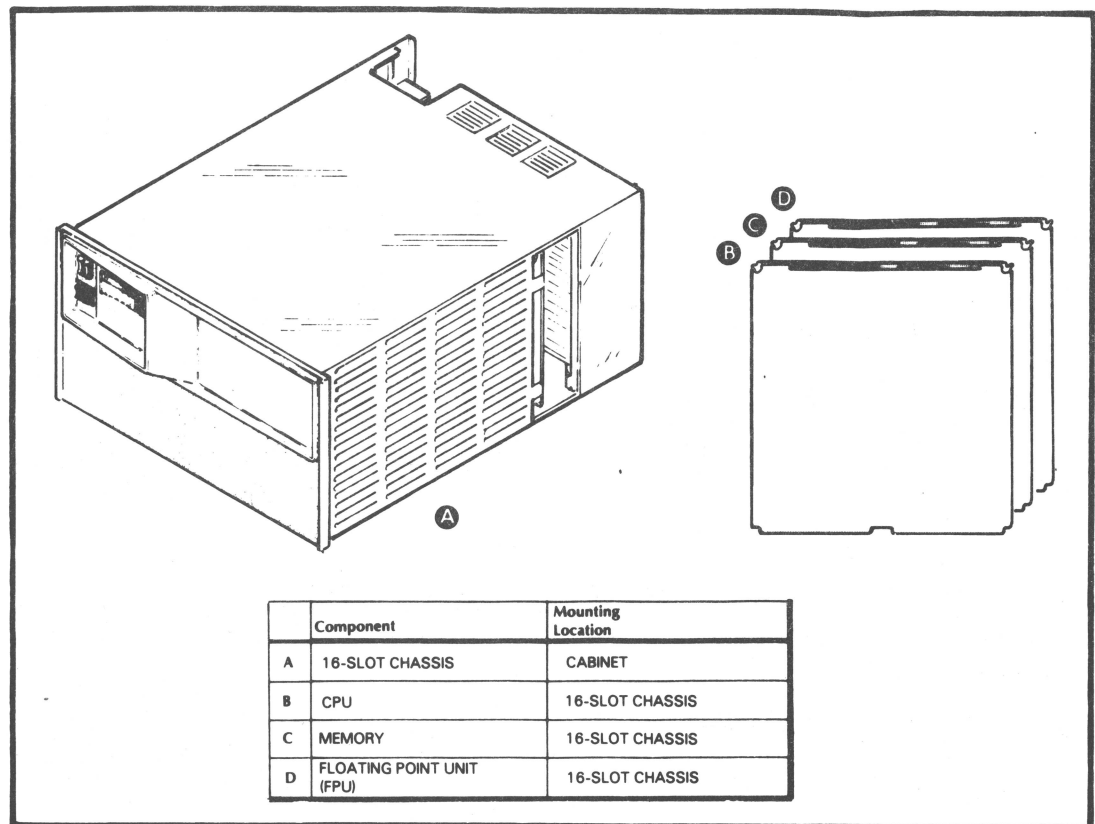
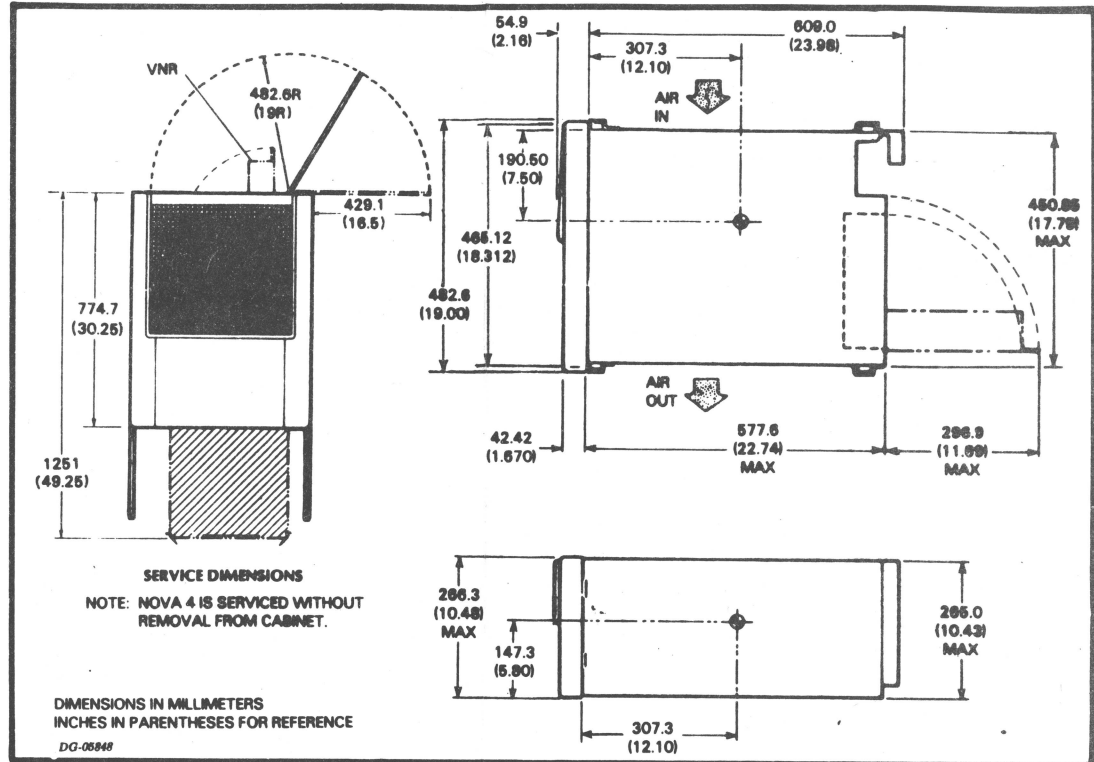


INSTALLATION SPECIFICATIONS



Component	Mounting Location
A 16-SLOT CHASSIS	CABINET
B CPU	16-SLOT CHASSIS
C MEMORY	16-SLOT CHASSIS
D FLOATING POINT UNIT (FPU)	16-SLOT CHASSIS



