

BBG12 3STS1E (EC-1) Option Switch Settings

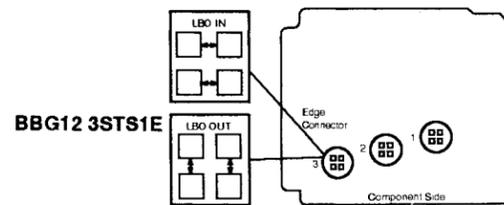


Table P. 3STS1E LBO Settings

Cable Length (Ft)			LBO Setting
734A Cable	Mini-Coax KS-19224	735A Cable	
0 to 225	0 to 75	0 to 125	LBO IN
>225 to 450	>75 to 150	>125 to 250	LBO OUT

**DDM-2000 OC-3/OC-12 Multiplexer
Circuit Pack Options**

BBG1 & BBG5 SYSCTL Option Switch Settings

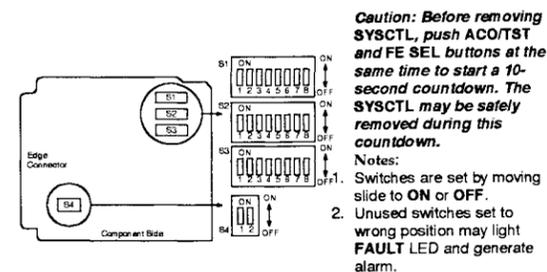


Table A. SYSCTL Switch S1 (Notes)

TBOS Display Number	TBOS Backup Number			CO/RT Select	
	S1-1	S1-2	S1-3	Value	S1-6
1	ON	ON	ON	Primary	RT
2	OFF	ON	ON	Secondary	CO
3	ON	OFF	ON	Normal	ON
4	OFF	OFF	ON	No TBOS	OFF
5	ON	ON	OFF	Remote TBOS	
6	OFF	ON	OFF	Value	S1-7
7	ON	OFF	OFF	Enabled	OFF
8	OFF	OFF	OFF	Disabled	ON

- Notes:**
1. Switch **S1-7** must be **OFF** on **BBG1 SYSCTL**.
2. Switch **S1-8** must be **OFF** on **BBG1** and **BBG5 SYSCTL**.

Table B. SYSCTL Switch S3 (Note)

CIT Front Access Data Rate			CIT Rear Access Data Rate			PMN Alarm			
Baud	S3-1	S3-2	S3-3	Baud	S3-4	S3-5	S3-6	Alarm	S3-7
300	OFF	OFF	OFF	300	OFF	OFF	OFF	Major	ON
1200	OFF	OFF	ON	1200	OFF	OFF	ON	Minor	OFF
2400	OFF	ON	OFF	2400	OFF	ON	OFF		
4800	OFF	ON	ON	4800	OFF	ON	ON		
9600	ON	OFF	OFF	9600	ON	OFF	OFF		
19200	ON	OFF	ON	19200	ON	OFF	ON		
Invalid*	ON	ON	OFF	Invalid*	ON	ON	OFF		
Invalid*	ON	ON	ON	Invalid*	ON	ON	ON		

- Note:** Switch **S3-8** must be **OFF**.
* Invalid setting defaults to 1200 baud and does not generate an alarm.

Table C. SYSCTL Switch S4

TBOS Termination		
Shelf	S4-1	S4-2
Not last	OFF	OFF
Last	ON	OFF

BBG1 & BBG5 SYSCTL Option Switch Settings (Contd)

