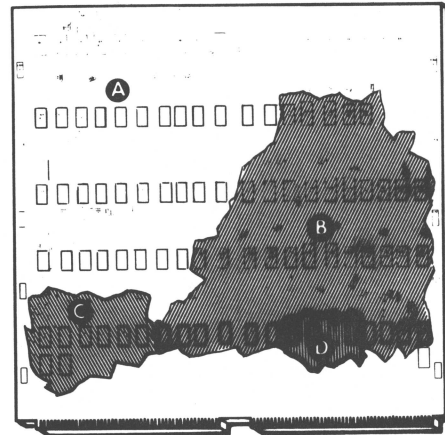
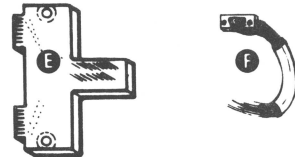


SUBSYSTEM COMPONENT BREAKDOWN



DG-03094



MAJOR COMPONENT

Item	Component	Mounting Location	Notes
A	BASIC I/O INTERFACE	COMPUTER CHASSIS	
B	ASYNC LINE CONTROLLER	BASIC I/O INTERFACE	FOR 20mA CURRENT LOOP APPLICATIONS AT 110 BAUD
C	EIA INTERFACE	ASYNC LINE CONTROLLER	FOR EIA APPLICATION AT 110 BAUD OR HIGHER
D	PRECISION CRYSTAL OSCILLATOR	ASYNC LINE CONTROLLER	FOR 75-9600 BAUD

CABLE

Item	Cable	Connecting	Max Allowed Lg ft / m	Notes
E	INTERNAL	ASYNC LINE CONTROLLER and DEVICE CABLE	N/A	NEEDED FOR SECOND CONTROLLER OR WHEN PREFERRED SLOT IS NOT USED. PADDLEBOARD STYLE SAME AS ABOVE SOCKET STYLE)
F	INTERNAL	ASYNC LINE CONTROLLER " DEVICE CABLE	N/A	

SPECIFICATIONS OF CHASSIS MOUNTED COMPONENTS

Item	Component	Chassis	Slots Required	Max Allowable Data Channel Latency (μ sec)	Type of Data Channel Service Desired		Max Allowable Programmed I/O Latency *	Controller's +5 Volt Current Draw (Amps)
					High Speed	Standard		
A	BASIC I/O INTERFACE	COMPUTER	1	N/A	N/A	N/A	21.6ms @ 110 BAUD TO	0.25 FOR INTERFACE PLUS
	AND ASYNC LINE CONTROLLER							0.7 FOR ASYNC LINE CONT

*DATA WILL BE LOST IN INPUT IF THESE LATENCIES ARE EXCEEDED

CONFIGURATION RULES

1. If a system has one or more TTYs, one (device code 10) must be assigned the primary slot (3, 4, or 5, depending on computer type).
2. If a system has one or more 6012s, Infotons, or other CRT displays, and no TTY, one (device code 10) must be assigned the primary slot.
3. If a system has one or more Low Cost Displays and none of the above, then one (device code 10) must be assigned the primary slot.
4. If a system has one or more Sprints (with keyboard) and none of the above, then one (device code 10) must be assigned the primary slot.
5. If a system has none of the above, then it is assumed to have no console device, and any other constraints and rules can be followed without diagnostic impact.

The above assumes that the interface boards required are standard DG types (ALM and Data Channel Line Printer interfaces excluded). In these cases, No. 5 applies.

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REV	ECO	APP	DATE
00 71 02	5372 6154 9566	— 2/12 11/7	11/6/79 10/5/79