SLOT ASSIGNMENTS

Slot	Allowed (Slot Chart)	Standard or High Speed	
		Assigned	+5V Current Draw
16	I/O		
15	I/O		
14	I/O		
13	I/O		
12	I/O		
11	MEMORY or I/O		
10	MEMORY or I/O		
9	MEMORY or I/O		
8	MEMORY or I/O		
7	MEMORY or I/O		
6	MEMORY or I/O		
5	MEMORY or I/O		
4	MEMORY or I/O		
3	MEMORY or I/O		
2	MEMORY or FPU	NOTE 2,3	
1	CPU	NOTE 1	
0	POWER SUPPLY		

Total +5V Current draw
Max +5V Current Available
+5V Current Surplus 100A

NOTES:

- NOVA 4/S and NOVA 4/X NOVA 4/C 17A 8A
- MEMORY (NOVA 4/S & 4/X only) w/BATTERY BACKUP OPTION PRESENT 4.4A w/o BATTERY BACKUP OPTION PRESENT 5.6A
- FLOATING POINT UNIT 15A
- MAXIMUM 4 MEMORY BOARDS PER SYSTEM.
- MAXIMUM 10 I/O BOARDS CONNECTED TO I/O BUS W/O A BUS REPEATER.
- PUSH-ON TERMINATORS ON TOP MEMORY SLOT FOR NOVA 4/S & 4/X.
- PUSH ON TERMINATORS ON SLOT 2 FOR NOVA 4/C
- SEE PAGE 10 FOR +12V LOAD RESTRICTIONS.

SPECIFICATIONS	NOVA 4 16-slot		
DIMENSIONS:	Width	Depth	Height
Millimeters	483.1	663.9	266.3
Inches	19.02	26.14	10.48
SERVICE CLEARANCES:	Front	Rear	
Millimeters	508.0	269.9	
Inches	20.0	11.69	
WEIGHT:	Empty	Fully Loaded	
Kilograms	35.38	49.9	
Pounds	78.0	110.0	
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:	1100 watts (3750 BTU/hr)		
POWER REQUIREMENTS:	(Domestic)		
Voltage	102-132		
Hz	47-63		
Max Amp per Phase	12.0		
Phase	1		
Startup Surge per Phase	20A (max) for 0.25 seconds		
LINE CORDS:	(Export)		
Voltage	187-264		
Hz	47-63		
Max Amp per Phase	7.0		
Phase	1		
Startup Surge per Phase	40A (max) for 0.12 seconds		
Supply	Part No.		
120V	109 000455		
220/240	109 000456		

013-000840
BRUNING 40-526 27928

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

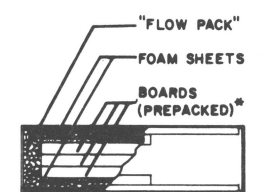
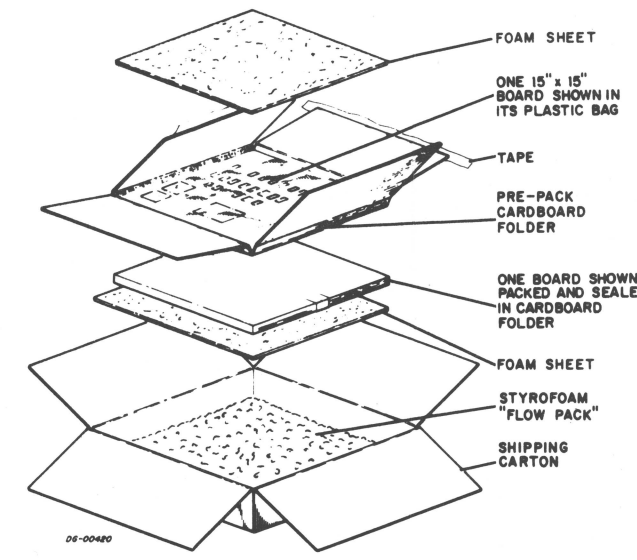
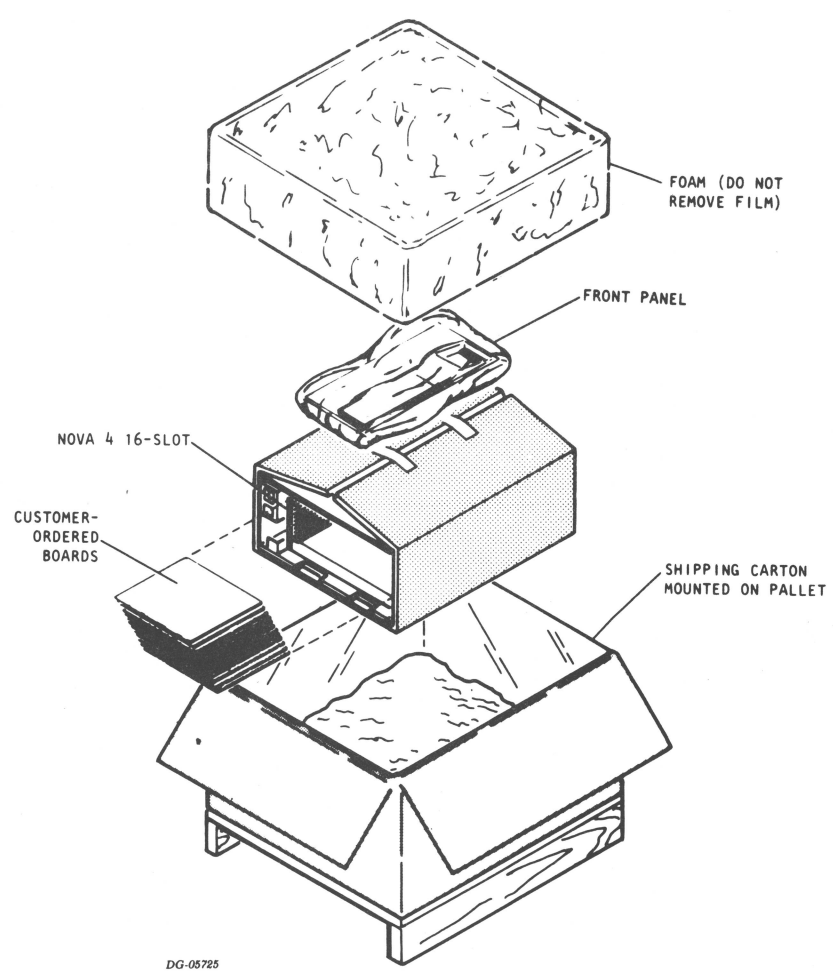
REV	∞																			
ECD	F802																			
APP	✓																			
DATE	2-6-79																			