Table D. SYSCTL Switch 2 (S2) Settings

Site ID	Site ID Setting (Notes)					Shelf ID Setting			
	S2-1	S2-2	S2-3	S2-7	S2-8	Shelf ID	S2-4	S2-5	S2-6
1	ON	ON	ON	ON	ON	1	ON	ON	ON
2	OFF	ON	ON	ON	ON	2	OFF	ON	ON
3	ON	OFF	ON	ON	ON	3	ON	OFF	ON
4	OFF	OFF	ON	ON	ON	4	OFF	OFF	ON
5	ON	ON	OFF	ON	ON	5	ON	ON	OFF
6	OFF	ON	OFF	ON	ON	6	OFF	ON	OFF
7	ON	OFF	OFF	ON	ON	7	ON	OFF	OFF
8	OFF	OFF	OFF	ON	ON	8	OFF	OFF	OFF
9	ON	ON	ON	OFF	ON				
10	OFF	ON	ON	OFF	ON				
11	ON	OFF	ON	OFF	ON				
12	OFF	OFF	ON	OFF	ON				
13	ON	ON	OFF	OFF	ON				
14	OFF	ON	OFF	OFF	ON				
15	ON	OFF	OFF	OFF	ON				
16	OFF	OFF	OFF	OFF	ON				
17	ON	ON	ON	ON	OFF				
18	OFF	ON	ON	ON	OFF				
19	ON	OFF	ON	ON	OFF				
20	OFF	OFF	ON	ON	OFF				
21	ON	ON	OFF	ON	OFF				
22	OFF	ON	OFF	ON	OFF				
23	ON	OFF	OFF	ON	OFF				
24	OFF	OFF	OFF	ON	OFF				
25	ON	ON	ON	OFF	OFF				
26	OFF	ON	ON	OFF	OFF				
27	ON	OFF	ON	OFF	OFF				
28	OFF	OFF	ON	OFF	OFF				
29	ON	ON	OFF	OFF	OFF				
30	OFF	ON	OFF	OFF	OFF				
31	ON	OFF	OFF	OFF	OFF				
32	OFF	OFF	OFF	OFF	OFF				

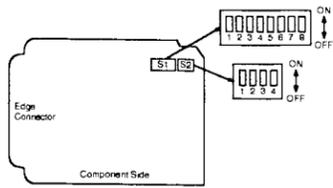
Note 1: The following table lists the maximum number of network elements in a maintenance subnetwork:

	Linear				Ring				
	R2.1.n	R3.x.n	R6.0.n	R6.1.n	R6.2.n	R5.1.n	R7.0.n	R7.1.n	R7.2.n
OC-3 Releases									
Number of NEs Supported	5	8	10	10	10	12	10	16	24
Site ID Settings Supported	8	8	8	32	32	8	32	32	32
OC-12 Releases									
Number of NEs Supported	10	10	10	10	10	10	16		
Site ID Settings Supported	8	8	8	32	32	32	32		

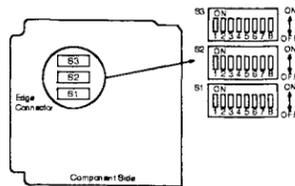
Note 2: Site ID settings 1-32 are supported for OC-3 Release 6.1 and later linear and ring releases and OC-12 Release 2.1 and later linear and ring releases. Prior to these releases, only Site ID settings 1-8 are supported (if more than 8 NEs are in the network you must use unique combinations of the Site ID and NE (OHCTL) settings to prevent "duplicate site/ne address" alarms in the network).

Prior to OC-3 Release 6.1 and OC-12 Release 2.1, Switch 2, sections 7 and 8 (S2-7 and S2-8) are not used and must be set to the ON position. For OC-3 Release 6.1 and later and OC-12 Release 2.1 and later, Switch 2, sections 7 and 8 (S2-7 and S2-8) are used in conjunction with Switch 2, sections 1, 2 and 3 (S2-1, S2-2, and S2-3) to support the 32 Site ID settings. For Releases supporting 1-32 Site ID settings, any of the 32 possibilities may be chosen for Site ID settings for the number of NEs allowed (for example, 1, 10, 20, 30, etc.).

BBG7/BCP1 OHCTL Option Switch Settings



BBG7 OHCTL



BCP1 OHCTL

- Notes:
- Switches are set by moving slide to **ON** or **OFF**.
 - Invalid setting lights **FAULT** LED and generates alarm.

Table E. OHCTL Switch S1 (Notes)

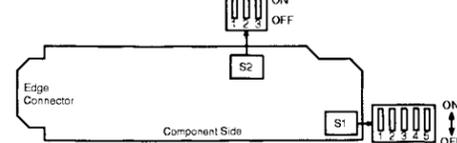
Network Element	S1-1	S1-2	S1-3
1	ON	ON	ON
2	OFF	ON	ON
3	ON	OFF	ON
4	OFF	OFF	ON
5	ON	ON	OFF
Invalid	OFF	ON	OFF
Invalid	ON	OFF	OFF
Invalid	OFF	OFF	OFF