DRAWN	APPROVED
CHECKED	FIRST USED ON
ENGINEER	CODE IDENT 34984

TITLE
ASYNCHRONOUS CONTROLLER

DATA GENERAL CORPORATION			
SOUTHBORO, MASSACHUSETTS 01772			
SIZE	CODE	DRAWING NUMBER	REV
C	010	000115	02

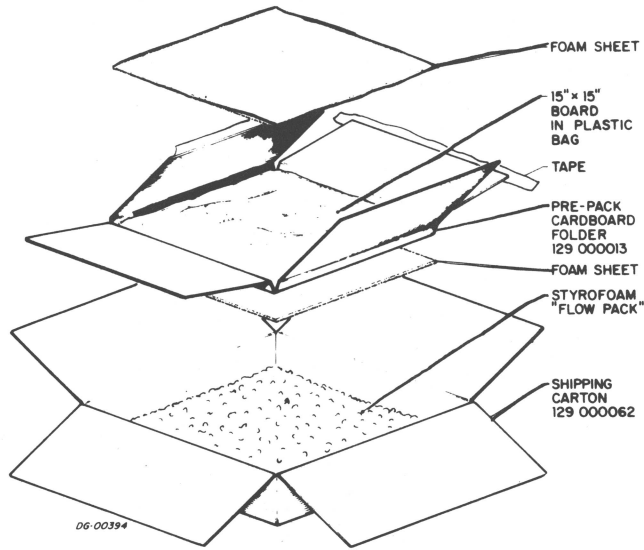
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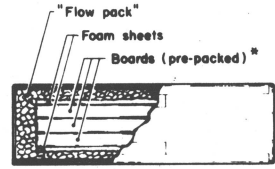
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SHIPPING



DG-00394



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 No. 129 000062. For four (4) to seven (7) boards, use shipping carton No. 129 000012.

Shipping Specifications		
Temperature Range	Relative Humidity	Maximum Altitude
$^{\circ}F$ -40 to +185	(Non-condensing) 0-85%	50,000 ft.
$^{\circ}C$ -40 to +85		

DG-02063

Storage Specifications		
Temperature Range	Relative Humidity	Maximum Period
$^{\circ}F$ -40 to +185	(Non-condensing) 0-85%	90 days
$^{\circ}C$ -40 to +85		

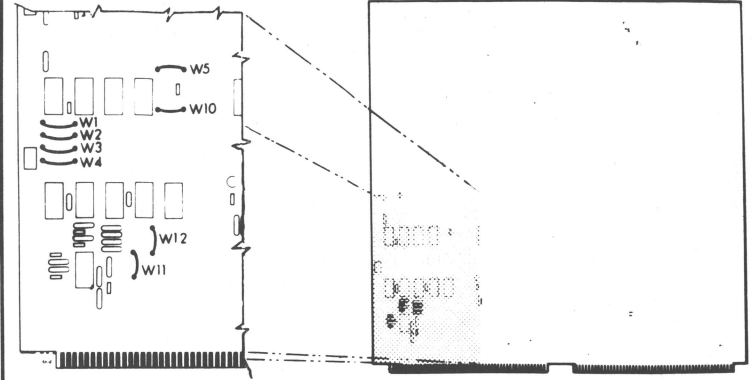
DG-02062

INTERNAL CABLING

Internal Cable Connections			
Signal Name	Paddleboard Connector Pin Numbers	Destination Pins on Back Panel (NOVA and ECLIPSE Line Display Terminal)	Socket Connector Pin Numbers
+ V	B1	A83	7
TTO	B2	A85	6
STOP WIDTH	B3	A87	8
RDR RUN	B4	A89	2
+5V	B8	A3	1
GND	B9	A1	9
TTI	B11	B69	3
-5V	B12	A6	4
Computer		Primary Device	Secondary Device
ECLIPSE NOVA 2/4, 2/10 1210, 820, 1220 NOVA 3/4, 3/12		none required	005-001023
NOVA 800, 830, 840, 1200		none required	005-000506

JUMPERING

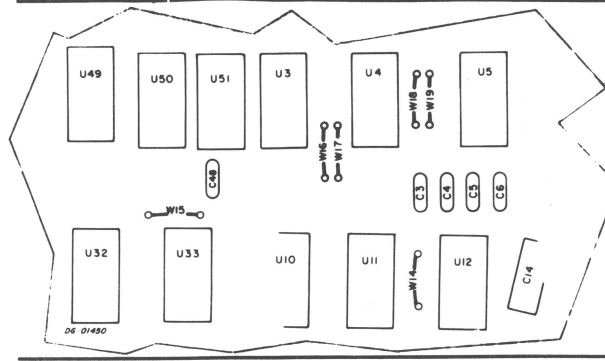
4010 CONTROLLER



Ref. DGC 107-000063 Rev. 00-06

Function	Jumpers
Select the primary device codes - 10g for TTI, 11g for TTO, 12g for the reader, and 14g for the punch.	Install jumpers W2, W3, W10, W11 Omit jumpers W1, W4, W5, W12
Select the secondary device codes - 50g for TTI, 51g for TTO, 52g for the reader, and 53g for punch.	Install jumpers W1, W3, W5, W10, W11 Omit jumpers W2, W4, W12