DRAWN	<i>2/6 2/9/79</i>	APPROVED	<i>[Signature]</i> 2/6/79
CHECKED		FIRST USED ON	
ENGINEER		CODE IDENT	34984

TITLE
INSTALLATION DATA SHEET
NOVA 4 16-SLOT

DATA GENERAL CORPORATION WESTBORO, MASSACHUSETTS 01581			
SIZE	CODE	DRAWING NUMBER	REV
C	010	000213	∞

SHIPPING



* **MULTIPLE PACKING**
Up to three(3) 15" x 15" boards, enclosed in plastic bags and sealed in pre-pack folders as shown, can be put in shipping carton number 129-000062. For four (4) to seven (7) boards, use shipping carton number 129 000012.

SHIPPING AND PACKAGE DATA					
Outside Dimensions			Weight (Gross)	Volume	Density
Length	Width	Depth			
in.	in.	in.	lbs.	cu ft	lbs/cu ft
cm	cm	cm	kg	cu m	kg/cu m
36	28	24.5	135	14.29	
91.4	71.12	62.2	61.22	.4287	
SHIPPING SPECIFICATIONS			STORAGE SPECIFICATIONS		
Temperature Range	Relative Humidity	Maximum Altitude	Temperature Range	Relative Humidity	Maximum Period
°F	(Non-condensing)		°F	(Non-condensing)	
-40to+160	0%/90%	50,000ft. 15,200m	-40to+160	0%/90%	90 days
-40to+71			-40to+71		

013-000840
BRUNING 40-526 27928

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

REV		DRAWN		APPROVED	
ECO		CHECKED		FIRST USED ON	
APP		ENGINEER		CODE IDENT 34984	
DATE					

TITLE
INSTALLATION DATASHEET
NOVA 4 16-SLOT

DATA GENERAL CORPORATION
WESTBORO, MASSACHUSETTS 01581

SIZE	CODE	DRAWING NUMBER	REV
C	010	000213	00

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.

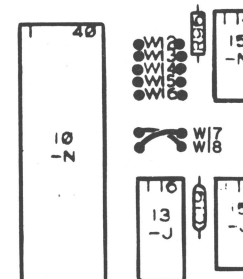
TYPE OF TRANSMISSION JUMPERS

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

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

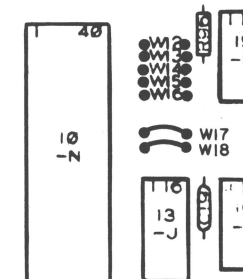
* JUMPERS W17 AND W18 MUST ALSO BE INSERTED AS SHOWN BELOW.

20MA CURRENT LOOP

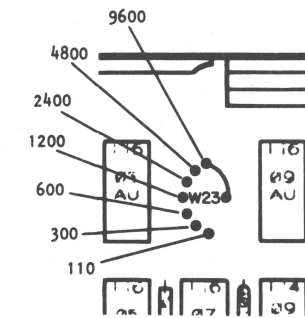


JUMPERS W17 AND W18 MUST NOT TOUCH!

EIA RS232-C



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



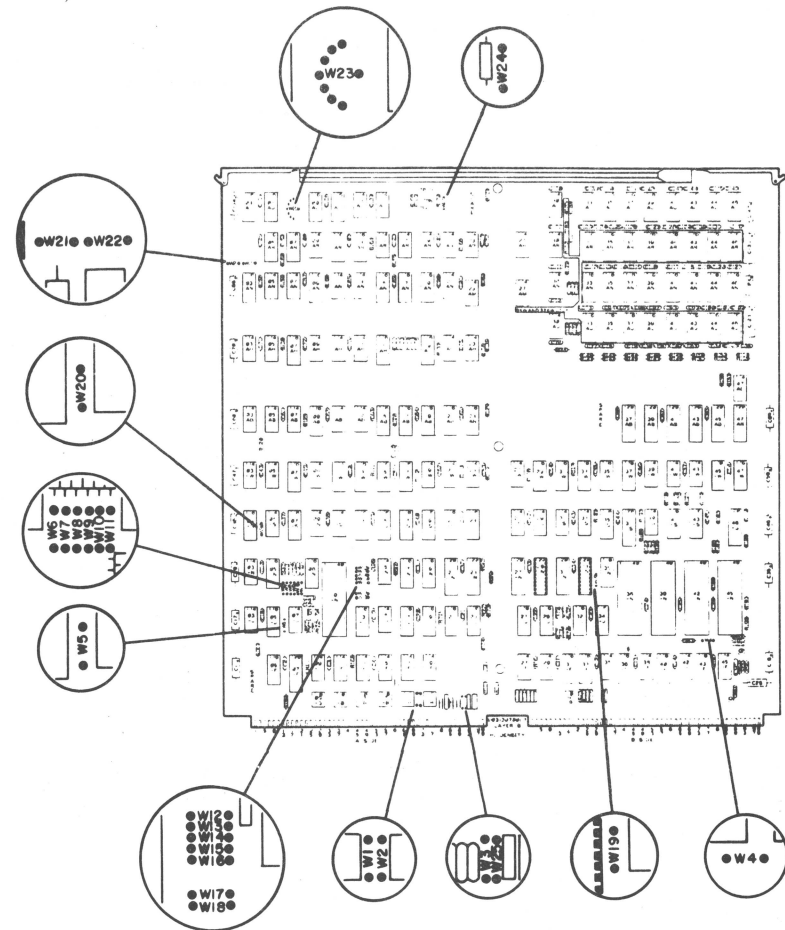
W22 IS NEVER INSERTED.