- Notes:
- Switch **S1-4**, **S1-5**, **S1-6**, **S1-7**, and **S1-8** must be set to the **ON** position.
 - On the OC-3 **BBG7 OHCTL** (Release 5 and earlier) (Linear/Ring): Switch **S2-1** must be set to **ON**. Switches **S2-2**, **S2-3**, and **S2-4** should be set to **OFF**.
 - On the OC-3 **BBG7 OHCTL** (Release 6) (Linear): Switch sections **S2-1**, **S2-2**, **S2-3** and **S2-4** factory settings are ON, OFF, OFF, OFF, respectively. S2 switch settings [**S2-1(MAIN A)**, **S2-2(FN A)**, **S2-3(FN B)**, **S2-4(FN C)**] must be set **opposite** each other at each end of an optical span. [OC-3 DLP-500]
 - On the OC-3 **BBG7 OHCTL** (Release 7) (Ring): Switch sections **S2-1**, **S2-2**, **S2-3** and **S2-4** factory settings are ON, OFF, OFF, OFF, respectively. S2 switch settings [**S2-1(MAIN-1)**, **S2-2(MAIN-2)**, **S2-3(FN B)**, **S2-4(FN C)**] must be set **opposite** each other at each end of an optical span. [OC-3 DLP-500]
 - On the OC-12 **BCP1 OHCTL** (Release 1) (Linear): Switch **S2-2** must be set to **ON**. Switches **S2-1**, **S2-3**, **S2-4**, **S2-5**, and **S2-6** should be set to **OFF**. Set switches **S2-7** and **S2-8** to **ON**. Set switches **S3-1** through **S3-8** to **ON**. [OC-12 DLP-500]
 - On the OC-12 **BCP1 OHCTL** (Release 2) (Linear): Switch sections **S2-1**, **S2-2**, **S2-3**, **S2-4**, **S2-5**, and **S2-6** factory settings are OFF, ON, OFF, OFF, OFF, OFF, respectively. S2 switch settings [**S2-1(MAIN A)**, **S2-2(MAIN B)**, **S2-3(FN A)**, **S2-4(FN B)**, **S2-5(FN C)**, **S2-6(FN D)**] must be set **opposite** each other at each end of an optical span. Set switches **S2-7** and **S2-8** to **ON**. Set switches **S3-1** through **S3-8** to **ON**. [OC-12 DLP-500]
 - On the OC-12 **BCP1 OHCTL** (Release 3) (Ring): Switch sections **S2-1**, **S2-2**, **S2-3**, **S2-4**, **S2-5**, and **S2-6** factory settings are OFF, ON, OFF, OFF, OFF, OFF, respectively. S2 switch settings [**S2-1(MAIN-B-2)**, **S2-2(MAIN-B-1)**, **S2-3(FN A)**, **S2-4(FN B)**, **S2-5(FN C)**, **S2-6(FN D)**] must be set **opposite** each other at each end of an optical span. Set switches **S2-7** and **S2-8** to **ON**. Set switches **S3-1** through **S3-8** to **ON**. [OC-12 DLP-500]

BBF2/BBF2B TGS Option Switch Settings



BBF2 TGS



BBF2B TGS

- Notes:
- Switches are set by moving slide to **ON** or **OFF**.
 - Invalid setting lights **FAULT** LED and generates alarm.
 - If switch setting is changed, the **UPD/INIT** button must be momentarily depressed.
 - Timing mode switch settings must be the same on both **TGS** packs. Different settings light the **FAULT** LED on **TGS** in slot **TG-2** and generate an alarm.

Table F. BBF2 TGS Timing Mode

Timing Mode	S1-3	S1-4
Free Running	ON	ON
DS1 External	OFF	ON
Loop Timed (OC-3)	ON	OFF
Loop Timed (OC-12)	OFF	OFF
Invalid (OC-3)	OFF	OFF
Invalid (OC-12)	ON	OFF

Table G. BBF2B TGS Timing Mode

Timing Mode	Switch S1 Settings					
	OC-3 S1-3	S1-4	S1-5	S1-3	S1-4	S1-5
Free Running	ON	ON	OFF	ON	ON	OFF
DS1 External, Mult Mode	OFF	ON	OFF	OFF	ON	OFF
Loop Timed	ON	OFF	OFF	OFF	OFF	OFF
Loop Timed, Sync Out Mode	ON	OFF	ON	OFF	OFF	ON
DS1 External, Sync Out Mode	ON	ON	ON	OFF	ON	ON
Invalid	OFF	OFF	ON	ON	OFF	ON
Invalid	OFF	OFF	OFF	ON	OFF	OFF
Invalid	OFF	ON	ON	ON	ON	ON

Table H. BBF2B TGS Equalizer Switch

Equalization	S2-1	S2-2	S2-3
0' to 131'	ON	ON	OFF
>131' to 262'	ON	OFF	ON
>262' to 393'	ON	OFF	OFF
>393' to 524'	OFF	ON	ON
>524' to 655'	OFF	ON	OFF
Invalid	OFF	OFF	OFF
Invalid	OFF	OFF	ON
Invalid	ON	ON	ON

Table I. BBF2/BBF2B TGS Line Code and Frame Format

DS1 Line Code	S1-1	DS1 Frame Format	S1-2
AMI	ON	SF	ON
B8ZS	OFF	ESF	OFF

BBF1 DS1 & BBF3 DS1PM Option Switch Settings



- Notes:
- Switches are set by moving slide to **ON** or **OFF**.
 - If switch setting is changed, the **UPD/INIT** button must be momentarily depressed.

