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**DDM-2000 OC-3/OC-12 Multiplexer Circuit Pack Options - Quick
Reference Guide - 363-206-282 - Issue 4**

1. DDM-2000 Multiplexer Circuit Pack Options -

BBG8/BBG8B SYSCTL Option Switch Settings

Switch Settings:

1. Set switch **S1** sections to **OFF**.
2. Set switch **S2** sections **S2-2, S2-3, S2-4, S2-5, S2-6, S2-7, and S2-8** to **OFF**.

Table A. SYSCTL Switch S2-1

TBOS Link Terminator	
Shelf	Setting
Last	ON
Not Last	OFF

BBG10 OHCTL Option Block Settings

Table B. OHCTL Option Block P3

Orderwire Capability	
Single Channel E1-Only	Six Channel Multiplexed
3 to 4	1 to 2
7 to 8	5 to 6
11 to 12	9 to 10
15 to 16	13 to 14
19 to 20	17 to 18

BBF1/BBF1B DS1 & BBF3/BBF3B DS1PM Option Switch Settings

Notes:

1. Switches are set by moving slide to **ON** or **OFF**.
2. If switch setting is changed, the **UPD/INIT** pushbutton must be momentarily depressed.

Table C. DS1 Cable LBO Settings

613C (608C) Cable Length (feet)	1249C Cable 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

* Minimum of 30 feet required to meet EMI requirements.

Table D. 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

Notes:

1. Switch section **S1-8** is unused and ignored by the system.
2. Line code is software overrideable.

BBF2/BBF2B TGS Option Switch Settings

BBF2 TGS

BBF2B TGS

Notes:

1. Switches are set by moving slide to **ON** or **OFF**.
2. Invalid setting lights **FAULT** LED and generates alarm.
3. If switch setting is changed, the **UPD/INIT** pushbutton must be momentarily depressed.
4. Timing mode switch settings must be the same on both **TGS** packs. Different

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settings light the **FAULT**
LED on **TGS** in **TIMING** slot 2
and generate an alarm.

Table E. BBF2 TGS Timing Mode

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

Table F. BBF2B TGS Timing Mode

Timing Mode	Switch S1 Settings					
	OC-3			OC-12		
	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
Line Timed, MAIN	ON	OFF	OFF	OFF	OFF	OFF
Line 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 G. 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 H. 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

21G/21G-U OLIU Option Switch Settings

Notes:

1. Switch is set by moving slide to **HIGH** or **LOW**.
2. If switch setting is changed, the **UPD/INIT** pushbutton must be momentarily depressed.

Table I. OLIU Option Switch

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

BBG12 3STS1E (EC-1) LBO Settings

BBG12 3STS1E

Table J. BBG12 3STS1E LBO Settings

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Cable Length (Ft)		
734D Cable	735A Cable	LBO Setting
0 to 225	0 to 125	LBO IN (ON)
>225 to 450	>125 to 250	LBO OUT

**BBG4/BBG4B/BBG19 DS3 &
BBG11/BBG11B 3DS3 LBO Settings**

BBG4/BBG4B/BBG19 DS3

BBG11/BBG11B 3DS3

Table K. DS3 LBO Settings

Cable Length (Ft)		
734D Cable	735A Cable	LBO Setting
0 to 225	0 to 125	LBO IN (ON)
>225 to 450	>125 to 250	LBO OUT

**BBG6 STS1E (EC-1) LBO & Option
Switch Settings**

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

Table L. BBG6 STS1E LBO Settings

Cable Length (Ft)		
734D Cable	735A Cable	LBO Setting
0 to 225	0 to 125	LBO IN (ON)
>225 to 450	>125 to 250	LBO OUT

BBG20 TMUX LBO Settings

Table M. BBG20 TMUX LBO Settings

Cable Length (Ft)		
734D Cable	735A Cable	LBO Setting
0 to 225	0 to 125	LBO IN (ON)
>225 to 450	>125 to 250	LBO OUT

Cable Length (Ft)		LBO Setting
734D Cable	735A Cable	
0 to 225	0 to 125	LBO IN (ON)
>225 to 450	>125 to 250	LBO OUT

BBF8 HDSL Control Switch Settings

Table N. BBF8 HDSL Control Switch Settings

Control Settings	Switch S1 Settings			
	S1-1	S1-2	S1-3	S1-4
Master	--	OFF	--	OFF
Slave	--	ON	--	ON
Local	OFF	--	OFF	--
Remote	ON	--	ON	--

Table O. 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**.