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



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

013-000840
BRUNING 40-526 27928

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION

REV	DATE	APP	ECO	ENGINEER	CHECKED	APPROVED	FIRST USED ON	CODE IDENT
								34984

TITLE
INSTALLATION DATA SHEET
NOVA 4 16-SLOT

DATA GENERAL CORPORATION
WESTBORO, MASSACHUSETTS 01581
SIZE C CODE 010 DRAWING NUMBER 000213 REV 00

TAILORING (CONT)

CPU JUMPERING

NOVA 4/S OR 4/X

BAUD RATE	JUMPER POSITION				
	W17	W18	W19	W20	W27
50	IN	IN	OUT	IN	OUT
75	IN	IN	OUT	OUT	OUT
110	OUT	OUT	OUT	OUT	IN
134.5	IN	OUT	IN	IN	OUT
150	OUT	OUT	OUT	IN	OUT
200	IN	OUT	IN	OUT	OUT
300	OUT	OUT	IN	OUT	OUT
600	IN	OUT	OUT	IN	OUT
1200	OUT	IN	OUT	OUT	OUT
1600	OUT	IN	OUT	IN	OUT
2400	OUT	OUT	IN	IN	OUT
4800	OUT	IN	IN	OUT	OUT
9600	OUT	IN	IN	IN	OUT
19200	IN	IN	IN	OUT	OUT

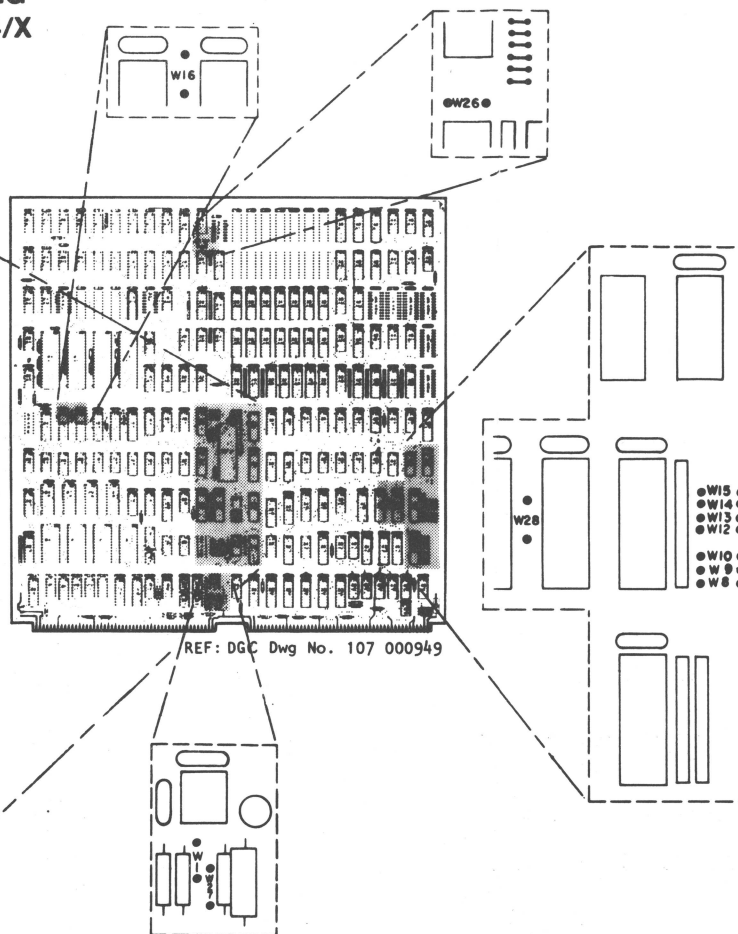
TYPE OF PARITY	JUMPER POSITION	
	W22	W21
EVEN	OUT	IN
ODD	IN	IN
NONE	OUT	OUT

CHARACTER LENGTH	JUMPER POSITION	
	W25	W24
5 BITS	IN	IN
6 BITS	OUT	IN
7 BITS	IN	OUT
8 BITS	OUT	OUT

TYPE OF TRANSMISSION	JUMPERS INSERTED
20MA CURRENT LOOP	W4, W7, W2, W1
EIA RS232-C	W6, W3

NUMBER OF STOP BITS	W23 JUMPER POSITION
	1
2	OUT

REAL TIME CLOCK JUMPER	
RTC ENABLED	W28 IN
RTC DISABLED	W28 OUT



DEVICE CODE JUMPERS FOR FRONT PANEL AUTOMATIC PROGRAM LOAD

SELECT THE PROGRAM LOAD DEVICE CODE BY INSTALLING JUMPERS W13, W15, W14, W12, W10, W8 AS FOLLOWS:

JUMPER IN = 1 JUMPER OUT = 0

EXAMPLE JUMPERING FOR DEVICE CODE 27 :
8

W13	W15	W14	W12	W10	W8
OUT	IN	OUT	IN	IN	IN

W9 IS INSERTED IF THE PROGRAM LOAD DEVICE IS A HIGH SPEED DEVICE, OTHERWISE, IT IS REMOVED.

NOTE: JUMPERS W16 AND W26 ARE ALWAYS INSERTED. JUMPERS W5 AND W11 DO NOT EXIST.

+5V CURRENT DRAW = 17A

013-00840 BRUNING 40-526 27928

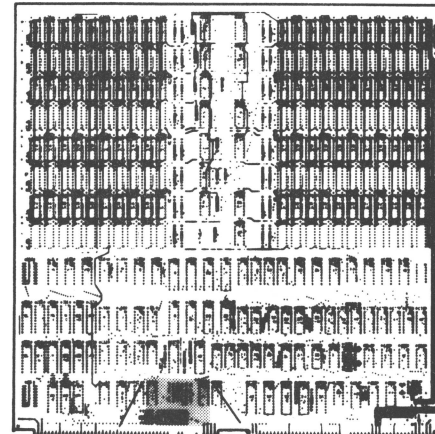
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

REV	DATE	APP	ENGINEER	DRAWN	APPROVED	FIRST USED ON	CODE IDENT
							34984

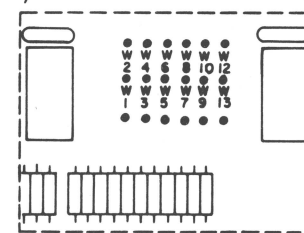
TITLE		DATA GENERAL CORPORATION	
INSTALLATION DATA SHEET		WESTBORO, MASSACHUSETTS 01581	
NOVA 4 16-SLOT		SIZE C	CODE 010
DRAWING NUMBER		000213	REV. 00

