2400 BAUD COMMANDS THE AMIGA C.G. UNDERSTANDS:

Command	Description	Display/ Control	Info Type	Use	Used By
'C':	Channel lineup info	D	Local	Automatic	
'P':	Program Info string	D	Broadcast	Automatic	
'F':	Configuration	D/C	Local	Automatic	
'f':	New Look Config	D/C	Local	Automatic	
'K':	Clock	D	Broadcast	Automatic	
'T':	Topline	D	Local	Automatic	
'B':	Bottomline	D	Local	Automatic	
'L':	Local text	D	Local	Automatic	
'j':	Order Info (Prevue)	D	Local	Automatic	
'I':	Weather I.D.	D	Local	Automatic	
'W':	WeatherInfo string	D	Broadcast	Automatic	
'G':	Nat'l graphic ad mask	D	Local	Automatic	
'A':	Address	C	Broadcast/Local	Automatic	
0xBB:	Box off	C	Broadcast	Automatic	
'S':	Script	D	?	Automatic	S
'x':	X utility command	C	Broadcast/Local	Exception	
'd':	Delete file	C	-	Exception	S
'%':	Save command	C	-	Exception	
'R':	Reset command	C	-	Exception	
'D':	Diagnostic mode	C	-	Exception/Test	
'V':	Version	D	Broadcast	Exception/Test	
'Q':	Send Qtable list strings	D	Broadcast	Exception	
'H':	Binary download	D	Broadcast/Local	Exception	
'O':	Reset Blackout	C	-	Unused	
'M':	Mode command	C	-	(not used)	
'E':	Extension	C	-	(implemented but unused)	
'N':	National text	D	-	(disabled)	
'Z':	Nat'l text ad mask	D	-	(disabled)	

AUTOMATIC COMMANDS

Channel lineup info Command:

Purpose: To give the c.g. a list of channels and their attributes to display

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	C	Channel lineup command
4	1	Julian Day	0-FFh 1 = Jan 1st
5*	1	^R (12h)	start of source sequence
	1	Source attribute	1-FFh
			Bit 0 = 1
			Bit 1 = (1 = highlite source, 0 = no hilite)
			Bit 2 = (1 = summary by source, 0 = none)
			Bit 3 = (1 = Prevue source disable, 0 = enabled)
			Bit 4 = (1 = Prevue PPV source, 0 = normal)
	6	Source name	A-Z, 1-0
	1	^Q (11h)	channel number to follow (this sequence optional)
	9	Channel Number	
	1	^T (14h)	time slot mask to follow (this sequence optional)
	6	time slot mask	each of the 48 bits represent timeslots (Central)
	1	^A (01h)	Call letters to follow (this sequence optional)
**	6	Call letters	
	1	00h	terminator
	1	CS	Checksum

Time Slot Codes:	Byte	1	2	3	4	5	6
	Time Range	5:00am	9:00am	1:00pm	5:00pm	9:00pm	1:00am
		8:30am	12:30pm	4:30pm	8:30pm	12:30am	4:30am
	Hex Code						
	0x80	5:00am	9:00am	1:00pm	5:00pm	9:00pm	1:00am
	0x40	5:30	9:30	1:30	5:30	9:30	1:30
	0x20	6:00	10:00	2:00	6:00	10:00	2:00
	0x10	6:30	10:30	2:30	6:30	10:30	2:30
	0x08	7:00	11:00	3:00	7:00	11:00	3:00
	0x04	7:30	11:30	3:30	7:30	11:30	3:30
	0x02	8:00	12:00pm	4:00	8:00	12:00am	4:00
	0x01	8:30	12:30	4:30	8:30	12:30	4:30

* Note-- Multiple channel lineups will be sent for a customer in a single command. That is, beginning with the ^R, the sequence may be repeated for each subsequnent channel. The last two bytes (0 and checksum) are added at the end of the channel lineup.

** Prevue will allow 7 characters, EPG 7, and Jr only 5. Presently the HP will only allow 4. 11/13/89

The c.g. will not accept C commands over 1500 bytes long. It will also not accept them if the Julian date is not current or next day or if the command is of a different length or checksum of the previous C command.

