Tel +1 (717) 767-6511
Fax +1 (717) 764-0839
www.redlion.net

Giddings and Lewis C/E Controller

Information Sheet for Crimson v2.0

Compatible Devices

- Giddings and Lewis C/E Controller

Verified Device

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NOTE: The driver does not verify the correctness of any data sent to the drive. It is the programmer's responsibility to ensure that written values are within safe limits.
NOTE: Items preceded by "…" must be loaded with valid values before the IEXE, PEXE, or CEXE command, as appropriate, is executed.
IMPORTANT: Except for DV, a value shown when reading a selection is not valid until it has been written. The programmer is responsible for restoring correct values to write-only selections subsequent to a download, or power cycle.

Accessible Data

Mnemonic	Description	Notes
IEXE	EXECUTE Initialization...(I)	1
ISEL	...Selector	2
IPHS	...Phases	2
IBS1	...<unused>	2
IBS2	...<unused>	2
ISO	...Stabilizer Offset	2
IFFO	...Forward Frontstop Coarse Offset	2
IWO	...Whip Offset	2
INO	...Nip Offset	2
IRFO	...Reverse Frontstop Coarse Offset	2
IDSP	...DS Side Guide Position	2
IOSP	...OS Side Guide Position	2

Mnemonic	Description	Notes
PEXE	EXECUTE Position Update...(P)	3
POIP	...C/E Offset In Position	4
POP	...C/E Offset Position	4
PSC	Status Code	5
PFL1	Flag Word 1	5
PFL2	Flag Word 2	5
PFL3	Flag Word 3	5
PWR	Whip Resolver	5
PFFR	Frontstop Fine Resolver	5
PFCR	Frontstop Coarse Resolver	5
PSR	Stabilizer Resolver	5
PNR	Nip Resolver	5
POSR	OS Side Guide Resolver	5
PDSR	DS Side Guide Resolver	5
PWP	Whip Position	5
PFP	Frontstop Position	5
PSP	Stabilizer Position	5
PNP	Nip Position	5
POSP	OS Side Guide Position	5
PDSP	DS Side Guide Position	5
CEXE	EXECUTE Send Commands...(C)	6
CBCT	...Bundle Count	7
CUO	...Ups/Outs	7
CBCL	...Board Caliper	7
COC	...Offset Command	7
CWC	...Whip Command	7
CFC	...Frontstop Command	7
CSC	...Stablilizer Command	7
CNC	...Nip Command	7
COS	...OS Side Guide Command	7
CDS	...DS Side Guide Command	7
SS	Stop Setup(S)	8
DV	R/W Downstacking Value(K/k)	9
SSV	Send Spanking Value(s)	10

NOTES:

Initialization (I):

1) Setting **IEXE** to a non-zero value will send the initialization data to the controller.

2) The programmer must ensure all "I" values are valid before executing **IEXE**.

Position Update (P):
3) Setting **PEXE** to a non-zero value will send **POIP** and **POP** to the controller, and store the response for each item **PSC** through **PDSP**.
4) The programmer must ensure valid data is contained in **POIP** and **POP** before executing **PEXE**.
5) The data retrieved by a **PEXE** command is stored in the driver. Any item may be requested, but is only updated when the **PEXE** command has been issued.

Send Commands (C):
6) Setting **CEXE** to a non-zero value will send the command data.
7) The programmer must ensure all "C" values are valid before executing **CEXE.**

STOP SETUP (S):
8) A non-zero value written to **S** will send the Stop Setup Command.

DOWNSTACKING VALUE (Read = K, Write = k):
9) DV is the ONLY item that can be read and written.

SEND SPANKING VALUE (s):
10) Writing a value to **SSV** sends the number to the controller. That number is also stored within the driver. The most recently written value is returned when a read of **SSV** is done.

Cable Information

RS232 Serial Connection

C/E	Signal Name	G3
2	Tx >> Rx	2
3	Rx << Tx	5
5	0V	3/4