TAILORING (CONT)

MEMORY JUMPERING NOVA 4/S AND 4/X



REF: DGC Dwg No. 107 000813



NOVA 4/X MEMORY BOARD SELECT JUMPERS

ADDRESS RANGE	JUMPERS INSERTED*		
	BOARD SIZE		
	256KBYTES	128KBYTES	64KBYTES
0377777-	NONE	W8	W8 W10
0300000-			W8 W9
0277777-		W7	W7 W10
0177777-	W7 W9		
0100000-	W7 W9		0077777-
0077777-			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	W7 W9 W12
0040000-		W7 W9 W11
0037777-		
0000000-		

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

SYSTEMS SHOULD BE CONFIGURED WITH THE LARGER BOARDS OCCUPYING THE LOWER MEMORY ADDRESS RANGES.

MEMORY LOADS

VOLTAGE	DESCRIPTION	CURRENT DRAW
+5V	SYSTEM WITH BATTERY BACKUP	4.4
+5V	SYSTEM WITHOUT BATTERY BACKUP	5.6
+5V MEM		1.2
+12V MEM	FIRST BOARD IN CHASSIS	2.3
+12V MEM	EACH ADDITIONAL BOARD	0.3

013-000840
BRUNING 40-526 27928

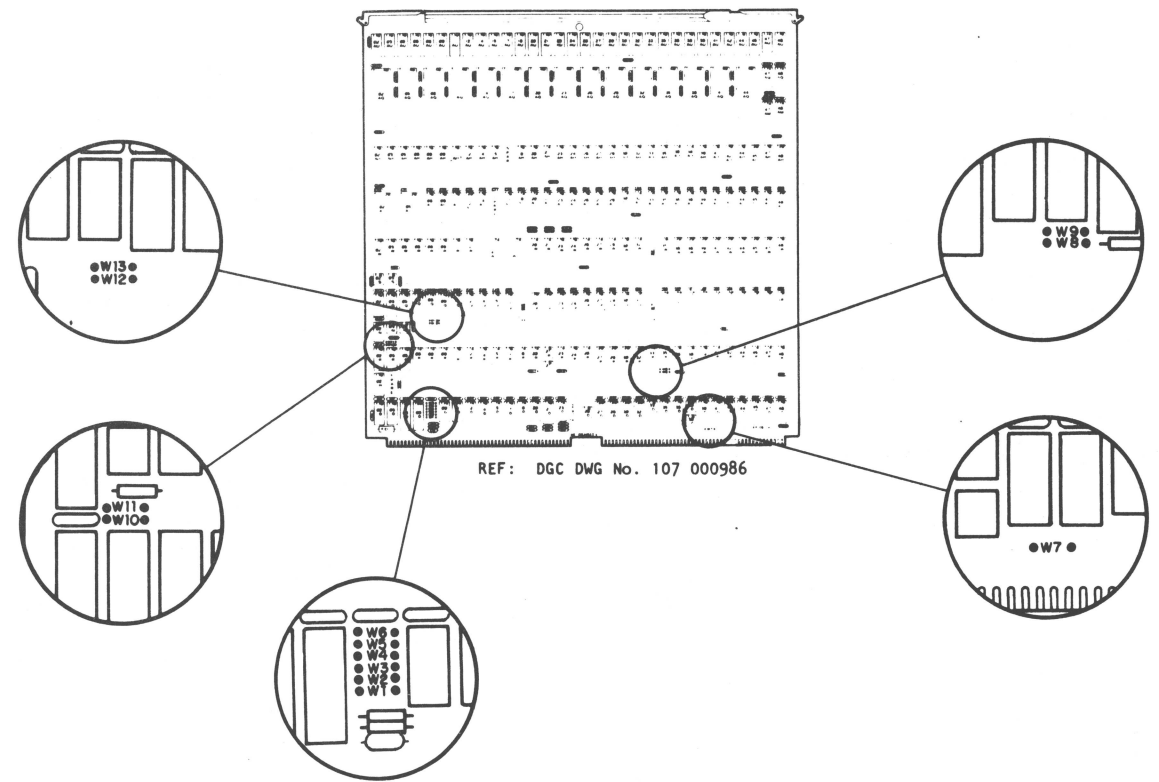
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION

REV	ECO	APP	DATE	DRAWN	CHECKED	ENGINEER	APPROVED	FIRST USED ON	CODE IDENT
									34984

TITLE
INSTALLATION DATA SHEET
NOVA 4 16-SLOT

DATA GENERAL CORPORATION WESTBORO, MASSACHUSETTS 01581			
SIZE C	CODE 010	DRAWING NUMBER 000213	REV. 00

TAILORING (CONT)
FLOATING POINT UNIT JUMPERING



THE JUMPERS MUST BE POSITIONED ON THE FLOATING POINT UNIT PRINTED CIRCUIT BOARD AS INDICATED IN THE TABLE BELOW.