Program information string Command:

Purpose: To give the c.g. broadcast program strings for a given source. The c.g. ignores any string that is not dated correctly or in its channel lineup.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	P	Program info command
4	1	Timeslot/Blackout	Bits 0-5 timeslot (01-30h)
			Bit 6 1 = blackout
			Bit 7 - unused
5	1	Julian Day	0-FFh 1 = Jan 1st
6-	6	Source name	A-Z, 1-0
	1	^R (12h)	end of source sequence
	1	String attribute	1-FFh
			Bit 0 = 1
			Bit 1 = (1 = movie)
	511	Program Listing string	Note c.g. allows more characters than can be sent
	1	00h	terminator
	1	CS	Checksum

Configuration Command:

Purpose: To give the c.g. local configuration data

Bytes	Max Bytes	Descp		Comment
1	1	55h		Header
2	1	AAh		
3	1	F		Configuration command
4	1	Backward display window A = 0		B = 1/2 hour back
5	1	Forward display window		A = Current I = 4 hours forward
6	1	Scroll Speed		1 = Fast 8 = slow
7-8	2	# of Local ads		1-48
9	1	# of lines in ad		3 - 8
10	1	Crawl		Y/N (EPG only)
11	1	Minus minutes		1-9 hex
12	1	Plus minutes		1-9 hex was Ratio National/Local
13	1	Time Zone		1 - 9 2 = Hawaii 9 = Virgin Island
14	1	Observe Savings Time		Y/N
15	1	Continuation		Y/N/P = Prime Time (Not used)
16	1	Keyboard		Y/N
17	1	Minus 10 windows		Y/N was What's on Pay Movies
18	1	Minus 3 windows	Y/N	was What's on Movies
19	1	Movie summary Pay		Y/N (Not used)
20	1	Movie Summary		Y/N (Not used)
21	1	Graphics		Y/N/E (E =enhanced on EPG only)
22	1	Video Insertion		Y/N/L (Prevue Only)
23	1	Reserved		X
	1	00h		terminator
	1	CS		Checksum

New Look Configuration Command: **Updated 11/11/93**

Purpose: To give the c.g. local configuration data

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	f	New Look Configuration command
4	1	Command family (ASCII)	1-9 (ASCII) 1- is the only family used.
5-6	2	Command length (HEX)	**For this command ONLY the length bytes includes the checksum. ****
7	1	Roll and Hold time	0-9 (ASCII) , 0 = continuous
8	1	Grid Source/Channel Order	(S for Source first, C for Channel first)
9	1	Movie Recap Frequency	0-9 (ASCII) Number of rotations of grid between recaps. (0 is disable)
10	1	Grid SBS Freqency	0-9 (ASCII) Number of rotations of grid between Summary by Source. (0 is disable)
11-12	2	Grid SBS forward window	1-48 (ASCII) Number of timeslots forward.
13-14	2	Scroll SBS forward window	1-48 (ASCII) Number of timeslots forward.
15	1	Display Mode	G = Grid mode, S = Scroll mode.
16	1	Graphic Ad Insertion	Y/N (ASCII) for the Advantage systems.
17	1	Pie format	A-Z (ASCII) default 'A'.
18	1	00h	terminator
19	1	CS	Checksum

** ALL other commands using the command length bytes in the header DO NOT include the checksum in the command length. This is the ONLY command that includes the checksum byte in the command length.

Clock Command:
Purpose: To send the c.g. the correct current time.

Bytes	Max Bytes	Descp	Comment	
1	1	55h	Header	
2	1	AAh		
3	1	K	Clock	
4	1	Day	0h = Sunday	06h = Saturday
5	1	Month	0h = January	0Bh = December
6	1	Date	0h = 1	0Eh = 311
7	1	Year	00 = 1900	63h = 1991
8	1	Hour	00h - 17h	midnight - 11:00 PM
9	1	Minute	00h - 3Bh	0 - 59
10	1	Second	00h - 3Bh	0 - 59
11	1	D.S.T.	00h = Standard	01h = D.T.S.
12	1	00h	terminator	
13	1	CS	Checksum	

Topline Command: (EPG only)
Purpose: To send the c.g. local topline data string

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	T	Topline command
4 -	40	Top Banner	optional ^X,^Y, ^Z = Center, Left, Right
	1	00h	terminator
	1	CS	Checksum

Bottomline Command: (EPG only)
Purpose: To send the c.g. local Bottom line data string

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	B	Bottom banner command
4 -	40	Bottom Banner	optional ^X,^Y, ^Z = Center, Left, Right
	1	00h	terminator
	1	CS	Checksum

Local Ad Reset Command:
Purpose: To clear non-keyboard local text ad strings from c.g.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	L	Local text command
4	1	92h	Reset
5	1	00h	terminator
6	1	CS	Checksum

Local Ad Command:
Purpose: To send the c.g. local text ad string

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	L	Local text command
4 -	1	text ad string	optional ^X,^Y, ^Z = Center, Left, Right
			^K indicates crawl ad (EPG)
	1	^T (14h)	start/stop time to follow (this sequence optional)
	1	Beginning time slot	1-30h (Not used)
	1	Ending time slot	1-30h (Not used)
	1	00h	terminator
	1	CS	Checksum