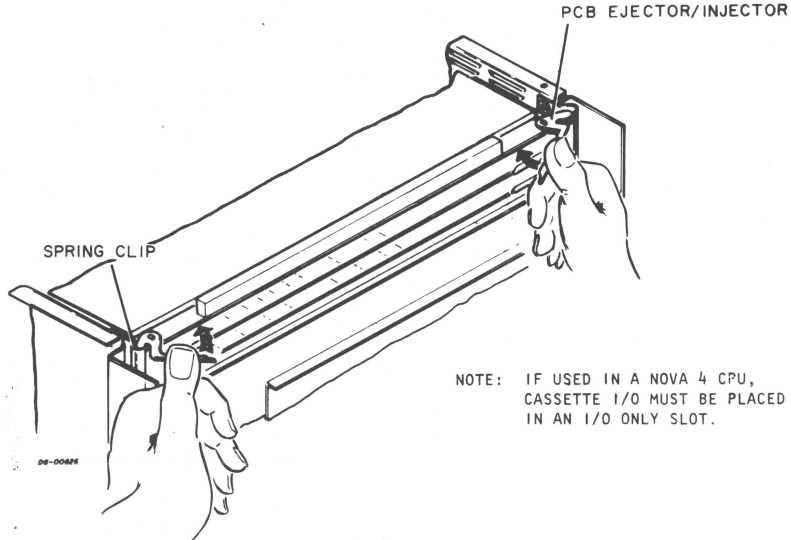
4077 CONTROLLER



* Device Codes	
Function	Jumpers
Select the primary device codes - 34g for the cassette, 10g for TTI, 11g for TTO, and 14g for RTC	Install jumpers W16, W19 Omit jumpers W14, W15, W17, W18
Select the secondary device codes - 74g for the cassette, 50g for TTI, 51g for TTO,	Install jumpers W14, W15, W17, W18 Omit jumpers W16, W19
Select the primary device code - 34g for the cassette, and the secondary device codes - 50g for TTI, 51g for TTO,	Install jumpers W15, W17, W19 Omit jumpers W14, W16, W18
Select the secondary device code - 74g for the cassette, and the primary device codes - 10g for TTI, 11g for TTO, and 14g for RTC	Install jumpers W14, W16, W18 Omit jumpers W15, W17, W19

* Ref. DGC 107-000063 REV. 00-06.

INSTALLING PC BOARD



NOTE: IF USED IN A NOVA 4 CPU, CASSETTE I/O MUST BE PLACED IN AN I/O ONLY SLOT.

DG-0068

Teletype Baud Rate

Function	Jumpers
Select 110 baud rate	Install W5, W6, W9, W11, W12* Omit W4, W7, W8, W10, W13*
Select 150 baud rate	Install W4, W5, W6, W7, W10, W11, W12* Omit W8, W9, W13*
Select 300 baud rate	Install W4, W5, W6, W7, W11, W12* Omit W8, W9, W10, W13*
Select 600 baud rate	Install W4, W5, W6, W7, W12* Omit W8, W9, W10, W11, W13*
Select 1200 baud rate	Install W5, W6, W7, W12* Omit W4, W8, W9, W10, W11, W13*
Select 2400 baud rate	Install W6, W7, W12* Omit W4, W5, W8, W9, W10, W11, W13*
Select 4800 baud rate	Install W7, W12 Omit W4, W5, W6, W8, W9, W10, W11, W13*
Select 9600 baud rate	Install W13* Omit W4, W5, W6, W7, W8, W9, W10, W11, W12*

*W12 and W13 are not present in revisions 00-09 of artwork 107-000151. Rev 107-000151 Revs 00-18

Current or Voltage Loop

Function	Jumpers
Select the current loop	Install jumpers W1 and W2
Select the EIA voltage levels	Omit jumpers W1 and W2

Ref DGC 107-000151 Revs 00-18

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REV	DATE	APP	ECO

DRAWN	CHECKED	ENGINEER

APPROVED	FIRST USED ON	CODE IDENT
		34984

TITLE
ASYNCHRONOUS
CONTROLLER

DATA GENERAL CORPORATION			
SOUTHBORO, MASSACHUSETTS 01772			
SIZE	CODE	DRAWING NUMBER	REV.
C	010	000115	02

4

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