JUMPER	POSITION
W1	IN
W2	OUT
W3	OUT
W4	IN
W5	OUT
W6	IN
W7	IN
W8	OUT
W9	IN
W10	OUT
W11	IN
W12	OUT
W13	IN

THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

013-000840
 BRUNING 40-526 27928

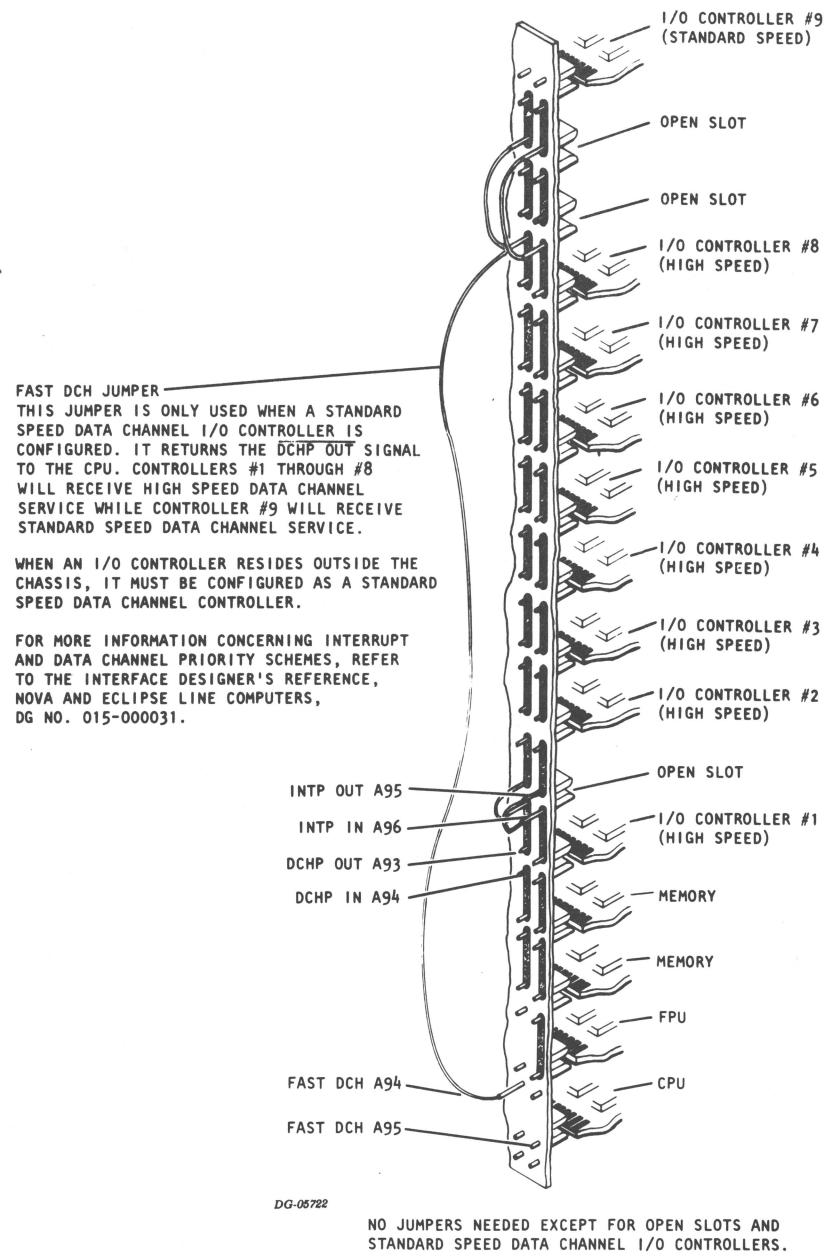
REV														
ECO														
APP														
DATE														

DRAWN	APPROVED
CHECKED	FIRST USED ON
ENGINEER	CODE IDENT 34984

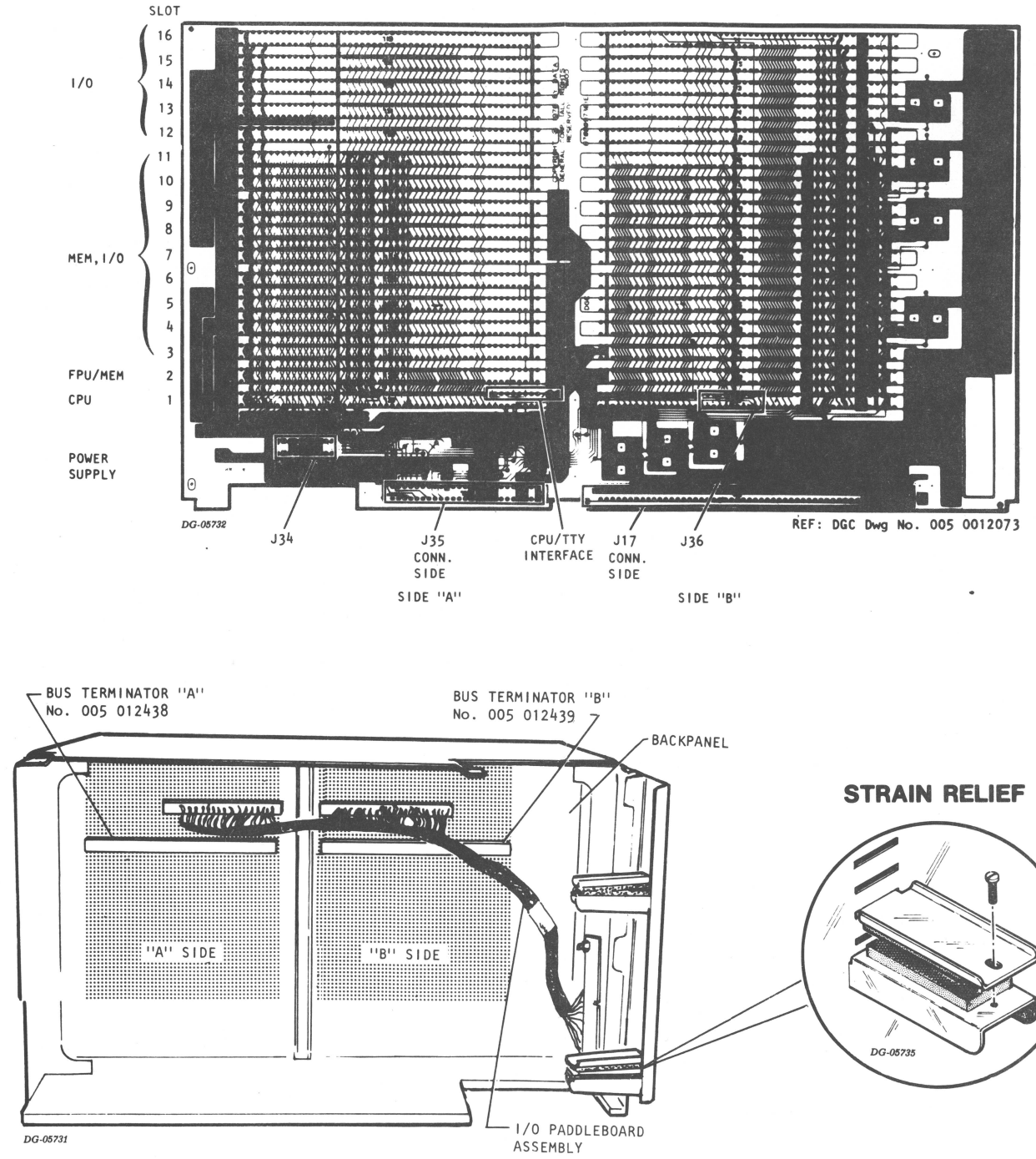
TITLE
 INSTALLATION DATA SHEET
 NOVA 4 16-SLOT