Order information Command: (Prevue 3.04 and above only)
Purpose: To send the c.g. local Order information data string

Bytes	Max Bytes	Descp	Comment
Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	j	Order info command
4	1	Julian Day	0-FFh 1 = Jan 1st
5 -	100	Order Info string1	optional ^X = Center white
			optional ^Y = Center yellow
	1	^R	end of string
	100	Order Info string2	optional
	1	00h	terminator
	1	CS	Checksum

Note: if the string is not present the string in the c.g. will be deleted. For example
to clear both strings send:

    55h   AAh   J   jd   ^R   00h CS

to clear string1, send:

    55h   AAh   J   jd   ^R STRING2 00h CS

to clear string2, send:

    55h   AAh   J   jd STRING1 ^R   00h CS

Weather ID Command:

Purpose: To give the c.g. its local weather id

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	I	I.D. command
4	1	Display count	0-9 * (See note)
5	10	Weather I.D.	id string
	1	^R	end of string
	26	City string	More than this interferes with graphics (10\2\89)
	1	00h	terminator
	1	CS	Checksum

* 0 = never display
  1 = display ever timeslot window
  2 = every other window
  3 = every third window etc.)

Weather Data Command:

Purpose: To give the c.g. its broadcast weather data

Bytes	Max Bytes	Descp	Comment
Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	W	Weather command
4	1	display length	1-FFh (minutes)
5	1	color I.D.	1-FFh
6	1	icon I.D.	1-FFh *(See note)
7	1	spare expansion byte	1-FFh
8	10	I.D. string	ie TUL
	1	^R	end of string
	123	data string	embedded ^x,^y & ^z
	1	00h	terminator
	1	CS	Checksum

* 0 = illegal
  1 = no icon
  2 = "wsun"
  3 = "wcloud" (partly cloudy)
  4 = "wrain"
  5 = "wovercast"
  6 = "wsnow"
  7 = "wfog"
  8 = "wcold"

National Graphic Ad mask: (EPG Only)

controls national graphic ads by deleting unused ads and remaking ng.ads (current ad list file)

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	G	NG ad mask
4	1	bit mask for ads 1-8	
5	1	bit mask for ads 9-16	
6	1	bit mask for ads 17-24	
7	1	bit mask for ads 17-32	
8	1	bit mask for ads 33-40	
9	1	bit mask for ads 41-48	
10	1	00h	terminator
11	1	CS	Checksum

Address Command:

Purpose: To put the c.g. in a state where it will receive commands. Box on will 'wake up' a box or group of boxes.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	A	I.D. command
4	9	C. G. type	A or B delimited with ':'
		C. G. select code	0-9,A-Z,_,*
		C. G. ext	e.g. C:AM0BC.GRT
	1	00h	terminator
	1	CS	Checksum

c.g. recognizes * and ? as wild cards similar to DOS wild cards

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Box off Command: Batch end

Purpose: To put the c.g. in a state where it will NOT receive any commands except weather data.

Bytes	Max Bytes	Descp	Comment
Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	BBh	Boxoff command
4	1	BBh	
	1	00h	terminator
	1	CS	Checksum

EXCEPTION COMMANDS

Save Command:
Save text ads and current data to disk.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	%	Save command
4	1	00h	terminator
5	1	CS	Checksum

Reset Command:
Reset the cg for new software, fonts, files etc

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	R	Reset
4	1	00h	terminator
5	1	CS	Checksum

Diagnostic Command:
Diagnostics helps test the bit error rate of a system.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	D	Diagnostic
4-260	256	0h- FFh	256 byte test pattern
261	1	00h	terminator
262	1	CS	Checksum

Version Command:
Alerts system operator that system software may be out of date.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	V	I.D. command
4	1	Reserved	Not used 1-FFh
5	13	Version String	A string without blanks. Example "4.1"
	1	00h	terminator
	1	CS	Checksum

Purpose: Send a command string to be performed from an Amiga dos prompt.

Bytes	Max Bytes	Descp	Comment
1	1	55h	File name Header
2	1	AAh	
3	1	x	x Command
4	1	Family	Hex number of the family of the command
5	1	Member	ASCII number of the member (if needed)
6	1	Sub-Member	ASCII number of the member (if needed)
7-	80	String	ASCII string (if needed)
	1	00h	terminator
	1	CS	Checksum

Family "1"   - Sneak software test routines. (member required)
       Member "TEST"   - Issue hardware test.   **(S/G/L)**
       Member "N"   - Set state to perform the next SO.   **(S/G/L)**
       Member "A"   - Set state to perform the next async.   **(S)**.