Table J. DS1 Cable LBO Settings

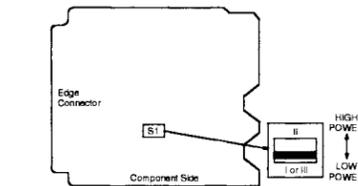
613C (608C) Cable Length (feet)	1249C Cable Length (feet)	Other Cable dB Loss at 772 kHz	S1-1	S1-2	S1-3
0 to 133	0 to 90	0 to 0.6	OFF	OFF	OFF
>133 to 267	>90 to 180	>0.6 to 1.2	OFF	OFF	ON
>267 to 400	>180 to 270	>1.2 to 1.8	OFF	ON	OFF
>400 to 533	>270 to 360	>1.8 to 2.4	OFF	ON	ON
>533 to 655	>360 to 450	>2.4 to 2.8	ON	OFF	OFF

Table K. DS1 Line Code Settings (Note)

Line Code Format	S1-4 (Port 1)	S1-5 (Port 2)	S1-6 (Port 3)	S1-7 (Port 4)
B8ZS	OFF	OFF	OFF	OFF
AMI	ON	ON	ON	ON

Note: For BBF1, switch section **S1-8** is unused and ignored by the system. For BBF3, switch section **S1-8** must be set to **OFF**.

21G/21G-U OLIU Option Switch Settings



- Notes:
- Switch is set by moving slide to **HIGH** or **LOW**.
 - If switch setting is changed, the **UPD/INIT** button must be momentarily depressed.

Table L. OLIU Option Switch

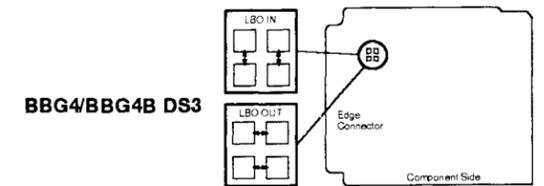
Facility Loss	Transmitter Switch
0 - 6 dB	LOW Power
More than 6 dB	HIGH Power

Table M. Fan Shelf Switch Settings (Note)

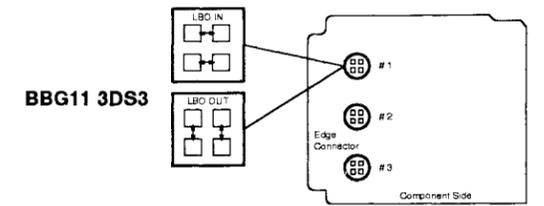
System	S1	S2	S3	S4
DDM-2000 OC-3	ON	OFF	ON	ON
DDM-2000 OC-12	ON	OFF	ON	ON

Note: Switch is set by depressing rocker switch to **ON** or **OFF**.

BBG4/BBG4B DS3 & BBG11 3DS3 Option Switch Settings



BBG4/BBG4B DS3

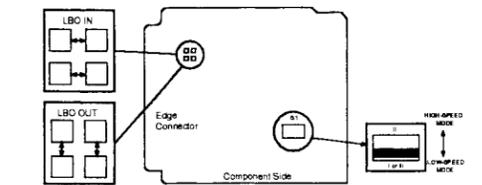


BBG11 3DS3

Table N. DS3 LBO Settings

Cable Length (Ft)	734A		LBO Setting
	Mini-Coax KS-19224	735A 1735006A	
0 to 225	0 to 75	0 to 125	LBO IN
>225 to 450	>75 to 150	>125 to 250	LBO OUT

BBG6 STS1E (EC-1) Option Switch Settings



Note: Switch S1 is set to **HIGH-SPEED MODE** or to **LOW-SPEED MODE**.

Table O. STS1E LBO Settings

Cable Length (Ft)	734A		LBO Setting
	Mini-Coax KS-19224	735A Cable	
0 to 225	0 to 75	0 to 125	LBO IN
>225 to 450	>75 to 150	>125 to 250	LBO OUT