DATA GENERAL CORPORATION			
WESTBORO, MASSACHUSETTS 01581			
SIZE	CODE	DRAWING NUMBER	REV
C	010	000213	00

TAILORING (CONT) BACKPANEL JUMPERING



INTERNAL CABLING BACKPANEL CONNECTORS



THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION

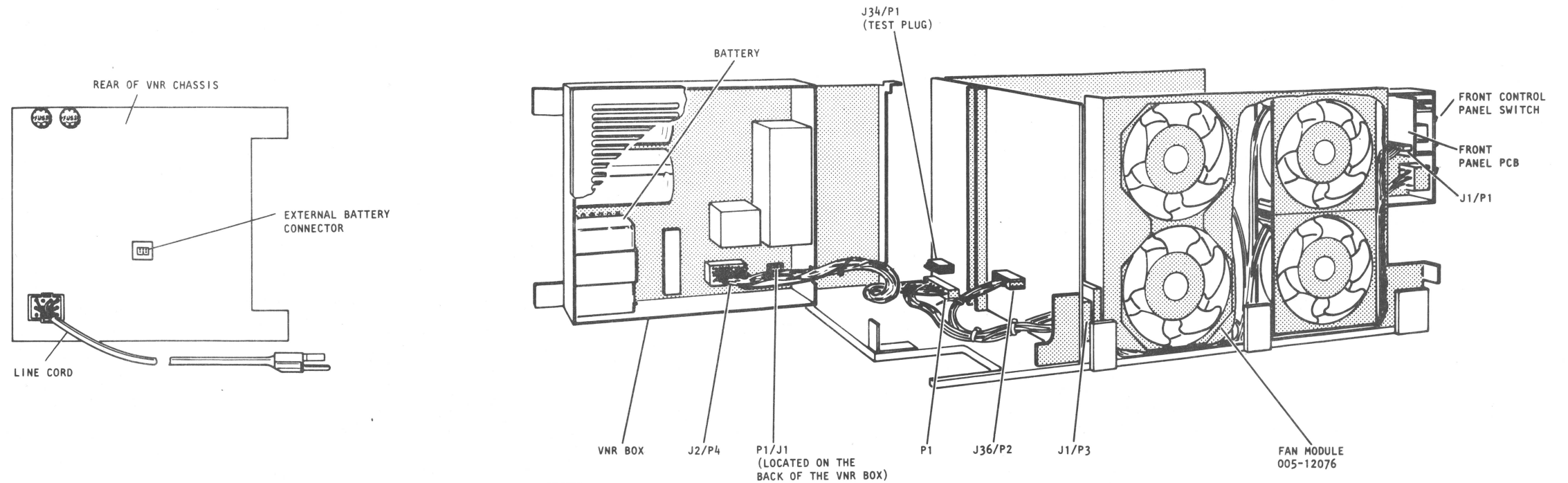
REV		DRAWN		APPROVED	
ECO		CHECKED		FIRST USED ON	
APP		ENGINEER		CODE IDENT 34984	
DATE					

TITLE
INSTALLATION DATA SHEET
NOVA 4 16-SLOT

DATA GENERAL CORPORATION
WESTBORO, MASSACHUSETTS 01581
SIZE CODE C O10
DRAWING NUMBER 000213

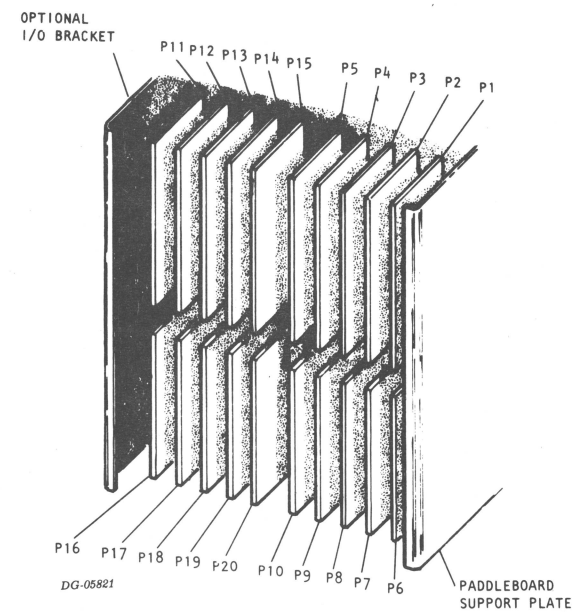
013-000840
BRUNING 40-526 27928

INTERNAL CABLING (CONT)