Family "2"   - Set types mode for Sneak only. (member required).
       Member "1"   - Play Bumpers only   **(S)**
       Member "2"   - Play Title Billboards only   **(S)**
       Member "3"   - Play Specials (Reel Talks) only   **(S)**
       Member "4"   - Play Promotions only   **(S)**
       Member "5"   - Play Event billboard only   **(S)**
       Member "6"   - Insert mode   **(S)**
       Member "7"   - Advance to next promo   **(S)**
       Member "8"   - Play Olympic video types only   **(S)**
       Member "9"   - Play Adult video types only.   **(S)**

Family "3"   - Miscellaneous routines. (member required)
       Member "0"   - Place Sneak Prevue in QC mode.   **(S)**
       Member "1"   - QC Sneak Prevue by frame number   **(Not Used)**
                                       (frame number is string)
       Member "2"   - Issue a system command for the Amiga. **(S/P/L)**
       Member "3"   - Issue Misc. Install commands: (sub-member required)
              Sub-member "0"   - Install format file from disk.   **(S/G/L)**
              Sub-member "1"   - Install PFG file from disk.   **(S/G/L)**
              Sub-member "2"   - Install Types file from disk.   **(S/G/L)**
              Sub-member "3"   - Install Regions file.   **(S)**
              Sub-member "4"   - Install g.ads file.   **(P/G/L)**
       Member "4"   - Remote Diagnostic keystrokes. (sub-member required)
              Sub-member "0"   - Return to service.   **(S/P/G/L)**
              Sub-member "1"   - Diagnostic screen.   **(S/P/G/L)**
              Sub-member "2"   - Version screen.   **(S/P/G/L)**

* All commands are used for Sneak Prevue ONLY, unless noted otherwise.
        S - Sneak Prevue   **P - Prevue Guide**
        G - Prevue Guide Laser   **L - Laser Guide Canada**

Q Table Download Command:
Purpose: Send list of top source call letters.

Bytes	Max Bytes	Descp	Comment
1	1	55h	File name Header
2	1	AAh	
3	1	Q	Q Table
4 -	1500	File	ASCII file qt on compact*
	1	00h	terminator
	1	CS	Checksum

*   File format is

XX1 , TAB, string1, CR,LF	; where XX1 is the first 3 letters of the 1st source
XX2 , TAB, string,2 CR,LF	; where the string are in the same format as the
XX3 , TAB, string,3 CR,LF	; order infomation string.
`	
`	
XXn , tab, string,n CR,LF, ^Z	

Binary Download Command:
Purpose: Send binary files such as graphic ads or software. See examples at the end of document

Bytes	Max Bytes	Descp	Comment
1	1	55h	File name Header
2	1	AAh	
3	1	H	Binary file
4 -	30	Filename	Name of file to be transmitted *
	1	00h	terminator
	1	CS	Checksum
	1	0Dh	carriage return (optional)
	1	0Ah	linefeed (optional)
	1	55h	Record Header
	1	AAh	
	1	H	Record sub-command
	1	record #	0h-FFh (wraps)
	1	# of bytes in record	0h - FFh if 0 then end download
	255	Binary data	0h - FFh bytes
	1	CS	Checksum from Record header

The record portion of the command is sent once for each record. (usually of 128 bytes). The record portion of the command may be sent as many times as necessary but the c.g. must have them in ascending order.

* Standard AmigaDos names e.g. "DF1:TEMP.DAT". If the name is of the form "DFx:NATnn.GRF" where x = 0 or 1 and nn = 01 - 40 then the c.g. will treat the file as a national graphic ad and will save or not save the file according to its NGad mask. (See the 'G' command)

OBSCURE COMMANDS

Blackout Reset Command: (never used ?)
Reset the blackout mask for all programming.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	O	Blackout Reset
4	1	00h	terminator
5	1	CS	Checksum

Extension Command: (implemented but unused)
To give the c.g. new addressing modes for region and group addressing.

Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	O	Blackout Reset
4	1	00h	terminator
5	1	CS	Checksum

'M':	Mode command	C	-		(not used)
'N':	National text	D	-		(disabled)
'Z':	Nat'l text ad mask	D	-		(disabled)

Order information Command: (Prevue 3.03 only)
Purpose: To send the c.g. local Order information data string

Bytes	Max Bytes	Descp	Comment
Bytes	Max Bytes	Descp	Comment
1	1	55h	Header
2	1	AAh	
3	1	J	Order info command
4 -	60	Order Info string	optional ^X = Center white
			optional ^Y = Center yellow
	1	00h	terminator
	1	CS	Checksum