WARNING
 FOR SERVICING DISCONNECT
 POWER, WAIT 5 MINUTES
 REASSEMBLE UNIT BEFORE
 APPLYING POWER

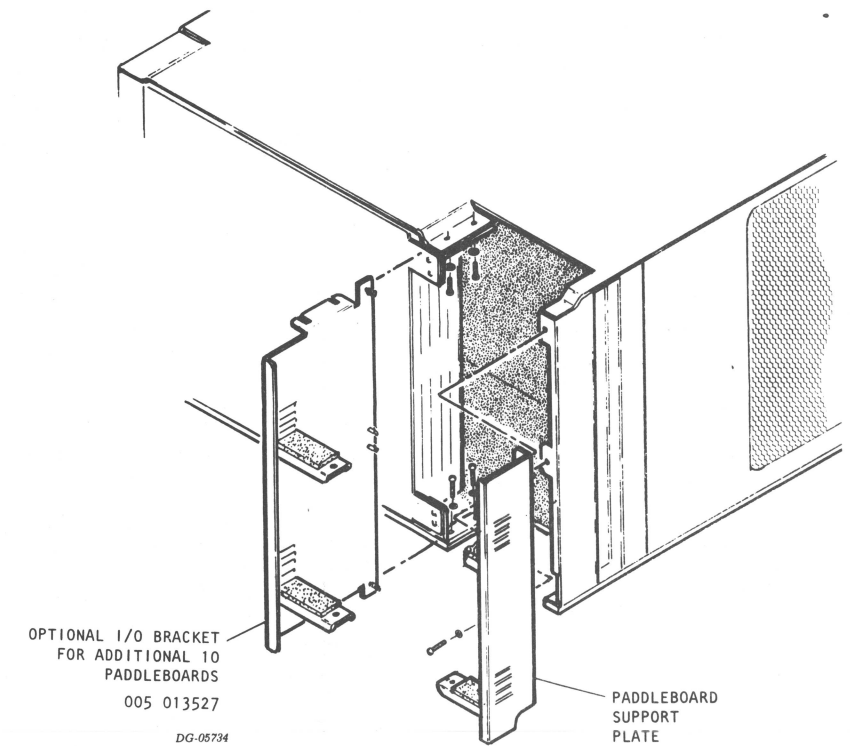
PADDLEBOARD MOUNTING



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.



013-000840
BRUNING 40-526 27928

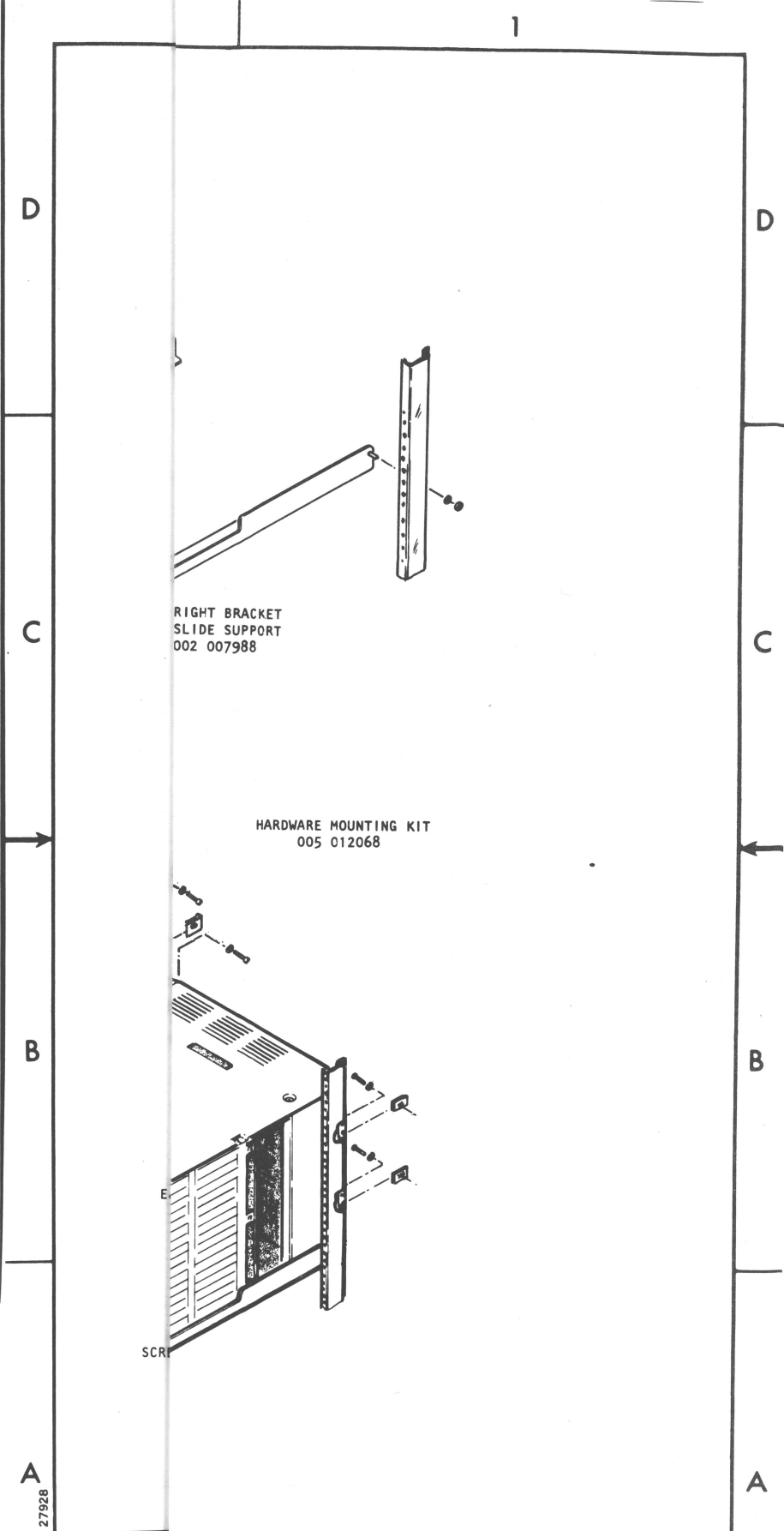
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF DATA GENERAL CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.

REV		DRAWN		APPROVED	
ECO		CHECKED		FIRST USED ON	
APP		ENGINEER		CODE IDENT 34984	
DATE					

TITLE
 INSTALLATION DATA SHEET
 NOVA 4 16-SLOT

DATA GENERAL CORPORATION
 WESTBORO, MASSACHUSETTS 01581

SIZE C	CODE 010	DRAWING NUMBER 000213	REV 00
-----------	-------------	--------------------------	-----------



RIGHT BRACKET
SLIDE SUPPORT
002 007988

HARDWARE MOUNTING KIT
005 012068

SCR

013-000840
BRUNING 40-526 27928

THIS DRAWING IS THE PROPERTY OF DATA GENERAL CORPORATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DATA GENERAL CORPORATION.

DATA SHEET
DATA GENERAL CORPORATION
WESTBORO, MASSACHUSETTS 01581

SIZE	CODE	DRAWING NUMBER	REV
C	010	000213	00

